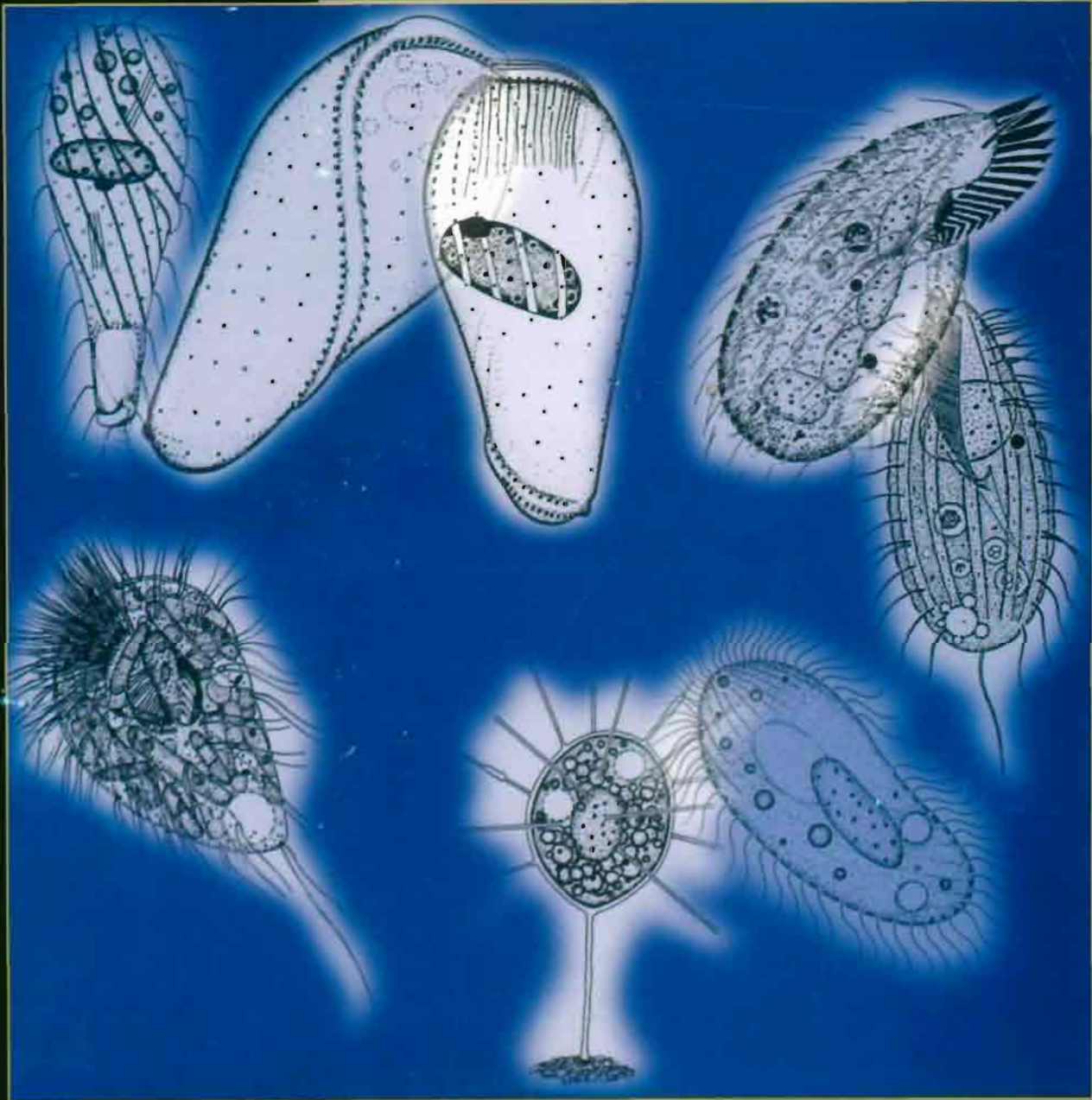


# Denisia 01

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**E. AESCHT:**

**Catalogue of the  
Generic Names of Ciliates  
(Protozoa, Ciliophora)**



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of Ciliates (Protozoa, Ciliophora)**

In der Schriftenreihe „**Stapfia**“ erscheinen seit 1977 umfangreiche Monographien, Symposiumsbeiträge und seit Band 32 (1994) auch die Kataloge zu den Ausstellungen des Biologiezentrums des Oberösterreichischen Landesmuseums. Die steigende Anzahl, sowohl der botanischen als auch zoologischen Beiträge (13 Bände in den vergangenen zwei Jahren) bewogen uns zu einer thematischen Trennung (ab Band 55): Botanische und vorwiegend den Pflanzen gewidmete Arbeiten verbleiben in der „**Stapfia**“, für zoologische und vorwiegend den Tieren gewidmete Arbeiten gründen wir die nun vorliegende neue Zeitschrift „**Denisia**“.

Die Schriftenreihe „**Denisia**“ ist nach [Johann Nepomuk Cosmas] Michael DENIS benannt, der am 27. September 1729 in Schärding (damals Bayern, heute Oberösterreich) geboren wurde und am 29. September 1800 in Wien starb. Er war ab 1759 Professor am Wiener Theresianum und ab 1784 Kustos der Wiener Hofbibliothek. DENIS, auch „Sined der Barde“ genannt (ein Anagramm seines Namens), ist besonders als Schriftsteller (v. a. Lyrik), Übersetzer (er übertrug als erster den „Ossian“ ins Deutsche, 1768/69) und Bibliothekar (u. a. „Einleitung in der Bücherkunde“, 1777/78) bekannt. Einige Jahre half er jedoch dem bekannten Oberösterreichischen Naturforscher Ignaz SCHIFFERMÜLLER, die Schmetterlinge der Wiener Umgebung zu sammeln und zu bearbeiten; als Ergebnis erschien 1776 das „Systematische Verzeichniss der Schmetterlinge der Wienergegend herausgegeben von einigen Lehrern am k.k. Theresianum“. Ihre Sammlung im Kaiserlichen Hof-Naturlienkabinet, nun Naturhistorisches Museum Wien, verbrannte 1848.

#### Editorial

Since 1977 in the periodical "**Stapfia**" voluminous monographies, contributions to symposia, and since volume 32 (1994) also the catalogues to the exhibitions of the "Biologiezentrum des Oberösterreichischen Landesmuseum" are published. The increasing number of botanical as well as zoological contributions (13 volumes in the past two years) induced a thematic separation starting with volume 55: Botanical papers and works largely attributed to plants will continue to be published in the "**Stapfia**", for zoological papers and works largely attributed to animals the new journal "**Denisia**" is founded.

The periodical "**Denisia**" is named according to [Johann Nepomuk Cosmas] Michael DENIS, who was born in Schärding (at this time Bavaria, now Upper Austria) at 27 September 1729 and died in Vienna at 29 September 1800. In 1759 he was made professor at the Theresian Academy in Vienna and since 1784 librarian of the imperial court library. DENIS, also called "the bard Sined" (an anagram of his name) is specially known as a poet, translator of Ossian's poems, and as a bibliographer (e. g. "Einleitung in der Bücherkunde", 1777/78). For some years, however, he assisted the famous Upper Austrian naturalist Ignaz SCHIFFERMÜLLER in collecting and investigating lepidopterans in the surroundings of Vienna. In 1776 the "Systematische Verzeichniss der Schmetterlinge der Wienergegend herausgegeben von einigen Lehrern am k.k. Theresianum" was published. Their collection at the "Kaiserliche Hof-Naturlienkabinet", precursor of the "Naturhistorisches Museum Wien", was destroyed by fire in 1848.

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**Catalogue of the Generic Names  
of Ciliates  
(Protozoa, Ciliophora)**

**Erna AESCHT**

**Denisia**

**1**

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## Catalogue of the Generic Names of Ciliates (Protozoa, Ciliophora)

Erna AESCHT

**Abstract:** All genus-group names of ciliates established between 1758 and 2000 are compiled and their nomenclatural availability and current taxonomic status is assessed. One of the most important principles has been that the repetition of existing errors in citation should be avoided by careful review of the original literature. This catalogue was intended to be an aid to a more stable nomenclature in ciliatology. A number of services are provided, the most important are (1) an alphabetical list of generic names of recent and fossil ciliates; (2) correct citation of the author(s) to whom the genus must be attributed; (3) reference to the first valid publication of the generic name; (4) citation of the type species of the genus, including its basionym, its possibly corrected gender ending, and kind of typification; (5) record of existing homonymy and synonymy; (6) additional information concerning modern genus revisions, key to species, and redescriptions of type species.

Attention must be called to the fact that the catalogue is a nomenclatural work. Statements of taxonomic opinion have been avoided. This catalogue is an attempt to report the state of literature on a basic category of ciliate systematics and is in no way intended to standardize or institutionalize ciliate taxonomy at genus level. Controversies and lacunae of information have been highlighted in the hope that these problem areas will receive the attention that they deserve.

2701 names are treated in this compilation: 618 (about 23%) are unavailable for various reasons, e.g. because they are vernacular names or "naked names" (*nomina nuda*) or incorrect subsequent spellings. Of the 2083 available genera, 1484 are considered as valid (including 41 optional subgenera), whereas 28.7%, viz. 599, names are treated as invalid, i.e. junior homonyms or synonyms, "forgotten" names (*nomina oblita*) or names of unknown or doubtful application (*nomina dubia*).

16 new generic names are introduced to replace junior homonyms (with preoccupied name to the right): *Arachnodinella* / *Arachnodinium*; *Borzaites* GRÜN & BLAU / *Borzaiella*; *Causella* / *Causia*; *Cubanites* / *Cubanella*; *Cylindriconella* / *Cylindrella*; *Helellophrya* / *Helella*; *Hsiungella* IMAI / *Hsiungia*; *Kotinia* OBOLKINA / *Alexandria*; *Microcetella* / *Microcetus*; *Ollella* / *Olla*; *Parametopidium* / *Parametopus*; *Rossieella* / *Rossiella*; *Protospirella* / *Protospira*; *Pterodiniella* / *Pterodinium*; *Racovitzaella* / *Racovitzaia*; *Rhabdothoracella* / *Rhabdothorax*. Five *nomina nuda*, viz. *Akidodes* LOM, *Albaretia* AFFA'A, *Biggaria*, *Mesanothrys* SMALL & LYNN, and *Pallitrichodina* VAN AS & BASSON, are validated herein by selection of the type species.

1531 references (including partially unpublished abstracts and doctoral theses) are compiled as complete as possible concerning publication year, title, journal, volume, and page numbers as well as unpaginated plates. 1058 works are indexed as primary literature of ciliate systematics, i.e. introducing generic names.

**Key words:** Nomenclature, annotated dictionary of genera, taxonomic status, new replacement names, validations.

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# 1. Introduction and Basic Considerations

## 1.1 Brief History of Ciliate Naming

In the seventeenth century first observations on ciliates have been documented – i.e. described in words and figured, but without naming any microscopic organism – by the Dutch wine-gauger Antony van LEEUWENHOOK (1632-1723) in his famous letters in the "Philosophical Transactions of the Royal Society of London" starting with 7 September 1674 (for references see CORLISS (1975 [COR079]; the reference code in square brackets is explained in chapters 1.3.2.4 and 4.1.3). In the first half of the eighteenth century, Louis JOBLOT (1645-1723; 1718 [PR1112]), Abraham Gotthelf KÄSTNER (1719-1800; 1752 [E01026]), and Jacob Christian SCHÄFFER (1718-1790; 1754 [E00704]) used their language, viz. French or German, to denote the organisms observed (see also chapter 1.3.3). For instance, the "chausson" illustrated by JOBLOT is now known as the "slipper" animalcule *Paramecium*, probably the most popular ciliate ever known. Those who are willing to acquire more historical literacy in protozoology in general should read EHRENBERG (1838 [EHR010]), BÜTSCHLI (1887 [LB0896: 1100-1195]), CORLISS (1954 [COR009], 1957 [COR023], 1975 [COR079], 1978 [COR139], 1979 [COR085, COR144], 1986 [COR094, COR160], 1991 [COR100], 1997 [COR281]), and RAGAN (1997 [Z04954]).

John HILL (1707-1775), a medical doctor, was the earliest taxonomist using the scientific language Latin in coining names of microorganisms. In his large work on the "History of Animals", HILL (1752 [E00665]) named a number of protozoa, including the ciliates *Paramecium*, *Cyclidium*, and *Enchelys*, but species were simply numbered. These genera, however, cannot legally be ascribed to him (i.e. credited to his name), since they predate the official starting point ("year zero") in zoological nomenclature, viz. 1758: date of publication of Carl von LINNÉ's tenth edition of his "Systema Naturae" (cp. [E00705]). LINNÉ (latinized LINNAEUS) ignored these published names of ciliates and even later questioned whether "Moleculae vivae, animalia infusoria" were living bodies informed by organs, or something rather different, such as a salt, an oil, etc. (LINNÉ 1767 [E00129: 395-396]).

The official starting point of ciliate nomenclature is 1767, when LINNÉ (in his twelfth edition of the "Systema Naturae" [E00129]) separated *Vorticella* from the hydroid taxa, where some vorticellids and stentorids had been included under the generic vehicles *Hydra*, *Isis*, and *Sertulina*. A man strongly disliked by LINNÉ, the Danish naturalist Otto Friedrich MÜLLER (1730-1784) was the first nomenclatural taxonomist to treat microscopic organisms, particularly ciliates, in a systematic way. Apart from officially introducing HILL's names *Paramecium* (spelled *Paramaecium*), *Cyclidium*, and *Enchelys* (spelled *Enchelis*), in 1773 (cp. [E00132]) he established the genera *Bursaria*, *Colpoda* (spelled *Kolpoda*), *Kerona*, and *Trichoda*. MÜLLER's great posthumous monograph of 1786 was edited by Otto FABRICIUS (cp. [E00405]) and contains nearly 300 species very conservatively assigned to a dozen protozoan genera about half of them ciliates: his *Cyclidium* contained 10 species, *Kerona* 14, *Colpoda* 16, *Leucophra* 26, *Enchelys* 27, *Vorticella* 75, and his "infamous" *Trichoda* embraced 89! species.

Parallel to the "scientific" literature entirely written in Latin, names were continuously created by mainly German and Italian workers, for instance H. BAKER (1743-1753; 1752 [E00707]), August Johann RÖSEL von ROSENHOF (1705-1759; 1755 [LB0903]), Johann Augustin Ephraim GOEZE (1731-1793; 1773-1774 [E00712], 1782 [E00720], 1787 [LB0989]), Johann Conrad EICHHORN (1718-1790; 1781 [E00713], [PR1166]), Wilhelm Friedrich Freiherr von GLEICHEN[-RUSSWORM] (1717-1783; 1777-1781 [E00717], 1778 [E00716]), Franz de Paula SCHRANK (1776 [E00714], 1780 [PR1082]), Bonvista CORTI (1774 [E00718]), and Lazaro SPALLANZANI (1729-1799; 1776 [E00715]). However, some of these gentlemen's preoccupation with protozoa per se, or even microscopy, was rather slight. A parallel use of vernacular French and Latin words characterizes the early efforts at classification of microorganisms by the French geographer, naturalist and explorer Jean Baptiste Geneviève Marcellin Baron de BORY de SAINT VINCENT (1778-1846). In the monumental, multiauthored French treatises "Encyclopédie Méthodique" (1782-1832, 206 volumes) and "Dictionnaire Classique d'Histoire Naturelle" (1816-1830, 60 volumes) he included about 500 old and new names of microscopic taxa between 1823 and 1843. Unfortunately, BORY repeated and named many of almost indeterminable old figures and forms, for instance he splitted *Vorticella* species in five further genera, viz. *Convallaria*, *Kerobalana*, *Ophrydia*, *Rinella*, and *Urceolaria* (cp. EHRENBERG 1834 [EHR004], 1838 [EHR010: xxi]; BÜTSCHLI 1887-1889 [LB0896]). Single generic names prevailed, although defined and spelled differently, e.g. *Condylostoma* instead of *Kondyliostoma*, *Lacrymaria* vs. *Lacrimatoria*, *Ophrydium* vs. *Ophrydia*, *Oxytricha* vs. *Oxitricha*, and *Zoothamnium* vs. *Zoothamnia*.

The most outstanding worker in the first half of the nineteenth century was the German professor of natural sciences at the University of Berlin Christian Gottfried EHRENBERG (1795-1876; 1830 [EHR001], 1831 [EHR002], 1833 [EHR067], 1834 [EHR004, EHR003], 1835 [EHR005], 1838 [EHR010], 1840 [EHR011], 1853 [EHR021], 1854 [EHR029, EHR046], 1861 [EHR030]). His famous monograph "Die Infusionsthierchen als vollkommene Organismen" of 1838 included 350 new species in its taxonomic section and is even today indispensable concerning old literature and synonyms (cp. CORLISS 1978 [COR139: 423], 1991 [COR100: 54]). He included 90 ciliate genera, about 50% of them (mainly taxa of BORY) were considered as invalid. Since he was the great "first reviser" of ciliate nomenclature and taxonomy, numerous names are incorrectly ascribed to "EHRENBERG 1838".

Felix DUJARDIN (1801-1860; 1841 [CI1202]), physiologically orientated French invertebrate zoologist, chemist, and botanist at Rennes and great opponent of EHRENBERG concerning the controverse uni- or multicellularity of protozoa, coined such famous generic names as *Acineria*, *Dileptus*, *Diophrys*, *Halteria*, *Loxophyllum*, *Plagiotoma*, *Pleuronema*, *Scyphidia*, *Spathidium*, *Trochilia*, and *Uronema*. Very prolific workers of the nineteenth century concerning new genera were [Jean Louis] Édouard [René Antoine] CLAPARÈDE (1830-1871) together with [Karl Friedrich] Johann LACHMANN (1832-1861) in their "Études sur les Infusoires et les Rhizopodes" (1858 [E00117], 1859 [E00118], 1861 [E02071]) and Friedrich [Ritter von] STEIN (1818-1885; 1859 [CI1394, PR1074, CI1554, CI1555], 1860 [E00817, E00098], 1867 [PR1075], 1878 [E01074]).

At the end of the nineteenth century, the German professor [Johann Adam] Otto BÜTSCHLI (1848-1920) treated in his monograph of 1887-1889 (cp. [LB0896]) 439

ciliate genera, including 32 vernacular names (see chapter 1.3.3.1) and 263 synonyms, thus he considered 144 genera as valid.

Alfred KAHL (1877-1946), a German teacher in a grammar school, wrote his invaluable treatises (1930-1935 [KAH008, KAH012, KAH014, KAH019]), which have justifiably been regarded as the most authoritative source of systematic information (e.g. CORLISS 1960 [COR035: 18]), at an age of about 50 years. He treated 550 generic names of mainly free-living ciliates and was one of the first ciliate taxonomists intensely confronted with the International Rules of Zoological Nomenclature, first published in 1905 by the International Commission on Zoological Nomenclature (I.C.Z.N. 1905 [E02444]). However, it was obviously difficult to apply them consistently, although he was in contact with the nomenclaturist Franz POCHE (cp. KAHL 1931 [KAH012: 244]). Apart from formal concerns, i.e. the positioning of synonyms as subgenera, the frequent lack of a type species fixation, still causes numerous difficulties with KAHL'S taxa (cp. chapters 2, 3.1, 3.4).

In the first half of the twentieth century living observation became assisted by silver impregnation techniques, a methodology, which resulted in an almost baffling flood of new characters and consequently an eminent increase of newly discovered taxa. Additionally, the number of layman and professionalists engaged with the investigation of microorganisms increased considerably. This led to a burden of taxonomic literature with junior homonyms and synonyms. At this time the necessary nomenclatural investigations and emendations, particularly the replacement of preoccupied names and the conservation of the generic name *Tetrahymena*, have been largely performed by a single exceptional man, John O. CORLISS in a lot of papers (1951 [COR104], 1957 [COR023], 1958 [COR025], 1960 [COR035, COR036], 1961 [COR113], 1962 [COR039, COR114, COR115], 1963 [COR043, COR219], 1965 [COR218], 1972 [COR065, COR066], 1977 [COR189], 1980 [COR088], 1982 [COR151], 1990 [COR165], 1992 [COR102], 1995 [COR193], CORLISS & DOUGHERTY 1955 [COR012], CORLISS et al. 1965 [COR048], CORLISS & DOUGHERTY 1967 [COR196], CORLISS & DAGGETT 1983 [COR092]). The first edition of the "Ciliated Protozoa" by CORLISS (1961 [COR113]) has listed 1125 generic names, of which 833 were considered as valid and 292 as invalid. About 20 years later, in the second edition (1979 [COR085]), the respective numbers increased to 1574 / 1118 / 456. The total numbers must, however, be reduced by about 200, because incorrect subsequent spellings are listed as synonyms, although they have no standing in zoological nomenclature (see chapter 3.1). Moreover, 20 genera without description, thus "naked names" (nomina nuda), were introduced in the book. Unfortunately, due to space restrictions, specific names have been omitted and only 443 references relevant to generic names have been cited.

The classic book of CORLISS (1979 [COR085]) was the last comprehensive "catalogue" of ciliate genera. In the monograph of SMALL & LYNN (1985 [Z06206]) and the French revision on ciliates, edited by PUYTORAC (1994 [LB0398]), only 541 and 1123, respectively of the representative genera have been treated; synonymys and references were largely omitted. Modern revisions of ciliate genera or families are rare compared to the amount of work required (DRAGESCO 1963 [CI1463]; BORROR 1972 [CI1191], 1979 [CI1073]; BRADBURY & CLAMP 1973 [CI1222]; TRUEBA 1978 [E01069], 1980 [E01070]; CLAMP 1982 [CI1329]; BORROR & WICKLOW 1983 [CI1193]; CURDS & WU 1983 [E02101]; CURDS 1985 [E00982], [E01045], [E00541], 1986 [E02041], 1987 [E02043]; RIEDER 1985 [Z06244]; WARREN 1986 [E02092],

1987 [CI1319], 1988 [CI1431]; GUHL & HAIDER 1988 [LB0344]; MATTHES 1988 [LB0005]; CLAMP 1991 [CI1115]; WARREN & PAYNTER 1991 [CI1592]; ALEKPEROV 1992 [CI1491]; BASSON & VAN AS 1989 [CI1118]; SONG et al. 1992 [E00733]; EIGNER 1994 [CI1619]; BORROR & HILL 1995 [CI1462]; FERNANDEZ-LEBORANS & ALEKPEROV 1996 [E01958]; DRAGESCO 1999 [CI1678]). Even less specific taxonomic groups of ciliates have been catalogued including nomenclatural aspects, viz. tintinnids by LOEBLICH & TAPPAN (1968 [CI1533]), hypotrichs by JANKOWSKI (1979 [CI1188]), colpodids by FOISSNER (1993 [FOI282]), oxytrichids by BERGER (1999 [LB1083]), trachelocercids by FOISSNER and co-workers (FOISSNER & DRAGESCO 1996 [FOI365], FOISSNER 1996 [FOI370], 1997 [FOI399, FOI400], FOISSNER & AL-RASHEID 1999 [FOI428]), and saprobiological important taxa by FOISSNER and co-workers (FOISSNER et al. 1991 [FOI243], 1992 [FOI265], 1994 [FOI300], 1995 [FOI340]). The nomenclature of specific genera has been considered by FOISSNER (1975 [FOI023], 1977 [FOI037], 1985 [FOI133], 1986 [FOI154], 1987 [FOI173], 1988 [FOI192], 1993 [FOI182], 1995 [FOI355], 1997 [FOI335]); CAREY & TATCHELL (1983 [CI1088]); AUGUSTIN et al. (1987 [FOI166]); BERGER & FOISSNER (1988 [FOI190]); FOISSNER et al. (1987 [FOI179]); GANNER & FOISSNER (1989 [FOI214]); KRAINER & FOISSNER (1990 [FOI231]); FOISSNER & WÖFL (1994 [FOI304]); CORLISS & FOISSNER (1997 [FOI412]); FOISSNER & ACHTERBERG (1997 [FOI402]).

New species, genera, and even families of ciliates continue to be discovered through the twentieth century and there is no end in sight. Much of the taxonomic work in ciliatology (and also protozoology) is still in the alpha or descriptive phase (e.g. CORLISS 1963 [COR219]; FOISSNER 1995 [FOI338], 1996 [FOI369], 1997 [FOI335], 1997 [FOI398], 1998 [FOI421], 1999 [FOI430], FOISSNER et al. 1999 [FOI450]). Thus ciliate systematics, in this important respect, lags nearly a century behind the taxonomy of certain other animal groups (e.g., the vertebrates).

## 1.2 The Need for a Ciliate Catalogue

There is no official classification of ciliates, but there exists an "International Code of Zoological Nomenclature" in its fourth edition (I.C.Z.N. 1999 [LB1077]). Most ciliatologists have never been particularly interested in nomenclature, which is the grammar and vocabulary of zoology, and are unaware of or indifferent to the problems they sometimes create (see also chapter 3.1). The inexcusable nomenclatural shortcomings and the lack of a comprehensive catalogue of published generic names of ciliates (and protozoa in general) have led to an accumulation of a great number of nomina nuda and invalid junior homonyms. Consequently, the taxonomic literature has been further burdened by subsequent name changes. The catalogue was thus intended to be an aid to a more stable nomenclature. The objective of this index is to list comprehensively the names of all genus-group names, i.e. genera and subgenera, used in publications available to the author by 13 March 2000. One of the most important principles has been that the repetition of existing errors in citation should be avoided by careful review of the original literature (cp. chapter 1.3.1).

Non-taxonomists commonly view a checklist or catalogue as the last word on the taxonomy of a group of organisms; however, systematics familiar with a certain taxon are fully aware that such works represent a basis for further refinement. The present catalogue of ciliates is no exception. My intent has been to provide a compilation that

would serve as "dictionary" of genus names for the professional and the layman. I have interpreted the "International Code of Zoological Nomenclature" as simply as possible, avoiding overly convoluted reasoning. Although I have tried to bring ciliate nomenclature into compliance with the Code, this catalogue is an attempt to report the state of knowledge on ciliate genera and is in no way intended to standardize or institutionalize ciliate taxonomy. Controversies and lacunae of information have been highlighted in the hope that these problem areas will receive the attention that they deserve.

At best the present compilation of the genera and subgenera of ciliates will serve several audience. For enthusiasts of microscopic organisms, this compilation may be useful in providing a guide to recent literature on ciliates. For ciliatologists, a special effort was directed toward making this catalogue accurate with regard to spelling of the scientific names, authorship, and date of publication or nomenclatural problems. Other zoological taxonomists may use the catalogue to avoid creating new genus-group names that are already used in ciliates, or to solve homonymy problems. My aim was to contribute to the stabilization of ciliatological nomenclature by opening up a channel of free communication between those concerned in the naming and classification of ciliates.

Any catalogue is out of date before it is published. The data base for this catalogue is being maintained on computer files; these files will be revised and updated so that a new up-to-date version of the list can be produced at any time in the future. I welcome your comment on errors in the present text and any reference to pertinent literature that may have been overlooked. Direct correspondence to:

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## **1.3 Methodology**

### **1.3.1 Preparation of the Catalogue**

The database for genera was built from several sources. The most useful source in preparing the catalogue was the outstanding book "Ciliated Protozoa" published by the famous protozoologist John O. CORLISS in 1979 (cp. [COR085]). More than the half of the computer records were started from this work. Index cards maintained at the reprint library of the exemplary ciliate taxonomist and ecologist Wilhelm ("Willi") FOISSNER were then incorporated. Next, all genera treated in the encyclopedic works of BÜTSCHLI (1887-1889 [LB0896]) and KAHL (1930-1935 [KAH008, KAH012, KAH014, KAH019]) were compared with information in the database, as were genera of the Zoological Record, guide to the literature of zoology published by BIOSIS, back to its beginning in 1864 and up to now (since 1978 on compac disc, here called CD-version).

Information in the database was then compared to generic treatments in monographs and large general works (e.g. SMALL & LYNN 1985 [Z06206]; PUYTORAC 1994

[LB0398]), and other sources, such as the reviews listed in chapter 1.1. As the generic records were being created, the corresponding literature was entered in a reference database. By this time, many discrepancies, errors in current literature, and potential nomenclatural problems were identified. It became obvious that the best course would be to check the original publications of the names first hand.

Nomenclatural decision in the main part of the catalogue were made on the basis of the provisions of the "International Code of Zoological Nomenclature" edited by the International Commission on Zoological Nomenclature (I.C.Z.N. 1999 [LB1077]; herein called the Code, begun with a capital C, but without reference code to save space). Its provisions came in force on 1 January 2000. The Code is difficult to use because it has many interrelated articles and subsections; at the same time it is comprehensive (cp. ESCHMEYER 1990 [LB0980: 641]). In general, only provisions of the Code that apply to genera are discussed here; articles and subsections dealing with family-group names, species-group names, or other subjects are omitted, or are included only to the extent that they affect genus-group names or the treatment of type species in the main part of the catalogue. Below the articles of the Code are frequently restated and summarized, particularly in chapters 2 and 3. Recommendations are also mentioned, although they deal with subsidiary points and do not have the force of articles. Names contrary to a recommendation cannot be rejected for this reason.

### **1.3.2 Format of the Catalogue Entries and Rationale Behind**

The main part of the catalogue consists of all genera and subgenera found in the literature, arranged alphabetically. More than 120 names excluded for various reasons from the provisions of the Code or which are no more relevant to ciliatology are treated in chapter 1.3.3 to spare the reader from a flood of names. A number of ciliate genera is based on deformed or abnormal specimens, but these names are available; they are not excluded on the basis of Article 1.3.2 because when they were proposed, the original authors did not know that they were based on malformed (teratological) specimens.

The following items are treated and appear in this regular order:

- (1) scientific generic name
- (2) author(s)
- (3) publication year
- (4) reference code
- (5) page
- (6) type species
- (7) method of type designation
- (8) text remarks.

#### **1.3.2.1 Scientific Generic Name**

Each paragraph begins with the genus-group name, which includes the category of subgenus, as first proposed. The original spelling is used except where mandatory changes were necessary, such as changing "Bütschliella" to *Buetschliella* or a justified emendation prevailed (for details see chapter 1.3.2.8, 3.2.1). As an aid to the user, various styles of print are used: Currently accepted – viz. nomenclaturally available and taxonomically valid (explained in more detail in chapter 1.3.2.8) – scientific names are printed in ***boldface italics***, whereas available, but invalid names, i.e. junior

homonyms and synonyms, are given in *italics*. For various reasons unavailable names, which have no standing in zoological nomenclature, appear in a "regular" (non-italic) style of print and quotes (cp. Rec. 51F; Code): These are (1) *nomina nuda* according to Articles 12 and 13 of the Code, which are sometimes incorrectly in current use and may be reinstated as new genus to avoid an inflation of names, therefore they are included in the alphabetical order, and (2) incorrect subsequent spellings (Arts. 33.3, 33.5; Code), which are however to be found under the correct spelling (and via the index) to avoid a confusingly overflow of names. Misspellings are included to document the high degree of casual inaccuracy and are mainly those made in nomenclators or the Zoological Record, in major treatments (such as monographs), or in references used to document the status of the genus. Thus, the list is undoubtedly far from being complete.

Subgeneric entries are also listed alphabetically. This use is one of data entry and location convenience and does not imply an elevation of the subgeneric category to generic rank.

#### **1.3.2.2 Author(s)**

The name of the authority who first made available the generic name is given in the second position of a paragraph, if necessary preceded by the name of the responsible person followed by "in" and the name of the person in whose work the generic name was published (see chapter 3.1.3). Author names are standardized to facilitate computer retrieval (for details see chapter 4.1).

Multiple authorships are always given in full if it concerns the naming of a genus, while the abbreviated style, viz. the words "et al.", is used in the text when three or more authors are involved.

Note that a justified emendation (an intentional and required change in the original spelling of a taxon) does not change the authorship; the taxon retains the original author, even though he or she may have misspelled the name. However, an unjustified emendation (an intentional change, but without a permissible reason) is equivalent to describing yet another taxon, and it takes the authorship (and date and spelling) of the author who published the unjustified emendation (Art. 50; Code). In other words: A justified emendation is credited to the original proposer of name, not to the reviser. But an unjustified emendation falls as a junior objective synonym of the original name, and it is to be considered the responsibility of the person who made it.

Unfamiliar authorships are mostly caused by strict application of the Articles 12.1, 13.1, 13.3, 50.1, and 67.4 of the Code requiring a description (or reference to one) or definition that states in words characters that are purported to differentiate the taxon and – at genus level – the fixation of a type species in the original publication. If these provisions are not fulfilled the name is an unavailable *nomen nudum*; in several cases, however, the taxon has been validated later and the taxonomic author was consequently replaced by the nomenclatural author (see chapters 3.1.3, 3.4).

#### **1.3.2.3 Year of Publication**

The year of publication of the original description is provided following the authorship. The date given is, as a rule, the date which can be found in the book or journal itself (on the title page, in the direction-line, in a survey of the dates of publication of fascicles or issues), or which can be deduced from dates to be found

within the book or journal itself (date of printing, date of censor, date of legal deposit, date of a meeting). Years in brackets are those assigned by sources not to be found in the original publication, e.g. by the I.C.Z.N.

Explanatory information in support of the choice which I have sometimes made is given as text remark in the main part or in a note to the reference, if it concerns numerous genera. Such comments are often advisable because of the numerous discrepancies in the literature with respect to the proper year of publication of works containing the first acceptable descriptions of many ciliate genera (see chapter 3.1.4).

#### 1.3.2.4 Reference Code

Each reference has an unambiguous six-figured code enclosed in square brackets (see chapter 4.1.3). The standardized form of the reference code facilitates computerized retrieval systems, handling the original literature, and the updating of classification (cp. ESCHMEYER 1990 [LB0980]).

#### 1.3.2.5 Page

Usually only one page is cited – the page on which the main generic description begins (not necessarily the page on which the genus is first mentioned). When more than one page is given, the genus may appear in a key, for example, and be followed later in the text by additional information. Pages in brackets are those assigned in an unpaginated work or in a separate in which pagination differs from that in the original publication.

#### 1.3.2.6 Type Species

A type is the "name carrier" or voucher of a scientific name. The type of a genus or subgenus is a species. The name-bearing type once fixed (established) cannot be changed except by special action of the I.C.Z.N. using plenary powers (Art. 61.1.3; Code). Note that for any genus-group name published after 1930, the author of the original publication must definitely designate a type-species (Arts. 13, 68; Code). If he does not, his new generic name is unavailable for use in zoological nomenclature, viz. a nomen nudum (see also chapter 3.1).

It has been attempted to quote a type species for each generic name treated. The original genus and spelling of the specific name (basionym) of the type species, its author(s) and date of publication are given next (Rec. 67B; Code). However, reference codes are omitted, because due to time constraints original descriptions could not be rigidly checked, moreover reference to the basionym was frequently given very fragmentary. An exception in this procedure (see version 1 below) is made, however, if the species was first published in the same paper and by the same author as that containing definition of the genus which it serves as type; in such case, the initial letter of the generic name followed by the specific name is given without repeating the name of the author and date (see version 2 below), for this saves needed space. Examples of these two sorts of citation are as follows:

- (1) *Acanthostomella* JÖRGENSEN 1927 [E00253: 4]. TS: *Amphorella norvegica* DADAY 1887.
- (2) *Acaryophrya* ANDRÉ 1915 [E00763: 102]. TS: *A. helenae*.

Mandatory corrections to species names have been made, e.g. lower case is used for the specific name regardless of how it was printed originally (Art. 34.2; Code). Correct genders of new combinations were not recognized by several authors. Thus,



quite a lot of species names must be emended according to Article 31 of the Code (for summary see chapter 3.4). Only the original and actual spellings have been corrected, i. e. subsequent generic combinations were not considered. If the mandatory changes in spelling had already be performed by other authors, the original binomen is given in parentheses beginning with "basionym". This indication is also used, when a lower level taxon has been raised to specific rank, while "for" indicates that a specific name has been created for a usually misidentified or unnamed species. If the cited type-species is a junior subjective synonym of some other species, the name of this latter is given by the phrase "now considered as synonym of..." (Art. 67.1.2, Rec. 67B; Code). Note that – according to Article 67.1.2 of the Code – the latter is not the type species of the forementioned genus and should not be cited as such (see chapter 3.1.2).

#### **1.3.2.7 Method of Type Designation**

Next is given the method by which the type species was designated (fixed). Although "type by original designation" takes precedence over other designations, a distinction is made between "original designation (& monotypy)" and "original designation"; the former insures that the likelihood of the name having a different type is remote; the latter means there was more than one originally included available species treated as valid. Other amplification is sometimes given, e.g. "Type by monotypy (also by use of *typus*)," but in these instances the use of *typus* or similar denotation is a form of indication that comes into play only when other designations do not take precedence, and when there are two or more originally included species in the taxon. When the type species is designated after the original publication, amplification is provided, such as citation of the author(s) of the subsequent designation.

Rigorous checking of typification has been undertaken in an effort to avoid errors in fact or judgement. However, it is not satisfactory in all cases, because e.g. in numerous cases the basionyms were incompletely given and typifications not explicitly stated.

The type paragraph will read "No type species fixed." in the following cases: (1) when the genus at publication did not contain any species; (2) when the original author of the generic name did not indicate one of its species as type before 1 January 1931 (Art. 13.3; Code), and I was not aware of any later typification. I rarely selected a type species, because this nomenclatural act should be restricted to genus revisions or redescrptions.

No type paragraph will be found in entries for nomenclatural objective synonyms, i.e. if two or more nominal genus-group taxa have the same type species. In the latter case, the type species is that of the senior name and reference to that name will be found in the text.

#### **1.3.2.8 Text Remarks**

Such items as action by the International Commission on Zoological Nomenclature (I.C.Z.N.), comments to the orthographic variants (cp. also chapter 3.1.1), variable gender, authorship, republication, taxonomic status, modern revisions, monographs, improved diagnoses, and redescrptions of type species are included next usually in chronological order. Some items need explanatory notes:

(1) Original and subsequent spellings of names: The original spelling is that used in the work in which the name was established (Art. 32; Code). In general, generic names are not to be considered homonyms if the difference is even as slight as only

one letter (Art. 56.2; Code), as for instance *Spathidiodes* / *Spathidioides*. Sometimes there exist multiple original spellings, i.e. an author spelled the name in more than one way in the original description, then a first reviser has selected one of the spellings as "correct", so that any other spelling is an incorrect original spelling and unavailable (Arts. 19.3, 24.2.3, 32.4; Code). The "correct original spelling" is to be preserved unaltered unless it is demonstrably incorrect (see Articles 27, 32.5; Code; chapters 3.1.1, 3.2).

The incorrect original spelling (the word as such) has no separate availability and is to be corrected, an action named mandatory change (Arts. 19.2, 19.4, 32.4, 32.5; Code). Emendations, viz. any demonstrably intentional change in the original spelling (not to be confused with an improved taxonomic characterization), require careful study; some were evaluated as to whether they were justified emendations or unjustified ones (or merely misspellings). In those not so evaluated, the expression "spelled" is used to show that the investigation was not made. Unjustified emendations are available with their own author and date (as if the later author described another new taxon), whereas incorrect subsequent spellings are unavailable (Arts. 19.1, 33.3, 33.5; Code). To complicate matters further, when an unjustified emendation is in prevailing usage and is attributed to the original author and date it is deemed to be a justified emendation (Art. 33.2.3.1; Code). In ciliates some unneeded replacement names, viz. unjustified emendations, were provided by such authors as AGASSIZ, GISTEL, BÜTSCHLI, and STAND. Their reasons were many: a name was felt to be barbarous, improperly formed, inappropriate with regard to characters of the taxon, etc. In the catalogue I usually do not give the reason (such as presumed inappropriateness) for these replacement names, referring to them as "Superfluous substitute name for" without elaboration.

English transliteration of Greek words was used in etymological notes, i.e. "stulos" instead of "stylos" or "ophrus" instead of "ophrys".

(2) Taxonomic status. Validity differs from availability in that the latter refers to the legitimacy of the name for use in zoological nomenclature, whereas validity involves taxonomic decisions on limits of taxa. Validity refers to the "rights" of a name in relation to homonym and synonyms. While an available name is one that has standing in zoological nomenclature; it may or may not be used for a valid taxon, and it will be unusable if it is a homonym or an objective synonym of a senior name.

My aim in documenting the current status of the ciliate genera was not to provide extensive synonymies, but to give one or a few recent references that can serve as an entry or source to other literature treating the taxon. Citations documenting the status include the author, date, the reference code, and page. When a page is not given, the entire article typically deals with only that taxon. When a page is given, it refers to one pertinent page in which the status of the taxon is discussed, although that taxon may be mentioned on other pages in the same article; for genera that are junior synonyms the page given usually refers to the page on which a generic synonymy occurs.

The status of some genera is not provided. Some of these taxa are probably nomina dubia, viz. names of uncertain or doubtful application, nomina oblita, i.e. forgotten names, or old synonyms not mentioned in current literature, whereas others have just not been treated recently. In some cases, the status has been obtained by looking for the placement of the type species in a current genus, even though the name in question may not be mentioned; these are qualified by the statement "Synonym of ...

based on placement of type species)." The cutoff date for status reference is essentially the 13 March 2000, with only a few later publications included.

Subgeneric status. When the name was proposed as a subgeneric one, the genus of which it was a subgenus is given. Note that when a genus is considered to contain subgenera, the subgenus that contains the type species of the nominal genus is denoted by the same name as the genus, with the same author and date (Art. 43.1; Code); this subgenus is termed the nominotypical subgenus (Art. 44; Code).

Homonym(s). The problem of homonymy arises when we have the same name for different taxa. It is eliminated by the rule of uniqueness and the principle of priority. The previously used senior homonym has priority, whereas the preoccupied junior homonym becomes invalid in most cases. However, replacement of a homonym is not the easy task it might first seem to be. To be sure that a genus name is in fact preoccupied – for example in insects – would require going to the original description of the insect name and confirming the original spelling, date, availability, and other details. Preoccupation in ciliates and fishes was verified, e.g. in ESCHMEYER (1990 [LB0980]), but names preoccupied in other groups were usually not. A thorough searching of the older literature may be required to make absolutely certain whether or not available synonyms are already in existence. Moreover, according to the "Code of Ethics" (Appendix A; Code) no replacement name should be published without notifying the preoccupied name's author (if living) about the situation, giving him ample opportunity to publish a substitute name first himself.

In cases of homonymous generic names the following four possible solutions may be considered (for details see the main part, for general discussion see CORLISS 1960 [COR036: 269]):

(1) Preservation of the junior homonym by the I.C.Z.N. (Arts. 23.9, 59; Code): Only few ciliate genera have been treated in this way, e.g. *Stentor*, *Tetrahymena* (for further candidates see chapter 3.4).

(2) Recognition of the junior homonym as a junior synonym (Art. 60.2; Code): In some cases implicating genera of ciliates the preoccupied names have fallen as junior synonyms (see chapter 3.1.1). Making a nomenclatural correction, viz. coining a replacement name, in these instances, although authorized by the Code, seems entirely unnecessary. These cases are supplemented by "If the genus is resurrected, a new name is necessary".

(3) Use of a junior synonym as the replacement name (Art. 60.2; Code): If the junior homonym has an available junior synonym then it is used, and a new replacement name is unnecessary, frequently resulting in the note "Superfluous substitute name".

(4) Creation of a new name for the preoccupied name (Art. 60.3; Code): Substitute names according to the "Code of Ethics" are ascribed to the corresponding authority. In several instances workers concerned did not answer the correspondence, then I renamed the genera in their behalf. The type and all other contained species are newly combined (Art. 67.8; Code; see chapter 3.4, Appendix 1).

Synonym(s). The problem of synonymy arises when we have two names for the same taxon; it is addressed by the rules of typifications, which tie a physical instance (via the type specimen) of a concept to a name. Synonymy is resolved by logic of circumscription and the convention of priority or usage. The Code uses the term objective synonym for nomenclatural synonym and the term subjective synonym for

taxonomic synonym. Objective synonyms are indicated by accompanying designation "objective", others being understood to constitute subjective synonyms. It is easier to remember that "objective" ones are automatic, because they refer to the same type species, and subjective ones involve the discretion of a later worker and is never definitive, thus the former are unambiguous synonyms, whereas the latter, ambiguous synonyms can refer to more than one taxon. These are mainly misapplied names and pro-parte synonyms: A misapplied name is where someone has used the wrong name for an organism, perhaps because they have mis-identified it. Like homonyms, misapplied names have different authorities, the correct name keeps the original authority, whilst the misapplied name carries the name of the person who misused it indicated by accompanying designation "sensu", which means in the sense of. Pro-parte synonyms arise when one taxon is split into two or more taxa, they are indicated by "partim". To save space references are cited once, i.e. supplemented to the invalid genus following the phrase "Synonym of...", while they are omitted under the valid name, where the "Synonym(s): ..." are only listed.

Modern treatments. References concerning improved diagnoses, taxonomic or ecological monographs, revisions, key to species, and redescription of type species are cited as guide to the literature.

### 1.3.2.9 Abbreviations

aqu.	aquatic
Art(s).	Article(s)
Code	International Code of Zoological Nomenclature" in its fourth edition (I.C.Z.N. 1999 [LB1077])
ed(s).	editor(s), edition
f.	feminine
foss.	fossil
Hab.	habitat
m.	masculine
n.	neuter
No.	number
nom. corr.	corrected name (nomen correctum)
nom. nov.	new replacement name (nomen novum)
p.	page
Pl.	Plate(s)
Qual.	quality
Rec.	Recommendation
I.C.Z.N.	International Commission on Zoological Nomenclature
[sic]	so, thus; used parenthetically to indicate authenticity
ymb.	symbiotic
terr.	terricolous, soil-dwelling
TS	type species
ZR	Zoological Record

### 1.3.3 Names Excluded from the Main Part

#### 1.3.3.1 Vernacular Names

About 40 names created by writers of the eighteenth century are included in the synonymies of EHRENBERG and BÜTSCHLI and even to a very small extent in the

nomina oblita list by CORLISS (1979 [COR085: 208]), but now have to be considered as vernacular names, which have no standing in zoological nomenclature (Arts. 1.3.5, 12.3; Rec. 11A; Code). Thus, they are not followed in detail and excluded from the main part of the catalogue, however, they can be traced by the index (Appendix 5.3). The authors of these so-called "denied names" (nomina negata), mainly not latinized German and French words (some of them even pre-date the zoological starting-point 1758), are listed in chronological order: JOBLOT (1718 [PR1112]) – Aveugles, Chausson, Cornemuse, Massue, Ovaes, Rognons, Signes, Spheroides; KÄSTNER (1748 [E01026]) – Strausspolyp; SCHÄFFER (1754 [E00704]) – Büschelpolyp, Polypenlaus (also written as plural Polypenläuse), Glockenpolyp; RÖSEL von ROSENHOF (1755 [E00673]) – Afterpolyp (also written Affterpolyp); CORTI (1774 [E00718]) – Spinosi; GOEZE (1774 [E00712]) – Sichelthier; SPALLANZANI (1776 [E00715]) – Campanelle; GLEICHEN [RUSSWURM] (1778 [E00716]) – Glockenthierchen, Ovalthierchen, Pantoffelthierchen, Pendeloquenthierchen; SCHRANK (1780 [PR1082]) – Schleuderthier; EICHHORN (1781 [E00713], 1781 [PR1166]) – Baum, Birnpolyp, Mauerseege, Ochsenkopf, Trompetenthier, Wasserbohr, Wasserkatze, Wasserschwanz; GLEICHEN (1781 [E00717]) – Bohnenthierchen, Netzthierchen; GOEZE (1782 [E00720], 1787 [LB0989]) – Bouteille (also written as plural Bouteillen), Flimmerquadrat, Flimmerwalze, Flimmerthier, Kribelkugeln, Pantoffeln; CAVOLINI (1785 [E00721]) – Conferva.

### 1.3.3.2 Non-Ciliate Generic Vehicles

A number of non-ciliate generic vehicles can be found as pro-parte synonyms of ciliate genera, mainly in the synonymies of EHRENBERG and BÜTSCHLI, but no longer in the generic treatment of CORLISS. Of course, this list will considerably increase if all ciliate species would have been included:

- Amiba*, a naked amoeba / *Amphileptus*, *Dileptus*, *Colpoda*, *Trachelius*, *Trachelocerca* (e.g. EHRENBERG 1838 [EHR010: 289, 321, 342, 355]; BÜTSCHLI 1889 [LB0896: 1707]).
- Anastatica*, now Brassicaceae / *Carchesium* (e.g. EHRENBERG 1838 [EHR010: 277]).
- Anthophysis*, a flagellate / *Epistylis* (e.g. EHRENBERG 1838 [EHR010: 284]).
- Brachionus*, a rotifer / *Epistylis*, *Lacrymaria*, *Opercularia*, *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 281, 287]; BÜTSCHLI 1889 [LB0896: 1683, 1763]).
- Chaos*, a naked amoeba / *Bursaria*, *Nyctotherus* (e.g. EHRENBERG 1838 [EHR010: 328]).
- Cercaria* / *Coleps*, *Urocetrum* (e.g. EHRENBERG 1838 [EHR010: 268, 317] – Although listed as nomen oblitum in CORLISS (1979 [COR085: 208]), this name now only refers to trematode larvae.
- Coccochloris*, an algae / *Ophrydium versatile* (e.g. EHRENBERG 1838 [EHR010: 293]; BÜTSCHLI 1889 [LB0896: 1768]).
- Colurella*, a rotifer / *Dysteria* (e.g. TURNER 1995 [E01950]).
- Conochilus arboreus*, a rotifer / *Epistylis (Indosphaera)* (this paper)
- Corallina*, a cnidarian / *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 269]).
- Ecrinus* / *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 269]).
- Fucus*, a seaweed / *Ophrydium* (e.g. EHRENBERG 1838 [EHR010: 293], BÜTSCHLI 1889 [LB0896: 1768]).
- Gyges*, an algae / *Cyclidium*, *Enchelys*, *Paramecium*, *Bursaria* (e.g. EHRENBERG 1838 [EHR010: 53]).
- Hirudo*, a leech / *Bursaria*, *Opalina* (e.g. EHRENBERG 1838 [EHR010: 327]; BÜTSCHLI 1889 [LB0896: 1718]).
- Hydra*, a cnidarian / *Epistylis*, *Opercularia*, *Stentor*, *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 262, 270, 281, 283, 287]; BÜTSCHLI 1889 [LB0896: 1728, 1763, 1766, 1767]).

*Isis*, a cnidarian / *Carchesium* (e.g. EHRENBERG 1838 [EHR010: 278]; BÜTSCHLI 1889 [LB0896: 1764]).

*Limnias*, a rotifer / *Cothurnia* (e.g. EHRENBERG 1838 [EHR010: 296]).

*Linckia*, an algae / *Ophrydium* (e.g. EHRENBERG 1838 [EHR010: 293]; BÜTSCHLI 1889 [LB0896: 1768]).

*Monas*, an algae / *Glaucoma*, *Paramecium* (e.g. EHRENBERG 1838 [EHR010: 335, 353]).

*Pennatula*, a cnidarian / *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 269]).

*Polypus*, a naked amoeba / *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 274]).

*Proteus*, a cnidarian / *Lacrymaria* (e.g. EHRENBERG 1838 [EHR010: 309]; BÜTSCHLI 1889 [LB0896: 1683]).

*Rotifer*, a rotifer / *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 269]).

*Scelasius* / *Oxytricha*, *Paramecium* (e.g. EHRENBERG 1838 [EHR010: 364, 370]).

*Tremella*, a filamentous fungi / *Ophrydium* (e.g. EHRENBERG 1838 [EHR010: 293]; BÜTSCHLI 1889 [LB0896: 1768]).

*Ulva*, an algae / *Ophrydium* (e.g. EHRENBERG 1838 [EHR010: 293]; BÜTSCHLI 1889 [LB0896: 1768]).

*Umbellularia*, a cnidarian / *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 269]).

*Volvox*, a phytomastigophorean / *Chilodon*, *Colpoda*, *Cyclidium*, *Epistylis*, *Glaucoma*, *Oxytricha*, *Paramecium*, *Trichodina* (e.g. EHRENBERG 1838 [EHR010: 245, 266, 283, 335, 336, 347, 350, 372]).

*Vibrio*, a nematode / *Enchelys*, *Lacrymaria*, *Trachelius* (e.g. EHRENBERG 1838 [EHR010: 300, 323]; BÜTSCHLI 1889 [LB0896: 1683]).

### 1.3.3.3 Taxa Formerly Considered as Ciliates

The opalinid genera *Cepedea*, *Opalina* and *Zelleriella* were dropped from the Ciliophora and are now considered as sarcomastigophoreans (cp. CORLISS 1961 [COR113: 115]). Likewise dropped were some hypermastiginids, such as *Lophomonas* and *Trichonympha*, which are treated as ciliates in SCHULZE et al. (1954 [LB0603: 3535]).

### 1.3.3.4 Incorrectly Classified Generic Names

The following generic names have been incorrectly classified as "†Prot. (Cil.)" in the seventh volume of the Nomenclator Zoologicus (cp. EDWARDS & VEVEVS 1975 [LB0757]): *Aiora*, *Antrosphaera*, *Ceratolithoides*, *Chiphragmalithus*, *Cirrifera*, *Coronopsis*, *Cylindralithus*, *Cymatiogalea*, *Deunffia*, *Diornatosphaera*, *Domasia*, *Duvernaysphaera*, *Earlachitina*, *Ellipsoidictyum*, *Epiplosphaera*, *Eremochitina*, *Fasciculithus*, *Gillina*, *Halophorida*, *Helios*, *Hexagonifera*, *Horologinella*, *Hystrichosphaerina*, *Hystrichostrogylon*, *Lecaniella*, *Mathurosphaera*, *Membranophoridium*, *Microcalamoides*, *Multiplicisphaeridium*, *Ollula*, *Palambages*, *Platycystidia*, *Polyplanifer*, *Polystephanephorus*, *Polystephanosphaera*, *Quadraditum*, *Rhombaster*, *Rhombodella*, *Schizocystia*, *Sol*, *Sphaerita*, *Stephanelytron*, *Systematophora*, *Taeniophora*, *Thalassiphora*, *Toologia*, *Triangulina*, *Trigonopyxis*, *Urochitina*, *Xenicodinium*, *Xenikoon*. *Enophrys* and *Hexagrammos*, fish hosts of pertrichids, are incorrectly listed as Ciliophora in the Zoological Record (CD-version).

## 2. Genera of Recent and Fossil Ciliates

### A

- Abathostoma* BERGER 1994 [E01578: 279]. TS: *Cyclidium stercoris* POWERS 1935 by original designation. Neuter gender according to Article 30.1.2 of the Code. First mentioned by BERGER in CORLISS (1979 [COR085: 265]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Validated by BERGER (1994 [E01578: 279]) as subgenus of *Cyclidium*. However, same type species as *Echinocyclidium* JANKOWSKI 1980, thus it is a junior objective synonym (Art. 61.3.3; Code).
- Acanthodiophrya* PUYTORAC & DRAGESCO 1969 [CI1234: 5]. TS: *A. almae* by original designation (& monotypy). First mentioned in an unpublished abstract by PUYTORAC & DRAGESCO (1968 [E00609: 42]), thus unavailable (Arts. 9.9, 13.1 Code). Fully characterized one year later (see above). Revision: PUYTORAC (1972 [CI1224: 25]).
- Acanthophrya* HEIDENREICH 1935 [Z06236: 354]. TS: *Ophryoglena inermis* STEIN 1859 by monotypy. Revision: PUYTORAC (1972 [CI1224: 33]).
- Acanthostomella* JÖRGENSEN 1927 [Z06300: 13]. TS: *Amphorella norvegica* DADAY 1887 by monotypy. Misspelled "Aranthostomella" and "Acantostomella" in GAJEWSKAJA (1948 [E01198: 33, 26]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 191]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).
- Acarella* COHN 1866 [CI1419: 293]. TS: *A. siro* by monotypy. Synonym of *Mesodinium* (e.g. BÜTSCHLI 1889 [LB0896: 1688]; CORLISS 1961 [COR113: 124]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Acaryophrya* ANDRÉ 1915 [E00763: 103]. TS: *A. helenae* by monotypy. Erroneously considered as synonym of *Balanophrya* by KAHL (1930 [KAH008: 54]), because it is the junior name. Synonym: *Balanophrya*.
- Achlys* GISTEL 1848 [E00998: 186]. According to SHERBORN (1902 [LB0599: 35]) an unjustified emendation of *Trichoda* MUELLER 1773. Not used by later authors (e.g. BÜTSCHLI 1889 [LB0896]; CORLISS 1979 [COR085]).
- Acidophorus* STEIN 1859 [CI1394: 59]. TS: *Nassula ornata* EHRENBERG 1833 by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "phoros" (bearer) is masculine, viz. *A. ornatus* nom. corr. Synonym of *Nassula* (e.g. KENT 1881 [E00073: 494]; BÜTSCHLI 1889 [LB0896: 1694]; CORLISS 1961 [COR113: 128]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Acineria* DUJARDIN 1841 [CI1202: 402]. TS: *A. incurvata* by subsequent designation by AUGUSTIN et al. (1987 [FOI166: 199]). First mentioned by DUJARDIN (1840 [E00054: 285]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). In 1841 he gave a rather vague diagnosis of the genus and of two species (AUGUSTIN et al. 1987 [FOI166: 198]). Revision: AUGUSTIN et al. (1987 [FOI166: 198]), including redescription of type species. Key to marine species: CAREY (1992 [LB0008: 65]). Taxonomic and ecological monographs of type species including redescription: FOISSNER et al. 1995 [FOI340: 343]).
- Acineta* EHRENBERG [1834] [EHR003: 284]; note different pagination in the separate [EHR081: 140]. TS: *A. tuberosa* by subsequent designation by COLLIN (1912 [E01049: 336]; cp. I.C.Z.N. 1994 [CI1522: 268]). Other possible basionyms, viz. *Brachionus tuberosus* PALLAS 1766 and *Vorticella tuberosa* sensu MÜLLER 1786, were suppressed for the purposes of the principle of priority but not for those of the principle of

- homonymy (cp. I.C.Z.N. 1994 [CI1522: 268]). Initiated by APSTEIN (1915 [Z06263: 122]) and later pursued by DOVGAL & STAROBOGATOV (1993 [E00018: 103]), the genus name was placed on the "Official List of Generic Names in Zoology" and the date fixed to [1834] by the I.C.Z.N. (1994 [CI1522: 268], no name number given). Genus and type species often misdated with "1833" (e.g. BHATIA 1936 [CI1030: 428]; SCHULZE et al. 1926 [LB0603: 30]; CURDS 1985 [E00982: 77]; MATTHES 1988 [LB0005: 66]) or "[1834] 1833 (1835)" in NEAVE (1939 [LB0751: 33]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Synonyms: *Acinetella*, *Alderia*, *Canellana*, *Plicophrya* (for *Donsia* JANKOWSKI non HADŽI), *Tomodiscophrya*. Improved diagnoses and revisions: CURDS (1985 [E00982: 77], [E01045: 164]). Key to species: MATTHES (1988 [LB0005: 66]).
- Acinetactis* STOKES 1886 [E00788: 567]. TS: *A. mirabilis* by monotypy. Not recorded in CORLISS (1979 [COR085]) and not in current use, thus possibly a nomen oblitum.
- Acinetella* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta pappilifera* KEPPEL 1888 by original designation (& monotypy); incomplete reference to basionym. Synonym of *Acineta* (e.g. CURDS 1985 [E00982: 101]).
- Acinetides* SWARCZEWSKY 1928 [E00806: 397]. TS: *A. varians* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Improved diagnosis, revision, and key to species: CURDS (1985 [E00982: 109]).
- Acinetoides* PLATE 1889 [E00773: 135]. No type species fixed. Masculine gender according to Article 30.1.4.4 of the Code. Synonym of *Hypocoma* (e.g. CORLISS 1961 [COR113: 152]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Acinetopsis* ROBIN 1879 [E00318: 537]. TS: *A. rara* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Electron microscopy of type species: GRELL & MEISTER (1982 [E02096: 67], [E02097: 403]).
- "Acoelophthirus". TS: "A. acronifer" by original designation. No description or figures in JANKOWSKI (1981 [CI1416: 97]), thus a nomen nudum (Art. 13.1; Code).
- Acomia* DUJARDIN 1841 [CI1202: 382]. TS: *A. vitrea* by subsequent designation by CORLISS & DOUGHERTY (1967 [COR196: 161]), an unrecognizable species, thus the genus became a nomen dubium. Nomenclatural history: CORLISS & DOUGHERTY (1967 [COR196: 158ff.]). This genus was first mentioned for the time by DUJARDIN (1840 [E00054: 285]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). In 1841 he included seven species none designating as type. Synonym of *Uronema* (e.g. KENT 1881 [E00073: 546]); *Glaucoma* (e.g. BÜTSCHLI 1889 [LB0896: 1702]); *Cyclidium* (e.g. BÜTSCHLI 1889 [LB0896: 1713]). Nomen oblitum in DIESING (1866 [CI1490: 537]) and CORLISS (1979 [COR085: 208]).
- Acropisthium* PERTY 1852 [E00084: 149]. TS: *A. mutabile* by monotypy. Nomen oblitum in DIESING (1866 [CI1490: 538]). Synonyms: *Dinophrya*, *Siagonophorus*. Treated as valid, including a description of the type species by BOHATIER & DETCHEVA (1973 [E02192: 972]) and FOISSNER (1979 [FOI053: 419]; 1984 [FOI110: 60]).
- "Actinia". Printed in italics in LWOFF (1950 [LB0686: 55]), probably par lapsus, because the taxon is not designated as new or treated as species. Not recorded in CORLISS (1979 [COR085]).
- Actinichona* JANKOWSKI 1973 [AEB543: 292]. TS: *A. gaucho* by original designation.
- Actinobolina* STRAND 1928 [CI1594: 30]. TS: *Actinobolus radians* STEIN 1867 by monotypy. Substitute name of the preoccupied *Actinobolus*. Misdated with "1926" in KAHL (1930 [KAH008: 138]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1995 [FOI340: 243], 1999 [FOI450: 112]); according to these authors redescription of all species necessary.



- Actinobolus* STEIN 1867 [PR1075: 169]. Homonym of *A.* WESTWOOD 1841, coleopteran insect. Objective synonym of *Actinobolina* STRAND 1928.
- Actinobranchium* JANKOWSKI 1967 [CI1568: 35]. TS: *Trichophrya salparum* ENTZ 1884 by original designation (& monotypy).
- Actinocyathula* CORLISS 1960 [COR036: 273]. TS: *Actinocyathus cidaris* KENT 1882 by original designation (& monotypy). Substitute name of the preoccupied *Actinocyathus*. Synonym: *Faltacineta*. Improved diagnosis and key to species: CURDS (1987 [E02043: 72]).
- Actinocyathus* KENT 1882 [E00074: 848]. Homonym of *A.* D'ORBIGNY 1849, coelenterate. Objective synonym of *Actinocyathula* CORLISS 1960.
- Actinorhabdos* FOISSNER 1984 [FOI110: 47]. TS: *A. trichocystiferrus* by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "rhabdos" (rod) is feminine, viz. *A. trichocystifera* nom. corr. (according to Dr. GEISER a single "r" is correct).
- Actinotricha* COHN 1866 [CI1419: 283]. TS: *A. saltans* by original designation (& monotypy). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 49]). Synonym of *Oxytricha* (e.g. BERGER 1999 [LB1083: 115]).
- Acyclochaeta* ZICK 1928 [E00357: 398]. TS: *Trichodina steinii* CLAPARÈDE & LACHMANN 1858 by monotypy. Synonym of *Trichodina* (e.g. GUHL & HAIDER 1988 [LB0344: 258]; BASSON & VAN AS 1989 [CI1118: 158]).
- Aduncuperistomatus* AMARO & SENA 1967 [E01046: 138]. TS: *A. tejeraei* by original designation.
- Aegyria* CLAPARÈDE & LACHMANN 1859 [E00118: 287]. TS: *A. oliva* by subsequent designation by FROMENTEL (1875 [E00689: 171]). Misspelled "Ægyra" in FROMENTEL (1876 [E00689: 350]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 27, 33.3, 33.5; Code). Ascribed to "EHRENBERG 1838" in CAREY (1992 [LB0008: 123]). Objective synonym: *Aegyriana*. Synonyms: *Ervilia*, *Glenotrochilia*. Synonym of *Dysteria* (e.g. BÜTSCHLI 1889 [LB0896: 1700]; KAHL 1931 [KAH012: 250]; CORLISS 1979 [COR085: 229]) or *Hartmannula* (e.g. DEROUX & DRAGESCO 1968 [CI1228: 379]).
- Aegyriana* DEROUX 1975 [E00179: 389]. TS: *Aegyria oliva* CLAPARÈDE & LACHMANN 1859 by original designation. Unnecessary substitute name of *Aegyria*, because it falls as synonym of *Dysteria* (Art. 60.2; Code).
- Afrothrix* FOISSNER 1999 [FOI430: 376]. TS: *A. darbyshirei* by original designation (& monotypy).
- "Agigea". TS: "A. enigmatica" by monotypy. Figured but not described verbally in LEPSI (1965 [AEB618: 836]), thus a nomen nudum (Art. 13.1.1; Code).
- Aglenophrya* DIESING 1866 [CI1490: 517]. TS: *A. steinii* (for *Ophryoglena coeca* STEIN 1860) by monotypy. Introduced without species one month before a species was included and the genus name established once again by the same author (cp. [CI1511: 86]). Synonym of *Frontonia* (e.g. BÜTSCHLI 1889 [LB0896: 1703]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Agnathodysteria* DEROUX 1976 [E00181: 533]. TS: *A. littoralis* by monotypy.
- Akidodes* LOM nov. gen. TS: "Akidodes" *symmetricus* LOM 1959 by original designation. Described by LOM (1959 [CI1225: 475]) without designating a type species, thus a nomen nudum (Art. 13.3; Code). Validated herein according to the correspondence with the original author, thus correct authorship is to be cited as "LOM in AESCHT 2001". Gender: masculine (Art. 30.1.4.4; Code). Revision: PUYTORAC (1972 [CI1224: 15]).
- Alastor* PERTY 1852 [E00084: 155]. TS: *Kerona polyporum* EHRENBERG 1835 by monotypy; incomplete reference to basionym, now considered as synonym of *K. pediculus* (e.g.

- FOISSNER 1987 [FOI173: 225]). Homonym of *Alastor* LEPELETIER 1841, hymenopteran insect (cp. MELVILLE & SMITH 1987 [EV0797: 42], Opinion 893). Misspelled "Alaster" in BORROR (1972 [CI1191: 9]) and HEMBERGER & WILBERT (1982 [CI1195: 262]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Kerona* (e.g. CLAPARÈDE & LACHMANN 1858 [E00117: 72]; BÜTSCHLI 1889 [LB0896: 1742]). Considered as valid without new data by JANKOWSKI (1978 [CI1413: 40]). Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188: 49]; dated "1952"). Cited as "Generic name (urostyloid) no longer in use" by BORROR (1979 [CI1073: 549]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Albaretia** AFFA'A nov. gen. TS: "*Albaretia terroni* AFFA'A 1986 by original designation. Described by AFFA'A (1986 [CI1643: 222]) without designating a type species, thus a nomen nudum (Art. 13.3; Code). Validated herein according to the correspondence with AFFA'A, thus correct authorship is to be cited as "AFFA'A in AESCHT 2001". Gender: feminine.
- Albatrossiella** KOFOID & CAMPBELL 1929 [CI1434: 318]. TS: *Undella filigera* LAACKMANN 1910 by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).
- Alderia** PRITCHARD 1841 [E00676: 177]. No type species fixed. Synonym of *Acineta* partim and *Ephelota* partim (cp. BÜTSCHLI 1889 [LB0896: 1927, 1929]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Junior homonym in molluscs.
- Alexandria** OBOLKINA 1995 [CI1537: 6]. Homonym of *A.* PFEFFER 1881, echinoderm and *A.* TOMLIN 1926, mollusc. Objective synonym of *Kotinia* OBOLKINA nom. nov.
- "Alexandrina". Not made available by HADŽI (1938 [CI1546: 8]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Listed as synonym of "Folliculinopsis" by CORLISS (1979 [COR085: 299]), likewise not available.
- Alinostoma** JANKOWSKI 1980 [CI1013: 118]. TS: *Chilodonella plurivacuolata* DEROUX & DRAGESCO 1968 by original designation (& monotypy), now considered as synonym of *Pseudochilodonopsis piscatoris* (cp. FOISSNER 1979 [FOI047: 126]). Neuter gender according to Article 30.1.2 of the Code. Incorrectly ascribed to "JANKOWSKI, n. gen." in SMALL & LYNN (1985 [Z06206: 420, 481]). Synonym of *Pseudochilodonopsis* (e.g. FOISSNER 1979 [FOI047: 126], 1987 [FOI173: 221]) by placement of the type species.
- Allantosoma** GASSOVSKY 1919 [E00880: 36]. TS: *A. intestinalis* by monotypy. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary, viz. *A. intestinale* nom. corr. Key to species: VAN HOVEN et al. (1998 [Z06372: 122]; spelled *A. intestinalis*).
- Allantoxena** JANKOWSKI 1978 [CI1415: 495]. TS: *Allantosoma biseriale* STRELKOW 1939 by original designation (& monotypy); incomplete reference to basionym.
- Alloiozona** HSIUNG 1930 [E00068: 35]. TS: *A. triozone* by monotypy.
- Allomeron** JANKOWSKI 1967 [E00886: 725]. TS: *Epistylis helicostylum* VÁVRA 1962 by original designation (& monotypy). Also described in an unpublished work in the same year (cp. [CI1569: 36]). Synonym of *Epistylis* (e.g. CORLISS 1979 [COR085: 274]).
- Allosphaerium** KIDDER & SUMMERS 1935 [E00260: 52]. TS: *A. convexa* by original designation. Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "sphaerium" (ball, globe, sphere) is neuter, viz. *A. convexum* nom. corr.
- Allotricha** STERKI 1878 [CI1070: 57]. TS: *A. mollis* by monotypy. Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188: 50]). Often considered as subgenus or synonym of *Pleurotricha* (e.g. JANKOWSKI 1979 [CI1188: 62]; BERGER &

- FOISSNER 1997 [FOI445: 149]). Revision, including resurrection as genus and redescription of type species: BERGER (1999 [LB1083: 261]).
- Almophrya* PUYTORAC & DRAGESCO 1969 [E00368: 264]. TS: *A. almae* by monotypy. Misdated with "1968" in PUYTORAC (1994 [Z06337: 780]).
- Alyscum* DUJARDIN 1841 [CI1202: 391]. TS: *A. saltans* by monotypy. This genus was mentioned for the first time by DUJARDIN (1840 [E00054: 285]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). Synonym of *Cyclidium* (e.g. CLAPARÈDE & LACHMANN 1859 [E00118: 272]; BÜTSCHLI 1889 [LB0896: 1713]). Nomen oblitum in DIESING (1866 [CI1490: 537]) and CORLISS (1979 [COR085: 208]).
- Ambiphrya* RAABE 1952 [BM1072: 339]. TS: *A. miri* by monotypy. Key to species: BANINA et al. (1984 [AEB550: 283]).
- Amieta* NGASSAM & GRAIN 1998 [E02217: 74]. TS: *A. prolifera* by original designation. First mentioned by NGASSAM in PUYTORAC (1994 [Z06298: 744, 739]) as "Amietia", probably par lapsus, also spelled *Amieta* on page 740 and cited as "NGASSAM inédit", possibly referring to his unpublished doctoral thesis (cp. 1983 [E02229]); unavailable due to Article 13.1 of the Code. The misspelling would be a homonym of *Amietia* DUBOIS 1986, amphibian.
- Amoebapium* BANINA in BANINA et al. 1984 [AEB550: 303]. TS: *Scyphidia amoebae* GRENFELL 1887 by original designation. Established as subgenus of *Apiosoma*.
- Amphacanthus* DOGIEL 1926 [E00394: 242]. Established as subgenus of *Entodinium*. Homonym of *Amphacanthus* BLOCH & SCHNEIDER 1801, fish. Objective synonym of *Campylodinium* JANKOWSKI 1975.
- Amphibothrella* GRANDORI & GRANDORI 1934 [BM0390: 17]; reprint separately paginated; paper also printed in 1935 (cp. [E00759: 78]). TS: *A. enigmatica* by monotypy. Incorrectly ascribed to "GRANDORI 1934" in NEAVE (1939 [LB0751: 153]).
- Amphileptiscus* SONG & BRADBURY 1998 [CI1704: 161]. TS: *A. shii* by original designation (& monotypy). Not recorded in the Zoological Record (CD-version).
- Amphileptus* EHRENBERG 1830 [EHR001: 43]. TS: *A. cygnus* by subsequent designation by FROMENTEL (1875 [E00689: 176]). Misdated with "1838" in SONG (1991 [CI1175: 301]). APSTEIN (1915 [Z06263: 122]) proposed the genus as nomen conservandum. Ascribed to "CLAPARÈDE & LACHMANN 1859" in BHATIA (1936 [CI1030: 106]). Improved diagnosis: FOISSNER (1984 [FOI109: 204]). Key to marine species: CAREY (1992 [LB0008: 65]). According to FOISSNER et al. (1995 [FOI340: 276]) difficult nomenclature and taxonomy of the species, thus detailed revision necessary. Synonym: *Hemiophrys*.
- Amphisia* STERKI 1878 [CI1070: 57]. TS: *A. multisetata* by subsequent designation by JANKOWSKI (1979 [CI1188: 50]; not explicitly mentioned). Synonym of *Holosticha* (e.g. KAHL 1932 [KAH014: 570]; CORLISS 1979 [COR085: 309]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]).
- Amphisiella* GOURRET & ROESER 1888 [E00330: 180]. TS: *A. marioni* by monotypy. Synonym: *Tetrastyla* (e.g. CORLISS 1961 [COR113: 169]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]). Key to marine species: CAREY (1992 [LB0008: 178]). Improved diagnoses: FOISSNER (1988 [FOI194: 112]); VOB (1992 [CI3051: 413]); EIGNER & FOISSNER (1994 [FOI306: 255]); PETZ & FOISSNER (1996 [FOI395: 277]).
- Amphisiellides* FOISSNER 1988 [FOI194: 120]. TS: *A. atypicus* (basonym *Uroleptoides atypica* HEMBERGER 1985) by original designation (& monotypy). Improved diagnoses: EIGNER & FOISSNER (1994 [FOI306: 255]); PETZ & FOISSNER (1996 [FOI395: 277]).
- Amphorella* DADAY 1887 [E00166: 533]. Homonym of *A. LOWE* 1852, mollusc. Objective synonym of *Amphorides* STRAND 1928. This was overlooked in the revision of KOFOID &

- CAMPBELL (1929 [CI1434: 191]); moreover they incorrectly stated *A. quadrilinet* as type species (Art. 69.1; Code).
- Amphorellina*** COLOM 1948 [E00161: 249]. TS: *A. subacuta* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).
- Amphorellopsis*** KOFOID & CAMPBELL 1929 [CI1434: 314]. TS: *Amphorella acuta* SCHMIDT 1901 by original designation. Feminine gender according to Article 30.1.2 of the Code.
- Amphorides*** STRAND 1928 [CI1594: 30]. TS: *Tintinnus amphora* CLAPARÈDE & LACHMANN 1858 by subsequent designation by BRANDT (1907 [E00188: 14]). Feminine gender according to Article 30.1.4.4 of the Code. Substitute name of the preoccupied *Amphorella* DADAY 1887. Misdated with "1926" in LOEBLICH & TAPPAN (1968 [CI1533: 185]) and LAVAL-PEUTO (1994 [Z06313: 213]) and "1929" in SMALL & LYNN (1985 [Z06206: 418]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]). Key to marine species: YOO & KIM (1990 [E02095: 107]).
- Amplectella*** KOFOID & CAMPBELL 1929 [CI1434: 251]. TS: *Undella collaria* BRANDT 1906 by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]); they incorrectly cited *Amphorella acuta* SCHMIDT 1901 as type species (Art. 69.1; Code).
- Amplectellopsis*** KOFOID & CAMPBELL 1929 [CI1434: 255]. TS: *A. biedermani* by original designation. Feminine gender according to Article 30.1.2 of the Code. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).
- Ampullacula*** HSIUNG 1930 [PR1089: 379]. TS: *Paraisotricha ampulla* FIORENTINI 1890 by original designation (& monotypy).
- "Ampullaster". TS: *Pyxidium stammeri* LUST 1950 by original designation. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]), thus unavailable. If available, it would be the senior objective synonym of *Orbopyxidiella*.
- Ampullofolliculina*** HADŽI 1951 [E00001: 143]. TS: *A. lageniformis* by monotypy.
- Amylophorus*** PEREIRA & ALMEIDA 1942 [E00602: 261]. TS: *A. rochalimai* (for *Balantidium* sp. BUISSON 1923) by original designation (& monotypy).
- Anacharon*** ITO & IMAI 2000 [Z04569: 75]). TS: *A. gracilis* by original designation.
- Anarma*** JANKOWSKI 1981 [CI1416: 111]. TS: "Anarma" *multiruga* GOODRICH & JAHN 1943 by original designation; not explicitly stated. Name not made available by GOODRICH & JAHN (1943 [E00230: 245]) since no type species was designated (Art. 13.3; Code). Synonym of *Discophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 126]).
- Ancistrella*** CHEISSIN 1931 [BM0216: 297]. TS: *A. choanomphali* by monotypy. First mentioned by CHEISSIN (1930 [E01106: 660]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Revision: RAABE (1970 [Z06217: 150]); genus and type species misdated with "1930-1931").
- Ancistrina*** CHEISSIN 1931 [BM0216: 295]; also spelled "Ancistsina" on page 285, probably par lapsus. First mentioned by CHEISSIN (1930 [E01106: 660]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Homonym of *A. GOEDE* 1927, lepidopteran insect. Objective synonym of *Ancistrumina* RAABE 1959.
- Ancistrocoma*** CHATTON & LWOFF 1926 [E00807: 350]. TS: *A. pelseneri* by subsequent designation by RAABE (1970 [Z06218: 398]). Synonyms: *Holocoma*, *Parachaenia*, *Syringopharynx*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Revision and improved diagnosis: RAABE (1970 [Z06218: 397]).
- Ancistrospira*** CHATTON & LWOFF 1926 [E00807: 348]. TS: *A. veneris* by monotypy. Improved diagnosis: RAABE (1970 [Z06217: 166]).

- Ancistrum** MAUPAS 1883 [E00082: 476]. TS: *Opalina mytili* QUENNERSTEDT 1867 by subsequent designation by RAABE (1970 [Z06217: 142]). Misspelled "Ancystrum" in POCHE (1913 [PR1084: 255]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Objective synonym: *Ancistruma*. Synonym: *Eupoterion*. Revision: RAABE (1970 [Z06217: 141]).
- Ancistruma** STRAND 1928 [CI1594: 30]. Misdated with "1926" in KAHL (1931 [KAH012: 392]) and RAABE (1970 [Z06217: 141]). Unnecessary substitution for the perfectly legitimate name *Ancistrum* MAUPAS 1883, thus an unjustified emendation and an objective synonym (Art. 33.2.3; Code).
- Ancistrumina** RAABE 1959 [BM1074: 227]. TS: *Ancistrina ovata* CHEISSIN 1931 by original designation. Substitute name of the preoccupied *Ancistrina*. Revision: RAABE (1970 [Z06217: 129]); type species misdated with "1930-1931" on page 130, but "1931" in the species heading on page 132).
- Ancystropodium** FAURÉ-FREMIET 1907 [E01102: 377]. TS: *A. maupasi* by monotypy. Described again as new and more completely in 1908 (cp. [CI1457: 121]), without citing the earlier paper. The work of 1908 is the single reference recorded in SCHULTZE et al. (1926 [LB0603]) and NEAVE 1939 [LB0751: 190]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]). Detailed redescription necessary (cp. BERGER & FOISSNER 1997 [FOI445: 127]; BERGER 1999 [LB1083: 777], dated with "1909").
- Andreula** KAHL 1934 [KAH017: 155]. TS: *Conchophthirus antedonis* ANDRÉ 1910 by monotypy.
- "Anemadesma". TS: *Aegyriana minuta* DEROUX by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Anglasia** DELPHY 1936 [E01076: 439]. TS: *A. magdalenae* by monotypy.
- Angustofolliculina** SILÉN 1947 [E00949: 63]. TS: *Folliculina spirorbis* DONS 1912 by original designation (& monotypy). Synonym of *Lagotia* (e.g. CORLISS 1979 [COR085: 299]).
- Anhymenia** FABRE-DOMERGUE 1888 [E00057: 240]. No type species fixed. Synonym of *Trichodina* (e.g. BÜTSCHLI 1889 [LB0896: 1759]; KAHL 1935 [KAH019: 659]; CORLISS 1979 [COR085: 277]; GUHL & HAIDER 1988 [LB0344: 258]; BASSON & VAN AS 1989 [CI1118: 158]).
- Anictostoma** FOISSNER 1993 [FOI282: 310]. TS: *A. grelli* by original designation. Neuter gender according to Article 30.1.2 of the Code. Synonym of *Corallocolpoda* (e.g. FOISSNER 1993 [FOI282: 310]).
- Anigsteinia** ISQUITH 1968 [E00568: 26]. TS: *A. clarissima* by original designation. Treated as valid by DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 367]) and CAREY (1992 [LB0008: 150]); both papers include a key to species.
- Anisarcon** JANKOWSKI 1981 [CI1416: 112]. TS: *Acineta notonectae* CLAPARÈDE & LACHMANN 1859 by original designation (& monotypy). Substitute name of the preoccupied *Calix* FRAIPONT 1878. Now considered as synonym of. Synonym of *Discophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 142]).
- Anisocomides** CHATTON & LWOFF 1950 [CI1386: 436]. TS: *A. zyrpaeae* (for *Hypocomides vittata* CHATTON & LWOFF 1926) by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Review: RAABE (1970 [Z06218: 412]).
- Annelophrya** LOM 1959 [CI1379: 150]. TS: *Sieboldiellina sphaeronucleata* GEORGÉVITCH 1948 by monotypy.

- Anophryoides* PUYTORAC & GROLIÈRE 1979 [E00610: 223]. TS: *Anophrys salmacida* MUGARD 1949 by monotypy. Misdated with "1978" in PUYTORAC (1994 [Z06335: 641]). Objective synonym: *Mugardia*. Synonym of *Paranophrys* (e.g. SONG & WILBERT 2000 [CI1705: 46]).
- Anophrys* COHN 1866 [CI1419: 273]. TS: *A. sarcophaga* by monotypy. Treated as valid by ARMSTRONG et al. (1981 [E02117: 201]) and BERGER (1994 [E01577: 67]). Treated as invalid (synonym of *Paranophrys* and subsequently *Mugardia* and *Anophryoides*) by SHERBURNE & BEAN (1991 [E02116: 315]).
- Anoplodinium* DOGIEL 1927 [BM0278: 72]. No type species fixed. Established as subgenus of *Diplodinium*. Treated as valid genus by MICHALOWSKI et al. (1989 [E02098: 273]).
- Anoplophrya* STEIN 1860 [E00098: 56]. No type species fixed. Synonyms: *Eliptophrya*, *Macrophrya*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]).
- Anoplophryopsis* PUYTORAC 1954 [CI1287: 213]. TS: *A. ovata* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code.
- Anthacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta craterellus* COLLIN by original designation (& monotypy); incomplete reference to basionym. Synonym: *Noracineta*. Improved diagnosis and key to species: CURDS (1987 [E02043: 99]).
- Anthochloe* JOSEPH 1882 [E00730: 254]. TS: *A. prosperinae* by monotypy. "Anthochloë" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code, which only allows Latin letters.
- Anthonyella* DELPHY 1936 [E00393: 518]. TS: *Radiophrya hoplites* ROSSOLIMO 1926 by original designation. Revision: PUYTORAC (1972 [CI1224: 21]).
- Anthostrombidium* JANKOWSKI 1980 [CI1013: 119]. TS: *Strobilidium rapulum* YAGIU 1933 by original designation (& monotypy). Synonymy with *Strobilidium* and redescription of type species: BERGER (1994 [E01578: 312]).
- Anthurceolaria* JANKOWSKI 1980 [CI1013: 117]. TS: *Urceolaria karyolobia* HIRSHFIELD by original designation; incomplete reference to basionym.
- Antipia* LEPSI 1927 [BM0666: 33]. TS: *A. spiralis* by monotypy.
- Apgaria* STOKES 1884 [E00746: 42]. No type species fixed. Synonym of *Blepharisma* (e.g. BÜTSCHLI 1889 [LB0896: 1722]; KAHL 1932 [KAH014: 443ff.]; CORLISS 1961 [COR113: 159]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Apionidium* PERTY 1852 [E00084: 148]. TS: *A. modestum* by monotypy. Nomen oblitum in CLAPARÈDE & LACHMANN 1858 [E00117: 72] and DIESING (1866 [CI1490: 538]). Not recorded in CORLISS (1979 [COR085]).
- "Apiorrhiza". TS: *Apiosoma filiformis* SCHEUBEL 1973 by original designation. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Apiosoma* BLANCHARD 1885 [E00013: 277]. TS: *A. piscicola* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Nominotypical subgenus (Art. 44; Code). Treated as synonym of *Glossatella* by KAHL (1935 [KAH019: 668]) and CORLISS (1979 [COR085: 274]) disregarding the priority. Synonyms: *Cordylosoma*, *Glossatella*, *Scopulata*. Revision: SCHEUBEL (1973 [CI1323: 4]); key to species and establishment of 9 subgenera: BANINA et al. (1984 [AEB550: 294]). Also treated as valid in FOISSNER & FOISSNER (1988 [FOI196: 63]).
- "Apiostyla". TS: *Epistylis gasterostei* FAURÉ-FREMIET by original designation; incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).

- Apoamphisiella* FOISSNER 1997 [FOI398: 335], including redescription of type species. TS: *Onychodromopsis tihanyiensis* GELLÉRT & TAMÁS 1958 by original designation (& monotypy). Revision and key to species: BERGER (1999 [LB1083: 781]).
- Apobryophyllum* FOISSNER 1998 [FOI421: 220]. TS: *A. terricola* by original designation (& monotypy).
- Apocolpoda* FOISSNER 1993 [FOI282: 234]. TS: *A. africana* by original designation (& monotypy).
- Apocryptopharynx* FOISSNER 1996 [FOI364: 315]. TS: *A. hippocampoides* by original designation.
- Apsiktrata* FOISSNER, BERGER & KOHMANN 1994 [FOI300: 319]. TS: *Urotricha gracilis* PENARD 1922 by original designation.
- Arachnella* KENT 1882 [E00074: 861]. TS: *Arachnidium convolutum* KENT 1881 by original designation. Mandatory change of gender ending necessary (Arts. 30.1.3, 31.2, 34.2; Code), because the Latin suffix "-ella" is feminine, viz. *A. convoluta* nom. corr. Superfluous substitute name for *Arachnidium*, because it is a synonym of *Strombidium* (e.g. BÜTSCHLI 1889 [LB0896: 1732]; partially *Mesodinium* on page 1688) or *Strombidinopsis* or *Tintinnidium* (e.g. KAHL 1930 [KAH008: 177, 180]) or *Strobilidium* (e.g. CORLISS 1960 [COR036: 270]), thus very likely a nomen dubium. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Arachnidiopsis* PENARD 1918 [E00600: 283]. TS: *A. paradoxa* by monotypy. Feminine gender according to Article 30.1.2 of the Code. KAHL (1930 [KAH008: 177]) considered it as intermediate between ciliates and rhizopods. Likewise, CORLISS (1979 [COR085: 242]) notes "possibly not a ciliate at all". Thus, status uncertain, genus regarded as nomen dubium.
- Arachnidium* KENT 1881 [E00073: 637]. Homonym of *A. HINCKS* 1877, bryozoan. Objective synonym of *Arachnella* KENT 1882. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Arachnidiumia* STRAND 1928 [CI1594: 30]. Superfluous substitute name for *Arachnidium*, which was already replaced by *Arachnella* KENT 1882, thus an objective synonym. Listed as a synonym of *Strobilidium* (cp. CORLISS 1960 [COR036: 270]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Arachnodinium* VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1987 [CI1448: 340]. Homonym of *A. WILSON & CLOWES* 1982, dinoflagellate. Both names in current use (cp. Zoological Record (CD-version)). Established by HAMILTON-ATTWELL & VAN HOVEN (1986 [E02142: 46]) with the species *A. rhinoseralis*; as only a scanning electron micrograph without description was given, it is a nomen nudum (Art. 13.1; Code). Later it was based on the single species *A. noveni* without reference to the earlier species. Objective synonym of *Arachnodinella* nom. nov.
- Arachnodinella* nomen novum for the preoccupied *Arachnodinium*. TS: *A. noveni* VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1987 by original designation (& monotypy). The correspondence with Mr. VAN HOVEN could not clarify the situation, due to an ignorance of the principles of zoological nomenclature. Derivation: Composition of *Arachnodinium* and the Latin diminutive suffix "-ella". Gender: feminine.
- Archacineta* JANKOWSKI 1981 [CI1416: 85]. TS: *Sphaerophrya canelli* CLEMENT 1967 by original designation (& monotypy). Established as subgenus of *Sphaerophrya*. Genus treated as invalid by MATTHES (1988 [LB0005: 177]), i.e. species listed in its original combination.
- Archiastomata* FOISSNER 1976 [FOI032: 261]. TS: *A. adami* by monotypy. Synonym of *Bursaria* (cp. FOISSNER 1993 [FOI282: 423]).
- Archimedeia* HUDSON 1875 [E00690: 169]. TS: *A. remex* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]). Nomen oblitum in CORLISS

- (1979 [COR085: 208]). Synonym of *Chaetospira* (e.g. KAHL 1932 [KAH014: 563] and subsequently of *Stichotricha* (e.g. KENT 1881 [E00073: 603]; BÜTSCHLI 1889 [LB0896: 1743]; JANKOWSKI 1979 [CI1188: 66]). Misspelled "Archimedes" in BÜTSCHLI (1889 [LB0896: 1743]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code), moreover a junior homonym.
- Archinassula** KAHL 1935 [KAH019: 827]. TS: *A. muscicola* by monotypy.
- Arcodiscophrya** JANKOWSKI 1981 [CI1416: 113]. TS: *A. heraldica* by original designation (& monotypy).
- Arcosoma** JANKOWSKI 1967 [CI1568: 35]. TS: *Allantosoma discorniger* HSIUNG 1930 by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code.
- Arcuospathidium** FOISSNER 1984 [FOI110: 74], including redescription of type species. TS: *Spathidium cultriforme* PENARD 1922 by original designation.
- Aristerostoma** KAHL 1926 [KAH001: 357]. TS: *A. minutum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Two species, which need complete redescription (cp. FOISSNER 1993 [FOI282: 556]).
- Armiacineta** JANKOWSKI 1982 [CI1023: 30]. TS: *A. seticola* by original designation (& monotypy).
- Armichona** JANKOWSKI 1973 [AEB543: 314]. TS: *A. gibbosa* by original designation.
- "Arpseudarcelloum". No type species fixed. RHUMBLER (1913 [PR1159: 349]) proposed that all fossil generic names be prefixed by a formula. Words so formed are "zoological formulae" (Opinion 72) and do not enter into zoological nomenclature (Art. 1.3.7; Code), although listed as [objective] synonym of *Pseudarcella* by CORLISS (1979 [COR085: 304]).
- Ascampbelliella** CORLISS 1960 [COR036: 273]. TS: *A. urceolata* (basionym *Tintinnus urceolatus* OSTENFELD 1899) by original designation. Substitute name of the preoccupied *Craterella* KOFOID & CAMPBELL 1929. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).
- Ascobius** HENNEGUY 1884 [E00567: 412]. TS: *A. lentus* by monotypy. The type species has been synonymized with *Folliculina boltoni* by KAHL (1932 [KAH014: 473]). CORLISS (1979 [COR085: 299]) suggested partial synonymy with *Semifolliculina*. However, MULISCH et al. (1998 [Z06369: 30]) redescribed the type species and emended the diagnosis of the genus.
- "Ascoidium" LINDNER 1886 [CI1618: 373], no species name mentioned. Emended by BRAUN (1887 [E00499: 205]) for the vernacular name "Askoidien" (Arts. 11.2, 19.2; Code). Republished as new by LINDNER (1887 [CI1516: 734]), again without species. No description or definition, thus a nomen nudum (Art. 12.1; Code).
- Ascophrys** CAMPILLO & DEROUX 1974 [CI1383: 1447]. TS: *A. odor* by monotypy. Redescription of type species: DEROUX et al. (1975 [CI9043: 359]).
- Asellacineta** JANKOWSKI 1981 [CI1416: 90]. TS: *A. rossica* by original designation. Synonym of *Metacineta* by placement of the type species (cp. JANKOWSKI (1986 [CI1525: 87])).
- "Asellarcon". TS: *Chilodon granulatus* PENARD 1922 by original designation (& monotypy); basionym incompletely given. Masculine gender according to Article 30.2.3 of the Code. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1986 [CI1574: 389]), thus unavailable.
- Asellicola** PLATE 1889 [E00773: 143]. TS: *A. digitata* by monotypy. Feminine gender according to Article 30.1.4.2 of the Code. Synonym of *Stylocometes* (e.g. CORLISS 1961 [COR113: 137]). Nomen oblitum in CORLISS (1979 [COR085: 208]).



- Askenasia** BLOCHMANN 1895 [E00111: 91]. TS: *Trichodina volvox* EICHWALD 1852 by subsequent designation by KAHL (1930 [KAH008: 127]). Revision and nomenclatural history of the type species: KRÄINER & FOISSNER (1990 [FOI231: 417]). These authors proposed that *Askenasia*, a junior synonym of *Stephanidina*, should be retained in accordance with Article 23.9 of the Code because the senior name is considered as nomen oblitum (cp. FOISSNER 1987 [FOI173: 227]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1991 [FOI340: 251], 1999 [FOI450: 154]). Synonym: *Jankowskia*.
- Askoella** FENCHEL 1965 [E00891: 292]. TS: *A. janssoni* by monotypy. Ascribed to "FENCHEL" in EDWARDS & VEVERS (1975 [LB0757: 30]).
- Aspidisca** EHRENBERG 1830 [EHR001: 42]. TS: *Trichoda lynceus* MÜLLER 1773 by monotypy. Nominotypical subgenus (Art. 44; Code). Misdated with "1838" in SMALL & LYNN (1985 [Z06206: 422]) and CAREY (1992 [LB0008: 195]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]), who established three subgenera. Synonyms: *Aspidiscopsis*, *Monostylus*, *Onychaspis*, *Ratulus*, *Tribulina*. Revision: WU & CURDS (1979 [E02093: 1]). Redescriptions of type species: SHIN & KIM (1988 [E01783: 75]), FOISSNER et al. (1991 [FOI243: 377]), and AUGUSTIN & FOISSNER (1992 [FOI251: 271]). Key to marine species: CAREY (1992 [LB0008: 195]).
- Aspidiscopsis** GHOSH 1921 [E00563: 249]. TS: *A. bengalensis* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Aspidisca* (e.g. KAHL 1932 [KAH014: 644]; CORLISS 1979 [COR085: 311]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]).
- Asterifer** JANKOWSKI 1967 [CI1568: 35]. TS: *Ophryodendron faurei* GUILCHER 1950 by original designation (& monotypy). Genus not recognized by MATTHES (1988 [LB0005: 8]), i.e. species listed in its original combination.
- Astrophrya** AWERINZEW 1904 [E00167: 425]. TS: *A. arenaria* by monotypy, now considered as synonym of *Dendrosoma radians* (e.g. MATTHES 1988 [LB0005: 57]). Synonym of *Dendrosoma* by placement of the type species.
- "Astrostoma". Neuter gender according to Article 30.1.2 of the Code. No description or definition in ALEKPEROV in CORLISS (1979 [COR085: 217]), thus a nomen nudum (Art. 13.1; Code). Moreover a homonym of *A. GRAY* 1867, porifera.
- Astylozoon** ENGELMANN 1862 [E00055: 389]. TS: *A. fallax* by monotypy. Synonym: *Geleiella*. Revision: FOISSNER (1977 [FOI037: 358]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 453]); redescription necessary.
- Ateplitlites** DEROUX 1976 [E00180: 475]. TS: *A. misellum* by monotypy. Neuter gender according to Article 30.1.4.4 of the Code.
- Atopochilodon** KAHL 1933 [KAH015: 68]. TS: *A. arenifer* by monotypy.
- Atopodinium** KAHL 1932 [KAH014: 529]. TS: *A. fibulatum* by monotypy. Again founded as new in the same year (cp. [KAH013: 281]). Junior homonym in dinoflagellids.
- Atopospira** JANKOWSKI 1964 [CI1418: 506]. TS: *Metopus galeatus* KAHL 1927 by original designation. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "spira" (spiral) is feminine, viz. *A. galeata* nom. corr. Established as subgenus of *Brachonella*.
- Atractos** VÖRÖSVÁRY 1950 [CI1045: 343]. TS: *A. contortus* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]).
- "Atriofolliculina". Not made available by HADŽI (1951 [E00001: 124]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Aubertianella** SZCZECURA 1969 [E01038: 267]. TS: *A. keiji* by original designation (& monotypy). Originally considered as miscellaneous fossil, later as oligotrichid (cp.

- BUGROVA 1986 [E02081: 24]; KONENKOVA 1997 [E02080: 123]). Not recorded in CORLISS (1979 [COR085]).
- Aulax* GOURRET & ROESER 1888 [E00330: 163]. TS: *A. paucisetosa* by monotypy. Synonym of *Cristigera* (e.g. KAHL 1931 [KAH012: 385]; CORLISS 1960 [COR036: 270]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Aulaxella* STRAND 1928 [CI1594: 30]. Superfluous substitute name for *Aulax*, because this is no homonym of the hymenopteran insect "Aulax" HARTIG 1843, which was a misspelling of *Aylax* HARTIG 1840 (cp. SCHULZE et al. 1926 [LB0603: 336]). Subjective synonym of *Cristigera* (e.g. CORLISS 1960 [COR036: 270]); listed as nomen oblitum by CORLISS (1979 [COR085: 208]).
- Aulofolliculina* HADŽI 1951 [E00001: 227]. TS: *A. labyrinthica* by monotypy.
- Aurichona* JANKOWSKI 1973 [AEB543: 201]. TS: *A. armata* by original designation (& monotypy).
- Australana* JANKOWSKI 1986 [CI1525: 85]. TS: *A. kaneis* by original designation (& monotypy).
- Australocirrus* BLATTERER & FOISSNER 1988 [FOI191: 65]. TS: *A. oscitans* by original designation (& monotypy). Improved diagnoses: BERGER & FOISSNER (1997 [FOI445: 145]); BERGER (1999 [LB1083: 470]).
- Australothrix* BLATTERER & FOISSNER 1988 [FOI191: 38]. TS: *A. australis* by original designation.
- "Autacineta". Although listed as synonym of *Acineta* by BÜTSCHLI (1889 [LB0896: 1929]), very probably not intended as new genus by HAECKEL (1866 [AEB800: LXXIX]), but as hypothetical concept and thus an excluded name (Art. 1.3.1; Code).
- Authadias* GISTEL 1848 [E00998: xi]. Superfluous substitute name for *Urocentrum* NITZSCH 1827 (cp. SCHULZE et al. 1926 [LB0603: 345]). Not used by later authors (BÜTSCHLI 1889 [LB0896]; CORLISS 1979 [COR085]).
- Autochloe* JOSEPH 1882 [E00730: 254]. TS: *A. proerpinae* by monotypy. Synonym of *Zoothamnium* (e.g. BÜTSCHLI 1889 [LB0896: 1765]).
- Avela* NOUZARÈDE 1975 [E00300: 625]. Homonym of *A.* WALKER 1856, leptopteran insect. Objective synonym of *Avelia* NOUZARÈDE 1977.
- Avelia* NOUZARÈDE 1977 [E00301: 39]. TS: *Avela martinicensis* NOUZARÈDE 1975 by original designation. Substitute name of the preoccupied *Avela*. Incorrectly ascribed to "(NOUZARÈDE 1975) NOUZARÈDE 1976" by CAREY (1992 [LB0008: 95]). Key to marine species: CAREY (1992 [LB0008: 95]). Revision: PETTIGROSSO et al. (1995 [E01322: 79]); DRAGESCO (1999 [CI1678: 40]).
- Avestina* JANKOWSKI 1980 [CI1013: 118]. TS: *Colpoda acuta* BUITKAMP 1977 by original designation. Improved diagnosis: AESCHT & FOISSNER (1990 [FOI221: 108]). Key to species: FOISSNER (1993 [FOI282: 327]).
- Azerella* ALEKPEROV 1985 [CI1281: 1093]. TS: *A. calva* by original designation (& monotypy).

## B

- Baculiapium* BANINA in BANINA et al. 1984 [AEB550: 313]. TS: *Apiosoma baculum* SOLOMATOVA 1977 by original designation. Established as subgenus of *Apiosoma*.
- Baeonidium* PERTY 1849 [CI1596: 171]. TS: *B. remigans* by monotypy. PERTY (1852 [E00084: 149]) again indicated the genus as new in his monograph. Nomen oblitum in DIESING (1866 [CI1490: 538]) and CORLISS (1979 [COR085: 208]).

- Baikalaster** JANKOWSKI 1986 [CI1525: 73]. TS: *B. pelagicus* by original designation (& monotypy).
- Baikalocoleps** OBOLKINA 1995 [CI1537: 4]. TS: *B. quadratus* by original designation (& monotypy).
- Baikalodendron** SWARCZEWSKY 1928 [Z06227: 367]. TS: *B. angustatum* by monotypy.
- Baikalonis** JANKOWSKI 1982 [CI1023: 30]. TS: *B. foissneri* by original designation (& monotypy). Key to species: WARREN (1988 [CI1431: 143]).
- Baikalophrya** SWARCZEWSKY 1928 [Z06227: 355]. No type species fixed. Treated as valid by JANKOWSKI (1981 [CI1416: 85], 1982 [CI1023: 32]).
- "Baikaloscyphidia". TS: "*B. anteronis*" by original designation (& monotypy). No description in JANKOWSKI (1982 [CI1023: 27]), only one figure, thus a nomen nudum (Art. 13.1; Code).
- Baikalotheca** JANKOWSKI 1985 [CI1417: 98]. TS: *Cothurnia cratera* SWARCZEWSKY 1930 by original designation.
- Baikalothigma** JANKOWSKI 1982 [CI1023: 26]. TS: *B. viridis* by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek suffix "-ma" is neuter, viz. *B. viride* nom. corr.
- Bakuella** JANKOWSKI 1979 [CI1188: 50]. TS: "*Bakuella*" *marina* AGAMALIEV & ALEKPEROV 1976 by original designation. Name not made available by AGAMALIEV & ALEKPEROV (1976 [CI1067: 128]) since no type species was designated (Art. 13.3; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 50]), who validated the genus not explicitly stating the changed authorship, he also established two subgenera. Subgenera not acknowledged. Synonym: *Loxocineta*. Revision: SONG et al. (1992 [E00733: 141]; with incorrect authorship). Keys to species: ALEKPEROV (1992 [CI1491: 7]); CAREY (1992 [LB0008: 179]). Improved diagnoses: MIHAILOWITSCH & WILBERT (1990 [CI1359: 208]); EIGNER (1994 [CI1619: 473]).
- Balanion** WULFF 1919 [E00786: 116]. TS: *B. comatum* by monotypy. Misdated with "1922" in SMALL & LYNN (1985 [Z06206: 419]). PUYTORAC (1994 [Z06331: 577]) incorrectly records the authorship as "SMALL & LYNN 1985". Synonym: *Pseudobalanion*.
- Balanitozoon** STOKES 1886 [E00703: 109]. TS: *B. agile* by monotypy. Synonym of *Urotricha* (e.g. BÜTSCHLI 1889 [LB0896: 1680]; KAHL 1926 [KAH001: 208], 1930 [KAH008: 58]; CORLISS 1979 [COR085: 214]; FOISSNER & PFISTER 1997 [FOI413: 312]).
- "Balanonema". Neuter gender according to Article 30.1.2 of the Code. Not made available by KAHL (1931 [KAH012: 345]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Unavailability neither recognized by CORLISS (1979 [COR085: 265]) nor by FOISSNER (1978 [FOI043: 385]) and FOISSNER et al. (1982 [FOI084: 450]). Needs nomenclatural validation.
- Balanophrya** KAHL 1930 [KAH008: 54]. TS: *Holophrya mammilata* KAHL 1927 by original designation. Established as subgenus of *Holophrya*. Long erroneously considered the senior synonym of *Acaryophrya* (e.g. CORLISS 1961 [COR113: 121], 1979 [COR085: 214]). Correctly treated as junior synonym of *Acaryophrya* by FOISSNER & FOISSNER (1988 [FOI196: 13]).
- Balantidioides** PENARD in KAHL 1930 [KAH008: 149]. TS: *Balantidiopsis muscicola* PENARD 1922 by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Substitute name of the preoccupied *Balantidiopsis* PENARD 1922. Incorrectly ascribed to "PENARD 1930" in KAHL (1932 [KAH014: 435]), ascribed to "KAHL 1930" in CORLISS (1960 [COR036: 273], 1979 [COR085: 296]), or ascribed to "PENARD 1922 (KAHL 1930)" in TUFFRAU & PUYTORAC (1994 [Z06320: 65]) (cp. Rec. 51E; Code). Revision and synonymy of *Transitella*: FOISSNER et al. 1982 [FOI086: 223]).

- Balantidion** EBERHARD 1862 [CI1475: 25]. TS: *B. pellucidum* by monotypy. Long considered as synonym of *Enchelys* (e.g. KAHL 1930 [KAH008: 98]; CORLISS 1961 [COR113: 121], 1979 [COR085: 215]). Taxonomic and ecological monograph of type species including redescription: FOISSNER et al. (1999 [FOI450: 252]).
- Balantidiopsis** BÜTSCHLI 1889 [LB0896: 1725]. TS: *Balantidium duodeni* STEIN 1867 by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Balantidium* (e.g. CORLISS 1979 [COR085: 219]).
- Balantidiopsis** PENARD 1922 [E00134: 15]. Feminine gender according to Article 30.1.2 of the Code. Homonym of *B.* BÜTSCHLI 1889, ciliate. Objective synonym of *Balantidioides* PENARD in KAHL 1930.
- Balantidium** CLAPARÈDE & LACHMANN 1858 [E00117: 247]. TS: *Bursaria entozoon* EHRENBERG 1838 by monotypy; placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 2388). Misspelled "Bolantidium" in CUNHA (1919 [CI9012: 4]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 33], name number 1907) (cp. MELVILLE & SMITH 1987 [EV0797: 53]). Synonyms: *Balantidiopsis* BÜTSCHLI non PENARD, *Balantioides*, *Parabursaria*, *Paranyctotherus*. Redescription of type species: GUINEA et al. (1992 [CI2312: 41]).
- Balantioides** ALEXEIEFF 1931 [E00960: 210]. TS: *B. coli* by original designation. Masculine gender according to Article 30.1.4.4 of the Code. Synonym of *Balantidium* (e.g. CORLISS 1979 [COR085: 219]).
- Balantiophorus** SCHEWIAKOFF 1889 [E00091: 64]. TS: *B. minutus* by monotypy. Type species synonymized with *Cyrtolophosis mucicola* (cp. KAHL 1931 [KAH012: 354]), other species with *Glaucoma* (p. 332) or *Espejoia* (p. 337). Likewise treated as invalid by FOISSNER (1993 [FOI282: 526, 529]).
- Balladinopsis** GHOSH 1921 [E00563: 248]. TS: *B. nuda* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misspelled "Balladynopsis" in KAHL (1932 [KAH014: 592]) and BORROR (1972 [CI1191: 18]); listed as synonym by CORLISS (1961 [COR113: 169], 1979 [COR085: 310]), but an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]), who further mentioned the misspelling "Balladunopsis" without reference. No longer classified in the Oxytrichidae and type species considered as nomen dubium by BERGER (1999 [LB1083: 893]).
- Balladyna** KOWALEWSKI 1882 [E00582: 404]. TS: *B. parvula* by monotypy. Misspelled "Balladina" (e.g. BÜTSCHLI 1889 [LB0896: 1751]; see FOISSNER et al. 1999 [FOI450: 37] for further references, also spelled *Balladyna* on page 114), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Both spellings are mentioned in KAHL (1932 [KAH014: 591]), NEAVE (1939 [LB0751: 389], erroneously ascribed to "DAHL 1932") and CORLISS (1961 [COR113: 169], 1979 [COR085: 274], with "Balladina" listed as synonym). Although *Balladyna* likely is an incorrectly transliterated generic name, this has not to be considered as inadvertent error (Art. 32.5.1; Code), thus it is no incorrect original spelling and the name has to be preserved unaltered (Art. 32.3; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Key to marine species: CAREY (1992 [LB0008: 180]).
- Balladynella** JANKOWSKI 1979 [CI1188: 51]. TS: *Balladyna fusiformis* KAHL 1932 by original designation. Name not made available by STILLER (1974 [CI1189: 132], also spelled "Balladinella" on page 132, probably par lapsus) since no type species was designated (Art. 13.3; Code). Misspelling as "Balladinella" also mentioned by EDWARDS & TOBIAS (1993 [LB0758: 60]) and listed as synonym by CORLISS (1979 [COR085: 309]), but an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5;

- Code). Validated and listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Type species removed from synonymy with *Oxytricha setigera* and transferred to *Cyrtohymena* by PETZ & FOISSNER (1997 [FOI397: 321]).
- Ballodora** DOGIEL & FURSENKO 1921 [E00550: 147]. TS: *B. dimorpha* by monotypy. Misdated with "1926" in NEAVE (1939 [LB0751: 389]). The genus is mentioned as "dissolved" by GUHL (1979 [CI1315: 417]) without discussion, probably it was intended to suggest a nomen dubium.
- Banyulsella** DRAGESCO 1954 [CI1054: 637]. TS: *B. viridis* by monotypy. Misdated with "1953" in BORROR (1972 [CI1191: 9]) and JANKOWSKI (1979 [CI1188: 51]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]).
- Baranella** NAGY 1989 [E00398: 68]. TS: *B. gracilis* by original designation.
- Bardeliella** FOISSNER 1984 [FOI110: 104]. TS: *B. pulchra* by original designation (& monotypy).
- Basitokophrya** JANKOWSKI 1982 [CI1023: 32]. TS: *Tokophrya ornata* GAJEWSKAJA 1933 by original designation. Genus not recognized by MATTHES (1988 [LB0005: 35]), i.e. species listed in its original combination.
- Batiola** KOSHEVOJ 1987 [E01415: 22]. TS: *B. izhivacensis* by original designation (& monotypy).
- Bazosanuia** TUCOLESCO 1962 [E00374: 96]. TS: *B. nana* by monotypy.
- Beckmania** JANKOWSKI 1982 [CI1023: 31]. TS: *B. baikalensis* by original designation (& monotypy).
- Beersena** JANKOWSKI 1989 [E00414: 86]. TS: *Phasmatopsis limax* DEROUX 1978 by monotypy. Substitute name of *Phasmatopsis*.
- Belonophrya** ANDRÉ 1914 [E00653: 182]. TS: *B. pelagica* by monotypy. Misdated with "1912" in KAHL (1930 [KAH008: 138]) and CORLISS (1960 [COR036: 270]). Taxonomic and ecological monograph of type species including redescription: FOISSNER et al. (1999 [FOI450: 124]).
- Benedenia** FOETTINGER 1881 [E00223: 346]. Homonym of *B.* DIESING 1858, trematode. Objective synonym of *Chromidina* GONDER 1905. Considered as synonym of *Opalinopsis* by BÜTSCHLI (1889 [LB0896: 1718]), CORLISS (1960 [COR036: 272]), and PUYTORAC (1994 [Z06340: 840]), a genus however established by FOETTINGER for other species. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Benthontophrys** FOISSNER & GSCHWIND 1998 [FOI427: 35]. TS: *B. fluviatilis* by original designation (& monotypy).
- Berounkella** KOSHEVOJ 1987 [E01415: 23]. TS: *B. major* by original designation (& monotypy).
- Bertolinella** CARPANO 1941 [E00391: 45]. TS: *B. intestinalis* by monotypy.
- Bezedniella** STLOUKAL & MATIS 1994 [E00736: 79]. TS: *B. prima* by original designation (& monotypy).
- Biconvexellina** KONENKOVA 1999 [E02227: 3]. TS: *B. expressa* by original designation.
- Bicoronella** FOISSNER 1995 [FOI338: 63]. TS: *B. costaricana* by original designation (& monotypy).
- Biggaria** nov. gen. TS: *Cryptochilum bermudensis* BIGGAR & WENRICH 1932 by original designation. KAHL (1934 [KAH017: 154]) established the genus with three species non designating as type, thus it is a nomen nudum (Art. 13.3; Code). Not a substitute name of the preoccupied *Cryptochilum*, as indicated by KAHL, because he only made new combinations of two of its species (incorrectly ascribed to "BIGGAR", because the reference is cited with "BIGGAR & WENRICH"). *Biggaria bermudensis* is selected as type species, because it is redescribed by BERGER (1994 [E01577: 177]) and *B. echinometris* is

- transferred to *Velistoma* and *Biggaria gracilis* to *Tanystomium* (cp. Rec. 69A.3; Code, i.e. "choice following elimination"). Synonym: *Teremanticola*.
- "Biggariella". No description or definition given by PROFANT in CORLISS (1979 [COR085: 263]), thus a nomen nudum (Art. 13.1.1; Code).
- Bignotella** WILLEMS 1975 [CI1487: 201]. TS: *Spinarcella batiformis* KEIJ 1969 by original designation.
- Bipalmatum** GAJEWSKAJA 1924 [E00479: 244]. TS: *B. salinum* by monotypy.
- Birojima** BERGER & FOISSNER 1989 [FOI210: 25]. TS: *B. terricola* by original designation.
- Bitricha** CAMEROUN, O'DONOGHUE & ADLARD 2000 [E02222: 52]. TS: *B. oblata* by original designation.
- Bizone** LEPSI 1926 [BM0665: 764]. Misdated with "1927" in KAHL (1931 [KAH012: 340]). Homonym of *B.* WALKER 1854, lepidopteran insect and *B.* SIMON 1903, arachnid. Objective synonym of *Bizonula* CORLISS 1960.
- Bizonula** CORLISS 1960 [COR036: 274]. TS: *Bizone parva* LEPSI 1926 by original designation (& monotypy). Substitute name of the preoccupied *Bizone*.
- Blepharisma** PERTY 1849 [CI1596: 170]. TS: *B. persicinum* by subsequent designation by HIRSHFIELD et al. (1965 [E00811]). KAHL (1932 [KAH014: 443]) mentioned in an ambiguous or conditional manner *B. lateritium* as "typical species", which is not to be regarded as type designation in the meaning of the Code (Art. 67.5.3; Code). Misdated with "1852" in KAHL (1932 [KAH014: 442]). However, PERTY (1852 [E00084: 145]) again indicated the genus as new in his monograph. Synonyms: *Apgaria*, *Compactum*, *Filiformis*, *Halteroides*, *Plagiotricha* partim, *Trichomecium*, *Ypsistoma*. HIRSHFIELD et al. (1965 [E00811: 141]) established four subgenera, not currently used. Monograph: GIESE (1973 [CI0089]). Key to marine species: CAREY (1992 [LB0008: 151]).
- Blepharocodon** BUNDLE 1895 [E00193: 336]. TS: *B. appendiculatus* by monotypy.
- Blepharoconus** GASSOVSKY 1919 [E00880: 31]. TS: *B. hemiciliatus* by monotypy. Misdated with "1918" in GRAIN (1994 [Z06319: 281]). Key to species: VAN HOVEN et al. (1998 [E02102: 92]).
- Blepharocorys** BUNDLE 1895 [E00193: 298]. TS: *Diplodinium uncinatum* FIORENTINI 1890 by subsequent designation by WOLSKA (1971 [Z06216: 26]). Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "korus" (helmet) is feminine, viz. *Blepharocorys uncinata* nom. corr. Revision: WOLSKA (1971 [Z06216: 26]).
- Blepharomonas** KOPPERI 1937 [Z06410: 25]. TS: *B. mollis* by monotypy.
- Blepharoplanum** KOPPERI 1937 [Z06410: 19]. TS: *B. leporis* by monotypy.
- Blepharoprosthium** BUNDLE 1895 [E00193: 331]. TS: *B. pireum* by monotypy.
- Blepharosphaera** BUNDLE 1895 [E00193: 334]. TS: *B. intestinalis* by monotypy. Key to species: VAN HOVEN et al. (1998 [E02102: 94]).
- Blepharostoma** SCHEWIAKOFF 1893 [PR1037: 40]. TS: *B. glaucoma* by monotypy. Neuter gender according to Article 30.1.2 of the Code. First mentioned by SCHEWIAKOFF (1892 [E00092: 554]) without description or definition, thus a nomen nudum (Art. 12.1; Code).
- Blepharozoum** GASSOVSKY 1919 [E00880: 30]. TS: *B. zonatum* by monotypy. Misdated with "1918" in GRAIN (1994 [Z06319: 281]).
- Bonetocardiella** DUFOUR 1968 [E00555: 1948]. TS: *Stomiosphaera conoidea* BONET 1956 by original designation. Considered as uncertain tintinnine by CORLISS (1979 [COR085: 307]) and considered as related to dinoflagellates or foraminifers (cp. Zoological Record (CD-version)), but treated as oligotrichid ciliate, for instance by MASTERS & SCOTT (1978 [E01048: 214]).

- Borzaiella** MAKARIEVA 1979 [E01027: 56]. TS: *B. terekensi* by original designation (& monotypy).
- Borzaiella** GRÜN & BLAU 1996 [CI1608: 575]. Homonym of *B.* MAKARIEVA 1979, ciliate. Objective synonym of *Borzaites* GRÜN & BLAU nom. nov.
- Borzaites** GRÜN & BLAU nomen novum for the preoccupied *Borzaiella*. TS: *B. atava* GRÜN & BLAU 1996 by original designation (& monotypy). Named after Karol BORZA. Validated herein according to the correspondence with the original authors, thus correct authorship is to be cited as "GRÜN & BLAU in AESCHT 2001". Gender: feminine (Art. 30.1.4.4; Code).
- Borziella** POP 1997 [CI1613: 937]. TS: *Chitinoidella slovenica* BORZA 1969 by original designation (& monotypy).
- Bothrostoma** STOKES 1887 [E00790: 247]. TS: *B. undulans* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Synonym of *Pleuronema* (e.g. BÜTSCHLI 1889 [LB0896: 1713]) or *Metopus* (e.g. CORLISS 1961 [COR113: 158]). Treated as valid by JANKOWSKI (1964 [CI1418: 506]) and ESTEBAN et al. (1995 [E01954: 139]).
- Botticula** DIONI 1972 [CI1584: 309]. TS: *B. ringueleti* by original designation (& monotypy).
- Boveria** STEVENS 1901 [CI1220: 20]. TS: *B. subcylindrica* by monotypy. Revision: RAABE (1970 [Z06217: 157]). Considered partially as synonym of *Plagiospira* and ascribed to "MACKINNON & REY 1931" in CHATTON & LWOFF (1949 [E02099: 188]) (par lapsus, cp. page 209 and RAABE 1970 [Z06217: 168]). Key to species: JAMADAR & CHOUDHURY (1988 [E02094: unpaginated]). Redescription of type species: XU & SONG (2000 [CI1691: 234]).
- Bozasella** BUISSON 1923 [E00500: 217]. TS: *B. rhinocerotis* by original designation (& monotypy).
- Brachonella** JANKOWSKI 1964 [CI1418: 506]. TS: *Metopus contorta* LEVANDER 1894 by original designation. Established with two subgenera, thus nominotypical subgenus (Art. 44; Code). In a subsequent paper of the same year JANKOWSKI (1964 [CI1377: 210]) stated *B. spiralis* (SMITH 1897) JANKOWSKI 1964 as type species, an invalid action (Art. 69.1; Code). Diagnostic characters and key to species: OLMO & TELLEZ (1996 [E02048: 65]).
- Brachyosoma** BATISSE 1975 [E00178: 2123]. TS: *Podophrya brachypoda* STOKES 1885 by original designation. Neuter gender according to Article 30.1.2 of the Code. Substitute name of the preoccupied *Hallezia*. Synonym: *Muscophrya*. Revision and improved diagnosis: CURDS (1985 [E00541: 185]). FOISSNER (1999 [FOI430: 366]) suggested subgeneric rank of *Tokophrya*.
- Brachyspira** RAABE 1950 [E02225: 299]. Not included in nomenclatorial indices (NEAVE 1939 [LB0751]; Zoological Record 1950, 1951; EDWARDS & HOPWOOD 1966 [LB0756]; EDWARDS & VEVERS 1975 [LB0757]; EDWARDS & TOBIAS 1993 [LB0758]). Homonym of *B.* PFEIFFER 1855, mollusc (cp. Zoological Record (CD-version)). Objective synonym of *Trichodinella* SRÁMEK-HUSEK 1953.
- "Branchioecetes". Not made available by KAHL (1931 [KAH012: 203]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Brandtiella** KOFOID & CAMPBELL 1929 [CI1434: 325]. TS: *Tintinnus palliatus* BRANDT 1906 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 30.1.3, 31.2, 34.2; Code), because the Latin suffix "-ella" is feminine, viz. *Brandtiella palliata* nom. corr. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).

- Bresslaia** KAHL 1931 [KAH012: 283]. TS: *B. vorax* by original designation. Redescription of type species: FOISSNER (1985 [FOI133: 255]). Revision and key to species: FOISSNER (1993 [FOI282: 247]).
- Bresslauides** BLATTERER & FOISSNER 1988 [FOI191: 19]. TS: *B. australis* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- Brooklynella** LOM & NIGRELLI 1970 [CI1398: 224]. TS: *B. hostilis* by monotypy.
- Bryometopus** KAHL 1932 [KAH014: 433]. TS: *B. pseudochilodon* by original designation. Redescription of type species: FOISSNER et al. (1982 [FOI086: 212]). Revision and key to species: FOISSNER (1993 [FOI282: 675]).
- Bryophrya** WENZEL 1953 [CI1047: 89]. TS: "Bryophrya" *bavariensis* KAHL 1931 by original designation. The genus was established by KAHL (1931 [KAH012: 284]) with three species. Since he did not determine any as type, the genus is a nomen nudum (Art. 13.3; Code); a fact overlooked by CORLISS (1979 [COR085: 223]). WENZEL (1953 [CI1047: 89]) validated the genus. Key to species: FOISSNER (1993 [FOI282: 512]).
- Bryophyllum** KAHL 1931 [KAH012: 183]. TS: *B. loxophylliforme* by original designation.
- Buchneriella** HEIDENREICH 1935 [Z06236: 349]. TS: *B. criodrili* by monotypy. Revision: PUYTORAC (1972 [CI1224: 32]).
- Buehringa** BUSCH 1921 [Z06223: 376]. TS: *B. atlantica* by monotypy. Synonym of *Strombidium* (e.g. CORLISS 1961 [COR113: 162]; MAEDA & CAREY 1985 [E02042: 5]).
- Buetschlia** SCHUBERG 1888 [E00325: 371]. TS: *B. parva* by subsequent designation by WILLIAMS & COLEMAN (1991 [LB0002: 117]). "Bütschlia" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code.
- Buetschliella** AWERINZEW 1908 [E00389: 337]. TS: *B. opheliae* by monotypy. Originally and subsequently often misspelled "Bütschliella" (e.g. GEORGÉVITCH 1941 [CI1435: 61]), an incorrect spelling that must be corrected according to Articles 27 and 32.5.2 of the Code.
- Buetschliella** JÍROVEC 1933 [BM0529: 585]. Homonym of *B.* AWERINZEW 1908, ciliate. Objective synonym of *Pseudobuetschlia* JÍROVEC 1933.
- Buetschliellopsis** PUYTORAC 1954 [CI1287: 216]; "Bütschliellopsis" is an incorrect original spelling that must be corrected according to Article 32.5.2.1 of the Code by insertion of the letter "e". TS: *B. enchytraei* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Misspelled "Bütschliellopsis" (e.g. LOM 1959 [CI1225: 457]), viz. an incorrect subsequent spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Revision: PUYTORAC (1972 [CI1224: 17]).
- Buissonella** CUNHA & MUNIZ 1925 [CI1385: 734]. TS: *B. tapiri* by original designation (& monotypy).
- Buitkampia** FOISSNER 1985 [FOI133: 280]. TS: *Platyophrya angusta* KAHL 1926 by original designation (& monotypy). Synonym of *Platyophrya* (e.g. FOISSNER 1993 [FOI282: 560]).
- Bundleia** CUNHA & MUNIZ 1928 [E00392: 632]. TS: *Buetschlia postciliata* BUNDLE 1895 by original designation (& monotypy). Nominotypical subgenus (Art. 44; Code): STRELKOW (1939 [E00141: 45, 49]).
- Bursalinus** KALMUS 1929 [Z06231: 609]. TS: *B. synspiralis* by monotypy. Synonym of *Fabrea* (e.g. CORLISS 1979 [COR085: 296]).
- Bursaopsis** KOFOID & CAMPBELL 1929 [CI1434: 303]. TS: *Amphorella striata* DADAY 1887 by original designation. Feminine gender according to Article 30.1.2 of the Code. Misspelled "Bursasopsis" in MASSUTI in MASSUTI & MARGALEF (1950 [E01219: 106]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).



Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).

**Bursaria** MÜLLER 1773 [E00132: 62]. TS: *B. truncatella* by subsequent designation by APSTEIN (1915 [Z06263: 122]) (cp. I.C.Z.N. 1928 [E01137: 26]; I.C.Z.N. 1957 [PR1156: 268], name number 1390; I.C.Z.N. 1957 [PR1157: 253], also dated "1774" par lapsus on page 233; MELVILLE & SMITH 1987 [EV0797: 59]). This was overlooked by the revising author (FOISSNER 1993 [FOI282: 423]), who stated that the type species of *Bursaria* was fixed by STEIN (1867 [PR1075: 297]). The later fixing of *Bursaria decora* CLAPARÈDE & LACHMANN 1858 (a junior synonym of *B. truncatella*) as type by FROMENTEL (1875 [E00689: 184]) is invalid (Art. 69.1; Code). Synonyms: *Archiastomata*, *Ypsistoma*. Key to species: FOISSNER (1993 [FOI282: 423]).

**Bursaridium** LAUTERBORN 1894 [PR1091: 398]. TS: *B. schewiakowii* by monotypy. Misdated with "1908" in KAHL (1932 [KAH014: 479]). Revision and key to species: FOISSNER (1993 [FOI282: 471]).

**Bursella** SCHMIDT 1921 [E00624: 1]. Misdated with "1920" in KAHL (1932 [KAH014: 55]). Homonym of *B. TURPIN* 1828, rotifer. Objective synonym of *Bursellopsis* CORLISS 1960.

**Bursellopsis** CORLISS 1960 [COR036: 274]. TS: *Bursella spumosa* SCHMIDT 1920 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Substitute name of the preoccupied *Bursella*. Misspelled "Burselopsis" in OBOLKINA (1995 [E02264: 199]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Rondostoma*. Improved diagnosis: HILLER (1991 [CI1170: 15]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1994 [FOI300: 405], 1999 [FOI450: 371], including key to species); according to these authors a redescription of type species is necessary.

**Bursostoma** VÖRÖSVÁRY 1950 [CI1045: 366]. TS: *B. bursaria* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Redescription of type species: GANNER et al. (1988 [FOI182: 3]).

**Buschiella** CORLISS 1960 [COR036: 274]. TS: *Imperfecta subantarcticum* BUSCH 1948 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 30.1.3, 31.2, 34.2; Code), because the Latin suffix "-ella" is feminine, viz. *Buschiella subantarctica* nom. corr. Substitute name of the preoccupied *Imperfecta*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 185]).

**Buxtonella** JAMESON 1926 [E00246: 182]. TS: *B. sulcata* by monotypy. Suggested as synonym of *Infundibulorium* by CORLISS (1961 [COR113: 125; with question mark]), but treated as valid by HENRIKSEN (1977 [E02114: 452]), HORNER & NEITZ (1981 [E02113: 99]), BAUER (1983 [E02112: 371]), and FOX & JACOBS (1986 [E02115: 90]).

## C

**Cadošina** WANNER 1940 [PR1125: 79]. TS: *C. fusca* by original designation. Treated as foraminifer according to the original description by MASTERS & SCOTT (1978 [E01048: 220]) or as oligotrichid by CORLISS (1979 [COR085: 307]; considered as uncertain), by REHANEK (1985 [E01416: 370]), and by ELIAS & ELIASOVA (1985 [E02118: 105]).

**Cadosinopsis** SCHEIBER 1967 [E00622: 42]. TS: *C. andrusovi* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Uncertain tintinnine (cp. CORLISS 1979 [COR085: 307]). Treated as valid by BORZA (1984 [E02108: 649]).

**Caenomorpha** PERTY 1852 [E00084: 140]. TS: *C. medusala* by monotypy. Synonyms: *Calcaria*, *Gyrocorys*. Redescription of type species: FERNÁNDEZ-GALIANO & FERNÁNDEZ-LEBORANS (1980 [E02109: 5]). Keys to species: CAREY (1992 [LB0008: 164]); OLMO & TELLEZ (1996 [E02048: 66]).

- Caenomorphina* BLOCHMANN 1894 [PR1111: 90]. TS: *C. henrici* by monotypy. Synonym of *Metopus* (e.g. KAHL 1927 [KAH002: 203], 1932 [KAH014: 423]; CORLISS 1961 [COR113: 158]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Calcaria* GRUBER 1879 [CI1406: 549]. TS: *C. contorta* by monotypy. Homonym of *C. PORAT* 1878, myriapod. Synonym of *Gyrocorys* (cp. GRUBER 1879 [CI1406: 552]; spelled "Gyrocyrus", an unavailable subsequent spelling) and subsequently *Caenomorpha* (e.g. BÜTSCHLI 1889 [LB0896: 1730]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Calceolus* DIESING 1866 [Z06262: 379]. TS: *Peridinium cypripedium* CLARK 1865 by monotypy. Substitute name of the preoccupied *Peridinium*. Synonym of *Urocentrum* (e.g. BÜTSCHLI 1889 [LB0896: 1711]; CORLISS 1979 [COR085: 260]).
- Calcisphaerula* BONET 1956 [E00182: 55]. TS: *C. innominata* (for *Lagena sphaerica* KAUFMANN 1865, partim) by original designation.
- "Caligicola". TS: *Trochiloides filsus* FAURÉ-FREMIET & GUILCHER by original designation; incomplete reference to basionym. Masculine gender according to Article 30.1.4.2 of the Code. However, contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Caliperia* LAIRD 1953 [E00586: 117]. TS: *C. longipes* by monotypy.
- Calix* FRAIPONT 1878 [E00691: 510]. Homonym of *C. ROUAULT* 1851, echinoderm. Objective synonym of *Anisarcon* JANKOWSKI 1981. Synonym of *Discophrya* by placement of the type species (e.g. MATTHES 1988 [LB0005: 142]).
- Caloscolex* DOGIEL 1926 [E00394: 250]. TS: *C. camelinus* by monotypy.
- Calospira* CHATTON & LWOFF 1935 [BM0192: 106]. TS: *C. minkiewiczzi* by original designation (& monotypy).
- Calpionella* LORENZ 1902 [CI1408: 60]. TS: *C. alpina* by monotypy. Misspelled "Calpionello" in CITA (1964 [E01179: 229]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Calpionellites* COLOM 1948 [E00161: 243]. TS: *Calpionella darderi* COLOM 1934 by original designation. Masculine gender according to Article 30.1.4.4 of the Code. First mentioned by THALMANN (1942 [E01242: 1837]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]). Improved diagnosis: REHANEK (1988 [CI1609: 740]).
- Calpionelloides* COLOM 1984 [E00496: 314]. TS: *C. irregularis* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code.
- Calpionellopsella* TREJO 1975 [PR1121: 16]. TS: *C. maldonadoi* by original designation (& monotypy).
- Calpionellopsis* COLOM 1948 [E00161: 243]. TS: *Calpionella thalmani* COLOM 1939 by original designation. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Remaniella* (e.g. GRÜN & BLAU 1996 [CI1608: 579]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Calpionellopsites* NAGY 1986 [CI1441: 63]. TS: *C. conicus* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- Calypotricha* PHILLIPS 1882 [CI1231: 476]. TS: *C. pleuronemoides* by monotypy. Synonym: *Diplospyla*.

- "Cameronyctus". TS: *Paranyctotherus albareti* NGASSAM 1983 by monotypy. Substitute name of the preoccupied *Paranyctotherus*. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1986 [CI1574: 389]), thus unavailable.
- Campanella** GOLDFUSS 1820 [E00229: 71]. No type species fixed. Considered as synonym of *Carchesium*, *Opercularia*, *Epistylis* (e.g. EHRENBERG 1838 [EHR010: 277, 281, 290]; BÜTSCHLI 1889 [LB0896: 1766, 1767]), but treated as valid by KAHL (1935 [KAH019: 693]; as subgenus of *Epistylis*), CORLISS (1979 [COR085: 274]), and FOISSNER et al. (1992 [FOI265: 225]).
- Campanuliapium** BANINA in BANINA et al. 1984 [AEB550: 299]. TS: *Glossatella campanulatum* TIMOFEEV 1962 by original designation. Established as subgenus of *Apiosoma*.
- Campbelliella** RADOIČIĆ 1959 [CI1564: 79]. TS: *C. milesi* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]); due to a printing error the genus name is followed by "*oblonga*", which is however not the type species, but a member of the genus *Calpionellopsis*. According to CORLISS (1979 [COR085: 307]) an uncertain tintinnine or part of the body of fossil molluscs. Possibly a nomen dubium.
- Campylodinium** JANKOWSKI 1975 [E00250: 27]. TS: *Amphacanthus ovumrajae* DOGIEL 1926 by monotypy. Substitute name of the preoccupied *Amphacanthus*.
- "Campylodon". TS: *Kolpoda triquetra* MÜLLER 1786 by original designation. Homonym of *Campylodon* FABRICIUS 1793, fish. However, contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). Mandatory change of gender ending would be necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "odus" (tooth) is masculine, viz. "Campylodon" *triquetrus* nom. corr. In addition, considered as synonym of *Chlamydodon* (cp. note in FOISSNER 1993 [FOI282: 87]).
- Campylopus** CLAPARÈDE & LACHMANN 1858 [E00117: 184]. TS: *C. paradoxus* by monotypy. Homonym of *C.* AGASSIZ 1846, coleopteran insect. Synonym of *Uronychia* (e.g. STEIN 1859 [PR1074: 127]; BÜTSCHLI 1889 [LB0896: 1753]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Canellana** JANKOWSKI 1967 [CI1568: 35]. TS: *Thecacineta baicalica* SWARCZEWSKY 1928 by original designation (& monotypy). Synonym of *Acineta* (e.g. CURDS 1985 [E00982: 84]).
- Canthariella** KOFOID & CAMPBELL 1929 [CI1434: 305]. TS: *C. brevis* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Caprinia** MAZZARELLI 1906 [E01029: 205]. Homonym of *C.* D'ORBIGNY 1822, mollusc. Objective synonym of *Capriniana* STRAND 1928.
- Capriniana** STRAND 1928 [CI1594: 31]. TS: *Caprinia aurantiaca* MAZZARELLI 1906 by monotypy, now considered as synonym of *Trichophrya piscium* by MATTHES (1988 [LB0005: 50]). Substitute name of the preoccupied *Caprinia*. Synonym: *Phagobranchium*. Synonym of *Trichophrya* by replacement of type species.
- Caracatharina** KORMOS in CORLISS 1960 [COR036: 271]. TS: *Catharina florea* KORMOS & KORMOS 1958 by monotypy. Superfluous substitute name of *Catharina*, which is not preoccupied. Misdated with "1968" in JANKOWSKI (1981 [CI1416: 112]). Synonym of *Discophrya* (e.g. MATTHES 1988 [LB0005: 129]), i.e. species listed in its original combination.
- Carchesium** EHRENBERG 1831 [EHR002: 93]. TS: *Sertularia polypina* LINNAEUS 1758 by subsequent designation by FROMENTEL (1875 [E00689: 142]). Mandatory change of

- gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "karchesion" (crow's-nest) is neuter, viz. *Carchesium polypinum* nom. corr. APSTEIN (1915 [Z06263: 122]; dated with "1830") proposed the genus as nomen conservandum. Dated with "1831 phys. p. 93 1832" in SCHULZE et al. (1929 [LB0603: 546]). Synonym: *Campanella*. Type species redescribed by ESTEBAN & FERNÁNDEZ-GALIANO (1989 [CI3114: 345]).
- Cardiostoma* KAHL 1928 [KAH004: 101]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *C. SANDBERGER* 1872, mollusc. Objective synonym of *Cardiostomatella* CORLISS 1960.
- Cardiostomatella* CORLISS 1960 [COR036: 274]. TS: *C. vermiformis* (basionym *Cardiostoma vermiforme* KAHL 1928) by original designation (& monotypy). Misspelled "Cardiostomatilla" in EDWARDS & VEVERS (1975 [LB0757: 56]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Substitute name of the preoccupied *Cardiostoma*. Key to marine species: CAREY (1992 [LB0008: 137]).
- Carinichona* JANKOWSKI 1973 [CI1504: 18]. TS: *C. globulus* by original designation (& monotypy).
- Carinoposthium* JANKOWSKI 1980 [CI1013: 118]. TS: *Cycloposthium caudatum* CUNHA by original designation (& monotypy); incomplete reference to basionym.
- Carpistomiosphaera* NOWAK 1968 [PR1180: 320]. TS: *C. borzai* by original designation. Uncertain tintinnine (CORLISS 1979 [COR085: 307]). Treated as valid by REHANEK (1985 [E01416: 375]), ELIAS & ELIASOVA (1985 [E02118: 105]), and BORZA (1986 [E02106: 17]).
- Caryotricha* KAHL 1932 [KAH014: 563]. TS: *C. convexa* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]).
- Caspionella* JANKOWSKI 1980 [CI1013: 119]. TS: *Cyclidium bergeri* AGAMALIEV by original designation (& monotypy); incomplete reference to basionym.
- Catharina* KORMOS & KORMOS 1958 [E00422: 103]. The genus name is not preoccupied as supposed by CORLISS (1960 [COR036: 271]), because *C. DUNKER* 1882 is according to NEAVE (1939 [LB0751: 605]) an incorrect subsequent spelling of the mollusc genus *Katharina* and thus unavailable (Arts. 33.3, 33.5; Code). Objective synonym of *Caracatharina* CORLISS 1960. Synonym of *Discophrya* (e.g. MATTHES 1988 [LB0005: 129]).
- Caudalina* MADHAVA RAO 1929 [E00961: 115]; also misspelled "Caudalinae". No type species fixed. The two species described, namely *C. bangalorensis* and *C. armata*, very likely represent fragments of a hypotrich and a rotifer, respectively. Nomen oblitum in CORLISS (1979 [COR085: 208]). Probably a nomen dubium.
- Caulicola* STOKES 1894 [E00331: 341]. TS: *C. valvata* by monotypy. Feminine gender according to Article 30.1.4.2 of the Code. Misdated with "1895" in TRUEBA (1978 [E01069: 223]). Synonym of *Pyxicola* (e.g. TRUEBA 1978 [E01069: 223]; CORLISS 1979 [COR085: 276]).
- Causella* nomen novum for the preoccupied *Causia*. TS: *C. shtekhovicensis* KOSHEVOJ 1987 by original designation (& monotypy). Derivation: Composition of *Causia* and the Latin diminutive suffix "-ella". Gender: feminine.
- Causia* KOSHEVOJ 1987 [E01415: 20]. Homonym of *C. RHUMBLER* 1938, foraminifer. Both names in current use (cp. Zoological Record (CD-version)). Objective synonym of *Causella* nom. nov.
- Cavichona* JANKOWSKI 1973 [AEB543: 254]. TS: *C. cincinnata* by original designation.
- Celeritia* TUCOLESCO 1962 [E00374: 96]. TS: *C. globosa* by monotypy.
- Centrophorella* KAHL 1933 [KAH015: 65]. Superfluous substitute name for *Kentrophoros* (cp. CORLISS 1960 [COR036: 271]) and thus an objective synonym.

- Centrophorus* KAHL 1931 [KAH012: 203]. Superfluous substitute name for *Kentrophoros* (cp. CORLISS 1960 [COR036: 271]) and thus an objective synonym. Moreover homonym of *Centrophorus* MUELLER & HENLE 1837, fish.
- Cepedella* POYARKOFF 1909 [E00085: 96]. TS: *C. hepatica* by monotypy.
- Cepedietta* KAY 1942 [CI1425: 425]. TS: *C. fibrillata* by monotypy, but see CORLISS et al. (1965 [COR048: 5, 8]) for the complicated nomenclature of this genus. These authors subsequently designated *Haptophrya gigantea* MAUPAS 1879 as type species.
- Cephalorhynchus* DIESING 1866 [CI1490: 507]. TS: *Trachelius laticeps* EHRENBERG 1840 by monotypy. Masculine gender according to Article 30.1.3 of the Code. Homonym of *Cephalorhynchus* GRAY 1846, mammal. Nomen oblitum in BÜTSCHLI (1889 [LB0896: 1774]) and in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Cephalotrichium* MEUNIER 1910 [E00131: 172]. TS: *C. tonsuratum* by monotypy. Synonym of *Strobilidium* (e.g. MAEDA 1986 [E02025: 5]).
- Ceratidium* EHRENBERG 1838 [EHR010: 367]. TS: *C. cuneatum* by monotypy; considered as synonym of *Stylonychia mytilus* (cp. FOISSNER & FOISSNER 1988 [FO1196: 91]). Homonym of *Ceratidium* ALBERTINI & SCHWEINIZ 1805, rhizopod. Nomen oblitum in BÜTSCHLI (1889 [LB0896: 1774]) and in CORLISS (1979 [COR085: 208]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51], dated with "1820"). Probably a fragment of a hypotrichous ciliate (cp. BERGER 1999 [LB1083: 597]). If the genus is resurrected, a new name is necessary.
- Ceratochona* JANKOWSKI 1973 [AEB543: 342]. TS: *C. cimex* by original designation.
- Ceratotintinnus* KOFOID & CAMPBELL 1939 [E00262: 363]. TS: *Tintinnus angustatus* DADAY 1887 by original designation. Established as subgenus of *Eutintinnus*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Certesias* FABRE-DOMERGUE 1885 [E00386: 561]. TS: *C. quadrinucleata* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Key to marine species: CAREY (1992 [LB0008: 199]).
- Chaenea* QUENNERSTEDT 1867 [E00669: 15]. TS: *C. vorax* by monotypy. "Chaenia" and "Choenia", unavailable subsequent spellings for instance used by KENT (1881 [E00073: 521]) and BÜTSCHLI (1889 [LB0896: 1681]), listed as synonyms by CORLISS (1979 [COR085: 215]). Key to marine species: CAREY (1992 [LB0008: 48]; on page 35 he treated the genus as synonym of *Helicoprordon* ignoring priority).
- Chaetospira* LACHMANN 1856 [E00077: 362]. TS: *C. muelleri* by subsequent designation by KAHL (1932 [KAH014: 560]). The basionym "C. mülleri" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Misspelled "Choetospira" in DUMAS (1929 [CI1343: 124], 1937 [E00471: 43]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Archimedeas*, *Stichospira*. Redescription of type species: FOISSNER et al. (1991 [FOI243: 213]).
- Chanostoma* DADAY 1884 [PR1109: 349]. TS: *C. margaritifera* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Charon* JAMESON 1925 [E00245: 403]. Homonym of *C.* KARSCH 1879, arachnid. Objective synonym of *Charonina* STRAND 1928.
- Charonella* BHATIA 1935 [E00400: 13]. This is an unnecessary substitute name for the preoccupied *Charon*, since *Charonina* STRAND 1928 predates BHATIA'S publication (cp. CORLISS 1960 [COR036: 271]), thus the name is an objective synonym.
- Charonina* STRAND 1928 [CI1594: 62]. TS: *Charon ventriculi* JAMESON 1925 by monotypy. Substitute name of the preoccupied *Charon*. Objective synonym: *Charonella*. Revision:

- WOLSKA (1971 [Z06216: 36]). Improved diagnoses: BERGER (1994 [E01577: 193]); GILCHRIST et al. (1994 [E01933: 189], including key to species).
- Charonnautes* STRELKOW 1939 [E00141: 74]. TS: *Charon equi* HSIUNG 1930 by monotypy. Revision: WOLSKA (1971 [Z06216: 35]).
- Chasmatostoma* ENGELMANN 1862 [E00055: 378]. TS: *C. reniforme* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Treated as member of the Glaucomidae by CORLISS (1979 [COR085: 258]), but likely a synonym of *Colpoda* (although not mentioned by FOISSNER (1993 [FOI282], he agreed in personal communication).
- Chattonella* JEPPI 1937 [PR1088: 605]. Homonym of *C. BIECHELER* 1936, flagellate. Objective synonym of *Jeppia* CORLISS 1960.
- Chattonia* DEBAISIEUX 1957 [E00168: 98]. Homonym of *C. MARWICK* 1929, mollusc. Objective synonym of *Terebrospira* DEBAISIEUX 1960.
- Chattonidium* VILLENEUVE 1937 [CI1509: 238]. TS: *C. setense* by monotypy.
- Cheissinella* MEIER 1954 [CI1399: 228]. TS: *C. enchytrei* by original designation (& monotypy). Misspelling "Cheissiniella" listed as synonym in CORLISS (1961 [COR113: 143]; 1979 [COR085: 271]), but in fact unavailable (Arts. 33.3, 33.5; Code). Synonym of *Juxtaradiophrya* (e.g. CORLISS 1961 [COR113: 143]) or *Radiophrya* (e.g. CORLISS 1979 [COR085: 271]).
- Cheissinia* CHATTON & LWOFF 1949 [E02099: 223]. TS: *Tiarella baicalensis* CHEISSIN 1931 by monotypy. Substitute name of the preoccupied *Tiarella*. Revision: RAABE (1970 [Z06217: 170]). Originally two "forms", i.e. *Cheissinia baicalensis typica* and *C. b. elongata*, were included, which have to be treated as subspecies according to Article 45.6.4 of the Code. However, since the nominotypical subspecies is denoted by the same species-group name as the species, the correct name is *C. baicalensis baicalensis* with *C. baicalensis typica* as objective synonym (Art. 47.1; Code).
- Cheissiniophrya* PUYTORAC & DRAGESCO 1969 [CI1234: 22]. TS: *C. knoeppfleri* by monotypy. Revision: PUYTORAC (1972 [CI1224: 25]).
- Chervurtskella* KOSHEVOJ 1987 [E01414: 125]. TS: *C. kolskiensis* by original designation (& monotypy).
- Chilenophrys* JANKOWSKI 1986 [CI1525: 77]. TS: *C. allendei* by original designation (& monotypy).
- Chilodina* ŠRÁMEK-HUŠEK 1957 [E00140: 9]. TS: *C. silesiaca* by original designation (& monotypy).
- Chilodochona* WALLENGREN 1895 [E00347: 49]. TS: *C. quennerstedti* by subsequent designation herein. Described twice as new genus by WALLENGREN (1895 and 1896 [E00635: 547]). KAHL (1935 [KAH019: 802]) considered the second originally included species, *C. microchilus* as degenerated form and probable synonym of *C. quennerstedti*, thus I fix the latter as type species of the genus.
- Chilodon* EHRENBERG [1834] [EHR003: 287]; note separate differently paginated (cp. [EHR081: 143]). EHRENBERG (1838 [EHR010: 336]) stated 1831 as year of establishment of the species, but only cited his paper of [1834] (see above). Also spelled "Euodon" on page 169, which is according to EHRENBERG (1838 [EHR010: 337]) an incorrect subsequent spelling of *Chilodon cucullus*, however, listed as nomen oblitum in CORLISS (1979 [COR085: 208]). APSTEIN (1915 [Z06263: 122]) proposed the genus as nomen conservandum. Homonym of *C. EHRENBERG* 1831, mollusc. Misdated with "1838" in CAREY (1992 [LB0008: 117]). Misspelled "Chelidon" in KLEIN & MISSRIEGLER (1933 [KLE030: 53]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Objective synonym of *Chilodonella* STRAND 1928.

- Chilodonatella*** DRAGESCO 1966 [CI1050: 191]. TS: *C. minuta* by original designation (& monotypy). Improved diagnosis and redescription of type species: BECARES & FOISSNER (1994 [FOI307: 528]).
- Chilodonella*** STRAND 1928 [CI1594: 31]. TS: *C. uncinata* (basionym *Chilodon uncinatus* EHRENBERG 1838) by subsequent designation (author not researched). Substitute name of the preoccupied *Chilodon*. Misdated with "1926" in KAHL (1931 [KAH012: 234]) and BHATIA (1936 [CI1030: 132]). Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 45]). Key to marine species: CAREY (1992 [LB0008: 117]); ascribed to "EHRENBERG 1835").
- Chilodontopsis*** BLOCHMANN 1895 [E00111: 94]. TS: *C. depressa* (basionym *Chilodon depressus* PERTY 1852) by monotypy. Misspelled "Chilodontapsis" in KAHL (1928 [KAH005: 223]) and "Chilodonopsis" in CORLISS (1979 [COR085: 227]); misspelling "Chlamyodontopsis" listed as synonym in CORLISS (1961 [COR113: 128], 1979 [COR085: 225]), but incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Eucamptocerca*. Key to marine species: CAREY (1992 [LB0008: 110]); incorrect authorship, viz. "(BLOCHMANN 1895) DEROUX 1978". Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 424]).
- Chilophrya*** KAHL 1930 [KAH008: 64]. TS: *Prorodon utahensis* PACK 1919 by original designation.
- Chitinoidea*** DOBEN 1963 [CI1424: 42]. TS: *C. boneti* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]); dated with "1962", the date of the unpublished thesis. Improved diagnosis: POP (1997 [CI1613: 933]).
- Chitonella*** SMALL & LYNN 1985 [Z06206: 480]. TS: *C. chesapeakeensis* by monotypy.
- Chlamydobundleia*** STRELKOW 1939 [E00141: 45]. TS: *Bundleia* (*Chlamydobundleia*) *elongata* by original designation (& monotypy). Established as subgenus of *Bundleia*.
- Chlamydon*** EHRENBERG 1835 [EHR005: 175]. TS: *Chlamidodon mnemosyne* by monotypy. Original spelling *Chlamidodon* emended by AGASSIZ (1846 [E00987]) according to NEAVE (1939 [LB0751: 703]) and in prevailing usage, thus a justified emendation (Art. 33.2.3.1; Code). Misspelled "Clamidodon" in FROMENTEL (1875 [E00689: 169]) and DUMAS (1929 [CI1343: 96]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1837" for instance in STRAND (1928 [CI1594: 31]), KAHL (1931 [KAH012: 229]), and DEROUX (1994 [Z06325: 416]). Key to marine species: CAREY (1992 [LB0008: 119]). Redescription of type species: ALEKPEROV & ASADULLAYEVA (1997 [CI1653: 1412]).
- "Chlamyodontopsis". GHOSH (1921 [E00409: 8]) ascribed this genus name to "BLOCHMANN 1895", very likely erroneously for *Chilodontopsis* BLOCHMANN 1895 (cp. KAHL 1931 [KAH012: 225]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- "Chlamydonarcus". TS: "*C. symetrica*" by monotypy. Contained in an unpublished work (Art. 9.9; Code) of BAUER (1978 [E00402: 40]), thus unavailable. Mandatory change of gender ending would be necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Latin "arcus" (curve, arch) is masculine, viz. "*C. symmetricus*".
- Chlamydonella*** PETZ, SONG & WILBERT 1995 [CI1432: 62]. TS: "*Chlamydonella pseudochilodon* DEROUX 1970 by original designation. DEROUX (1970 [CI1471: 159]) established the genus with two species, both accompanied by "n.g., n.sp.", but non designating as type, thus it is a nomen nudum (Art. 13.3; Code). His later designation (cp. DEROUX 1978 [E00493: 89]) is unavailable due to its unpublished status (Arts. 8, 9; Code). In the Zoological Record of 1970 (page 264) the type species is incorrectly stated as "*C. pseudochiloden* [sic]". Improved diagnosis: SONG & WILBERT 2000 [CI1679: 213]; ascribed to "DEROUX in PETZ et al.").

- Chlamydonellopsis*** BLATTERER & FOISSNER 1990 [FOI223: 94]. TS: *C. plurivacuolata* by original designation. Feminine gender according to Article 30.1.2 of the Code. Redescription of type species: FOISSNER et al. (1991 [FOI243: 110]).
- Chlamydonyx*** DEROUX 1976 [E00181: 518]. TS: *C. paucidentatus* by monotypy. "Chlamydotecta". Contained in an unpublished work (Arts. 8, 9; Code) of BAUER (1978 [E00402: 43]). Moreover no type species fixed (Art. 13.3; Code), thus unavailable.
- Choanophrya*** HARTOG 1902 [E00148: 373]. TS: *Podophrya infundibulifera* HARTOG 1881 by monotypy. Redescription of type species: SCHÖDEL (1989 [E01782: 28]).
- Choanostoma*** WANG 1931 [CI1489: 105]. TS: *C. pingi* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Doubtful status according to CORLISS (1961 [COR113: 124]), however, treated as valid in 1979 (cp. [COR085: 217]). Possibly a nomen dubium.
- Chonosaurus*** JANKOWSKI 1973 [CI1504: 23]. TS: *C. rex* by original designation (& monotypy)
- Chromatophagus*** KERBERT 1884 [CI1445: 44]. TS: *C. parasiticus* by monotypy. Synonym of *Ichthyophthirius* (e.g. KAHL 1930 [KAH008: 53]; CORLISS 1961 [COR113: 144]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Chromidina*** GONDER 1905 [E00564: 240]. No type species fixed. Substitute name of the preoccupied *Bendenia*.
- Chytridium*** EBERHARD 1862 [CI1475: 20]. TS: *C. steinii* by monotypy. Synonym of *Didinium* (e.g. BÜTSCHLI 1889 [LB0896: 1688]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Cichlidotherus*** AFFA'A 1989 [CI1646: 81]. TS: *C. meanjae* by monotypy.
- Ciliofaurea*** DRAGESCO 1960 [CI1285: 222]. TS: *Faurea arenicola* DRAGESCO 1954 by original designation (& monotypy). Substitute name of the preoccupied *Faurea*. Key to marine species: CAREY (1992 [LB0008: 99]); incorrect citation of authorship, viz. "(DRAGESCO 1952) DRAGESCO 1960".
- "Ciliomorgania". Recorded only once as synonym of *Peniculistoma* by CORLISS (1979 [COR085: 266]). No further information available, likely a nomen nudum (Art. 13.1; Code).
- Ciliospina*** LEEGAARD 1915 [E00588: 32]. TS: *C. norvegica* by monotypy. Considered as nomen dubium by AGATHA & RIEDEL-LORJÉ (1997 [CI1629: 458]).
- Cinetochilum*** PERTY 1849 [CI1595: 29]. TS: *Cyclidium margaritaceum* EHRENBERG 1831 by monotypy. Misdated with "1852" in CAREY (1992 [LB0008: 138]). However, PERTY (1852 [E00084: 148]) again indicated the genus as new in his monograph. Misspelled "Cynetochilum" in KLEIN (1926 [KLE002: 263]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Key to marine species: CAREY (1992 [LB0008: 138]). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 249]).
- Cinetoconia*** RENAULT & ROCHE 1898 [E00138: 213]. TS: *C. crassa* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]; ascribed to "RENAULT 1903"). Very likely not a ciliate at all (cp. CORLISS 1979 [COR085: 312]); here considered as nomen dubium.
- Cinetozonea*** OLMO, TELLEZ & ESTEBAN 1998 [Z06368: 448]. TS: *C. pyriformis* by original designation (& monotypy).
- Circinella*** FOISSNER 1994 [FOI305: 156]. TS: *C. arenicola* by original designation (& monotypy).
- Circodinium*** WOLSKA 1971 [Z06215: 185]. TS: *Triadinium minimum* GASSOVSKI 1918 by monotypy.



- Circolagenophrys* JANKOWSKI 1980 [CI1013: 119]. TS: *Lagenophrys ampulla* STEIN 1851 by original designation (& monotypy). Synonym of *Lagenophrys* (e.g. CLAMP 1991 [CI1115: 358]).
- Cirranter* JANKOWSKI 1964 [CI1418: 508]. TS: *Trochella mobilis* PENARD 1922 by monotypy. Substitute name of the preoccupied *Trochella*. Infraciliature of type species: SOLA et al. (1992 [Z01495: 52]). Revision: OLMO & TELLEZ (1996 [E02048: 66]).
- Cirrhogaster* OZAKI & YAGIU 1942 [E00303: 79]. TS: *C. monilifer* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Misdated with "1941" in TUFFRAU & FLEURY (1994 [Z06341: 114]). Synonym of *Gastrocirrhus* (e.g. CURDS & WU 1983 [E02101: 231]).
- Cirrophrya* GELLÉRT 1950 [CI1470: 295]. TS: *C. haptica* by monotypy. Revision and key to species: FOISSNER (1993 [FOI282: 592]), who noted that all species are extremely rare and require redescription.
- "Cirrothigma". TS: *Parachilodonella distyla* WILBERT by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Cladotricha* GAJEWSKAJA 1926 [E00020: 255]. TS: *C. koltzowi* by subsequent designation by JANKOWSKI (1979 [CI1188: 51], misdated "1925"). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]), who synonymized the type species with *Uroleptus packi* (CALKINS 1919). A decision not followed by BORROR & EVANS (1979 [CI1192: 52]).
- Claparedia* DIESING 1866 [CI1511: 98]. TS: *Oxytricha retractilis* CLAPARÈDE & LACHMANN 1858 by subsequent designation by JANKOWSKI (1979 [CI1188: 51]). Homonym of *Claparedia* QUATREFAGES 1865 [1866], polychaete. Nomen oblitum in CORLISS (1979 [COR085: 208]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 51]). Synonym of *Epiclintes* (e.g. KENT 1882 [E00074: 773]; BÜTSCHLI 1889 [LB0896: 1742]). Redescription of type species and synonymy with *Uroleptus*: SONG & WARREN (1996 [CI1576: 228]).
- Clara* EIGNER 1997 [CI1588: 568]. Homonym of *C.* GILL 1862, fish. Objective synonym of *Tetmemena* EIGNER 1999.
- Claretinella* KEIJ 1974 [CI1429: 342]. TS: *C. helenae* by original designation (& monotypy).
- Clathrostoma* PENARD 1922 [E00134: 143]. TS: *C. viminale* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Misspelled "Clathratostoma" in FOISSNER et al. (1999 [FOI450: 38]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Clausilocola* LOM 1959 [CI1379: 134]. TS: *C. apostropha* by monotypy. Feminine gender according to Article 30.1.4.2 of the Code.
- Clausophrya* NAIDENOVA & ZAIKA 1969 [CI1401: 98]. TS: *C. oblida* by monotypy. Synonym of *Ellobiophrya* (e.g. CLAMP 1982 [CI1329: 155]).
- Claustrofolliculina* HADŽI 1951 [E00001: 147]. TS: *C. clausa* by monotypy.
- Clevea* BALECH 1948 [E00388: 21], also spelled "Cleves" in the legend to plate 8, probably par lapsus. TS: *C. melchersi* by monotypy. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Clevelandella* KIDDER 1938 [Z06259: 69]. TS: *Clevelandia panesthiae* KIDDER 1937 by subsequent designation by EARL (1972 [Z06222: 256]). Substitute name of the preoccupied *Clevelandia*. Senior homonym (by only sixteen days!) of *Clevelandella* RESSER, 1938, name of a genus of fossil trilobites (cp. CORLISS 1960 [COR036: 271]). Improved diagnosis: EARL (1972 [Z06222: 256]).

- Clevelandia* KIDDER 1937 [E00259: 190]. Homonym of *C. EIGENMANN & EIGENMANN* 1888, fish. Objective synonym of *Clevelandella* KIDDER 1938.
- Climacocylis* JÖRGENSEN 1924 [E00252: 76]. TS: *Cyrtarocylis (Coxliella) scalarius* BRANDT 1906) by monotypy. Masculine gender according to Article 30.2.3 of the Code. Misspelled "Climacocyclis" in HALL (1953 [E01203: 391]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 92]).
- Climacostomum* STEIN 1859 [PR1074: 55]. TS: *Spirostomum virens* EHRENBERG 1833 by monotypy; nomenclature of type species see FOISSNER (1987 [FOI173: 227]). STEIN (1867 [PR1075: 208]) gave a more detailed characterization. Misdated with "1868" in KAHL (1932 [KAH014: 459]). Redescription of type species: AUGUSTIN & FOISSNER (1992 [FOI251: 261]). Key to marine species: CAREY (1992 [LB0008: 160]).
- Clistolagenophrys* CLAMP 1991 [CI1115: 359]. TS: *Lagenophrys primitiva* SWARCZEWSKY 1930 by original designation.
- Clypeolum* GOURRET & ROESER 1888 [E00330: 145], also spelled "Clypoleum" on page 169, an unavailable incorrect original spelling (Art. 19.3; Code). TS: *C. corsicum* by monotypy. Homonym of *C. RÉCLUZ* 1842, mollusc. Preoccupied name, which has fallen as junior synonym of *Strombidium* (e.g. KAHL 1932 [KAH014: 497]; CORLISS 1960 [COR036: 269]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Clypta* GISTEL 1848 [E00998: 9]; author name also spelled GISTL. Superfluous substitute name of the preoccupied *Euploea*, because the homonym has already been replaced, therefore an objective synonym of *Euplotes*.
- Coccludina* BORY 1824 [Z05029: 540]. No type species fixed. Described two times as new genus by BORY (1824, also in 1825 [E02240: 543]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 52]; ascribed to "DUJARDIN 1841" with the type species *C. costata*). Synonym of *Euplotes* partim (e.g. EHRENBERG 1838 [EHR010: 381]; BÜTSCHLI 1889 [LB0896: 1752]), *Aspidisca* partim (e.g. BÜTSCHLI 1889 [LB0896: 1754]; JANKOWSKI 1979 [CI1188: 52]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Cochlearia* FAURÉ-FREMIET 1905 [CI1514: 432]. No type species fixed. Homonym of *C. BRUGIÈRE* 1789, mollusc and BRAUN 1841, mollusc. Synonym of *Opercularia* partim and *Propyxidium* partim (e.g. CORLISS 1979 [COR085: 274]).
- Cochliatoxum* GASSOVSKY 1919 [E00880: 33]. TS: *C. periachtum* by monotypy. Misspelling "Cochliotoxon" listed as synonym in CORLISS (1979 [COR085: 222]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Cochliella* JÖRGENSEN 1924 [E00252: 72]. Superfluous substitute name for *Coxliella* (Art. 44.1; Code), already recognized by KOFOID & CAMPBELL (1929 [CI1434: 95]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Cochliodomus* RAABE 1971 [Z06219: 142]. TS: *Cochliophilus oncomelaniae* TCHANG 1957 by original designation (& monotypy). Feminine gender according to Article 30.1.1 of the Code.
- Cochliophilus* KOZLOFF 1945 [CI1273: 95]. TS: *C. depressus* by original designation. Revision: RAABE (1971 [Z06219: 140]).
- Codonaria* KOFOID & CAMPBELL 1939 [E00262: 55]. TS: *Cyrtarocylis cristellula* FOL 1884 by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Codonella* HAECKEL 1873 [E00816: 564]. TS: *C. galea* by subsequent designation by BRANDT (1907 [E00188: 14]). Misspelled "Condella" in ENTZ (1909 [E01188: 102]), viz.

- an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 51]).
- Codonelloides** KOFOID & CAMPBELL 1939 [E00262: 69]. TS: *Codonellopsis contracta* KOFOID & CAMPBELL 1929 by original designation. Feminine gender according to Article 30.1.4.4 of the Code. Established as subgenus of *Codonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Codonellopsis** JÖRGENSEN 1924 [E00252: 98]. TS: *Codonella orthoceras* HAECKEL 1873 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 73]). Feminine gender according to Article 30.1.2 of the Code. Misspelled "Codonolepsis" in ATHANASSOPOULOS (1931 [E01171: 19]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Micropoculum*. Revision: KOFOID & CAMPBELL (1929 [CI1434: 73]). Nominotypical subgenus (Art. 44; Code): KOFOID & CAMPBELL (1939 [E00262: 69]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]). Key to marine species: YOO & KIM (1990 [E02095: 96]).
- Codonopsis** KOFOID & CAMPBELL 1939 [E00262: 60]. TS: *Cyttarocyclus ollula* BRANDT 1906 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- "Coeloperix". TS: "C. diremptum" by monotypy. Contained in the doctoral thesis of DEROUX (1978 [E00493: 108]), thus an unpublished work (Art. 9.9; Code). The author dates this genus with 1976, obviously a misprint.
- Coelophrya** PUYTORAC & DRAGESCO 1969 [CI1234: 12]. TS: *C. roquei* by monotypy. First mentioned in an abstract by PUYTORAC & DRAGESCO (1968 [E00609: 42]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Fully characterized one year later (see above). Revision: PUYTORAC (1972 [CI1224: 27]).
- Coelosoma** ANIGSTEIN 1912 [E00164: 137]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *C. AMEGHINO* 1891, mammal. Objective synonym of *Coelosomides* STRAND 1928.
- Coelosomides** STRAND 1928 [CI1594: 31]. TS: *Coelosoma marina* ANIGSTEIN 1912 by monotypy. Feminine gender according to Article 30.1.4.4 of the Code. Substitute name of the preoccupied *Coelosoma*. Misdated with "1926" in KAHL (1930 [KAH008: 180]). Incorrectly ascribed to "ANIGSTEIN 1912" in GRAIN (1994 [Z06201: 324]). Key to marine species: CAREY (1992 [LB0008: 105]).
- Coelothigma** PUYTORAC 1969 [E00086: 264]. TS: *Ptychostomum canalis* KATASHIMA 1952 by original designation (& monotypy). PUYTORAC (1969 [E00086: 264, 274]) incorrectly reports "MIYASHITA 1951" as author of the species. Revision: RAABE (1972 [Z06221: 161]; misdated "1968").
- Cohnilembus** KAHL 1933 [KAH015: 82]; "nom. n." repeated by KAHL (1935 [KAH019: 835]). TS: *Lembus velifer* COHN 1866 by monotypy, now considered as synonym of *C. verminus* (basionym *Vibrio verminus* MÜLLER 1786) (e.g. BÜTSCHLI 1889 [LB0896: 1714]; KAHL 1931 [KAH012: 369]). Substitute name of the preoccupied *Lembus* COHN 1866. In the text KAHL misdated *Lembus* with "1865", but the reference is correctly dated as 1866. KAHL (1931 [KAH012: 372]) treated *Sparotricha* ENTZ 1879 as synonym of *Lembus* ignoring priority by establishing a new replacement name in 1933. Since *Cohnilembus* is a widely used name a reversal of precedence is required (cp. CORLISS 1960 [COR036: 270]). Synonym: *Proboscella*. Key to marine species: CAREY (1992 [LB0008: 135]). Redescription of type species of *C. verminus*: HU et al. (1996 [E01984: 184]).

- Coleps*** NITZSCH 1827 [E00598: 69]. TS: *C. hirtus* (basionym *Cercaria hirta* MÜLLER 1786) by monotypy. Misdated with "1817" for instance in KAHL (1930 [KAH008: 131]), BHATIA (1936 [CI1030: 96]), and DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 141]); concerning the misleading date see FOISSNER (1987 [FOI173: 220]). Synonyms: *Craterina partim*, *Cricocoleps*, *Diceratella partim*, *Dictyocoleps*, *Nolandia*, *Pinacocoleps partim*. Revision: NOLAND (1925 [E02210: 3]); CHARDEZ (1976 [E02212: 3]). Key to marine species: CAREY (1992 [LB0008: 44]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1994 [FOI300: 382], 1999 [FOI450: 273]).
- Colligocineta*** KOZLOFF 1965 [CI1268: 333]. TS: *C. furax* by monotypy. Revision: RAABE (1970 [Z06218: 438]).
- Collinella*** CHATTON & PÉRARD 1919 [E00220: 10]. Homonym of *C. SCHMIDT* 1879, sponge. Objective synonym of *Collinina* CHATTON & PÉRARD 1924.
- Collinia*** CÉPÈDE 1910 [E00205: 578]. No type species fixed.
- Collinina*** CHATTON & PÉRARD 1924 [E00011: 347]. TS: *Collinella gondii* CHATTON & PÉRARD 1919 by original designation (& monotypy). Substitute name of the preoccupied *Collinella*.
- Collinophrya*** KAHL 1934 [KAH018: 223]. TS: *C. dimorpha* by monotypy. Synonym of *Lecanophrya* (e.g. JANKOWSKI 1973 [CI1572: 31]; CORLISS 1979 [COR085: 237]).
- Colobidium*** PERTY 1852 [E00084: 148]. TS: *C. pellucidum* by monotypy. Nomen oblitum in CLAPARÈDE & LACHMANN (1858 [E00117: 72]) and DIESING (1866 [CI1490: 538]). Not recorded in CORLISS (1979 [COR085]).
- Colomiella*** BONET 1956 [E00182: 42]. TS: *C. mexicana* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Colomisphaera*** NOWAK 1968 [PR1180: 321]. TS: *Fibroasphaera minutissima* COLOM 1935 by original designation; basionym also spelled *Fibrosfera*. Uncertain tintinnine (cp. CORLISS 1979 [COR085: 307]). Treated as valid, however, for instance by REHANEK (1984 [E02107: 179]) and by BORZA (1986 [E02106: 17]).
- Colpidium*** STEIN 1860 [E00098: 47]. TS: *Paramecium colpoda* (basionym *Paramaecia kolpoda* sensu LOSANA 1829 and not *Paramecium kolpoda* of EHRENBERG 1831) by monotypy; placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 2389). Placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 33], name number 1908). Synonym: *Doyerius*. Revisions: FOISSNER & SCHIFFMANN (1978 [FOI045: 21]); GANNER & FOISSNER (1989 [FOI214: 191]), including redescription of type species; for the latter see also FOISSNER et al. (1994 [FOI300: 43]).
- Colpoda*** MÜLLER 1773 [E00132: 56]. TS: *Kolpoda cucullus* by designation by TAYLOR & FURGASON (1938 [BM1304: 321]); placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 2390). Placed on the "Official List of Generic Names in Zoology" and emendation of *Kolpoda* to *Colpoda* validated under the plenary powers by the I.C.Z.N. (1970 [CI1520: 33], name number 1909) (cp. MELVILLE & SMITH 1987 [EV0797: 71]), this was overlooked by the revising author FOISSNER (1993 [FOI282]). The original spelling *Kolpoda* was placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1969). Misdated with "1786" in KAHL (1931 [KAH012: 273]). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Synonyms: *Chasmatostoma*, *Paracolpoda*, *Pseudocolpoda*, *Repoma*, *Tillina*. Revision and key to species: FOISSNER (1993 [FOI282: 84]). For the type species, FOISSNER (on page 149) incorrectly cited GMELIN (1790 [E01008: 3894]), who only emended the spelling of the genus, as combining author of *Colpoda cucullus*. However, justified emendations retain the authorship and date of the original spelling (Arts. 19.2,

32.2.2, 33.2.2, 50.4; Code) and parentheses are not used around authors' names in changed combinations (Art. 51.3.1; Code).

**Colpodidium** WILBERT 1982 [CI1305: 291]. TS: *C. caudatum* by monotypy. Synonym: *Foissneria*. Improved diagnosis and redescription of type species: FOISSNER (1995 [FOI338: 53]).

**Colpodopsis** GOURRET & ROESER 1888 [E00330: 156]. TS: *C. latifrons* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Platynematum* (e.g. FOISSNER et al. 1994 [FOI300: 256]).

**Cometodendron** SWARCZEWSKY 1928 [Z06229: 54]. No type species fixed.

**Committosphaera** REHANEK 1985 [E01416: 376]. TS: *C. sublapidosa* by original designation.

**Compactum** HIRSHFIELD, ISQUITH & BHANDARY 1965 [E00811: 139]. TS: *Blepharisma hyalinum* PERTY 1849 by original designation; incomplete reference to basionym. Established as subgenus of *Blepharisma*. In the summary on page 136 *B. (C.) hyalinum* PERTY was designated as type species, while in the text (p. 139) *B. (C.) lateritium* EHRENBERG was cited. According to the "position precedence" of Recommendation 69A.10 of the Code, the first mentioned species is the type species. Subgeneric name not in current use.

**Composomella** SMALL & LYNN 1985 [Z06206: 537]. TS: *C. psammobia* by monotypy.

**Conchacineta** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta constricta* COLLIN by original designation (& monotypy); incomplete reference to basionym. Improved diagnosis and key to species: CURDS (1985 [E00982: 114]).

**Conchophrys** CHATTON 1911 [E00009: 14]. TS: *C. davidoffi* by monotypy.

**Conchophthirus** STEIN 1861 [E00328: 87]. TS: *Leucophrys anodontae* EHRENBERG 1838 by monotypy. Original spelling *Conchophthirus* emended by STEIN (1867 [PR1075: 64, 336]) without reason, the later spelling prevailed (e.g. KENT 1881 [E00073: 490]; not explicitly stated; CORLISS 1979 [COR085: 266])(Art. 33.2.3.1; Code). Synonyms: *Kidderia*, *Morgania*, *Peripheres*. Revision: RAABE (1971 [Z06219: 144]).

**Conchophyllum** RAABE 1936 [BM1070: 425]. TS: *Conchophthirus caryoclada* KIDDER 1933 by monotypy. Revision: RAABE (1971 [Z06219: 138]).

**Conchoscutum** RAABE 1947 [E00310: 62]. TS: *C. inversum* by monotypy. Revision: RAABE (1971 [Z06219: 161]).

**Conchostoma** FAURÉ-FREMIET 1963 [E00202: 193]. TS: *C. longissimum* by monotypy. Neuter gender according to Article 30.1.2 of the Code.

**Condylostentor** JANKOWSKI 1978 [CI1413: 39]. TS: *Stentor auriculatus* KAHL 1932 by monotypy, now considered as synonym of *Condylostoma auricula* (cp. FOISSNER & WÖLFL 1994 [FOI304: 267]). Synonym of *Condylostoma* by placement of the type species.

**Condylostoma** BORY 1824 [Z06515: 478 and Z05029: 531]. TS: *Kondyliostoma patensis* by subsequent designation by FROMENTEL (1875 [E00689: 177]). Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary, viz. *Condylostoma patense*. Described three times as new genus by BORY (1824, 1825 [E02238: 138], 1836 [E02255: 138]). Original spelling *Kondyliostoma* emended by EHRENBERG (1838 [EHR010: 314]) (cp. CORLISS 1979 [COR085: 296]) and in prevailing usage, thus a justified emendation (Art. 33.2.3.1; Code). DUJARDIN (1841 [CI1202: 516]) used "Kondyliostoma"; according to STEIN (1867 [PR1075: 172]) perhaps erroneously. Misspelled "Codyliostoma" in OKEN (1827 [PR1182: 881]) and "Kondyliostoma" in FROMENTEL (1875 [E00689: 177]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1826" in NEAVE (1939 [LB0752: 833]), JANKOWSKI (1978 [CI1413: 40], 1979 [CI1188: 72]), CAREY (1992 [LB0008:

- 157]), CORLISS (1979 [COR085: 296]), and SONG & WANG (1999 [Z06464: 71]). Incorrectly ascribed to "EHRENBERG 1831" in JANKOWSKI (1978 [CI1413: 40]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]). Synonym: *Condylostentor*. Key to marine species: CAREY (1992 [LB0008: 157]).
- Condylostomides*** SILVA NETO 1994 [CI1420: 149]. TS: *C. grolieri* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code.
- Coniapium*** BANINA in BANINA et al. 1984 [AEB550: 302]. TS: *Apiosoma longiciliare* MYTENEV 1975 by original designation. Established as subgenus of *Apiosoma*.
- Coniarcella*** KEIJ 1969 [PR1095: 7]. TS: *Yvonniellina (Coniarcella) oedelemensis* by original designation. Established as subgenus of *Yvonniellina*, but considered as its synonym by CORLISS (1979 [COR085: 304]).
- Coniculostomum*** NJINÉ 1979 [CI1380: 353]. TS: *Laurentia monilata* DRAGESCO & NJINÉ 1971 by monotypy (incorrectly treated as new species in the Zoological Record (CD-version)). Misdated with "1978" in KAMRA & SAPRA (1990 [Z01020: 276]) and TUFFRAU & FLEURY (1994 [Z06341: 141]), possibly referring to the unpublished thesis of NJINÉ (1978 [E02152]). Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "stoma" (mouth, opening) is neuter, viz. *Coniculostomum monilatatum* nom. corr. Objective synonym: *Laurosticha*. Redescription of type species: KAMRA & SAPRA (1990 [Z01020: 276]). Improved diagnoses: KAMRA et al. (1994 [CI1458: 63]); EIGNER (1995 [CI1456: 363]); BERGER & FOISSNER (1997 [FOI445: 149]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 606]), who mentioned the misspellings "Conicyclostomum" and "Cuniculostomum".
- Conidophrys*** CHATTON & LWOFF 1934 [CI1388: 696]. TS: *C. pilisuctor* by monotypy. Misspelled "Conidiophrys" e.g. by SMALL & LYNN (1985 [Z06206: 605]); CORLISS (1979 [COR085: 236]) listed "Conidophrya" as synonym, both are incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Considered as synonym of *Mycodinium* by JANKOWSKI (1989 [E00414: 86]; previously regarded by error as dinoflagellate), which would be the senior name. However, widely treated as valid (e.g. CORLISS 1979 [COR085: 236]; Zoological Record (CD-version)).
- Coniocylis*** FOL 1881 [CI1422: 22]. TS: *Tintinnus campanula* EHRENBERG 1840 by monotypy. Described twice as new genus by FOL in the same year (cp. also [CI1443: 248], but see note to reference; overlooked by LOEBLICH & TAPPAN (1968 [CI1533: 186]). Misspelled "Coniocyclis" in KENT (1881 [E00073: 610]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]). Synonym of *Tintinnopsis* (e.g. BÜTSCHLI 1889 [LB0896: 1735]; CORLISS 1979 [COR085: 304]).
- Conocladium*** SCHRÖDER 1914 [E00433: 336]. TS: *C. umbellatum* (STEIN) by monotypy; incomplete reference to basionym.
- Conocylis*** MEUNIER 1910 [E00131: 146]. No type species fixed. Synonym of *Laboea partim* and subsequently *Strombidium partim* (e.g. KAHL 1932 [KAH014: 499]; CORLISS 1979 [COR085: 302]).
- Contophrya*** PUYTORAC & DRAGESCO 1969 [CI1234: 11]. TS: *C. chachoni* by original designation (& monotypy). First mentioned in an abstract by PUYTORAC & DRAGESCO (1968 [E00609: 42]), thus contained in an unpublished work (Art. 9.9; Code) and unavailable. Fully characterized one year later (see above). Revision: PUYTORAC (1972 [CI1224: 31]).
- Convallarina*** BORY 1823 [E02263: 412]. No type species fixed. Described two times as new genus by BORY (1823, 1824 [Z06508: 208]). Synonym of *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 270, 290]).
- Copemetopus*** VILLENEUVE-BRACHON 1940 [E00104: 36]. TS: *C. subsalsus* by monotypy.

- Corralocolpoda** ALEKPEROV 1991 [CI1147: 125]. TS: *C. pacifica* by original designation. Synonym: *Anictostoma*. Improved diagnosis: FOISSNER (1993 [FOI282: 311]), who already noted that the spelling "Corralocolpoda" in the English summary of ALEKPEROV is obviously a typographical error.
- Cordylosoma** ROTH 1909 [E00619: 603]. TS: *C. glabrum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Described twice as new genus by ROTH (1909 and 1913 [EVB077: 37]). Homonym of *C. VOIGT* 1904, rotifer. Preoccupied name, which has fallen as junior synonym of *Glossatella* (e.g. KAHL 1935 [KAH019: 668]; CORLISS 1960 [COR036: 269]) and consequently *Apiosoma* (e.g. CORLISS 1961 [COR113: 155]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Corethria** WRIGHT 1859 [E00683: 101]. TS: *C. sertulariae* by monotypy. Synonym of *Ophryodendron* (e.g. BÜTSCHLI 1889 [LB0896: 1933]). Without new data JANKOWSKI (1978 [CI1415: 494]) designated a new family.
- Coriplites** FOISSNER 1988 [FOI194: 93]. TS: *C. terricola* by original designation (& monotypy).
- "Corixicola". TS: *Opercularia coronata* LUST 1950 by original designation (& monotypy). Downgraded to a subgenus of *Opercularia* by JANKOWSKI (1985 [CI1417: 95]). However, contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]), thus unavailable.
- Corlissetta** JANKOWSKI 1986 [CI1525: 74]. TS: *C. anivica* by original designation (& monotypy).
- Corlissia** DRAGESCO 1954 [CI1052: 65]. TS: *Corlissia picta* DRAGESCO 1954 by monotypy. A justified emendation of the incorrect original spelling *Corlissia* formed by DRAGESCO (1954 [CI1052: 65], 1960 [CI1285: 246]; cp. Arts. 19.2, 32.5, 33.2.2, 50.4; Code). The taxon was named after J.O. CORLISS, thus it had to be corrected. Incorrectly ascribed to "(D. 1954) D. 1960" by CAREY (1992 [LB0008]) (Art. 51.3; Code).
- Corlissiella** PUYTORAC 1960 [Z06250: 285]. TS: *Anoplophrya criodrili* HEIDENREICH 1935 by monotypy.
- Coronochona** JANKOWSKI 1973 [AEB543: 331]. TS: *C. pectinata* by original designation (& monotypy).
- Coronodiscophrya** JANKOWSKI 1981 [CI1416: 110]. TS: *Discophrya prismatica* HOLM 1928 by original designation (& monotypy). Genus not recognized by MATTHES (1988 [LB0005: 95]), i.e. species listed in its original combination.
- Coronothigma** JANKOWSKI 1980 [CI1013: 119]. TS: *Craticuloscuta gigas* PUYTORAC by original designation (& monotypy); incomplete reference to basionym.
- Corticocolpoda** FOISSNER 1993 [FOI298: 764]. TS: *C. kaneshiroae* by original designation (& monotypy).
- Corynacineta** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta tuba* ZELINKA 1962 by original designation (& monotypy); incomplete reference to basionym. Synonym of *Loricophrya* (e.g. CURDS 1987 [E02043: 98]).
- Corynophrya** CURDS 1987 [E02043: 77]. TS: *Acineta lyngbyi* EHRENBERG 1833 by original designation. KAHL (1934 [KAH018: 206]) established the genus with eight species non designating as type, thus it is a nomen nudum (Art. 13.3; Code). Validated by CURDS (see above), including revision and improved diagnosis.
- Cosmocolpoda** FOISSNER 1993 [FOI282: 743]. TS: *C. naschbergeri* by original designation (& monotypy).
- Cossothigma** JANKOWSKI 1978 [CI1413: 40]. TS: *Trachelostyla dubia* DRAGESCO 1954 by monotypy. Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188:

- 62]). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek suffix "-ma" is neuter, viz. *Cossothigma dubium* nom. corr.
- Cotensicoma** JANKOWSKI 1982 [CI1023: 26]. TS: *C. manticola* by original designation (& monotypy).
- Cotensita** JANKOWSKI 1982 [CI1023: 30]. TS: *C. commensalis* by original designation (& monotypy).
- Cothurnia** EHRENBERG 1831 [EHR002: 92]. TS: *C. imberis* by subsequent designation by WARREN & PAYNTER (1991 [CI1592: 20]). The name *C.* was first mentioned by EHRENBERG in HEMPRICH & EHRENBERG (1831 [EHR031: unpag.]) as part of an identification table (cp. WARREN & PAYNTER 1991 [CI1592: 20, 21]). Misspelled "Cothurnina" in DOFLEIN (1909 [E02213: 870]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Genus revision, discussion of type species, and key to species: WARREN & PAYNTER (1991 [CI1592: 17]). Synonyms: *Pachytrocha*, *Planicola*, *Semicothurnia*, *Sincothurnia*, *Stylocola*, *Tesnotheca*, *Thuricolopsis*, *Tubularia* partim.
- Cothurniopsis** STOKES 1893 [E00789: 299]. TS: *C. valvata* by monotypy. Feminine gender according to Article 30.1.2 of the Code. The name *Cothurniopsis* has, on several occasions, been erroneously confused with *Cothurnopsis* ENTZ 1884 (e.g. BÜTSCHLI 1889 [LB0896: 1770]; KAHL 1935 [KAH019: 769]; CORLISS 1979 [COR085: 276]; MATTHES 1958 [Z06241: 482]). Synonym: *Pseudothuricola*. Revision and key to species: WARREN & PAYNTER (1991 [CI1592: 52]).
- Cothurnopsis** ENTZ 1884 [E00056: 426]. TS: *Cothurnia astaci* STEIN by subsequent designation by JANKOWSKI (1976 [CI1411: 169]); incomplete reference to basionym. Nomenclatural act, however, contained in an unpublished work (Art. 9.9; Code). Feminine gender according to Article 30.1.2 of the Code.
- Cotylothigma** RAABE 1949 [E00311: 55]. TS: *Ptychostomum rhynchelmis* HEIDENREICH 1935 by original designation (& monotypy). Revision: RAABE (1972 [Z06221: 171], also misspelled "C. rhynchelmis" on page 172, a variant spelling deemed to be identical (Art. 58.10; Code).
- Coxliella** BRANDT 1906 [CI1559: 7]. TS: *C. laciniosa* (basionym *Cyttarocyliis* (*Coxliella*) *ampla* var. *laciniosa* BRANDT 1906) subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 95]). Described twice as new genus by BRANDT (1906 and 1907 [E00188: 259]). Misspelled "Coxliella" in SOUSA E SILVA (1950 [E01240: pl. 3]) and "Coxiella" in DURÁN (1957 [E01186: 110]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1908" in SMALL & LYNN (1985 [Z06206: 418]). Established as subgenus of *Cyttarocyliis*, elevated to generic rank by LAACKMANN (1910 [E01214: 392]). Nominotypical subgenus (Art. 44; Code): JÖRGENSEN (1924 [E00252: 72]). Objective synonym: *Cochliella*. Revision: KOFOID & CAMPBELL (1929 [CI1434: 95]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 168]).
- Coxliellina** COLOM 1948 [E00161: 251]. TS: *C. berriasiensis* by original designation (& monotypy). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Cranotheridium** SCHEWIAKOFF 1893 [PR1037: 35]. TS: *C. taeniatum* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 554]) without description or definition, thus a nomen nudum (Art. 12.1; Code).
- Craspedomyoschiston** PRECHT 1935 [CI1593: 454]. TS: *C. sphaeromae* by monotypy. Incorrectly ascribed to "JANKOWSKI, n. gen." in SMALL & LYNN (1985 [Z06206: 423, 550]).



- Craspedonotana* STRAND 1928 [CI1594: 62]. Superfluous substitute name for *Craspedonotus* KAHL 1926, because this is an objective synonym of *Homalozoon* STOKES 1890 due to the same type species (Art. 61.3.3; Code). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Craspedonotus* KAHL 1926 [KAH001: 285]. Homonym of *C. SCHAUM* 1863, coelopteran insect. Objective synonym of *Craspedonotana* STRAND 1928, but already of *Homalozoon* STOKES 1890 due to the same type species (Art. 61.3.3; Code). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Craspedophrya* JANKOWSKI 1981 [CI1416: 114]. TS: "*Craspedophrya*" *erhardi* RIEDER 1936 by original designation (not explicitly stated). Name not made available by RIEDER (1936 [CI1503: 139]) since no type species was designated (Art. 13.3; Code). Synonym of *Heliophrya* (e.g. CORLISS 1979 [COR085: 241]).
- Craspedothorax* SONDHEIM 1929 [E00139: 298]. TS: *Chilodon dubius* MAUPAS 1883 by monotypy. Synonym of *Pseudomicrothorax* (e.g. KAHL 1935 [KAH019: 832]; CORLISS 1961 [COR113: 146]).
- Crassicalpionella* NAGY 1989 [E00398: 67]. TS: *C. conica* by original designation.
- Crassichona* JANKOWSKI 1973 [AEB543: 301]. TS: *C. insolita* by original designation (& monotypy).
- Crassicollaria* REMANE 1962 [CI1550: 15]. TS: *C. brevis* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Craterella* KOFOID & CAMPBELL 1929 [CI1434: 194]. Homonym of *C. SCHRAMMEN* 1901, sponge. Objective synonym of *Ascampbelliella* CORLISS 1960. Misspelled "Cratarella" in BUSCH (1948 [CI1512: 127]) and "Graterella" in NIE & CHENG (1947 [CI1389: 69]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Craterina* BORY 1824 [Z05029: 523]. No type species fixed. Described two times as new genus by BORY (1824 and 1825 [E02240: 544]). Synonym of *Coleps* partim and *Vorticella* partim (e.g. EHRENBERG 1838 [EHR010: 274, 290, 317]).
- Crateristoma* JANKOWSKI 1967 [CI1018: 88]. TS: *C. kindi* by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code.
- Crateromorpha* PEREJASLAWZEWA 1886 [PR1129: 87]. TS: *C. mirabilis* by monotypy. Not designated as new genus. Homonym of *C. GRAY* 1872, rotifer. Considered as nomen dubium by BORROR (1972 [CI1191: 18], misdated with "1886"). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 52], dated "1886"). Preoccupied name, which has fallen as junior synonym of *Euplotes* (e.g. BÜTSCHLI 1889 [LB0896: 1752]; CORLISS 1960 [COR036: 269]; JANKOWSKI 1979 [CI1188: 52]). If the genus is resurrected, a new name is necessary.
- Craticuloscuta* KOZLOFF 1965 [CI1269: 335]. TS: *C. escobari* by monotypy. Revision: RAABE (1972 [Z06221: 174]).
- Crebricomma* KOZLOFF 1946 [CI1272: 4]. TS: *Hypocomina carinata* RAABE 1934 by original designation (& monotypy). Revision: RAABE (1970 [Z06218: 414]).
- Crevicometes* JANKOWSKI 1981 [CI1416: 103]. TS: *C. murmanicus* by original designation (& monotypy).
- Cricocoleps* DIESING 1866 [CI1490: 536]. TS: *Coleps amphacanthus* EHRENBERG 1833 by monotypy. Synonym of *Coleps* (e.g. BÜTSCHLI 1889 [LB0896: 1686]; CORLISS 1961 [COR113: 120]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Cricundella* KOFOID & CAMPBELL 1929 [CI1434: 256]. TS: *Undella tridivisa* BRANDT 1906 by original designation. Misspelled "Circundella" in MASSUTI in MASSUTI & MARGALEF (1950 [E01219: 106]) and CORLISS (1979 [COR085: 306]) listed the misspelling

- "Cicundella" as synonym, however, they are incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]).
- Cristichona** JANKOWSKI 1973 [CI1504: 16]. TS: *C. pacifica* by original designation (& monotypy).
- Cristigera** ROUX 1899 [CI1017: 602]. TS: *C. pleuronemoides* by monotypy. Misspelled "Cristigena" in WATERHOUSE (1912 [LB0947]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1901" in KAHL (1931 [KAH012: 382]) and ESTEBAN & OLMO (1997 [CI1627: 427]). Synonyms: *Aulaxella* (for the preoccupied *Aulax*), *Paurotricha*. Key to marine species: CAREY (1992 [LB0008: 148]). Redescription of type species: ESTEBAN & OLMO (1997 [CI1627: 427]).
- Crobylura** ANDRÉ 1914 [E00653: 183]. TS: *C. pelagica* by monotypy.
- Crossacineta** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta ornata* SAND 1899 by original designation (& monotypy); incomplete reference to basionym. Improved diagnosis and key to species: CURDS (1985 [E00982: 119]). Genus not recognized by MATTHES (1988 [LB0005: 78]), i.e. species listed in its original combination.
- "Crossothamnium". TS: *Zoothamnium perlatum* STILLER by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Crustocadosina** REHANEK 1985 [E01416: 371]. TS: *C. semiradiata* by original designation (& monotypy).
- Cryptacineta** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta operata* SWARCZEWSKI by original designation (& monotypy); incomplete reference to basionym. Improved diagnosis: CURDS (1985 [E00982: 120]).
- Cryptocaryon** BROWN 1951 [E00191: 1]. TS: *C. irritans* by monotypy. Strikly speaking contained in an unpublished work (Art. 9.9; Code), i.e. only established in an abstract (cp. CORLISS 1961 [COR113: 144]), but considered as available by CORLISS (1979 [COR085: 259]) and recorded in EDWARDS & HOPWOOD (1966 [LB0756]).
- Cryptochilidium** SCHOUTEDEN 1906 [E01068: 440]. TS: *Cryptochilum cuenoti* FIORENTINI 1898 by monotypy. Objective synonym: *Symbionecta*.
- Cryptochilum** MAUPAS 1883 [E00082: 443]. TS: *Paramecium griseolum* PERTY 1852 by subsequent designation by PETZ et al. (1995 [CI1432: 83]); basionym incompletely given. Synonym: *Oreoctoma*. Improved diagnosis: SONG et al. (1999 [CI1680: 235]).
- Cryptochona** JANKOWSKI 1973 [AEB543: 231]. TS: *C. tumida* by original designation (& monotypy). Synonym of *Vasichona* (e.g. TAYLOR et al. 1995 [E01938: 171]).
- Cryptolembus** GUNDERSON 1985 [E00775: 181]. TS: *C. gongi* by monotypy.
- Cryptonyctus** JANKOWSKI 1978 [CI1413: 39]. TS: *Nyctotheroides chabaudi* ALBARET by original designation; incomplete reference to basionym.
- Cryptopharynx** KAHL 1928 [KAH004: 81]. TS: *C. setigerus* by monotypy. Key to marine species: CAREY (1992 [LB0008: 100]). Improved diagnosis and redescription of type species: FOISSNER (1996 [FOI364: 310, 325]).
- Cryptophrya** JANKOWSKI 1973 [CI1572: 30]. TS: *Discophrya obtecta* SWARCZEWSKY 1928 by original designation (& monotypy).
- Cryptostoma** FEDELE 1927 [E00210: 302]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *C. DESVOIDY* 1830, mite. Objective synonym of *Cryptostomina* FEDELE 1938.
- Cryptostomina** FEDELE 1938 [E00558: 129]. TS: *Cryptostoma caliphyllae* FEDELE 1927 by monotypy. Substitute name of the preoccupied *Cryptostoma*.

- Ctedoctema** STOKES 1884 [E00791: 659]. TS: *C. acanthocrypta* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek suffix "-ma" is neuter, viz. *C. acanthocryptum* nom. corr. Correction of name and redescriptions of type species see FOISSNER et al. (1994 [FOI300: 294]).
- Ctenochona** JANKOWSKI 1973 [AEB543: 323]. TS: *C. ternipara* by original designation (& monotypy).
- Cubanella** POP 1997 [CI1613: 936]. Homonym of *C. PELEGRIN FRANGANILLO* 1925, arachnid. Objective synonym of *Cubanites* nom. nov.
- Cubanites** nomen novum for the preoccupied *Cubanella* POP 1997. TS: *Calpionella cristobalensis* FURRAZOLA-BERMÚDEZ 1965 by original designation. The correspondence with Mr. POP had not been answered. Derivation: After Cuba, the locus classicus. Gender: masculine (Art. 30.1.4.4; Code).
- Cucumophrya** KUNZ 1936 [E00585: 173]. TS: *C. leptomesochrae* by monotypy.
- Cucurbella** THURSTON & GRAIN 1971 [E00341: 136]. TS: *C. vivax* by original designation (& monotypy).
- Cunhaia** HASSELMANN 1924 [E00990: 229]. TS: *C. curvata* by monotypy. Dated with "1918" in CUNHA (1919 [CI1012: 8]) and JANKOWSKI (1980 [CI1013: 119]), but no earlier reference could be found.
- Cunhamunizia** ITO & IMAI 2000 [Z04569: 58]. TS: *C. batissei* by original designation (& monotypy).
- Curimostoma** KOZLOFF 1954 [CI9009: 200]. TS: *Dogielella renalis* KAY 1946 by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "stoma" (mouth, opening) is neuter, viz. *Curimostoma renale* nom. corr. Misspelling "Curinostoma" listed as synonym in CORLISS (1979 [COR085: 258]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Curviperistomatus** AMARO & SENA 1967 [E01047: 120]. TS: *Nyctotherus ochoterenai* SHOUTEN 1938 by original designation.
- Cyamichona** JANKOWSKI 1971 [CI1496: 1453]. TS: *C. mysticeti* by original designation.
- Cyathodinioides** CUNHA & FREITAS 1936 [E00950: 713]. TS: *Cyathodinium pyriforme* by original designation; incomplete reference to basionym. Synonym of *Cyathodinium* (e.g. CORLISS 1961 [COR113: 131]).
- Cyathodinium** CUNHA 1914 [E00377: 213]. TS: *C. conicum* by original designation. Nominotypical subgenus (Art. 44; Code): CUNHA & FREITAS (1940 [CI1479: 482]). Synonym: *Cyathodinioides*.
- Cyathodiscophrya** JANKOWSKI 1978 [CI1415: 495]. TS: *Discophrya cyathostyla* MATTHES 1954 by original designation (& monotypy); incomplete reference to basionym. Genus not recognized by MATTHES (1988 [LB0005: 131]), i.e. species listed in its original combination.
- Cyathopercularia** JANKOWSKI 1980 [CI1013: 119]. TS: *Opercularia laccobii* MATTHES & GUHL 1972 by original designation (& monotypy). Established as subgenus of *Syncyathella*; raised to genus rank by JANKOWSKI (1985 [CI1417: 97]).
- Cyclidium** MÜLLER 1773 [E00132: 49]. TS: *C. glaucoma* by subsequent designation by JANKOWSKI (1964 [CI1264: 35], not stated explicitly). First described as pre-linnean by HILL (1752 [E00665: 3]), thus an excluded name according to Article 3.2. of the Code. Ascribed to "HILL" (e.g. BHATIA 1936 [CI1030: 183]). Misdated with "1786" in KAHL (1931 [KAH012: 375]), CAREY (1992 [LB0008: 145]), SMALL & LYNN (1985 [Z06206: 423]), and PUYTORAC (1994 [Z06336: 658]). Nominotypical subgenus (Art. 44; Code): BERGER (1994 [E01578: 279]). Synonyms: *Acomia*, *Alyscum*, *Districha*. Key to marine

- species: CAREY (1992 [LB0008: 146]). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 300], 1996 [FOI369: 109]).
- Cyclochaeta* JACKSON 1875 [E00777: 243]. TS: *C. spongillae* by monotypy. Synonym: *Leiotrocha*. Synonym of *Trichodina* (e.g. CORLISS 1979 [COR085: 277]; GUHL & HAIDER 1988 [LB0344: 258]; BASSON & VAN AS 1989 [CI1118: 158]).
- Cyclocyrrha* FABRE-DOMERGUE 1888 [E00057: 240]. No type species fixed. Synonym of *Cyclochaeta* (e.g. KAHL 1935 [KAH019: 661]) and *Trichodina* (e.g. BÜTSCHLI 1889 [LB0896: 1760]; CORLISS 1979 [COR085: 277]; GUHL & HAIDER 1988 [LB0344: 258]; BASSON & VAN AS 1989 [CI1118: 158]).
- Cyclodonta* MATTHES 1958 [Z06241: 481]. TS: *Cothurnia bipartita* STOKES 1885 by monotypy. Key to species: WARREN & PAYNTER (1991 [CI1592: 52]).
- Cyclogramma* PERTY 1849 [CI1595: 39]. TS: *C. rubens* by monotypy. Homonym of *C. DOUBLEDAY* 1847, lepidopteran insect. Misdated with "1852" in BHATIA (1936 [CI1030: 128]). However, PERTY (1852 [E00084: 146]) again indicated the genus as new in his monograph. Synonym of *Nassula* (e.g. DIESING 1866 [CI1490: 557]; KENT 1881 [E00073: 495]). CORLISS (1979 [COR085: 226]) suggested to use the subjective synonym *Furgasonia* JANKOWSKI 1964 as substitute name.
- Cyclophrya* GÖNNERT 1935 [Z06235: 149]. TS: *C. magna* by monotypy. Improved diagnosis: RIEDER (1988 [CI1506: 72]).
- Cycloposthium* BUNDLE 1895 [E00193: 288]. TS: *Entodinium bipalmatum* FIORENTINI 1890 by subsequent designation by BUISSON (1923 [E00500: 240]). Dated "1896" in CUNHA (1919 [CI1012: 8]). Nominotypical subgenus (Art. 44; Code): STRELKOW (1939 [E00141: 80]).
- "Cyclostipes". TS: *Epistylis apiosomae* SCHEUBEL by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Cyclotrichium* MEUNIER 1910 [E00131: 164]. TS: *C. cyclokaryon* by monotypy. Misdated with "1907" in KAHL (1930 [KAH008: 129]) and GRAIN (1994 [Z06319: 278]). Key to marine species: CAREY (1992 [LB0008: 62]).
- Cylindrapium* BANINA in BANINA et al. 1984 [AEB550: 313]. TS: *Glossatella nasale* ([sic]; is should be *G. nasalis*) TIMOFEEV 1962 by original designation. Established as subgenus of *Apiosoma*.
- Cylindrella* POP 1997 [CI1613: 937]. Homonym of *C. MENKE* 1847, gastropod. Objective synonym of *Cylindriconella* nom. nov.
- Cylindriconella* nomen novum for the preoccupied *Cylindrella* POP 1997. TS: *Chitinoidella insueta* REHÁNEK 1986 by original designation. Derivation: Composition of the transformed genus name *Cylindrella* and the Latin diminutive suffix "-ella". Gender: feminine.
- Cymatocylis* LAACKMANN 1910 [E01214: 345]. TS: *Cyttarocylis drygalskii* LAACKMANN 1907 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 121]). Misdated with "1909" in LAVAL-PEUTO (1994 [Z06313: 209]). Misspelled "Cymatocalis" in BUSCH (1948 [CI1512: 133]) and "Cymatocyclis" in HALL 1953 [E01203: 392]; listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 186]), but in fact incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 121]). Morphometry of type species: WILLIAMS et al. (1994 [E02103: 263]).
- Cypreostoma* JANKOWSKI 1969 [CI1674: 37]. TS: *Paramecium woodruffi* WENRICH 1928 by original designation. Neuter gender according to Article 30.1.2 of the Code. Established

- as subgenus of *Paramecium*. Synonym of *Paramecium* (e.g. CORLISS 1979 [COR085: 260]).
- Cypridium* KENT 1882 [E00074: 754]. No type species fixed. Synonym of *Dysteria* (e.g. BÜTSCHLI 1889 [LB0896: 1700]; KAHL 1931 [KAH012: 250]; CORLISS 1961 [COR113: 127]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Cyrtocaryum* FAURÉ-FREMIET & MUGARD 1949 [E00209: 1753]. TS: *C. halosydnae* by monotypy.
- Cyrtohymena* FOISSNER 1989 [FOI213: 238], including redescription of type species. TS: *Oxytricha (Steinia) muscorum* KAHL 1932 by original designation (& monotypy); basionym given as *Steinia muscorum*. Synonym: *Balladynella*. Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 145]). Revision and key to species: BERGER (1999 [LB1083: 279]).
- "Cyrtohymenostoma". TS: "*C. gallinulae*" by monotypy. Neuter gender according to Article 30.1.2 of the Code. Contained in an unpublished work (Art. 9.9; Code) of DAS, CHATTERJEE & RAY (1969 [E00543: 256]), thus unavailable. Not recorded in nomenclators.
- Cyrtolophosis* STOKES 1885 [CI1200: 440]. TS: *C. mucicola* by monotypy. Misdated with "1888" in KAHL (1931 [KAH012: 353]). Synonym: *Balantiophorus*. Revision and key to species: FOISSNER (1993 [FOI282: 527]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1991 [FOI243: 414], 1999 [FOI450: 718]).
- Cyrtophoron* DEROUX 1975 [E00179: 382]. TS: *C. isagogicum* by monotypy. Misdated with "1974" in DEROUX (1994 [Z06325: 416]).
- Cyrtostomum* STEIN 1859 [CI1394: 59]. TS: *Bursaria leucas* EHRENBERG 1833 by monotypy. Objective synonym of *Frontonia* EHRENBERG 1838 due to the same type species (Art. 61.3.3; Code). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Cyrtostrombidium* LYNN & GILRON 1993 [CI1156: 60]. TS: *C. longisomum* by original designation.
- Cystidium* EBERHARD 1862 [CI1475: 24]. TS: *C. titubans* by monotypy. Synonym of *Leucophrys* (e.g. DIESING 1866 [CI1490: 77]) and subsequently *Tetrahymena*.
- Cystophrys* BRESSLAU 1922 [E00662: 90]. Homonym of *C. ARCHER* 1869, heliozoon. Objective synonym of *Eilymophrys* CORLISS 1979. Misspelled "*Chystophrys*" in the Zoological Record (CD-version), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Cytharoides* TUFFRAU 1975 [CI1069: 313]. TS: *C. balechi* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 52]). Improved diagnoses: AGATHA et al. (1990 [E01722: 226], including redescription of type species); PETZ et al. (1995 [CI1432: 180]).
- Cyttarocyliis* FOL 1881 [CI1422: 22]. TS: *Dictyocysta cassis* HAECKEL 1873 by monotypy. Described twice as new genus by FOL (1881 and 1880 [CI1443: 248]); overlooked by LOEBLICH & TAPPAN (1968 [CI1533: 187]), who stated a subsequent designation by BRANDT (1907 [E00188: 14]). Many incorrect subsequent spellings, which are therefore unavailable (Arts. 33.3, 33.5; Code): "*Cittarocyliis*" in DELAGE & HÉROUARD (1896 [E01184: 467]), "*Cytarocyliis*" in FARIA & CUNHA (1917 [E01190: 71]), "*Cytharocyliis*" in HOFKER (1930 [E01204: 396]), "*Cyttacyliis*" in GRAN (1902 [E01199: 199]), "*Cyttanocyliis*" in STRELKOW & VIRKETIS (1950 [CI1390: 390]), "*Cyttaroceis*" in CASPERS (1957 [E01178: 833]), "*Cyttaroclys*" in KELLER (1894 [E01209: 214]), "*Cyttarocyclis*" in BÜTSCHLI (1899 [LB0896: 1734]), "*Cyttarocylus*" in OKAMURA (1907 [E01226: 139]), "*Cyttarocysta*" in KENT (1881 [E00073: 625]), "*Cyttarosylis*" in BALECH (1962 [PR1124: 42]), and "*Cyttorocyliis*" in ENTZ (1927 [E01189: 320]). Revision:

KOFOID & CAMPBELL (1929 [CI1434: 109]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).

## D

- Dactylochlamys*** LAUTERBORN 1901 [E00127: 53]. TS: *D. pisciformis* by monotypy.
- Dactylophrya*** COLLIN 1909 [E00464: 1095]. TS: *D. roscovita* by monotypy, now considered as synonym of *Tachyblaston ephelotensis* by MATTHES (1988 [LB0005: 147]). Synonym of *Tachyblaston* by replacement of type species.
- Dactylostoma*** JANKOWSKI 1967 [CI1568: 35]. TS: *Dactylophrya collinii* GAJEWSKAJA 1929 by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code. Junior homonym in trematodes.
- Dadayiella*** KOFOID & CAMPBELL 1929 [CI1434: 319]. TS: *Tintinnus ganymedes* ENTZ 1884 by original designation. Misspelled "Aadayiella" in HADA (1935 [E01201: 247]) and "Dadayella" in RAMPI (1939 [E01235: 80]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Treated as valid by GILRON et al. (1991 [E01883: 156]).
- Dallasia*** STOKES 1886 [CI1485: 534]. TS: *Diplomestoma frontata* by monotypy. Substitute name of the preoccupied *Diplomastax* and *Diplomestoma*. Synonym of *Glaucoma* (e.g. KAHL 1931 [KAH012: 333]; CORLISS 1979 [COR085: 258]).
- Dapedophrya*** FOISSNER 1995 [FOI338: 73], including redescription of type species. TS: *Glaucoma flexilis* PENARD 1922 by original designation (& monotypy).
- Dasytricha*** SCHUBERG 1888 [E00325: 386]. TS: *D. ruminantium* by monotypy.
- Daturella*** KOFOID & CAMPBELL 1929 [CI1434: 342]. TS: *Tintinnus datura* BRANDT 1906 by original designation. Misspelled "Dadurella" in GAARDER (1946 [E01196: 10]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Uncertain tintinnine or part of the body of fossil molluscs (cp. CORLISS 1979 [COR085: 307]), thus likely a nomen dubium.
- Daturellina*** RADOIČIĆ 1959 [CI1564: 80]. TS: *D. zetica* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Daurotheca*** JANKOWSKI 1986 [CI1525: 75]. TS: *Cothurnia variabilis* KELLICOTT 1883 by original designation. Also founded as new in the same year in an abstract (cp. [CI1574: 389]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Key to species: WARREN & PAYNTER (1991 [CI1592: 84]).
- Deflandrella*** TREJO 1972 [PR1094: 80]. Homonym of *D.* LOEBLICH & TAPPAN 1961, radiolarian. Objective synonym of *Deflandronella* TREJO 1975.
- Deflandronella*** TREJO 1975 [PR1121: 15]. TS: *Deflandrella veracruzana* TREJO 1972 by original designation. Substitute name of the preoccupied *Deflandrella*.
- Delamurea*** NAIDENOVA 1978 [E00784: 44]. TS: *D. loricata* by original designation.
- Dellochus*** CORLISS 1960 [COR036: 274]. TS: *Lochus mucicola* DELPHY 1938 by original designation (& monotypy). Substitute name of the preoccupied *Lochus*.
- Delphyella*** PUYTORAC 1969 [CI1237: 260]. TS: *Palina filum* CLAPARÈDE 1861 by monotypy. Revision: PUYTORAC (1972 [CI1224: 15]).
- Deltacineta*** JANKOWSKI 1981 [CI1416: 96]. TS: *D. seticola* by original designation (& monotypy).

- Deltopylum*** FAURÉ-FREMIET & MUGARD 1946 [E00208: 161]. TS: *D. rhabdoides* by monotypy.
- "Demorgania". Recorded only once as synonym of *Peniculistoma* by CORLISS (1979 [COR085: 266]). No further information available, likely a nomen nudum (Art. 13.1; Code).
- Dendrella*** BORY 1824 [Z06509: 242]. No type species fixed. Described three times as new genus by BORY (1824, 1824 [E02234: 393], 1834 [E02252: 469]; date according to STAFLEU & COWAN 1976 [LB0908: No. 669] is 15.5.1824). Synonym of *Epistylis* (e.g. EHRENBERG (1838 [EHR010: 290]) and *Zoothamnium* (e.g. EHRENBERG 1838 [EHR010: 279]; BÜTSCHLI 1889 [LB0896: 1765]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Dendrocometes*** STEIN 1852 [E00154: 492]. TS: *D. paradoxus* by monotypy. Misdated with "1851" in MATTHES (1988 [LB0005: 152]).
- Dendrocometides*** SWARCZEWSKY 1928 [Z06229: 50]. TS: *D. priscus* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code.
- Dendrophrya*** SAND 1895 [E00089: 163]. Established with two varieties of *D. gemmipara*. Described twice as new genus by SAND (1895 and 1896 [E00968: 8]). Homonym of *Dendrophrya* WRIGHT 1861, foraminifer. Misspelled "Dendrophyra" in WATERHOUSE (1912 [LB0947: 102]). Not used by later authors (e.g. KAHL 1934 [KAH018]; CORLISS 1979 [COR085]; MATTHES 1988 [LB0005]), thus considered as nomen oblitum.
- Dendrosoma*** EHRENBERG 1837 [EHR007: 152]. TS: *D. radians* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Synonyms: *Astrophrya*, *Gorgonosoma*. Monograph: MATTHES (1988 [LB0005: 57]; dated "1838"). Redescriptions of type species see FOISSNER et al. (1995 [FOI340: 423]).
- Dendrosomides*** COLLIN 1905 [E00189: 64]. TS: *D. paguri* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Misdated with "1906" in the Zoological Record (CD-version) and SMALL & LYNN (1985 [Z06206: 421]).
- Dentacineta*** JANKOWSKI 1978 [CI1415: 495]. TS: *Acinetopsis campanuliformis* COLLIN 1909 by original designation (& monotypy); incomplete reference to basionym.
- Dentacinetides*** BATTISSE 1992 [Z06209: 295]. TS: *D. collini* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code.
- Dentichona*** JANKOWSKI 1973 [CI1504: 18]. TS: *D. marginata* by original designation (& monotypy).
- Denticycloposthium*** STRELKOW 1939 [E00141: 89]. TS: *Cycloposthium dentiferum* GASSENDI by original designation; incomplete reference to basionym. Established as subgenus of *Cycloposthium*.
- Desicaryon*** JANKOWSKI 1979 [CI1188: 52, 69]. TS: *Keronopsis arenivorus* DRAGESCO 1954 by original designation, spelled "*K. arenivora*" and without new data. Established as subgenus of *Paraholosticha*. In the same paper (page 57), the type species is transferred to *Holosticha*.
- Desmophrya*** RAABE 1933 [BM0891: 51]. TS: *D. contorta* by monotypy. Revision: PUYTORAC (1972 [CI1224: 21]).
- Deviata*** EIGNER 1995 [CI1456: 341]. TS: *D. abbrevescens* by original designation.
- Dexiostoma*** JANKOWSKI 1967 [CI1672: 18]. TS: *Colpidium campylum* STOKES 1886 by original designation. Neuter gender according to Article 30.1.2 of the Code. Considered as synonym of *Colpidium* by CORLISS (1979 [COR085: 257]). Revision and redescription of type species: GANNER & FOISSNER (1989 [FOI214: 200]; incorrectly spelled *D. campyla*). Taxonomic and ecological monographs of type species: FOISSNER et al. (1994 [FOI300: 33]).

- Dexiotricha*** STOKES 1885 [E00748: 327]. TS: *Dexiotricha plagia* by monotypy, now considered as synonym of *D. granulosa* (basionym *Loxocephalus granulatus* KENT 1881) (cp. FOISSNER et al. 1994 [FOI300: 240]). The genus was long considered as synonym of *Loxocephalus* (e.g. BÜTSCHLI 1889 [LB0896: 1707]; CORLISS 1961 [COR113: 145]). FOISSNER et al. (1994 [FOI300: 240]) revalidated the genus and gave a monograph of the type species.
- Dexiotrichides*** KAHL 1931 [KAH012: 351]. TS: *Dexiotricha centralis* STOKES 1885 by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code. Redescription of type species: FOISSNER et al. (1994 [FOI300: 266]).
- "Diafolliculina". Not made available by HADŽI (1951 [E00001: 158]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Diaphanosoma*** GRANDORI & GRANDORI 1934 [BM0391: 253]. Neuter gender according to Article 30.1.2 of the Code. Ascribed to "GRANDORI" in NEAVE (1939 [LB0752: 60]). Homonym of *D. BRANDT* 1850, cladoceran, and *D. BILL* 1914, another crustacean. Objective synonym of *Microdiaphanosoma* WENZEL 1953.
- Diaxonella*** JANKOWSKI 1979 [CI1188: 83]. TS: *D. trimarginata* (for *Keronopsis rubra* sensu JERKA-DZIADOSZ & JANUS 1838) by original designation (& monotypy).
- Dicella*** WERNECK in EHRENBERG 1841 [E00666: 377]. Nomen oblitum in BÜTSCHLI (1889 [LB0896: 1774]) and in CORLISS (1979 [COR085: 208]). Perhaps a synonym of *Metopus* (e.g. BÜTSCHLI 1889 [LB0896: 1774]) or a nomen dubium.
- Diceras*** EBERHARD 1862 [CI1475: 21]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *D. LAMARCK* 1805, mollusc. Objective synonym of *Diceratula* CORLISS 1960. Possibly a synonym of *Spathidium* (e.g. BÜTSCHLI 1889 [LB0896: 1680]).
- Diceratella*** BORY 1824 [Z06510: 528], also spelled "Dicerratella" on page 250, likely par lapsus. No type species fixed. Described three times as new genus by BORY (1824, also in [E02235: 467]; date according to STAFLEU & COWAN 1976 [LB0908: No. 669] is 15.5.1824; and 1834 [E02253: 545]). Synonym of *Coleps* partim, *Vorticella* partim (e.g. EHRENBERG 1838 [EHR010: 317, 290]) and *Stentor* partim (e.g. BÜTSCHLI 1889 [LB0896: 1728]).
- Diceratula*** CORLISS 1960 [COR036: 274]. TS: *Diceras viridans* EBERHARD 1862 by original designation (& monotypy). Likely superfluous substitute name of *Diceras*, which is a synonym of *Spathidium* (e.g. BÜTSCHLI 1889 [LB0896: 1680]) or a nomen dubium.
- Dichilum*** SCHEWIAKOFF 1893 [PR1037: 49]. TS: *D. cuneiforme* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 556]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Misdated with "1889" in KAHL (1931 [KAH012: 338]) and CORLISS (1971 [COR063: 359]).
- Dicloepella*** EICHER 1965 [E00190: 454]. TS: *D. borealis* by original designation (& monotypy). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Dicoelophrya*** PUYTORAC & DRAGESCO 1969 [CI1234: 17]. TS: *D. callistes* by original designation. First mentioned in an abstract by PUYTORAC & DRAGESCO (1968 [E00609: 42]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Fully characterized one year later (see above). Revision: PUYTORAC (1972 [CI1224: 27]).
- Dicontophrya*** PUYTORAC & DRAGESCO 1969 [CI1234: 9]. TS: *D. grassei* by original designation. First mentioned in an abstract by PUYTORAC & DRAGESCO (1968 [E00609: 42]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Fully characterized one year later (see above).
- Dictyocoleps*** DIESING 1866 [CI1490: 534]. No type species fixed. Synonym of *Coleps* (e.g. BÜTSCHLI 1889 [LB0896: 1686]; CORLISS 1961 [COR113: 120]). Nomen oblitum in CORLISS (1979 [COR085: 208]).



- Dictyocysta** EHRENBERG 1854 [EHR029: 236]. TS: *D. elegans* by monotypy. Described twice as new genus by EHRENBERG in the same year (cp. also [EHR046: 71]). Misspelled "Dictyocista" in ENTZ (1885 [E01187: 203]), "Dyctiocusta", "Dyctiocysta" and "Dystiocysta" in MASSUTI-ALZAMORA (1930 [E01218: 20, 11, 21]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 285]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Key to species: SOUTO (1981 [E02105: 376]).
- Dicycloposthium** STRELKOW 1939 [E00141: 94]. TS: *Cycloposthium* (*Dicycloposthium*) *plicatocaudatum* by original designation. Established as subgenus of *Cycloposthium*.
- Didesmis** FIORENTINI 1890 [CI1529: 15]. TS: *D. quadrata* by subsequent designation by BUISSON (1923 [E00500: 225; not explicitly stated]). Again established in the same year (cp. [CI1529: 51]). Key to species: VAN HOVEN et al. (1998 [E02102: 88]).
- Didieria** SMALL & LYNN 1985 [Z06206: 515]. TS: *D. ohioensis* by monotypy.
- Didinium** STEIN 1859 [CI1394: 5]. TS: *D. nasutum* (basionym *Vorticella nasuta* MÜLLER 1773) by monotypy. Misdated with "1867" in KAHL (1930 [KAH008: 123]). Synonyms: *Chytridium*, *Ecclissa*, *Rinella*. Key to marine species: CAREY (1992 [LB0008: 63]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1994 [FOI340: 228]), 1999 [FOI450: 171]).
- Digitalina** BORY 1824 [Z06511: 252]. No type species fixed. Described twice as new genus in the same year (cp. [E02236: 502], spelled "Digitaline"; date according to STAFLEU & COWAN 1976 [LB0908: No. 669] is 15.5.1824). Synonym of *Epistylis* (e.g. EHRENBERG 1838 [EHR010: 281, 290]; BÜTSCHLI 1889 [LB0896: 1766]).
- Digitiphrya** FRAIPONT 1878 [E00691: 509]. TS: *Acineta digitata* STEIN 1859 by monotypy. Junior objective synonym of *Stylocometes* STEIN 1867 due to the same type species (Art. 61.3.3; Code). Nomen oblitum in CORLISS (1979 [COR085: 208]; spelled "Digitophrya").
- Digitophrya** MATTHES 1988 [LB0005: 42]. TS: *Dendrosomides tumidus* GAJEWSKAJA 1933 by monotypy. Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "ophrys" (eyebrow, cilium, ciliate sensu lato) is feminine, viz. *Digitophrya tumida* nom. corr. Junior objective synonym of *Parastylophrya* JANKOWSKI 1978 due to the same type species (Art. 61.3.3; Code).
- Dileptus** DUJARDIN 1841 [CI1202: 404]. TS: *Vibrio anser* MÜLLER 1773 by subsequent designation by KAHL (1931 [KAH012: 204]). First mentioned by DUJARDIN (1840 [E00054: 285]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Misdated with "1840" in JANKOWSKI (1980 [CI1013: 120]), SMALL & LYNN (1985 [Z06206]), and CAREY (1992 [LB0008: 60]). JANKOWSKI (1967 [CI1569: 36]) established three subgenera, presently elevated in rank. Synonym: *Phragelliorhynchus*. Revision: DRAGESCO (1963 [CI1463: 103]). Key to marine species: CAREY (1992 [LB0008: 60]).
- Dilleria** EARL 1973 [E00507: 181]. TS: *Balantidium sushilii* RAY 1932 by original designation. Junior homonym in hymenopteran insects.
- Dimacrocaryon** JANKOWSKI 1967 [CI1569: 36]. TS: *Dileptus amphileptoides* KAHL 1931 by original designation (& monotypy). Established as subgenus of *Dileptus*. Redescription of type species and used as genus, although elevation in rank not explicitly mentioned: FOISSNER (1984 [FOI110: 90]).
- Dimaspidisca** JANKOWSKI 1979 [CI1188: 83]. TS: *Aspidisca fusca* KAHL 1928 by original designation. Established as subgenus of *Aspidisca*.
- Dimorphocothurnia** JANKOWSKI 1985 [CI1417: 93]. TS: *Cothurnia nebaliae* DONS 1928 by original designation (& monotypy). The genus was first mentioned by JANKOWSKI (1980

- [CI1013: 119]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Revision: WARREN & PAYNTER (1991 [CI1592: 53]; misdated "1980").
- Diophrya* LIEBERKÜHN in BÜTSCHLI 1889 [LB0896: 1682]. TS: *D. lieberkuehni* by monotypy; the basionym "D. lieberkühni" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Synonym of *Acropisthium* (e.g. KAHL 1930 [KAH008: 129]; CORLISS 1979 [COR085: 217]); with question mark; cp. also FOISSNER et al. [FOI450: 213]).
- Diophryopsis* HILL & BORROR 1992 [CI1084: 150]. TS: *Diophrys histrix* BUDDENBROCK 1920 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code.
- Diophrys* DUJARDIN 1841 [CI1202: 445]. TS: *D. marina* by monotypy; now considered as synonym of *Stylonychia appendiculata* EHRENBERG 1838 (cp. LEVANDER 1894 [E00080]). First mentioned by DUJARDIN (1840 [E00054: 285]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Misspelled "Doiphrys" in TUCOLESCU (1965 [E02226: 353]). Misdated with "1840" in CURDS & WU (1983 [E02101: 202]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 52]), who established several subgenera, thus nominotypical subgenus (Art. 44; Code). BORROR'S (1972 [CI1191: 17]) and JANKOWSKI'S "designation" of *D. scutum* as type species is invalid (Art. 69.1; Code). Synonyms: *Pamplota*, *Planiplotes*, *Schizopus*, *Styloplotes*. Keys to (marine) species: CURDS & WU (1983 [E02101: 202]); CAREY (1992 [LB0008: 200]). Improved diagnosis and nomenclature of type species: HILL & BORROR (1992 [CI1084: 146]).
- Dipartiella* STEIN 1961 [CI1500: 1141]. TS: *Dogielina simplex* RAABE 1959 by original designation (& monotypy). Substitute name of the preoccupied *Dogielina* RAABE 1959. Considered as synonym of *Trichodinella* (e.g. GUHL & HAIDER 1988 [LB0344: 252]). Redescription of type species and resurrection: KAZUBSKI (1999 [CI1676: 305]).
- "Diplagiotricha". Ascribed to "BORY 1824" in BÜTSCHLI (1889 [LB0896: 1742]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 52]; dated "1826", "non vidi"). However, BORY (1824 [Z05029: 530]) only established an *Oxitricha* "diplagiotriques" for *Trichoda ambigua* MÜLLER; thus it was not intended as genus name. Synonym of *Epiclintes* (e.g. BÜTSCHLI 1889 [LB0896: 1742]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Dipleurostyla* ROUX 1899 [CI1017: 615]. TS: *D. acuminata* by monotypy. Misdated with "1901" in KAHL (1932 [KAH014: 650]). Considered as nomen dubium by KAHL (1932 [KAH014: 650; regenerate]) and by BORROR (1972 [CI1191: 18]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Listed in the generic catalogue of hypotrichs JANKOWSKI (1979 [CI1188: 52]). No longer classified in the Oxytrichidae and type species considered as nomen dubium by BERGER (1999 [LB1083: 893]).
- Diplites* FOISSNER 1998 [FOI423: 207]. TS: *D. telmatobius* by original designation. Masculine gender according to Article 30.1.4.4 of the Code.
- Diplodinium* SCHUBERG 1888 [E00325: 369]. TS: *Entodinium dentatum* STEIN 1858 by monotypy, as determined by SCHUBERG (1888 [E00325: 369]), by KOFOID & MACLENNAN (1932 [CI1238: 57]), and by WERTHEIM (1935 [E02154: 418]) (cp. I.C.Z.N. 1950 [CI1562: 380], 1954 [CI1561: 284]; MELVILLE & SMITH 1987 [EV0797: 82]). The genus name was placed on the "Official List of Generic Names in Zoology" (cp. I.C.Z.N. 1950 [CI1562: 380]). Discussion on the type of the genus see KIRBY (1946 [E01042: 169], KOFOID (1946 [E01043: 167]), and HEMMING (1946 [E01044: 168]). Revisions and/or keys to species: DOGIEL (1927 [BM0278: 71]); KOFOID & MACLENNAN (1932 [CI1238: 74]); LATTEUR (1970 [E01913: 275]).

- Diplogmus** MANSFELD 1923 [E00286: 120]. TS: *D. contrax* by monotypy. Considered as synonym of *Protocruzia* (e.g. KAHL 1932 [KAH014: 449]; CORLISS 1961 [COR113: 159]). Resurrected genus (cp. CORLISS 1979 [COR085: 295]).
- "Diplolophus". Established as subgenus of *Cycloposthium*, but not made available by HOLLANDE & BATISSE (1959 [CI1290: 11]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Moreover, homonym of *D. TROXELL* 1923, mammal. However, elevated to genus rank by CORLISS (1979 [COR085: 222]) and treated as valid by GRAIN (1994 [Z06201: 359]).
- Diplomastax** STOKES 1886 [E00703: 104]. Homonym of *D. KENT* 1880, flagellate. Misspelled "Diplomastix" in KAHL (1935 [KAH019: 872]). Objective synonym of *Diplomestoma* STOKES 1886 and *Dallasia* STOKES 1886 (cp. STOKES 1886 [CI1485: 534]). Synonym of *Glaucoma* (e.g. KAHL 1931 [KAH012: 333]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Diplomestoma** STOKES 1886 [CI1598: 388]. Neuter gender according to Article 30.1.2 of the Code. Substitute name of the preoccupied *Diplomastax* STOKES 1886. Nomen oblitum in CORLISS (1979 [COR085: 208]). Objective synonym of *Dallasia* STOKES 1886, which is a synonym of *Glaucoma* (e.g. CORLISS 1979 [COR085: 258]).
- Diploplastron** KOFOID & MACLENNAN 1932 [CI1238: 107]. TS: *Diplodinium affine* DOGIEL & FEDOROWA 1925 by original designation (& monotypy).
- Diplospyla** KELLICOTT 1885 [CI1015: 46]. TS: *D. inhaesa* by monotypy. Misspelled "Diplostyla" in KAHL (1935 [KAH019: 872]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Calyptotricha* (e.g. BÜTSCHLI 1889 [LB0896: 1714]; misspelled "Diplopsyla"); KAHL 1931 [KAH012: 387]; CORLISS 1961 [COR113: 149]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Discacineta** JANKOWSKI 1981 [CI1416: 90]. TS: *Solenophrya micraster* PENARD 1914 by original designation (& monotypy).
- Discephelota** JANKOWSKI 1981 [CI1416: 97]. TS: *Ephelota gigantea* NOBLE 1929 by original designation (& monotypy).
- Discocephalus** EHRENBERG in HEMPRICH & EHRENBERG 1831 [EHR031: unpag.]. TS: *D. rotatorius* by monotypy. Masculine gender according to Article 30.1.3 of the Code. First mentioned by EHRENBERG (1830 [EHR079: 9, 16]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Ascribed to "EHRENBERG 1828" in CURDS & WU (1983 [E02101: 194]); to "EHRENBERG in HEMPRICH & EHRENBERG 1828" in CORLISS (1979 [COR085: 312]) and TUFFRAU (1979 [CI1190: 524]); to "EHRENBERG 1831" (e.g. NEAVE 1939 [LB0752: 120]; JANKOWSKI 1979 [CI1188: 53]; CAREY 1992 [LB0008: 202]; SHI et al. 1999 [Z06465: 120]); to "HEMPRICH & EHRENBERG 1831" in WICKLOW (1982 [CI1082: 315]); to "HEMPRICH & EHRENBERG 1832" in TUFFRAU & FLEURY (1994 [Z06341: 133]), and to "EHRENBERG 1838" in KAHL (1932 [KAH014: 641]). Misdated with "1830" in AGASSIZ (1846 [E00987]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]); also misspelled "Discocephalis" on page 63, viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Polycoccon*. Keys to species: CURDS & WU (1983 [E02101: 194]); CAREY (1992 [LB0008: 202]).
- Discocyathus** JANKOWSKI 1981 [CI1416: 99]. TS: *Podocyathus excavatus* DONS 1938 by original designation (& monotypy). Homonym of *D. MILNE-EDWARDS & HAIME* 1848, coelenterate. Preoccupied name, which has not been accepted by later authors (cp. Zoological Record (CD-version)), thus falls as junior synonym of *Podocyathus*. If the genus is resurrected, a new name is necessary.
- Discomorpha** LEVANDER 1893 [E00278: 55]. Homonym of *D. DEJEAN* 1835, coleopteran insect. Objective synonym of *Discomorphella* CORLISS 1960.

- Discomorphella*** CORLISS 1960 [COR036: 274]. TS: *Discomorpha pectinata* LEVANDER 1893 by original designation (& monotypy). Substitute name of the preoccupied *Discomorpha*. Redescriptions of type species: FOISSNER et al. (1992 [FOI265: 451]); TUFFRAU (1992 [Z01567: 124]).
- "Discontinus". TS: *Trochilioides dispar* FAURÉ-FREMIET by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Discophrya*** LACHMANN 1859 [E00738: 92]. TS: *D. speciosa* by subsequent designation by JANKOWSKI (1981 [CI1416: 110; not stated explicitly]). STEIN (1860 [E00098: 56]) established a later homonym, replaced by COLLIN (1911 [E00048: 440]) with *Sieboldiellina*. However, STEIN (1867 [PR1075: 169]) himself had replaced his *Discophrya* with *Haptophrya*, an action which made COLLIN'S proposal altogether unnecessary (c.p. CORLISS 1960 [COR036: 271]). For the details on the complicated nomenclature and taxonomy see CORLISS et al. (1965 [COR048: 5]). Misspelled "Siscophrya" in the Zoological Record (CD-version). Synonyms: *Anisarcon*, *Calix*, *Caracantharina*, *Coronodiscophrya*, *Cyathodiscophrya*, *Elatodiscophrya*, *Epidiscophrya*, *Ferodiscophrya*, *Fitonacineta*, *Mesodiscophrya*, *Misacineta*, *Paradiscophrya*, *Setodiscophrya*, *Venodiscophrya*.
- Discophryson*** JANKOWSKI 1985 [CI1417: 80]. TS: *D. liberus* by original designation (& monotypy). Masculine gender according to Article 30.2.3 of the Code.
- Discosoma*** SWARCZEWSKY 1928 [Z06229: 52]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *D. RUEPPEL & LEUCKART* 1828, coelenterate, *D. PERTY* 1833, arachnid, and *D. PAETAL* 1875, mollusc. Objective synonym of *Discosomatella* CORLISS 1960.
- Discosomatella*** CORLISS 1960 [COR036: 274]. TS: *Discosoma tenella* SWARCZEWSKY 1928 by original designation (& monotypy). Substitute name of the preoccupied *Discosoma*. Misspelled "Discosmatella" in EDWARDS & VEVERS (1975 [LB0757: 93]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Discotheca*** JANKOWSKI 1967 [E00886: 726]. TS: *Opercularia cupulata* FAURÉ-FREMIET 1948 by original designation (& monotypy). Described twice in the same year in an unpublished work (cp. [CI1569: 36]). Synonym of *Opercularia* (e.g. CORLISS 1979 [COR085: 274]). Considered as valid by NAIDENOVA (1985 [CI1548: 61]).
- Discotricha*** TUFFRAU 1954 [Z06249: 183]. TS: *D. papillifera* by monotypy.
- Discozoon*** VUXANOVICI 1960 [E00345: 366]. TS: *D. undulans* by monotypy.
- Disematostoma*** LAUTERBORN 1894 [PR1091: 397]. TS: *D. buetschlii* by monotypy; the basionym "D. bütschlii" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Neuter gender according to Article 30.1.2 of the Code. Synonyms: *Parastokesia*, *Wenrichia*. Revalidated by SERRANO (1990 [Z01458: 358]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1994 [FOI300: 180], 1999 [FOI450: 409]).
- Disoma*** EHRENBERG in HEMPRICH & EHRENBERG 1831 [EHR031: Tab. III, Fig. vi, 3]. TS: *D. vacillans* by monotypy. Neuter gender according to Article 30.1.2 of the Code. First mentioned by EHRENBERG (1830 [EHR079: 9, 16]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Nomen oblitum in DIESING (1866 [CI1490: 537]) and CORLISS (1979 [COR085: 208]). Synonym of *Enchelys* (e.g. BÜTSCHLI 1889 [LB0896: 1680]).
- Dissothigma*** JANKOWSKI 1976 [CI1412: 168]. TS: *Urotricha saprophila* KAHL 1930 by original designation (& monotypy). In my opinion contained in an unpublished work

- (Art. 9.9; Code), however, validated by FOISSNER (1987 [FOI173: 220]). Objective synonyms: *Patschia*, *Urotrichopsis* due to same type species (Art. 61.3.3; Code).
- Districha* FROMENTEL 1875 [E00689: 188]. TS: *D. hirsuta* by original designation. Synonym of *Cyclidium* (e.g. BÜTSCHLI 1889 [LB0896: 1713]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Ditoxum* GASSOVSKY 1919 [E00880: 33]. TS: *D. funinucleum* by monotypy. Misdated with "1918" in GRAIN (1994 [Z06201: 362]).
- "Dizonyctus". TS: *Nyctotherus cardistomatus* NGASSAM 1983 by original designation. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1986 [CI1574: 389]), thus unavailable.
- Dobeniella* POP 1997 [CI1613: 934]. TS: *Tintinnopsella cubensis* FURRAZOLA-BERMÚDEZ 1965 by original designation.
- Dogielella* POLJANSKY 1925 [Z06224: 383]. TS: *D. sphaerii* by subsequent designation by KOZLOFF (1954 [CI9009: 200]; not explicitly stated). Again established in 1927 (cp. [E01093: 87]), but contained in an unpublished work (Art. 9.9; Code), thus unavailable. JANKOWSKI (1986 [CI1571: 163]) established two subgenera, not currently used.
- Dogielina* RAABE 1959 [BM1073: 448]. Homonym of *D.* SOBOLEV 1949, nematode. Objective synonym of *Dipartiella* STEIN 1961.
- Dolioliapium* BANINA in BANINA et al. 1984 [AEB550: 315]. TS: *Glossatella doliare* TIMOFEEV 1962 by original designation. Established as subgenus of *Apiosoma*.
- Donsia* HADŽI 1951 [E00001: 132]. TS: *Semifolliculina mirabilis* DONS 1917 by monotypy. Synonym of *Semifolliculina* partim (e.g. CORLISS 1979 [COR085: 239]) and *Acineta* partim (e.g. CURDS 1985 [E00982: 106]).
- Donsia* JANKOWSKI 1967 [CI1568: 35]. Homonym of the ciliate *D.* HADŽI 1951 and an objective synonym of *Plicophrya* JANKOWSKI 1975.
- Doyerius* ORMANCEY 1852 [CI1528: 289]. TS: *D. marsupius* by monotypy. Synonym of *Colpidium* (e.g. BÜTSCHLI 1889 [LB0896: 1704]). Not recorded in CORLISS (1979 [COR085]).
- Dragescoa* JANKOWSKI 1974 [E00579: 61]. TS: *D. mirabilis* by original designation. Misdated with "1973" in PUYTORAC (1994 [Z06336: 663]).
- Drepanidium* EHRENBERG 1861 [EHR030: 6]. TS: *D. pectinatum* by monotypy. Considered as nomen dubium or possibly a synonym of *Stichotricha* by BÜTSCHLI (1889 [LB0896: 1744]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Drepanina* SAVI 1913 [E00621: 99]. TS: *D. falcata* by monotypy. Possibly a fragment of *Stylonychia* (cp. KAHL 1932 [KAH014: 650]). Considered as nomen dubium by BORROR (1972 [CI1191: 19]; misspelled "Drepanena"). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]). Nomen oblitum in CORLISS (1979 [COR085: 208]). No longer classified in the Oxytrichidae and type species considered as nomen dubium by BERGER (1999 [LB1083: 893]).
- Drepanoceras* STEIN 1878 [E01074: 25]. Neuter gender according to Article 30.1.2 of the Code. Superfluous substitute name of *Drepanomonas*, because this genus is not preoccupied. STEIN'S work, however, includes a more detailed characterization of the genus. Misspelled "Drepanoceros" in BHATIA (1936 [CI1030: 153]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nomen oblitum in CORLISS (1979 [COR085: 208]). Objective synonym of *Drepanomonas* FRESENIUS 1858.
- Drepanomonas* FRESENIUS 1858 [E00505: 216]. TS: *D. dentata* by monotypy. Objective synonym: *Drepanoceras*. Synonym: *Pseudocristigera*.
- Drepanostoma* ENGELMANN 1862 [E00055: 382]. TS: *D. striatum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Homonym of *D.* PORRO 1836, mollusc.

Preoccupied name, which has fallen as junior synonym of *Loxodes* (e.g. BÜTSCHLI 1889 [LB0896: 1694]; KAHL 1931 [KAH012: 215]; CORLISS 1960 [COR036: 269]). If the genus is resurrected, a new name is necessary.

***Drilocineta*** RAABE 1972 [Z06221: 143]. TS: *Hysterozineta libyodrili* PUYTORAC 1958 by original designation.

***Durandella*** DRAGASTAN 1972 [CI1543: 937]. TS: *D. helentappani* by original designation.

***Durchoniella*** PUYTORAC 1954 [CI1287: 115]. TS: *Anoplophrya brasili* LEGER & DUBOSC 1894 by original designation. Revision: PUYTORAC (1972 [CI1224: 28]).

***Dysteria*** HUXLEY 1857 [E00243: 78]. TS: *D. armata* by monotypy. Synonyms: *Aegyria*, *Cypridium*, *Dysteropsis partim*, *Ervilia*, *Gastrochaeta*, *Huxleya*, *Iduna*. Key to marine species: CAREY (1992 [LB0008: 123]).

***Dysterioides*** MATTHES 1950 [E00878: 595]. TS: *D. sessilina* by monotypy. Feminine gender according to Article 30.1.4.4 of the Code.

***Dysteropsis*** ROUX 1899 [CI1017: 581]. TS: *D. minuta* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misdated with "1901" in KAHL (1931 [KAH012: 240]). Synonym of *Dysteria* and *Trochilia* (e.g. KAHL 1931 [KAH012: 256, 249]; CORLISS 1961 [COR113: 127]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

## E

***Eclissa*** SCHRANK 1803 [PR1036: 101]. The generic name was suppressed for the purposes of the principle of priority but not for those of the principle of homonymy and placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1956 [CI1451: 45], name number 441) (cp. MELVILLE & SMITH 1987 [EV0797: 85]). Substitute name of the preoccupied *Eclissa* MODEER 1790; ascribed to "MODEER" by EHRENBERG (1838 [EHR010: 276, 290]). Misdated with "1802" in HEMMING (1954 [CI1560: 216]). Synonym of *Stentor partim* (e.g. EHRENBERG 1838 [EHR010: 263]; BÜTSCHLI 1889 [LB0896: 1728]), *Didinium partim*, *Vorticella partim* (e.g. EHRENBERG 1838 [EHR010: 269, 276]; BÜTSCHLI 1889 [LB0896: 1763]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

***Echinella*** BORY 1824 [Z06512: 291]. No type species fixed. Synonym of *Ophrydium* (e.g. EHRENBERG 1838 [EHR010: 293]; BÜTSCHLI 1889 [LB0896: 1768], ascribed to "AGARDH 1824"). Junior homonym in insects.

***Echinichona*** JANKOWSKI 1973 [CI1504: 19]. TS: *E. regina* by original designation (& monotypy).

***Echinocyclus*** JANKOWSKI 1980 [CI1013: 119]. TS: *Cyclidium stercoris* POWERS 1935 by original designation (& monotypy). Incorrectly ascribed to "JANKOWSKI n. gen." in SMALL & LYNN (1985 [Z06206: 423, 541]). Objectiv synonym: *Abathostoma*.

***Echinofolliculina*** DONS 1934 [E00395: 28]. TS: *E. mortenseni* by monotypy.

***Echinomeron*** JANKOWSKI 1980 [CI1013: 119]. TS: *Cryptochilidium polynucleatum* NIE 1934 by original designation (& monotypy). Synonymy with *Metaxystomium* and redescription of type species: BERGER (1994 [E01577: 169]).

***Echinophrya*** SWARCZEWSKY 1928 [E00100: 12]. TS: *E. horrida* by monotypy.

***Echinosociella*** BERGER in SMALL & LYNN 1985 [Z06206: 539]. TS: *E. striatus* by monotypy. First mentioned by BERGER in CORLISS (1979 [COR085: 266]) without description or definition, thus a nomen nudum (Art. 13.1; Code).

***Echinostrombidium*** JANKOWSKI 1978 [CI1413: 40]. TS: *Strombidium symbioticum* JANKOWSKI 1974 by monotypy.

- Eclissa* MODEER 1790 [CI1578: 242]. The generic name was suppressed for the purposes of the principle of priority but not for those of the principle of homonymy and placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1956 [CI1451: 45], name number 440) (cp. MELVILLE & SMITH 1987 [EV0797: 86]). Synonym of *Stentor* (e.g. EHRENBERG 1838 [EHR010: 263]).
- Ehrenbergius* ORMANCEY 1852 [CI1528: 286]. TS: *E. deformis* by monotypy. According to BÜTSCHLI (1889 [LB0896: 1774]) perhaps a synonym of *Scaphidiodon* or a nomen dubium. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Eilymophrys* CORLISS 1979 [COR085: 276]. TS: *Cystophrys gemmans* BRESSLAU 1922 by original designation (& monotypy). Substitute name of the preoccupied *Cystophrys*.
- Elatodiscophrya* JANKOWSKI 1978 [CI1415: 495]. TS: *Discophrya stammeri* MATTHES 1954 by original designation; incomplete reference to basionym. Genus not recognized by MATTHES (1988 [LB0005: 133]), i.e. species listed in its original combination.
- Electostoma* JANKOWSKI 1979 [CI1188: 72]. TS: *Condylostoma vastum* BOCK 1952 by original designation. Neuter gender according to Article 30.1.2 of the Code.
- Elephantophilus* KOFOID 1935 [BM1067: 505]. TS: *E. zeta* by monotypy.
- "Eleutherochona". Ascribed to "JANKOWSKI 1971" without reference in JANKOWSKI (1972 [CI1497: 1618], also in CORLISS (1979 [COR085: 230]), where it is only mentioned that the genus was established for *Stylochona sivertseni* DONS 1948. Since no definition was given, it is a nomen nudum (Art. 13.1; Code).
- Eliptophrya* KIJENSKIJ 1926 [E00387: 19]. No type species fixed. Synonym of *Anoplophrya* (e.g. CORLISS 1979 [COR085: 269]).
- Elitarcon* JANKOWSKI 1981 [CI1416: 107]. TS: *E. harmothois* by original designation (& monotypy). Masculine gender according to Article 30.2.4 of the Code.
- Elliptothigma* MEIER 1954 [CI1399: 239]. TS: *E. limnodrili* by original designation. Misspelled "Elleptothigma" in PUYTORAC (1969 [E00086]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: RAABE (1972 [Z06221: 162]).
- Ellobiophrya* CHATTON & LWOFF 1923 [E00495: 749]. TS: *E. donacis* by monotypy. Misdated with "1924" in LOM & PUYTORAC (1994 [Z06202: 714]). Synonym: *Clausophrya*.
- Elytroplastron* KOFOID & MACLENNAN 1932 [CI1238: 119]. TS: *E. bubali* by original designation (& monotypy).
- Eminothigma* JANKOWSKI in CORLISS 1979 [COR085: 268]. TS: *Epicharocotyle kozloffi* PUYTORAC 1968 by original designation. Substitute name of the preoccupied *Puytoracia* RAABE 1972. Incorrectly ascribed to "CORLISS" in the Zoological Record (CD-version).
- "Emmaninius". Not made available by YAMASAKI (1939 [E00951: 67]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Listed as synonym of *Clevelandella* by CORLISS (1979 [COR085: 298]).
- Encheleis* SCOPOLI 1777 [E01000: 374]. Superfluous substitute name for *Enchelis* MÜLLER 1773 (cp. SCHULZE et al. 1929 [LB0603: 1135]).
- Enchelydium* KAHL 1930 [KAH007: 395]. TS: *E. fusidens* by original designation mentioned in a somewhat conditional manner, which is not to be regarded as a type designation in the meaning of the Code (Art. 67.5.3). Moreover it is a junior homonym of *Enchelydium* EHRENBERG 1836, nematode; EHRENBERG'S original spelling *Enchelidium* was emended by AGASSIZ (1848 [LB1030: 397]). However, the junior name should have precedence over the senior name, because the nematode genus is not recorded in the Zoological Record (CD-version), but many congeneric ciliate species have been

- described in recent years (e.g. FOISSNER 1984 [FOI110: 38]). Thus, *Enchelydium* KAHL 1930 is proposed as nomen protectum. Synonym: *Pseudoenchelys*.
- Enchelyodon*** CLAPARÈDE & LACHMANN 1859 [E00118: 316]. No type species fixed; FOISSNER (1987 [FOI180: 224]) mentioned *E. farctus* without reference, thus further investigations concerning eligibility are required. Misdated with "1858" in KAHL (1930 [KAH008: 110]). Synonym: *Lagynus*. Key to marine species: CAREY (1992 [LB0008: 49]).
- Enchelyomorpha*** KAHL 1930 [KAH008: 140]. TS: *Enchelys vermicularis* SMITH 1899 by monotypy. Redescriptions of type species: AUGUSTIN & FOISSNER (1992 [FOI251: 250]); FOISSNER et al. (1995 [FOI340: 456]).
- Enchelyotricha*** FOISSNER 1987 [FOI180: 224]. TS: *E. binucleata* by monotypy.
- Enchelys*** MÜLLER 1773 [E00132: xxvii, 33]. TS: *Enchelis farcimen* by subsequent designation by FROMENTEL (1875 [E00689: 188]); placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 2391). CORLISS & DOUGHERTY (1967 [COR196: 170]) overlooked that FROMENTEL (1875 [E00689: 188]) already established *Enchelis farcimen* as type species. MÜLLER original spelling *Enchelis* was emended by BERTHOLD (1827 [E02216: 575]) and not "EHRENBERG 1838" as indicated in BÜTSCHLI (1889 [LB0896: 1680]). Emendation validated and placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1910) (cp. MELVILLE & SMITH 1987 [EV0797: 88]). Ascribed to "HILL 1752" in KAHL (1930 [KAH008: 96]) and CAREY (1992 [LB0008: 50]), but this author is pre-linnean, thus the generic name is excluded according to Article 3.2. of the Code. Misspelled "Euchelis" in DALLA TORRE (1891 [CI1203: 195]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Disoma*. Key to marine species: CAREY (1992 [LB0008: 50]).
- "Endogyrinella". TS: *Orbopercularia ominosa* LUST 1950 by original designation. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Endoralium*** ELOFF & HOVEN 1980 [E00503: 86]. TS: *E. loxodontae* by monotypy.
- Endosphaera*** ENGELMANN 1876 [E00756: 601]. Established without species. MATTHES (1988 [LB0005: 62]) recognized four species, but did not designate a type species. The oldest included species is *E. engelmanni* ENTZ 1896. Synonym: *Parendosphaera*.
- Enerthecoma*** JAROCKI 1935 [BM1064: 223]. TS: *E. properans* by monotypy. Described twice as new genus in the same year (cp. [E00419: 11]). Misspelled "Enertnecoma" in the Zoological Record (CD-version), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Review: RAABE (1970 [Z06218: 432]).
- Engelmanniella*** FOISSNER 1982 [FOI083: 66], including redescription of type species. TS: *Uroleptus mobilis* ENGELMANN 1862 by original designation (& monotypy). Improved diagnoses: WIRNSBERGER-AESCHT et al. (1990 [FOI234: 47], including redescription of type species); EIGNER (1995 [CI1456: 363]). No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 893]).
- Enigmostoma*** JANKOWSKI 1976 [CI1412: 168]. TS: *Nassula ougandae* DRAGESCO 1972 by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code. In his very short publication JANKOWSKI (1975 [E00250: 27]) merely stated that he established *Enigmostoma* "for *Nassula ougandae*". Without characterization and without bibliographic reference it is a nomen nudum (Art. 13.1; Code). Since *Enigmostoma ougandae* (DRAGESCO 1972) JANKOWSKI 1975 and *Kuklikophrya dragescoi* NJINÉ 1979 are synonymous one genus name must be suppressed (cp. FOISSNER & ADAM 1981 [FOI077: 318]). By strict application of Article 13 the JANKOWSKI'S desk-name can and must be abandoned (cp. FOISSNER 1993 [FOI282: 627]). Synonym of *Kuklikophrya* (e.g. FOISSNER 1993 [FOI282: 627]).



- Enneameron* JANKOWSKI 1964 [CI1377: 272]. TS: *Nassula brunnea* FABRE-DOMERGUE 1885 by monotypy; basionym incompletely given. Feminine gender according to Article 30.2.3 of the Code. Synonym of *Nassulopsis* (e.g. FOISSNER et al. 1994 [FOI300: 430]).
- Enoploplastron* KOFOID & MACLENNAN 1932 [CI1238: 140]. TS: *Diplodinium triloricaum* DOGIEL 1925 by original designation.
- Enterophrya* HASSELMANN 1918 [CI1535: 81]. TS: *E. elongata* by original designation. Resurrected genus (cp. CORLISS 1979 [COR085: 220]). Redescription of type species: ITO & IMAI (2000 [Z04569: 70]).
- Entodinium* STEIN 1859 [CI1555: 69]. TS: *E. bursa* by subsequent designation by BUISSON (1923 [E00500: 234; not explicitly stated]). Further characterized by STEIN in the same year (cp. [CI1394: 58]). Misspelled "Entonidium", viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code), by APSTEIN (1915 [Z06263: 123]), who proposed the genus as nomen conservandum. Misdated with "1858" for instance in BHATIA (1936 [CI1030: 277]), DOGIEL (1927 [BM0278: 35]), KOFOID & MACLENNAN (1930 [CI1247: 471]), and LATTEUR (1968 [CI1233: 1]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]). Revisions and keys to species: DOGIEL (1927 [BM0278: 35]); KOFOID & MACLENNAN (1930 [CI1247: 471]); LATTEUR (1968 [CI1233: 1]).
- Entodiscoides* SONG, WARREN & WILBERT 1996 [E00868: 296]. TS: *E. echini* by original designation. Masculine gender according to Article 30.1.4.4 of the Code.
- Entodiscus* MADSEN 1931 [E00285: 99]. TS: *E. borealis* (basionym *Cryptochilum boreale* HENTSCHEL 1924) by original designation. Improved diagnosis: SONG et al. (1999 [CI1680: 233]).
- Entorhipidium* LYNCH 1929 [E00282: 27]. TS: *E. echini* by original designation.
- Entziella* STILLER 1951 [E01325: 31]. TS: *E. asellicola* by original designation (& monotypy).
- Eodinium* KOFOID & MACLENNAN 1932 [CI1238: 69]. TS: *E. lobatum* by original designation.
- Eometopus* SMALL & LYNN 1985 [Z06206: 430]. TS: *E. simplex* by monotypy. Junior homonym in trilobites.
- Epaxella* CORLISS 1960 [COR036: 274]. TS: *Epaxis mirabilis* ROUX 1899 by original designation (& monotypy). Substitute name of the preoccupied *Epaxis*.
- Epaxis* ROUX 1899 [CI1017: 596]. Homonym of *E. COSSMANN* 1889, mollusc. Misdated with "1901" in KAHL (1932 [KAH014: 521]). Also spelled "Expaxis" in CORLISS (1960 [COR036: 274]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Objective synonym of *Epaxella* CORLISS 1960.
- Epenardia* CORLISS 1971 [COR063: 354]. TS: *Glaucoma myriophylli* PENARD 1922 by original designation (& monotypy). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 106]).
- Ephelota* WRIGHT 1858 [CI1405: 279]. No type species fixed. Synonym: *Hemiophrya*.
- Epicancella* KOFOID & CAMPBELL 1929 [CI1434: 173]. TS: *Cyttarocylis nervosa* CLEVE 1900 by original designation (& monotypy). *Epicancella* was originally described as a subgenus of *Epiplocylis* and elevated to generic rank by KOFOID & CAMPBELL (1939 [E00262: 137]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Epicarchesium* JANKOWSKI 1985 [CI1417: 96]. TS: *Carchesium granulatum* KELLICOTT 1887 by original designation (& monotypy). Improved diagnosis and redescription of type species: LEITNER & FOISSNER (1997 [FOI394: 14]).

- Epicharocotyle*** KOZLOFF 1965 [CI1269: 337]. TS: *E. kyburzi* by monotypy. Revision: RAABE (1972 [Z06221: 166]).
- Epiclintes*** STEIN 1863 [CI1286: 162]. TS: *Trichoda felis* MÜLLER 1786 by monotypy. Described in more detail again by STEIN (1864 [CI4149: 44]). Misdated with "1859" in KAHL (1932 [KAH014: 569]). Incorrectly ascribed to "MÜLLER 1786" in TUFFRAU & FLEURY (1994 [Z06341: 140]). Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188: 53]). Revision, nomenclature, and key to species: CAREY & TATCHELL (1983 [CI1088: 42]; misdated "1862"), who also summarized the complicated nomenclatural history of the type species. WICKLOW & BORROR (1990 [Z00362: 192]) considered *E. felis* as nomen oblitum and treated "*E. ambiguus* (MÜLLER 1789 [sic]) BÜTSCHLI 1889" (basionym *Trichoda ambigua*) as type species. This view is supported by SONG & WARREN (1996 [CI1576: 233]), who redescribed *E. ambiguus*. However, STEIN when establishing the nominal genus *Epiclintes* fixed *Trichoda felis* as the type species by monotypy, moreover, *Trichoda ambigua* is type species of *Spirostomum*, thus the case should be submitted to the I.C.Z.N. Synonyms: *Claparedia*, *Diplagiotricha*.
- Epicranella*** KOFOID & CAMPBELL 1929 [CI1434: 358]. TS: *E. prismatica* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Epiderites*** MARSCHALL 1873 [LB0873: 476]. Masculine gender according to Article 30.1.4.4 of the Code. Superfluous substitute name for *Epiclintes* STEIN 1863 (cp. SCHULZE et al. 1929 [LB0603: 1168]).
- Epidinium*** CRAWLEY 1923 [E00540: 395]. TS: *Diplodinium ecaudatum* FIORENTINI 1889 by original designation. Revisions and keys to species: DOGIEL (1927 [BM0278: 156]); KOFOID & MACLENNAN (1933 [BM0612: 1]).
- Epidiophrys*** JANKOWSKI 1979 [CI1188: 52]. TS: *Diophrys quadricaudatus* AGAMALIEV 1967 by original designation (& monotypy). Established as subgenus of *Diophrys*.
- Epidiscophrya*** JANKOWSKI 1981 [CI1416: 111]. TS: *E. scyphostyla* (basionym *Discophrya elongata* var. *scyphostyla* COLLIN 1912) by original designation; now considered as synonym of *Discophrya elongata* (CLAPARÈDE & LACHMANN 1858) COLLIN 1911 by MATTHES (1988 [LB0005: 93]). Synonym of *Discophrya* by placement of the type species.
- Epifolliculina*** HADŽI 1951 [E00001: 222]. TS: *E. diaphana* by monotypy.
- Epimecophrya*** KAHL 1933 [KAH015: 78]. TS: *E. cylindrica* by monotypy. Type species misspelled "*E. cylindria*" and "gen. et spec. n." repeated in KAHL (1935 [KAH019: 833]).
- Epiorella*** KOFOID & CAMPBELL 1939 [E00262: 134]. TS: *Cyttarocylis reticulata* OSTENFELD & SCHMIDT 1902 by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Junior objective synonym of *Epiplocyloides* HADA 1938 due to the same type species (Art. 61.3.3; Code).
- Epiplastron*** KOFOID & MACLENNAN 1933 [BM0612: 1]. TS: *E. africanum* (basionym *Ophryoscolex ecaudatus africanus* DOGIEL 1925) by original designation.
- Epiplocylis*** JÖRGENSEN 1924 [E00252: 54]. TS: *Cyttarocylis acuminata* DADAY 1887 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 172]). Feminine gender according to Article 30.2.3 of the Code. Misspelled "Epiplacylis" in FELINSKA (1957 [E01194: 22]), "Epiplosylis" in BALECH (1962 [PR1124: 46]), "Epiplocysis" in ROXAS (1941 [E01237: 95]), and "Eyplocylis" as well as "Epipocylis" in BALECH (1962 [PR1124: 74, pl. 8]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1925" in NEAVE (1939 [LB0752: 268]). KOFOID & CAMPBELL (1929 [CI1434: 173]) established two subgenera, but *Epicanella* was elevated to generic rank later. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).

- Epirocycloides*** HADA 1938 [E00232: 129]. TS: *Cyttarocylis reticulata* OSTENFELD & SCHMIDT 1902 by original designation. Feminine gender according to Article 30.1.4.4 of the Code. Misspelled "Epyrocycloides" in BALECH (1962 [PR1124: pl. 8]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Objective synonym: *Epiorella*. Key to marine species: YOO & KIM (1990 [E02095: 98]).
- Epirhabdonella*** KOFOID & CAMPBELL 1939 [E00262: 158]. TS: *E. coronata* by original designation. Misspelled "Epirrhobonella" in CAMPBELL in CAMPBELL & MOORE (1954 [E01177: D176, D178]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 306]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Epirhabdosella*** CAMPBELL 1942 [E00200: 131]. TS: *Salpingella cuneolata* KOFOID & CAMPBELL 1929 by original designation. Misspelled "Epirrhobosella" in CAMPBELL in CAMPBELL & MOORE (1954 [E01177: D176, D178]); listed as synonym by CORLISS (1979 [COR085: 307]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Synonym of *Rhabdosella* (e.g. CORLISS 1979 [COR085: 307]).
- EpiSPATHIDIUM*** FOISSNER 1984 [FOI110: 81]. TS: *E. regium* by original designation.
- Epistylis*** EHRENBERG 1830 [EHR001: 41]. TS: *E. plicatilis* EHRENBERG 1831 by subsequent designation by FROMENTEL (1875 [E00689: 144]). GUHL (1979 [CI1315: 428]) incorrectly stated *E. digitalis* as type species (Art. 69.1; Code). Ascribed to "EHRENBERG 1838" in KAHL (1935 [KAH019: 680]). Misspelled "Epystylis" in JANKOWSKI (1976 [CI1411: 168]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Synonyms: *Allomeron*, *Digitalina*, *Indosphaera*, *Mespilina*, *Myrtilina*, *Nidula*, *Orthochona*. Nomenclature and redescriptions of type species (FOISSNER et al. 1992 [FOI265: 205]).
- Epitokophrya*** JANKOWSKI 1978 [CI1415: 495]. TS: *Podophrya quadripartita* CLAPARÈDE & LACHMANN 1859 by original designation (& monotypy); incomplete reference to basionym. Established as subgenus of *Tokophryopsis*. Junior objective synonym of *Tokophrya* BÜTSCHLI 1889 due to the same type species (Art. 61.3.3; Code; cp. also CURDS 1985 [E00541: 169]; I.C.Z.N. 1994 [CI1522: 268]).
- Erastophrya*** FAURÉ-FREMIET 1943 [E00501: 145]. TS: *E. chattoni* by monotypy. Genus revision and improved diagnosis: CURDS (1985 [E00541: 188]); misdated with "1944". Key to species: MATTHES (1988 [LB0005: 38]).
- Eremoplastron*** KOFOID & MACLENNAN 1932 [CI1238: 88]. TS: *Diplodinium rostratum* FIORENTINI 1889 by original designation.
- Eriocharon*** ITO & IMAI 2000 [Z04569: 73]. TS: *Paraisotricha acuminata* CUNHA 1915 by original designation (& monotypy). Objective synonym of *Protocaviella* KOPPERI 1935 due to the same type species (Art. 61.3.3; Code).
- Eriochona*** JANKOWSKI 1973 [AEB543: 321]. TS: *E. horrida* by original designation.
- Erionella*** JANKOWSKI 1978 [CI1413: 40]. TS: *Keronopsis macrostoma* DRAGESCO 1963 by original designation (& monotypy). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]); in the same paper (page 56) also synonymized with *Holosticha*.
- Erniella*** FOISSNER 1987 [FOI176: 218]. TS: *E. filiformis* by original designation (& monotypy).
- Ervilia*** DUJARDIN 1841 [CI1202: 455]. TS: *E. legumen* by monotypy. First mentioned by DUJARDIN (1840 [E00054: 286]) without description or definition, thus a nomen nudum

- (Art. 12.1; Code). Homonym of *E. TURTON* 1822, bivalve. Misdated with "1840" in CORLISS (1960 [COR036: 272]). Incorrectly ascribed to "ENTZ 1879" in CAREY (1992 [LB0008: 125]), who considered the genus (in fact *Ervilia salina* ENTZ 1879) as synonym of *Trochilia*. Synonym of *Aegyria* (e.g. CLAPARÈDE & LACHMANN 1858 [E00117: 72]); and subsequently *Dysteria* (e.g. CORLISS 1979 [COR085: 229]). If the genus is resurrected, a new name is necessary.
- Erythroopsis* HERTWIG 1884 [E00728: 204]. TS: *E. agilis* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Based on a single, badly conserved specimen, thus considered as nomen dubium, possibly a synonym of *Spastostyla (Rhabdostyla) sertularium* (e.g. VOGT 1885 [E00656: 53]) and subsequently *Vorticella* (e.g. BÜTSCHLI 1889 [LB0896: 1773]).
- Eschaneustyla* STOKES 1886 [E00702: 28]. TS: *E. brachytona* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]). Improved diagnosis and redescription of type species: EIGNER (1994 [CI1619: 462]).
- Espejoia* BÜRGER 1908 [E00194: 175]. TS: *E. obtusa* by monotypy.
- Estuaricola* JANKOWSKI 1979 [CI1188: 60]. TS: *Paraholosticha polychaeta* BORROR 1966 by original designation (& monotypy). Established as subgenus of *Paraholosticha*. Feminine gender according to Article 30.1.4.2 of the Code. Synonym of *Keronopsis* by placement of the type species (cp. BLATTERER & FOISSNER 1988 [FOI191: 56]).
- Encamptocerca* CUNHA 1914 [E00377: 174]; also spelled "Encaptocerca", probably par lapsus. TS: *E. longa* by monotypy. Possibly a synonym of *Chilodontopsis* (e.g. KAHL 1931 [KAH012: 227]). Considered as incertae sedis of the Orthodonellidae by CORLISS (1979 [COR085: 225]). Likely a nomen dubium.
- Eudiplodinium* DOGIEL 1927 [BM0278: 104]. TS: *Diplodinium maggii* FIORENTINI 1889 by subsequent designation. Established as subgenus of *Diplodinium*. Revision and improved diagnosis: KOFOID & MACLENNAN (1932 [CI1238: 103]).
- Eudrilophrya* PUYTORAC 1970 [CI1237: 79]. TS: *E. complanata* by monotypy. Revision: PUYTORAC (1972 [CI1224: 30]).
- Eufolliculina* HADŽI 1951 [E00001: 16]. TS: *Folliculina moebiusi* KAHL 1932 (for *Folliculina ampulla* sensu MÖBIUS 1885, partim) by subsequent designation by MULISCH & PATTERSON (1983 [CI1241: 242]), including an improved diagnosis.
- Eumonodontophrya* HEIDENREICH 1935 [Z06236: 389]. TS: *Monodontophrya kijenskiji* CHEISSIN 1930 by monotypy. Synonym of *Monodontophrya* (e.g. PUYTORAC 1972 [CI1224: 34]; CORLISS 1979 [COR085: 271]).
- Euophryodendron* COLLIN 1912 [E01049: 390]. COLLIN and later KAHL (1934 [KAH018: 220]) mentioned two sections or groups, respectively of *Ophryodendron*, namely "*Pro-Ophryodendron* and *Eu-Ophryodendron*", which would have to be automatically corrected to *Proophryodendron* and *Euophryodendron*. These names are not recorded in nomenclators and have not been used by later authors (e.g. CORLISS 1979 [COR085]). However, names proposed for collective groups are to be treated as genus-group names (Arts. 10.3, 42.2.1; Code), but need not be accompanied by a type fixation (Arts. 13.3.2, 43.2.1, 66; Code).
- Euploea* EHRENBERG 1830 [EHR001: 43]. Homonym of *E. FABRICIUS* 1807, lepidopteran insect. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Objective synonym of *Euplotes*.
- Euploia* LOHMANN 1920 [E00590: 222]. TS: *E. pelagica* by monotypy. Considered as nomen dubium by BORROR (1972 [CI1191: 19]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]).
- Euplotaspis* CHATTON & SÉGUÉLA 1936 [CI1384: 332]. TS: *E. cionaecola* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]).

- Euplotes*** EHRENBERG in HEMPRICH & EHRENBERG 1831 [EHR031: unpag.]. TS: *Euploea charon* EHRENBERG 1830 by monotypy. Substitute name for *Euploea*. The subsequent designation of *Euplotes patella* as type species by FROMENTEL (1875 [E00689: 164]) is incorrect (Art. 69.1; Code). APSTEIN (1915 [Z06263: 123]; dated "1831") proposed the genus as nomen conservandum. Misspelled "Ruplotes" in JANKOWSKI (1979 [CI1188: 53]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Ascribed to "EHRENBERG 1831" in KAHL (1932 [KAH014: 628]) and FOISSNER & FOISSNER (1988 [FOI196: 95]). Ascribed to "EHRENBERG 1830" in CORLISS (1979 [COR085: 312]), JANKOWSKI (1979 [CI1188: 53]), CAREY (1992 [LB0008: 203]), SMALL & LYNN (1985 [Z06206: 422]), TUFFRAU & FLEURY (1994 [Z06341: 106]), and SONG & WANG (1999 [Z06464: 74]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 53]; basionym cited as *Trichoda charon* MÜLLER 1773). Nominotypical subgenus (Art. 44; Code): JANKOWSKI (1979 [CI1188: 54]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]). Objective synonyms: *Euploea*, *Clypta*. Synonyms: *Coccludina*, *Crateromorpha*, *Himantophorus*, *Ploesconia*, *Tribulina*. Revision: TUFFRAU (1960 [E00947: 1]); CURDS (1975 [E02208: 3]); GATES (1985 [CI1139: 43]); BORROR & HILL (1995 [CI1462: 460]). Key to marine species: CAREY (1992 [LB0008: 203]).
- Euplotidium*** NOLAND 1937 [E00299: 169]. TS: *E. agitatum* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 54]). Keys to marine species: CURDS & WU (1983 [E02101: 234]); YOO & KIM (1990 [E02095: 110]); CAREY (1992 [LB0008: 212]).
- Euplotoides*** BORROR & HILL 1995 [CI1462: 460]. TS: *Kerona patella* MÜLLER 1773 by original designation. Feminine gender according to Article 30.1.4.4 of the Code.
- Euplotopsis*** BORROR & HILL 1995 [CI1462: 460]. TS: *Ploesconia affinis* DUJARDIN 1841 by original designation. Feminine gender according to Article 30.1.2 of the Code. Synonyms: *Mideuplotes*, *Neteuplotes*.
- Eupoterion*** MACLENNAN & CONNELL 1931 [CI1400: 141]. TS: *E. pernix* by original designation (& monotypy). Revision: RAABE (1970 [Z06217: 150]). Synonym of *Ancistrum* (e.g. CHATTON & LWOFF 1949 [E02099]; CORLISS 1979 [COR085: 267]).
- Eurhabdonella*** KOFOID & CAMPBELL 1939 [E00262: 155]. TS: *Protorhabdonella* (*Eurhabdonella*) *mira* KOFOID & CAMPBELL 1929 by original designation. Established as subgenus of *Protorhabdonella*. Misspelled "Eurrhabdonella" in CAMPBELL in CAMPBELL & MOORE (1954 [E01177: D176]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Eurychilum*** ANDRÉ 1910 [E00511: 174]. TS: *E. actinae* by monotypy.
- Eurychona*** JANKOWSKI 1973 [AEB543: 327]. TS: *E. vitrea* by original designation (& monotypy).
- Eutintinnus*** KOFOID & CAMPBELL 1939 [E00262: 358]. TS: *Tintinnus birictus* KOFOID & CAMPBELL 1929 by original designation. Misspelled "Eusintinnus" in BALECH (1962 [PR1124: pl. 14]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nominotypical subgenus (Art. 44; Code): KOFOID & CAMPBELL (1939 [E00262: 363]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Key to marine species: YOO & KIM (1990 [E02095: 110]).
- Euxystonellopsis*** KOFOID & CAMPBELL 1939 [E00262: 213]. TS: *Cyttarocyliis* (*Xystonella*) *ornata* BRANDT 1906 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Xystonellopsis*. Misspelled "Exystonellopsis" in SCHWARZ (1964 [E01239: 217]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).

*Extensiscopula* BANINA in BANINA et al. 1984 [AEB550: 317]. TS: *Apiosoma extensum* SCHEUBEL 1973 by original designation. Established as subgenus of *Apiosoma*. Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Latin diminutive suffix "-ula" is feminine, viz. *Extensiscopula extensa* nom. corr.

## F

*Fabrea* HENNEGUY 1890 [E00238: 118]. TS: *F. salina* by monotypy. Synonym: *Bursalinus*.

*Falconyctus* JANKOWSKI 1978 [CI1413: 39], also spelled "Faltonyctus" on the same page, possibly par lapsus. TS: *Nyctotherus indicus* RAO by monotypy; incomplete reference to basionym.

*Faltacineta* JANKOWSKI 1981 [CI1416: 94]. TS: *Paracineta pleuromammae* STEUER 1928 by original designation. Synonym of *Actinocyathula* (e.g. CURDS 1987 [E02043: 76]).

*Faurea* DRAGESCO 1954 [CI1054: 636]. Homonym of *F.* LABBÉ 1927, crustacean. Objective synonym of *Ciliofaurea* DRAGESCO 1960. Misdated with "1953" in CAREY (1992 [LB0008: 99]).

"Faureia". Not made available by TUCOLESCO (1962 [E00374: 92]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Homonym of *F.* UVAROV 1921, orthopteran insect. Objective synonym of the likewise unavailable "Spelaeonecta" JANKOWSKI 1975.

*Faurella* ROQUE 1966 [E00320: 65]. Homonym of *F.* ROBINEAU-DESVOIDY 1830, dipteran insect. Objective synonym of *Physanter* JANKOWSKI 1975.

*Favella* JØRGENSEN 1924 [E00252: 25]. TS: *Tintinnus ehrenbergii* CLAPARÈDE & LACHMANN 1858 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 147]; spelled "*F. ehrenbergii*"). Revision: KOFOID & CAMPBELL (1929 [CI1434: 147]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Key to marine species: YOO & KIM (1990 [E02095: 101]).

*Favelloides* THALMANN 1942 [E01242: 1837]. TS: "Favelloides" *balearicus* COLOM 1939 by original designation. Masculine gender according to Article 30.1.4.4 of the Code. Name not made available by COLOM (1939 [CI1480: 818], 1940 [E00996: 3]) since no type species was designated (Art. 13.3; Code); validated by THALMANN (see above). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).

*Fenchelia* RAABE 1970 [Z06217: 130, 153]. TS: *Ancistrum crassum* FENCHEL 1965 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Latin suffix "-ia" is feminine, viz. *F. crassa* nom. corr.

*Ferodiscophrya* JANKOWSKI 1981 [CI1416: 110]. TS: *Acineta cothurnata* WEISSE 1874 by original designation. Synonym of *Discophrya* by placement of the type species (cp. MATTHES (1988 [LB0005: 97]; dated "1847-48").

*Fibrillobundleia* STRELKOW 1939 [E00141: 48]. TS: *Bundleia (Fibrillobundleia) benbrooki* by original designation. Established as subgenus of *Bundleia*.

*Filichona* JANKOWSKI 1973 [AEB543: 203]. TS: *F. paradoxa* by original designation (& monotypy).

*Filiformis* HIRSHFIELD, ISQUITH & BHANDARY 1965 [E00811: 139]. TS: *Blepharisma intermedium* BHANDARY by original designation; incomplete reference to basionym. Established as subgenus of *Blepharisma*. Not recorded by later authors (e.g. CORLISS (1979 [COR085])). Subgeneric name not currently used.

- Fiorentinus* JANKOWSKI 1986 [CI1525: 87]. TS: *Didesmis ovalis* FIORENTINI 1890 by original designation (& monotypy). Junior objective synonym of *Holophryoides* GASSOVSKY 1919 due to same type species (Art. 61.3.3; Code).
- Fitonacineta* JANKOWSKI 1981 [CI1416: 112]. TS: *Acineta periacinetoides* NOZAWA 1938 by original designation, now considered as synonym of *Discophrya buckei* by MATTHES (1988 [LB0005: 135]). Established as subgenus of *Periacineta*. Synonym of *Discophrya* by placement of the type species.
- Flectacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta livadiana* MERESCHKOWSKI by original designation (& monotypy); incomplete reference to basionym. Improved diagnosis and key to species: CURDS (1987 [E02043: 101]).
- Flectichona* JANKOWSKI 1973 [AEB543: 311]. TS: *F. crenata* by original designation.
- "Flectocarina". TS: *Lynchella dirempta* DEROUX by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Foettingeria* CAULLERY & MESNIL 1903 [E00008: 806]. TS: *Plagiotoma actiniarum* CLAPARÈDE 1863 by monotypy. Misdated with "1930" in PUYTORAC (1994 [Z06340: 839]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Redescription of type species: SILVA NETO et al. (1989 [E02111: 191]).
- Foissnerella* JANKOWSKI 1986 [CI1525: 72]. TS: *F. physonica* by original designation (& monotypy).
- Foissneria* MIRABDULLAYEV 1986 [CI1162: 928]. TS: *F. viridis* by original designation. Synonym of *Colpodidium* (FOISSNER, personal communication).
- Foissnerides* SONG & WILBERT 1989 [CI1206: 26]. TS: *F. heliophagus* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- Foliacella* MAKARIEVA 1979 [E01027: 60]. TS: *F. propatula* by original designation (& monotypy).
- Foliella* LOM 1959 [E00770: 534]. TS: *Trichodinella (Foliella) subtilis* by monotypy. Established as subgenus of *Trichodinella*. Synonym of *Trichodinella* (e.g. CORLISS 1979 [COR085: 277]; GUHL & HAIDER 1988 [LB0344: 251]).
- Folliculina* LAMARCK 1816 [E00124: 29]. TS: *Vorticella ampulla* MÜLLER 1786 by subsequent designation by KAHL (1932 [KAH014: 469]). Misspelled "Folliculina" in BORY (1824 [Z06533: 417]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1815" in KAHL (1932 [KAH014: 469]). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Objective synonym: *Freia*. Synonym: *Lagotia*.
- "Folliculinopsis". Feminine gender according to Article 30.1.2 of the Code. However, not made available by FAURÉ-FREMIET (1935 [CI1427: 1133]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Established with seven species. Treated as valid by BUSSERS et al. (1979 [E02110: 358]).
- Fragmocirrus* FOISSNER 2000 [FOI463: 61]. TS: *F. espeletiae* by original designation (& monotypy).
- Freia* CLAPARÈDE & LACHMANN 1858 [E00117: 217]. TS: *Vorticella ampulla* MÜLLER 1786 by subsequent designation (KENT 1881 [E00073: 597]). Misspelling "Freya", which would be preoccupied, noted by CORLISS 1979 [COR085: 299]). Misdated with "1856" in KAHL (1932 [KAH014: 470]), probably because LACHMANN (1856 [E00077: 362]) gave a short notice on the new genus corresponding to a nomen nudum. Synonym of *Metafolliculina* partim (e.g. CORLISS 1979 [COR085: 299]), who also mentioned the unavailable "Halofolliculina". Objective synonym of *Folliculina* due to the same type species (Art. 61.3.3; Code).

- Frontonia** EHRENBERG 1838 [EHR010: 329, cp. 326]. TS: *Bursaria leucas* EHRENBERG 1833 by subsequent designation by FROMENTEL (1875 [E00689: 190]). In 1838 EHRENBERG indicated that *Frontonia* was established in "1832", but it could not be traced on the respective page (cp. [EHR003: 234]; also not recorded in nomenclators). Established as subgenus of *Bursaria*; raised to generic rank by CLAPARÈDE & LACHMANN 1858 [E00117: 259]. Synonyms: *Aglenophrya*, *Cyrtostomum*, *Frontoniella*, *Panophrys*, *Sigmostomum*. Revision: BULLINGTON (1939 [Z00449: 10]). Key to marine species: CAREY (1992 [LB0008: 129]). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 169]).
- Frontoniella** WETZEL 1927 [BM1042: 130]. TS: *F. complanata* by monotypy. Synonym of *Frontonia* (e.g. CORLISS 1961 [COR113: 148]).
- Fundenia** VUXANOVICI 1962 [E00743: 337]. TS: *F. complanata* by monotypy.
- Fungella** CLEVE 1900 [E00404: 22]. TS: *F. arctica* by monotypy. According to NEAVE (1939 [LB0752: 426]) the senior homonym *F.* HAGENOW 1851, bryozoa, is a nomen nudum. Misdated with "1899" and stated as questionably tintinnid in LOEBLICH & TAPPAN (1968 [CI1533: 187]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Fungiophrya** FOISSNER 1999 [FOI433: 34]. TS: *F. strobili* by original designation (& monotypy).
- Furgasonia** JANKOWSKI 1964 [CI1377: 272]. TS: *Nassula tricirrata* GELEI 1932 by monotypy. Synonym: *Cyclogramma*.
- Furssenkoiella** MAKARIEVA 1979 [E01027: 54]. TS: *F. caucasia* by original designation (& monotypy).
- Fuscheria** FOISSNER 1983 [FOI090: 66]. TS: *F. nodosa* by original designation (& monotypy).

## G

- Gajewskajophrya** MATTHES 1988 [LB0005: 179]. TS: *Sphaerophrya melosirae* GAJEWSKAJA 1933 by monotypy. Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 725]).
- Gajewskiella** OBOLKINA 1989 [CI1573: 5]. TS: *G. macrostoma* by original designation (& monotypy).
- Gargarius** CHATTON & LWOFF 1934 [CI1387: 375]. TS: *G. gargarius* by monotypy. Revision: RAABE (1970 [Z06218: 447]). Synonym: *Rhynchophrya* RAABE non COLLIN.
- Gassovskiella** GRAIN 1994 [Z06201: 362]. TS: *Triadinium galea* GASSOVSKY 1918 by monotypy.
- Gastrochaeta** DUJARDIN 1841 [CI1202: 384]. TS: *G. fissa* by monotypy. First mentioned by DUJARDIN (1840 [E00054: 285], spelled "Gastrochoeta", probably par lapsus), but without description or definition, thus a nomen nudum (Art. 12.1; Code). Misspelled "Gasterochaeta" in DIESING (1850 [E01007: 10, 120]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Both names are listed as nomina oblita in CORLISS (1979 [COR085: 208]). Synonym of *Dysteria* (e.g. BÜTSCHLI 1889 [LB0896: 1700]; misspelled "Gasterochaeta").
- Gastrocirrhus** LEPSI 1928 [BM0667: 195]. TS: *G. intermedius* by monotypy. Synonym: *Cirrhogaster*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 80]), who established the subgenus *Spongiocirrhus* without mentioning the nominotypical genus (Art. 44.1; Code). Key to species: CURDS & WU (1983 [E02101: 229]).



- Gastronauta** ENGELMANN in BÜTSCHLI 1889 [LB0896: 1696]. TS: *G. membranaceus* by monotypy. Misspelled "Gastronanta" in KAHL (1926 [KAH001: 199, 303]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Incorrectly ascribed to "ENGELMANN 1875" in KAHL (1931 [KAH012: 233]), SMALL & LYNN (1985 [Z06206: 420]), and DEROUX (1994 [Z06324: 414]). Authorship and date corrected to "BÜTSCHLI 1889" by FOISSNER (1987 [FOI173: 221]), but according to Recommendation 51E of the Code, the responsible author should be mentioned. Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 106]).
- "Gastronecta". TS: "*G. vittata*" (for *Gastronauta membranaceus* sensu PENARD 1922) by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- "Gastrosticha". Only used in the figure legends by KAHL (1932 [KAH012: 581]), but repeated and not indicated as new on page 597, where *Stichochaeta mereschkowskii* ANDRUSSOWA 1886 is considered as nomen dubium. Moreover, not included in the index, thus the name is obviously introduced par lapsus. However, indicated as revalidated without new data by JANKOWSKI (1978 [CI1413: 40]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 54]).
- Gastrostyla** ENGELMANN 1862 [E00055: 383]. TS: *G. steinii* by monotypy. Misdated with "1861" in KAHL (1932 [KAH014: 593]) and TUFFRAU & FLEURY (1994 [Z06341: 143]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 54]). Generic authorship incorrectly ascribed to "KAHL 1932" by SONG & WANG (1999 [Z06464: 73]). Synonym: *Nothopleurotricha*. Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 272]). Key to marine species: CAREY (1992 [LB0008: 190]). Improved diagnoses: EIGNER & FOISSNER (1994 [FOI306: 260]); PETZ & FOISSNER (1996 [FOI395: 277]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 789]), who mentioned the misspellings "Gasterostyla", "Gastostyla", "Gastrostila", "Gastrostylus", "Gastrosyla", "Gastrotyla".
- Gastrotricha** WRZEŚNIEWSKI 1866 [E00438: 21]. No type species fixed. Described twice as new genus by WRZEŚNIEWSKI (1866 and 1867 [E00757: 83]). Misspelled "Gasterotricha" in BÜTSCHLI (1889 [LB0896: 1691]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). WRZEŚNIEWSKI (1870 [CI1041: 495]) replaced the genus name by *Litonotus* unnecessarily, because the supposed senior homonym only refers to a small metazoan class, viz. the gastrotrichs of METSCHNIKOW (1865 [E02224]). Since *Litonotus* is a well introduced name, a reversal of precedence is proposed.
- Geimania** ALBARET 1975 [E00155: 46]. TS: *Nyctotherus jaboti* CARINI 1938 by original designation. Misdated with "1974" in TUFFRAU & PUYTORAC (1994 [Z06320: 69]).
- Geleia** FOISSNER 1998 [FOI426: 308]. TS: "*Geleia*" *fossata* KAHL 1933 by original designation. KAHL (1933 [KAH015: 76]) established the genus with three new species, none designates as type (Art. 13.3; Code). This was overlooked not only by KAHL but also by later workers (e.g. CORLISS 1979 [COR085: 212]). FOISSNER thus declared KAHL'S genus to be a nomen nudum, but reinstalled *Geleia* to avoid an inflation of names. Key to marine species: CAREY (1992 [LB0008: 96]). Revision: DRAGESCO (1999 [CI1678: 9]).
- Geleliella** STILLER 1939 [CI1341: 53]. TS: *G. vagans* by monotypy. Misdated with "1932" in KAHL (1935 [KAH019: 666]). Synonym of *Astylozoon* (e.g. CORLISS 1979 [COR085: 273]).
- Gellertia** DRAGESCO 1999 [CI1678: 32]. TS: *Geleia heterotricha* DRAGESCO 1960 by original designation (& monotypy).
- Georgevitchiella** PUYTORAC 1957 [E00307: 106]. TS: *Mesnilella aculeata* GEORGÉVITCH 1941 by monotypy. Revision: PUYTORAC (1972 [CI1224: 33]).

- Gerda** CLAPARÈDE & LACHMANN 1858 [E00117: 117]. TS: *G. glans* by monotypy. Considered as synonym of *Ophrydium* by KAHL (1935 [KAH019: 752]). Resurrected by CORLISS (1979 [COR085: 275]). Key to species: GUHL (1985 [Z06301: 141]).
- Gervasius** ORMANCEY 1852 [CI1528: 288]. TS: *G. hemisphericus* by monotypy. Nomen dubium in BÜTSCHLI (1889 [LB0896: 1774]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Gigantothrix** FOISSNER 1999 [FOI430: 367]. TS: *G. herzogi* by original designation (& monotypy).
- Glaucoma** EHRENBERG 1830 [EHR001: 42]. TS: *G. scintillans* by monotypy; placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 2392). Placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1911) (cp. MELVILLE & SMITH 1987 [EV0797: 98]). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Synonyms: *Acomia*, *Dallasia*, *Diplomastax*, *Diplomestoma*, *Ptyxidium*. Partial revision: CORLISS (1971 [COR063: 348]). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 92]).
- Glaucomella** GROLIÈRE 1977 [CI1020: 282]. TS: *Glaucoma sagitta* KAHL 1926 by monotypy.
- Glauconema** THOMPSON 1966 [BM1078: 393]. TS: *G. trihymene* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Glenopanophrys** DIESING 1866 [CI1490: 517]. TS: *Ophryoglena flavicans* EHRENBERG 1831 by monotypy. Introduced without species one month before the first species was mentioned (cp. [CI1511: 84]). Synonym of *Ophryoglena* (e.g. BÜTSCHLI 1889 [LB0896: 1703]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Glenotrochilia** DIESING 1866 [CI1490: 510, 564]. TS: *Aegyria oliva* CLAPARÈDE & LACHMANN 1859 by monotypy. Synonym of *Aegyria* (e.g. BÜTSCHLI 1889 [LB0896: 1698]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Glossa** GOURRET & ROESER 1888 [E00060: 660]. TS: *G. corsica* by monotypy. Synonym of *Pleuronema* (e.g. KAHL 1931 [KAH012: 388]; misspelled "Pleuronemaum", viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Glossatella** BÜTSCHLI 1889 [LB0896: 1766]. TS: *Spirochona tintinnabulum* KENT 1881 by monotypy. Synonym: *Cordylosoma*. Synonym of *Apiosoma* by placement of the type species (e.g. KAHL 1935 [KAH019: 668]; CORLISS 1979 [COR085: 274]; BANINA et al. 1984 [AEB550: 302]).
- Goniocoma** CHATTON & LWOFF 1950 [CI1386: 401]. TS: *Hypocomella macomae* CHATTON & LWOFF 1926 by original designation (& monotypy). Revision: RAABE (1970 [Z06218: 440]).
- Gonostomum** STERKI 1878 [CI1070: 57]. TS: *G. affine* (basionym *Oxytricha affinis* STEIN 1859) by original designation. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]), who mentioned the misspellings "Gonostomum" (page 55), "Gonostoma" and "Gonostomus" (page 62). Revision and key to species: MAEDA & CAREY (1984 [Z04553: 9]). Improved diagnosis and synonymy of *Plagiotricha*: BERGER & FOISSNER (1997 [FOI445: 145]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 367]), who mentioned the further incorrect subsequent spellings "Gonostomun" and "Gonyostomum".
- Gonzeella** KUFFERATH 1953 [E00584: 30]. TS: *G. coloniaris* by monotypy.
- Gorgonosoma** SWARCZEWSKY 1928 [Z06227: 369]. TS: *G. arbuscula* by monotypy, now considered as synonym of *Dendrosoma radians* (e.g. MATTHES 1988 [LB0005: 57]; misspelled "G. arbuscala"). Neuter gender according to Article 30.1.2 of the Code, thus

- mandatory change of gender ending necessary, viz. *G. arbusculum* nom. corr. Synonym of *Dendrosoma* by placement of the type species.
- Gorillophilus** IMAI, IKEDA, COLLET & BONHOMME 1991 [CI1164: 271]. TS: *G. thoracatus* by monotypy.
- Grainis** JANKOWSKI 1997 [CI1617: 1]. TS: *G. dizoon* by original designation (& monotypy).
- Grandoria** CORLISS 1960 [COR036: 274]. TS: *Lagenella aculeata* GRANDORI & GRANDORI 1934 by original designation (& monotypy). Substitute name of the preoccupied *Lagenella*. Revision: FOISSNER (1993 [FOI282: 384]).
- Grossglockneria** FOISSNER 1980 [FOI066: 399]. TS: *G. acuta* by original designation. Key to species: FOISSNER (1993 [FOI282: 398]). Erroneously indicated as nomen nudum in FOISSNER 1981 in the Zoological Record (CD-version).
- Gruberella** CORLISS 1960 [COR036: 275]. TS: *Stylocoma oviformis* GRUBER 1884 by original designation (& monotypy). Substitute name of the preoccupied *Stylocoma*. Misspelled "Grumberella" in EDWARDS & VEVERS (1975 [LB0757: 130]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]) as synonym of *Diophrys* (page 66). Key to species: CURDS & WU (1983 [E02101: 242]). Junior homonym in gymnamoebae.
- Gruberia** KAHL 1932 [KAH014: 440]. TS: *G. uninucleata* by original designation. Key to marine species: CAREY (1992 [LB0008: 152]).
- Gravelina** DELPHY 1939 [E00174: 52]. TS: *G. longissima* by original designation. Synonym of *Trachelocerca* (e.g. FOISSNER & DRAGESCO 1996 [FOI371: 45]).
- Gullmarella** FENCHEL 1964 [E00211: 311]. TS: *G. faurei* by monotypy.
- Gymnodinioides** MINKIEWICZ 1912 [E00595: 513]. TS: *G. inkystans* by subsequent designation by CHATTON & LWOFF (1935 [BM0192: 132]; not explicitly stated). Masculine gender according to Article 30.1.4.4 of the Code. Synonyms: *Hyalospira*, *Oospira*, *Physophaga*.
- Gymnopharynx** DIESING 1866 [CI1490: 506, 529]. TS: *G. typicus* (for *Prorodon edentatus* CLAPARÈDE & LACHMANN 1859) by original designation according to Article 68.2.2 of the Code. Synonym of *Prorodon* (e.g. BÜTSCHLI 1889 [LB0896: 1682]; CORLISS 1961 [COR113: 121]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Gymnopithus** KAHL 1926 [KAH001: 299]. TS: *G. ovatus* by monotypy. Synonym of *Pithothorax* (e.g. KAHL 1930 [KAH008: 107]; CORLISS 1979 [COR085: 215]).
- Gymnozoum** MEUNIER 1910 [E00131: 180]. TS: *G. viviparum* by monotypy. Synonyms: *Kryoprorodon*, *Spioprorodon*. Improved diagnosis and redescription of type species: PETZ et al. (1995 [CI1432: 69]).
- Gyrocorys** STEIN 1860 [E00817: 44]. TS: *G. oxyura* by monotypy. Misspelled "Gyrocyrus" in GRUBER (1879 [CI1406: 552]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Calcaria*. Synonym of *Caenomorpha* (e.g. BÜTSCHLI 1889 [LB0896: 1730]; POCHE 1913 [PR1084: 257]; CORLISS 1979 [COR085: 299]).

## H

- Habrodon** PERTY 1852 [E00084: 147]. TS: *H. curvatus* by monotypy. Synonym of *Prorodon* (e.g. KENT 1881 [E00073: 494]), *Spathidium* (e.g. BÜTSCHLI 1889 [LB0896: 1680]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Hackenbergia** FOISSNER 1997 [FOI335: 230]. TS: *H. langae* by original designation (& monotypy).

- Hadziella* RADOIČIĆ 1962 [E01234: 193]. Homonym of *H. KUSCER* 1932, mollusc. Objective synonym of *Hadziina* RADOIČIĆ 1969. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]; dated 1963), who overlooked the homonymy.
- Hadziina* RADOIČIĆ 1969 [E00317: 27]. TS: *Hadziella zetae* RADOIČIĆ 1962 by monotypy. Substitute name of the preoccupied *Hadziella*. Uncertain tintinnine or part of the body of fossil molluscs (CORLISS 1979 [COR085: 307]). Possibly a nomen dubium.
- Haematophagus* WOODCOCK & LODGE 1920 [E00649: 7]. TS: *H. megaptere* by monotypy.
- Hallezia* SAND 1895 [E00089: 161]. TS: *H. multitentaculata* by subsequent designation by CORLISS (1960 [COR036: 270]). Homonym of *H. KALENATI* 1848, trichopteran insect, and *H. GIRARD* 1893, nemertean. Misdated with "1896" in EDWARDS & TOBIAS (1993 [LB0758: 616]). Synonym of *Paracineta* (e.g. CORLISS 1960 [COR036: 270], 1979 [COR085: 237]) and *Brachyosoma* (e.g. CURDS 1985 [E00541: 188]). If the genus is resurrected, a new name is necessary.
- Hallia* CUNHA & MUNIZ 1927 [E00361: 826]. Substitute name of the preoccupied *Rhipidostoma* CUNHA & MUNIZ 1925. Homonym of *Hallia* MILNE-EDWARDS & HAIME 1850, coelenterate. Objective synonym of *Protohallia* CUNHA & MUNIZ 1927.
- "Halofolliculina". Not made available by HADŽI (1951 [E00001: 150]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Synonym: *Freia* partim.
- Halsiopsis* STOKES 1894 [E00331: 344]. Feminine gender according to Article 30.1.2 of the Code. Superfluous substitute name of *Halsis* STOKES 1889, which is not preoccupied, thus an objective synonym.
- Halsis* STOKES 1889 [CI1103: 481]. TS: *H. furcata* by monotypy. Objective synonym: *Halsiopsis*. Synonym of *Tokophrya* (e.g. KAHL 1930 [KAH008: 140]; spelled "Tocophrya"). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Halteria* DUJARDIN 1841 [CI1202: 414]. TS: *Trichoda grandinella* MÜLLER 1773 by monotypy. First mentioned by DUJARDIN (1840 [E00054: 285]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). Misspelled "Hetteria" in SCHIEDERMAYR (1882 [E01392: 48]) and "Haltaria" in CAREY (1992 [LB0008: 165]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1842" in KAHL (1932 [KAH014: 504]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]). Partial revision and key to species: DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 421]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1991 [FOI243: 137], 1999 [FOI450: 559]).
- Halterioforma* HORVÁTH 1956 [Z06238: 274]. TS: *H. caudata* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]). Synonym: *Jeannellia*. Possibly an oligotrich, but likely a nomen dubium (cp. SONG et al. 1999 [CI1685: 84]).
- Halteroides* HIRSHFIELD, ISQUITH & BHANDARY 1965 [E00811: 142]. TS: *Blepharisma tropicum* BHANDARY by original designation; incomplete reference to basionym. Established as subgenus of *Blepharisma*. Not recorded in CORLISS (1979 [COR085]). Subgeneric name not in current use.
- Haplocaulus* WARREN 1988 [CI1431: 128]. TS: "*Haplocaulus*" *furcellariae* PRECHT 1935 by original designation. PRECHT (1935 [CI1593: 456]) established the genus with two species non designating as type, thus it is a nomen nudum (Art. 13.3; Code). Although he ascribed the genus to PRECHT, WARREN himself validated the genus. Synonym: *Spastostyla*. Revision and key to species: WARREN (1988 [CI1431: 128]).
- Haptophrya* STEIN 1867 [PR1075: 169]. TS: *Opalina planariarum* SIEBOLD 1839 by monotypy. Substitute name (only indicated by brackets) of *Discophrya* STEIN 1860. Misspelled "Haplophrya" in STEIN (final classification table p. 210 of vol. i, cp. KENT

- 1881 [E00073: 568]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nomenclatural-taxonomic history: CORLISS et al. (1965 [COR048: 8]). Objective synonym: *Sieboldiellina*.
- Haptophryopsis** PUYTORAC 1971 [CI1236: 81]. TS: *H. pheretimae* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misdated with "1970" in PUYTORAC (1994 [Z06337: 783]).
- Harmacoma** JANKOWSKI 1980 [CI1013: 119]. TS: *Hypocoma rostellum* DEROUX 1976 by original designation (& monotypy).
- Harmodirus** PERTY 1852 [E00084: 151]. TS: *H. ovum* by monotypy. Synonym of *Trachelius* (e.g. CLAPARÈDE & LACHMANN 1859 [E00118: 345]; BÜTSCHLI 1889 [LB0896: 1692]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Hartmannula** POCHE 1913 [PR1084: 255]. TS: *Onychodactylus acrobates* ENTZ 1884 by original designation (& monotypy). Substitute name of the preoccupied *Onychodactylus*. Synonym: *Aegyria*.
- Hartmannulopsis** DEROUX & DRAGESCO 1968 [CI1228: 370]. TS: *H. dysteriana* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code.
- Hastarcon** JANKOWSKI 1981 [CI1416: 102]. TS: *H. islandicus* by original designation (& monotypy). Masculine gender according to Article 30.2.3 of the Code.
- Hastatella** ERLANGER 1890 [E00396: 657]. TS: *H. radians* by monotypy. Revision and redescription of type species: FOISSNER (1977 [FOI037: 363]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1992 [FOI265: 295], 1999 [FOI450: 460]).
- Hausmanniella** FOISSNER 1984 [FOI110: 101]. TS: *Colpoda discoidea* GELLÉRT 1956 by original designation. Redescription of type species: FOISSNER (1984 [FOI110: 103]). Revision and key to species: FOISSNER (1993 [FOI282: 271]).
- Helella** KACZANOWSKI 1961 [E00254: 247]. Homonym of H. SMITH 1882, crustacean. Misspelled "Hellella" in PUYTORAC (1972 [CI1224: 20]); CORLISS (1979 [COR085: 271]) also listed "Hellela" as synonym, both are incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Objective synonym of *Helellophrys* nom. nov.
- Helellophrya** nomen novum for the preoccupied *Helella*. TS: *H. rhizodrili* KACZANOWSKI 1961 by original designation (& monotypy). Derivation: Composition of *Helella* and the Greek "ophrys" (eyebrow, cilium, ciliate sensu lato). Gender: feminine.
- Helianter** JANKOWSKI 1969 [CI1674: 34]. TS: *Paramecium putrinum* CLAPARÈDE & LACHMANN 1858 by original designation. Established as subgenus of *Paramecium*. Synonym of *Paramecium* (e.g. CORLISS 1979 [COR085: 260]).
- Helicoprorodon** FAURÉ-FREMIET 1950 [E00969: 52]. TS: *Chaenea gigas* KAHL 1933 by monotypy. The genus *Chaenea* is not a synonym as indicated by CAREY (1992 [LB0008: 35], including a key to marine species), but the basionym of the type species.
- Helicostoma** COHN 1866 [CI1419: 277]. TS: *H. oblongum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Synonym: *Porpostoma*. Keys to species: RAMA MOHAN RAO et al. (1981 [CI1215: 189]); CAREY (1992 [LB0008: 133]).
- Helicostomella** JÖRGENSEN 1924 [E00252: 24]. TS: *Tintinnus subulata* EHRENBERG 1834 by monotypy. Misspelled "Helicostromella" in MURRAY & TAYLOR (1965 [E01222: pl.1]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 104]). Key to marine species: YOO & KIM (1990 [E02095: 97]).
- Helicozoster** LATTEUR 1967 [CI1423: 93]. TS: *H. indicus* by original designation (& monotypy). Key to species: VAN HOVEN et al. (1998 [Z06372: 119]).

- Heliochona*** PLATE 1889 [E00773: 172]. TS: *H. sessilis* by monotypy. Misdated with "1888" in JANKOWSKI (1972 [CI1497: 162]). Misspelled "Haliochona" in DOVGAL (1983 [E02036: 72]) and spelled "Halichona [Helichona]" in the Zoological Record (CD-version), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code);
- Heliophrya*** SAEDELEER & TELLIER 1930 [BM1076: 12]. TS: *H. collini* by monotypy, now considered as synonym of *H. rotunda* (HENTSCHEL 1916) MATTHES 1954 (basionym *Trichophrya rotunda*) (e.g. MATTHES 1954 [CI1349: 145]; RIEDER 1988 [CI1506: 75], misdated with "1929"; FOISSNER et al. 1995 [FOI340: 428]). Objective synonym: *Platophrya*. Synonyms: *Craspedophrya*, *Paraheliophrya*. Revisions and keys to species: MATTHES (1954 [CI1349: 143], 1988 [LB0005: 60]); JANKOWSKI (1981 [CI1416]). Improved diagnosis: RIEDER (1988 [CI1506: 72]).
- Heliotheca*** JANKOWSKI 1978 [CI1415: 495]. TS: *Thecacineteta caepula* PENARD 1920 by original designation (& monotypy); basionym incompletely given.
- Hemiamphisiella*** FOISSNER 1988 [FOI194: 121]. TS: *H. terricola* by original designation. Improved diagnosis: EIGNER & FOISSNER (1994 [FOI306: 260]); PETZ & FOISSNER (1996 [FOI395: 277]).
- Hemicycliostyla*** STOKES 1886 [E00702: 22]. TS: *H. sphagni* by subsequent designation by JANKOWSKI (1979 [CI1188: 55]). Misspelling "Hemiciplostyla" listed as synonym in CORLISS (1979 [COR085: 309]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188: 55]).
- Hemicyclium*** EBERHARD 1862 [CI1475: 21]. TS: *H. lucidum* by monotypy. Synonym of *Microthorax* (e.g. CORLISS 1961 [COR113: 129]).
- Hemigastrostyla*** SONG & WILBERT 1997 [Z06246: 421]. TS: *Oxytricha stenocephala* BORROR 1963 by original designation. Improved diagnosis: SONG & HU (1999 [CI3316: 251]).
- Hemiholosticha*** GELEI 1954 [CI1002: 314]. TS: *H. viridis* by monotypy. Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188: 55]).
- Heminotus*** KAHL 1933 [KAH015: 61]. TS: *H. caudatus* by monotypy.
- Hemiophrya*** KENT 1882 [E00074: 822]. No type species fixed. Synonym of *Ephelota* (e.g. CORLISS 1979 [COR085: 237]).
- Hemiophrys*** WRZEŚNIEWSKI 1866 [E00438: 22]. TS: *H. diaphanes* by monotypy. Later authors refer to "WRZEŚNIEWSKI 1870" following KAHL (see below), although in this paper, he (cp. [CI1041: 467]) has noted that the results had already been published in Polish earlier. KAHL (1931 [KAH012: 188]; dated "1870") considered the type species as synonym of *H. meleagris* EHRENBERG 1835 and *Hemiophrys* as subgenus of *Litonotus* (cp. also CORLISS 1961 [COR113: 122]). Synonym of *Amphileptus* (e.g. FOISSNER 1984 [FOI109: 204]; DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 175]).
- Hemiprorodon*** STRELKOW 1939 [E00141: 16]. TS: *H. gymnoposthium* by original designation (& monotypy).
- Hemisincirra*** HEMBERGER in FOISSNER 1984 [FOI110: 119]. TS: *Uroleptus kahli* BUITKAMP 1977 by original designation. FOISSNER used the generic name from the unpublished thesis of HEMBERGER and thus before the original description was published by HEMBERGER (1985 [CI1194: 408]). No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 893]), who also clarified the nomenclature.
- Hemispeira*** FABRE-DOMERGUE 1888 [E00701: 255]. TS: *H. asteriasi* by monotypy. Revision: RAABE (1970 [Z06217: 171]). Synonym: *Hemispeiropsis*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]).

- Hemispeiropsis* KÖNIG 1894 [CI1597: 55]. TS: *H. comatulae* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Hemispeira* (e.g. RAABE 1970 [Z06217: 171]; CORLISS 1979 [COR085: 268]).
- Hemistomiosphaera* NOWAK 1968 [PR1180: 324]. TS: *Cadosina parvula* NAGY 1966 by original designation (& monotypy). Uncertain tintinnine (CORLISS 1979 [COR085: 307]). Probably a nomen dubium.
- Hemitrichodina* BASSON & VAN AS 1989 [CI1118: 154]. TS: *H. robusta* by original designation (& monotypy).
- Herpetophrya* SIEDLECKI 1902 [E00039: 356]. TS: *H. astoma* by monotypy.
- Herpinella* PUYTORAC 1954 [CI1287: 215]. TS: *H. enigmatica* by original designation (& monotypy).
- Heterochona* JANKOWSKI 1972 [CI1497: 1621]. TS: *H. crinita* by original designation.
- Heterocineta* MAWRODIADI 1927 [E01028: 445]. TS: *H. anodontae* by monotypy. Nomenclatural history concerning the junior synonym *Hypocomatophora* see JAROCKI (1934 [BM0516: 169]). Treated as nomen nudum and synonym of *Hypocomella* (e.g. RAABE 1970 [Z06218: 422]; CORLISS 1979 [COR085: 233]).
- Heterocinetopsis* JAROCKI 1935 [BM1064: 225]. TS: *H. reichenowi* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Described twice as new genus in the same year by JAROCKI (cp. also [E00419: 11]). Revision: RAABE (1970 [Z06218: 429]).
- Heterocoma* CHATTON & LWOFF 1939 [E00217: 429]. Homonym of *H. BARNES & MCDUNNOUGH* 1918, lepidopteran insect. Objective synonym of *Rhynchocoma* JANKOWSKI 1975.
- Heteropolaria* FOISSNER & SCHUBERT 1977 [FOI039: 231]. TS: *Epistylis horizontalis* CHATTON 1936 by original designation.
- Heterostrombidium* SONG 1999 [Z06466: 159]. TS: *Strombidium calkinsi* FAURÉ-FREMIET 1932 by original designation. Improved diagnosis: SONG et al. (2000 [Z06639: 336]). Objective synonym of *Thigmostrombidium* JANKOWSKI 1978 due to the same type species (Art. 61.3.3; Code).
- Hexotricha* CONN in CONN & EDMONDSON 1918 [E00162: 277]. TS: *H. globosa* by monotypy. CONN (1905 [PR1087: 53; Fig. 184]) described a questionable "new genus (?)" without naming it. CONN in CONN & EDMONDSON (1918 [E00162: 277]) introduced the name "*Hexotricha globosa* CONN 1905", without citing a reference. In the saprobiological literature frequently misspelled "Hexotrichia" perhaps following LACKEY (1925 [PR1115: 32]). According to FOISSNER et al. (1994 [FOI300: 483]) redescription of all species necessary.
- Himantophorus* EHRENBERG 1838 [EHR010: 375]. TS: *Himantopus charon* MÜLLER 1786 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]). Substitute name of the preoccupied *Himantopus*. Synonym: *Ploesconia*. Synonym of *Onychodromus* (e.g. STEIN 1859 [PR1074: 145]; BÜTSCHLI 1889 [LB0896: 1746]) or *Euplotes* (e.g. BÜTSCHLI 1889 [LB0896: 1752]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Himantopus* MÜLLER 1786 [E00405: 248]. Homonym of *H. BRISSON* 1756, bird. Objective synonym of *Himantophorus* EHRENBERG 1838. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]) with the authorship "EHRENBERG 1834", the type species "*H. charon* (MÜLLER 1773)" and synonymy with *Euplotes*. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Hippocomos* CZAPIK & JORDAN 1977 [E00165: 157]. TS: *H. loricatus* by monotypy.
- Histiobalantium* STOKES 1886 [E00703: 105]. TS: *H. agile* by monotypy. Misspelled "Histerobalantidium" in BÜTSCHLI (1889 [LB0896: 1713]), "Histiobalantidium" in

- WATERHOUSE (1912 [LB0947]), "Histiobalanthium" in BURKOVSKY et al. (1983 [CI8052: 947]) and further misspelling "Histiobalantum" listed as synonyms in CORLISS (1979 [COR085: 266]), but incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code); this also applies to "Histobalantium" in PUYTORAC (1994 [Z06336: 664]). Key to marine species: CAREY (1992 [LB0008: 149]).
- Histriculus*** CORLISS 1960 [COR036: 275]. TS: *Histrio steinii* STERKI 1878 by monotypy, now considered as junior synonym of *Histriculus histrio* (basionym *Paramaecium histrio* MÜLLER 1773). Substitute name of the preoccupied *Histrio*. Synonym: *Parahistriculus*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 149]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 645]).
- Histrio*** STERKI 1878 [CI1070: 56]. Homonym of *H. FISCHER* 1813, fish, *H. GISTL* 1848, coleopteran insect, and *H. PFEIFFER* 1854 mollusc. Objective synonym of *Histriculus* CORLISS 1960. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]).
- Holocoma*** CHATTON & LWOFF 1950 [CI1386: 408]. TS: *H. primigenius* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "kome" (hair) is feminine, viz. *H. primigenia* nom. corr. Synonym of *Ancistrocoma* (e.g. CORLISS 1979 [COR085: 233]). Treated as valid by KALAVATI et al. (1987 [E01892: 195]).
- Holophrya*** EHRENBERG 1831 [EHR002: 101]. TS: *H. ovum* by subsequent designation by FROMENTEL (1875 [E00689: 188]). BÜTSCHLI (1889 [LB0896: 1679]) established four "sections on subgenera" without naming them, but he partially mentioned types. Misdated "1833" in PUYTORAC (1994 [Z06331: 582]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Key to marine species: CAREY (1992 [LB0008: 31]). Emended diagnosis and redescription of type species (cp. FOISSNER et al. 1994 [FOI300: 316, 322]).
- Holophryoides*** GASSOVSKY 1919 [E00880: 29]. TS: *Didesmis ovalis* FIORENTINI 1890 by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Misdated with "1918" in GRAIN (1994 [Z06319: 280]). Objective synonym: *Fiorentinus*.
- Holophryozoon*** JIROVEC 1933 [BM0529: 586]. TS: *H. bovi* by monotypy.
- Holosticha*** WRZEŚNIEWSKI 1877 [CI1040: 278]. TS: *H. kessleri* by subsequent designation by JANKOWSKI (1979 [CI1188: 55]). Misdated with "1884" in KAHL (1933 [KAH015: 108]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 55]). Synonyms: *Amphisia*, *Desicaryon*, *Erionella*. KAHL (1932 [KAH014: 571]; 1933 [KAH015: 108f.]) considered several subgenera, not used today. According to FOISSNER et al. (1991 [FOI243: 228]) redescription of type species necessary. Key to marine species: CAREY (1992 [LB0008: 180]).
- Holostichides*** FOISSNER 1987 [FOI176: 201]. TS: *H. chardezi* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code. Improved diagnosis and synonymy of *Parabakuella*: EIGNER (1994 [CI1619: 474]). Key to species: FRANCO et al. (1996 [Z00486: 330])
- Homalogastra*** KAHL 1926 [KAH001: 341]. TS: *H. setosa* by monotypy. Improved diagnosis and synonymy of *Urocyclon*: SONG (1993 [CI1177: 146]).
- Homalozoon*** STOKES 1890 [E00630: 79]. TS: *H. vermiculare* (basionym *Litonotus vermicularis* STOKES 1887) by subsequent designation by KAHL (1930 [KAH007: 389]). Objective synonyms: *Craspedonotus*, *Craspedonotana*. Synonym: *Leptodesmus*. Redescriptions of type species see FOISSNER et al. (1995 [FOI340: 219]).
- Hoplitophrya*** STEIN 1860 [E00098: 57]. TS: *Opalina secans* STEIN 1859 by monotypy. Misdated with "1859" in PUYTORAC (1972 [CI1224: 10]), CORLISS (1979 [COR085:



- 270]), SMALL & LYNN (1985 [Z06206: 423]), and PUYTORAC (1994 [Z06337: 769]). Misspelled "Hoplophrya" in STEIN (final classification table p. 210 of vol. i; cp. KENT 1881 [E00073: 568]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: PUYTORAC (1972 [CI1224: 10]). Synonym: *Protoradiophrya*.
- Horocontus** DEROUX 1976 [E00181: 528]. TS: *H. arcuatus* by monotypy.
- Hovasseiella** PUYTORAC 1955 [CI1291: 20]. TS: *H. polydorae* by monotypy. Revision: PUYTORAC (1972 [CI1224: 29]).
- Hsiungella** IMAI nomen novum for the preoccupied *Hsiungia* IMAI 1988. TS: *Buetschlia triciliata* HSIUNG 1932 by original designation (& monotypy). Derivation: Composition of the personal name HSIUNG and the Latin diminutive suffix "-ella". Gender: feminine. Validated herein according to the correspondence with the original author, thus correct authorship is to be cited as "IMAI in AESCHT 2001".
- Hsiungia** IMAI 1988 [CI1157: 132]. Homonym of *H. K'UNG & YANG* 1964, nematode. Objective synonym of *Hsiungella* IMAI nom. nov.
- Huxleya** CLAPARÈDE & LACHMANN 1859 [E00118: 290]. TS: *H. crassa* by subsequent designation by KENT (1882 [E00074: 757]). Homonym of *H. DYSTER* 1858, bryozoan. Nomen oblitum in CORLISS (1979 [COR085: 208]). Synonym of *Dysteria* (e.g. BÜTSCHLI 1889 [LB0896: 1700]). If the genus is resurrected, a new name is necessary.
- Hyalophysa** BRADBURY 1966 [CI1381: 209]. TS: *H. chattoni* by monotypy. Revision: BRADBURY & CLAMP (1973 [CI1222: 212]).
- Hyalospira** MIYASHITA 1933 [BM0744: 439]. TS: *H. caridinae* by monotypy. Synonym of *Gymnodinioides* (e.g. CHATTON & LWOFF 1935 [BM0192: 133]; CORLISS 1961 [COR113: 139]).
- "Hydranthosoma". Neuter gender according to Article 30.1.2 of the Code. Recorded only once as synonym of *Spelaeophrya* by CORLISS (1979 [COR085: 238]). No further information available and not recorded in nomenclators, likely a nomen nudum (Art. 13.1; Code).
- Hydrochoerella** CUNHA & MUNIZ 1925 [CI1385: 737]. TS: *H. intestinalis* by original designation (& monotypy). Redescription of type species: ITO & IMAI (2000 [Z04569: 55]).
- Hydrophrya** NOZAWA 1938 [E00083: 254]. TS: *H. miyashitai* by monotypy, now considered as synonym of *Spelaeophrya polypoides* by MATTHES (1988 [LB0005: 203]). Synonym of *Spelaeophrya* (e.g. CORLISS 1979 [COR085: 238]).
- Hyloplotes** BUTSCHINSKY 1897 [CI1468: 196]. TS: *H. appendiculatus* by monotypy.
- Hymenostoma** STOKES 1884 [E00699: 121]. TS: *H. hymenophora* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Synonym of *Lembadion* (e.g. BÜTSCHLI 1889 [LB0896: 1712]; KAHL 1931 [KAH012: 327]; CORLISS 1961 [COR113: 146]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Hypocoma** GRUBER 1884 [CI1703: 524]. TS: *H. parasitica* by monotypy. Synonym: *Acinetoides*.
- Hypocomagalma** JAROCKI & RAABE 1932 [CI1524: 36]. TS: *H. dreissenae* by monotypy. Revision: RAABE (1970 [Z06218: 404], also dated with "1933" on page 405).
- Hypocomatidium** JAROCKI & RAABE 1932 [CI1524: 42]. TS: *H. sphaerii* by monotypy. Revision: RAABE (1970 [Z06218: 418]); also dated with "1933" on page 419.
- Hypocomatophora** JAROCKI & RAABE 1932 [CI1524: 39]. TS: *H. unionidarum* by monotypy. Later, JAROCKI (1934 [BM0516: 172]) considered the type species to be synonymous with *Heterocineta anodonatae*. Synonym of *Hypocomella* (e.g. CORLISS 1979 [COR085: 233]).

- Hypocomella*** CHATTON & LWOFF 1924 [E00534: 1928]. TS: *Hypocoma cardii* CHATTON & LWOFF 1922 by monotypy. Revision: RAABE (1970 [Z06218: 422]). Synonyms: *Heterocineta*, *Hypocomatophora*.
- Hypocomides*** CHATTON & LWOFF 1922 [E00640: 788]. TS: *H. modiolariae* by subsequent designation by RAABE (1970 [Z06218: 410]). Masculine gender according to Article 30.1.4.4 of the Code. Revision: RAABE (1970 [Z06218: 408]).
- Hypocomidium*** RAABE 1938 [CI1392: 59]. TS: *H. fabius* by original designation. Revision: RAABE (1970 [Z06218: 436]).
- Hypocomina*** CHATTON & LWOFF 1924 [E00534: 1928]. TS: *Hypocoma patellarum* LICHTENSTEIN 1921 by monotypy. Revision: RAABE (1970 [Z06218: 437]).
- Hypophrya*** LÓPEZ-OCHOTERENA 1964 [BM1068: 222]. TS: *H. fasciculata* by monotypy. Synonym of *Tokophrya* by placement of the type species (cp. MATTHES (1988 [LB0005: 33])).
- Hypotrichidium*** ILOWAISKY 1921 [E00069: 97]. TS: *H. conicum* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 56]). Synonyms: *Peritromoides*, *Spirofilum* GELEI 1929 non GELEI 1944. Taxonomic and ecological monograph of type species: FOISSNER et al. (1991 [FOI243: 218], 1999 [FOI450: 677]).
- Hysterocineta*** DIESING 1866 [CI1490: 509, 555]. TS: *Ptychostomum paludinarum* STEIN 1861 by monotypy. Revision: RAABE (1972 [Z06221: 136]). Synonym: *Ladopsis*.
- Hysterocinetoides*** NGASSAM in PUYTORAC 1994 [Z06298: 744]. TS: *H. intermedius* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. First mentioned by NGASSAM in his unpublished thesis of 1983 ([E02229]; cp. Arts. 8, 9; Code).
- Hysterophrya*** PUYTORAC, GROLIÈRE & GRAIN 1979 [E01033: 858]. TS: *H. enigmatica* by monotypy.

## I

- Ichthyonyctus*** JANKOWSKI 1974 [E00823: 278]. TS: *Nyctotherus schulmani* KY 1971 by original designation (& monotypy).
- Ichthyophthirioides*** ROQUE & PUYTORAC 1968 [CI1430: 465]. TS: *I. browni* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. First mentioned in an abstract by ROQUE & PUYTORAC (1966 [CI1551: 39]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Fully characterized two year later (see above). Synonym of *Ichthyophthirius* (e.g. CORLISS 1979 [COR085: 259]).
- Ichthyophthirius*** FOUQUET 1876 [CI1444: 164]. TS: *I. multifiliis* by monotypy. Synonyms: *Chromatophagus*, *Ichthyophthirioides*. APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum.
- "*Ichthyophyllum*". TS: *Pyxidiella tectiformis* SCHEUBEL 1973 by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Idiocolpoda*** FOISSNER 1993 [FOI317: 175]. TS: *I. pelobia* by original designation (& monotypy).
- Iduna*** CLAPARÈDE & LACHMANN 1859 [E00118: 283]. Homonym of *I.* KEYSERLING & BLASIUS 1840, bird. Preoccupied name, which has fallen as junior synonym of *Dysteria* (e.g. KAHL 1931 [KAH012: 250]; CORLISS 1960 [COR036: 269]); thus unnecessarily replaced by *Torodysteria* JANKOWSKI 1976. Nomen oblitum in CORLISS (1979 [COR085: 208]).

- Ignotocoma*** KOZLOFF 1961 [Z06251: 62]. TS: *I. sabellarum* by monotypy. Revision: RAABE (1970 [Z06218: 434]).
- Ileonema*** STOKES 1884 [E00746: 45]. TS: *I. dispar* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Synonym: *Monomastix*.
- Ilsiella*** FOISSNER 1987 [FO1176: 272]. TS: *I. venusta* by original designation (& monotypy).
- Imperfecta*** BUSCH 1948 [CI1512: 131]. Homonym of *I. MÉHELÿ* 1935, hemipteran insect. Objective synonym of *Buschiella* CORLISS 1960. Misdated with "1949" in LOEBLICH & TAPPAN (1968 [CI1533: 187]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Indonyctus*** JANKOWSKI 1978 [CI1413: 39]. TS: *Nyctotherus marina* SANTHAKUMARI & NAIR by monotypy; incomplete reference to basionym.
- Indosphaera*** JANKOWSKI 1985 [CI1417: 98]. TS: *Conochilus arboreus* RAJENDRAN 1971 by original designation (& monotypy). Established as subgenus of *Epistylis*. Homonym of *Indosphaera* ATTEMS 1935, myriapod. Preoccupied name, which has not been accepted by later authors (cp. Zoological Record (CD-version)), thus falls as junior synonym of *Epistylis*. If the genus is resurrected, a new name is necessary.
- Inermichona*** JANKOWSKI 1971 [CI1496: 1451]. TS: *I. patella* by original designation.
- Inferostoma*** KY 1971 [Z06220: 271]. TS: *I. jankowskii* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Infundibulorium*** BOZHENKO 1925 [E00523]. TS: *I. cameli* by monotypy. Not recorded in nomenclators.
- Inocardion*** MASTERS & SCOTT 1978 [E01048: 215]. TS: *Lagena orbularia* LAPPARENT 1918 by original designation. Masculine gender according to Article 30.2.43 of the Code, thus mandatory change of gender ending necessary, viz. *Inocardion orbularius* nom. corr.
- "Insectinicola". TS: *Opercularia medians* COLLIN 1909 by original designation (& monotypy). Masculine gender according to Article 30.1.4.2 of the Code. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Insignicoma*** KOZLOFF 1946 [CI1271: 210]. TS: *I. venusta* by original designation (& monotypy). Revision: RAABE (1970 [Z06218: 407]).
- Intoshellina*** CÉPÈDE 1910 [E00205: 391]. TS: *I. maupasi* by monotypy. Revision: PUYTORAC (1972 [CI1224: 33]).
- Intranstylum*** FAURÉ-FREMIET 1904 [CI1476: 507]. TS: *I. contrahens* (basionym *Epistylis steini* var. *contrahens* FAURÉ-FREMIET 1904) by subsequent designation by JANKOWSKI (1993 [CI1530: 222]; misdated with "1905"). Misspelled "Intrastylum" in BANINA (1982 [E02083: 148]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 273]).
- Inversochoa*** JANKOWSKI 1973 [CI1504: 22]. TS: *I. peregra* by original designation (& monotypy).
- Isochoa*** JANKOWSKI 1973 [CI1504: 16]. TS: *I. rotundata* by original designation (& monotypy).
- Isochonopsis*** BATISSE & CRUMEYROLLE 1988 [CI1469: 639]. TS: *I. kergueleni* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Isocomides*** CHATTON & LWOFF 1950 [CI1386: 442]. TS: *Hypocomides mytili* CHATTON & LWOFF 1922 by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Revision: RAABE (1970 [Z06218: 413]).

- Isocyclus*** ESTEBAN, FINLAY & EMBLEY 1993 [E00444: 95]. TS: *I. globosum* by original designation (& monotypy). Again established as new by ESTEBAN & FINLAY (1994 [Z06245: 351]).
- Isopodarcon*** JANKOWSKI 1981 [CI1416: 105]. TS: *Ophryodendron multicapitatum* KENT 1882 by original designation (& monotypy).
- Isotricha*** STEIN 1859 [CI1394: 58]. TS: *I. intestinalis* by monotypy. Described twice in the same year (cp. [CI1555: 69]). Misdated with "1858" in BHATIA (1936 [CI1030: 156]).
- Isselina*** CÉPÈDE 1910 [E00205: 473]. TS: *I. intermedia* by monotypy. Synonym of *Protophrya* (e.g. CHATTON & LWOFF 1949 [E02099: 188]). Nomen dubium in CORLISS (1979 [COR085: 267]).

## J

- Jankowskia*** ALEKPEROV 1984 [CI1024: 1891]. TS: *J. mobilis* by original designation. Homonym of *J.* OBERTHUER 1884, lepidopteran insect. Synonym of *Askenasia* (e.g. FOISSNER et al. 1999 [FOI450: 42]). If the genus is resurrected, a new name is necessary.
- Jaocorlissia*** SMALL & LYNN 1985 [Z06206: 525]. TS: *Glaucoma dragescui* CORLISS 1971 by monotypy; which is possibly, a junior synonym of *G. myriophylli* DRAGESCO 1970 as mentioned by CORLISS (1971 [COR063: 350]).
- Jaroschia*** FOISSNER 1993 [FOI282: 739]. TS: *J. sumptuosa* by original designation (& monotypy).
- Jeannellia*** TUCOLESCO 1962 [E00374: 94]. TS: *J. spelea* by monotypy. Synonym of *Halterioforma* (e.g. SONG et al. 1999 [CI1685: 84]).
- Jeppsia*** CORLISS 1960 [COR036: 275]. TS: *Chattonella calani* JEPPI 1937 by original designation (& monotypy). Substitute name of the preoccupied *Chattonella*.
- Jirovecella*** LOM 1957 [CI1368: 229]. TS: *J. hegemonis* by monotypy. Revision: PUYTORAC (1972 [CI1224: 14]).
- Juxtamesnilella*** PUYTORAC 1969 [CI1237: 259]. TS: *J. deronis* by monotypy. Revision: PUYTORAC (1972 [CI1224: 14]). Misdated with "1954" in PUYTORAC (1994 [Z06337: 770]).
- Juxtaradiophrya*** PUYTORAC 1954 [CI1287: 150]. TS: *Mesnilella kochi* HEIDENREICH 1935 by original designation, now considered as synonym of *Juxtaradiophrya elongata* (e.g. PUYTORAC 1972 [CI1224: 10]). Synonym: *Cheissinella*. Revision: PUYTORAC (1972 [CI1224: 16]).

## K

- Kahlia*** HORVÁTH 1932 [Z06234: 424]. Homonym of *K.* ASHMEAD 1900, hymenopteran insect. Objective synonym of *Kahliella* CORLISS 1960. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 56]).
- Kahliella*** TUCOLESCO 1962 [E00373: 31]. TS: *K. leptocirra* by original designation (& monotypy). Misspelled "Kahliella" in EDWARDS & VEVEERS (1975 [LB0757: 154]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 56]); type species misspelled "K. leptosirra".
- Kahliella*** CORLISS 1960 [COR036: 275]. TS: *Kahlia acrobates* HORVÁTH 1932 by original designation (& monotypy). Substitute name of the preoccupied *Kahlia*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 56]). Synonym: *Plesiotricha*. Improved diagnosis: EIGNER (1995 [CI1456: 363]).

- Kahlilembus** GROLIÈRE & COUTEAUX 1984 [CI1172: 82]. TS: *Lembus fusiformis* KAHL 1926 by monotypy, now considered as synonym of *K. attenuatus* (basionym *Lembus attenuata* SMITH 1897) (cp. FOISSNER et al. 1994 [FOI300: 237]). Redescriptions of type species: FOISSNER et al. (1994 [FOI300: 237]).
- Kalometopia** BRAMY 1962 [E00005: 162]. TS: *K. perronnei* by monotypy. Revision and key to species: FOISSNER (1993 [FOI282: 319]).
- Kejvia** KOSHEVOJ 1987 [E01414: 126]. TS: *K. asymmetrica* by original designation (& monotypy).
- Kellicotta** CURDS 1985 [E00982: 121]. TS: *Acineta cuspidata* KELLICOTT 1885 by original designation (& monotypy). Object synonym of *Vasacineta* due to the same type species (Art. 61.3.3; Code). Synonym of *Metacineta* by placement of the type species (cp. MATTHES 1988 [LB0005: 198]).
- Kentrochona** ROMPEL 1894 [E00319: 618]. TS: *K. nebaliae* by monotypy.
- Kentrochonopsis** DOFLEIN 1897 [E00547: 642]. TS: *K. multipara* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Kentrophoros** SAUERBREY 1928 [Z06228: 381]. TS: *K. fasciolatum* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "phoros" (bearer) is masculine, viz. *K. fasciolatus* nom. corr. Objectiv synonyms: *Centrophorella* and *Centrophorus*. Key to marine species: CAREY (1992 [LB0008: 88]). Improved diagnosis and nomenclature: FOISSNER (1995 [FOI355: 177], 1996 [FOI364: 325]).
- Kentrophyllum** PETZ, SONG & WILBERT 1995 [CI1432: 50]. TS: *K. antarcticum* by original designation (& monotypy).
- Kerobalana** BORY 1824 [Z06514: 469]. No type species fixed. Described three times as new genus by BORY (1824, 1825 [E02237: 119], 1836 [E02254: 125]). Synonym of *Vorticella* (e.g. EHRENBERG 1838 [EHR010: 269, 290]; BÜTSCHLI 1889 [LB0896: 1763]).
- Kerona** MÜLLER 1786 [E00405: 233]. TS: *Cyclidium pediculus* MÜLLER 1773 by subsequent selection by EHRENBERG (1838 [EHR010: 368]). Misspelled "Cerona" in PERTY (1852 [E00084: 154]) and "Keratona" in STARMÜHLNER et al. (1972 [E01400: 626]). The complicated nomenclatural history is recently summarized by BERGER (1999 [LB1083: 825]), thus not repeated here. I follow BERGER'S user-friendly proposal for resolving the problem; however, validation by the I.C.Z.N. has not been undertaken as yet. Synonym: *Alastor*. Nomenclature, revision, redescriptions of type species, and key to species: BERGER (1999 [LB1083: 825]).
- Keronella** WIACKOWSKI 1985 [CI1085: 81]. TS: *K. gracilis* by original designation. Improved diagnosis: EIGNER (1994 [CI1619: 474]).
- Keronopsis** PENARD 1922 [E00134: 238]. TS: *K. helluo* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 56]). Synonyms: *Estuariacola*, *Paraholosticha*. Key to marine species: CAREY (1992 [LB0008: 183]).
- Kidderia** RAABE 1934 [BM0892: 291]. Homonym of *K.* DALL 1876, bivalve. Objective synonym: *Morgania*, which was established one month later (cp. CORLISS 1961 [COR113: 152]). Junior objective synonym of *Peniculistoma* JANKOWSKI 1964 due to the same type species (Art. 61.3.3; Code).
- Kiitricha** NOZAWA 1941 [CI1092: 24]. TS: *K. marina* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57]). Redescription of type species: SONG & WILBERT (1997 [Z00495: 51]).
- Kindella** JANKOWSKI 1967 [E00886: 727]. TS: *K. pacifica* by original designation (& monotypy). Synonym of *Opercularia* (e.g. CORLISS 1979 [COR085: 274]).

- Klonostricha** JANKOWSKI 1979 [CI1188: 57]. TS: "Klonostricha" *horrida* VUXANOVICI 1962 by original designation. Established by VUXANOVICI (1962 [E00742: 202]) without designating a type species, thus a nomen nudum (Art. 13.3; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57], misdated with "1963", also spelled "Klonostiche" and with incorrect authorship). Misdated with "1963" in TUFFRAU (1979 [CI1190: 527]).
- Kofoidella** CÉPÈDE 1910 [E00205: 388]. TS: *K. eleutheriae* by monotypy.
- Kopperia** CORLISS 1960 [COR036: 275]. TS: *Malacosoma intestinale* KOPPERI 1935 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Latin suffix "-ia" feminine, viz. *K. intestinalis* nom. corr. Substitute name of the preoccupied *Malacosoma*.
- Kotinia** OBOLKINA nomen novum for the preoccupied *Alexandria*. TS: *A. arcuata* OBOLKINA 1995 by original designation. Named after Bolshie Koty, the locus classicus. Gender: feminine. Validated herein according to the correspondence with the original author, thus correct authorship is to be cited as "OBOLKINA in AESCHT 2001".
- Kovalevaia** FOISSNER 1997 [FOI399: 198], including redescription of type species. TS: *Trachelonema sulcata* KOVALEVA 1966 by original designation (& monotypy). Par lapsus also spelled "Kovaleaia" in DRAGESCO (1999 [CI1628: 29]).
- Kozloffia** PUYTORAC 1969 [E00086: 253]. TS: *K. catemula* by original designation (& monotypy). First mentioned in an abstract by PUYTORAC (1968 [E01324: 42]) and also by PUYTORAC & DRAGESCO (1968 [E00609: 42]), thus contained in unpublished works (Art. 9.9; Code). Fully characterized in PUYTORAC (1969 [E00086: 253]). Revision: RAABE (1972 [Z06221: 133], misdated "1968"). Redescription of type species: NGASSAM et al. (1997 [Z00491: 110]).
- Kozloffia** RAABE 1970 [Z06218: 431]. TS: *Heterocineta phoronopsidis* KOZLOFF 1945 by original designation (& monotypy).
- Krassnigia** FOISSNER 1987 [FOI176: 260]. TS: *K. auxiliaris* by original designation (& monotypy).
- Kreyella** KAHL 1931 [KAH012: 309]. TS: *K. muscicola* by monotypy. Key to species: FOISSNER (1993 [FOI282: 720]).
- Kryoprorodon** ALEKPEROV & MAMAJEVA 1992 [CI1012: 6]. TS: *K. arcticum* by monotypy. Synonym of *Gymnozoum* (e.g. PETZ et al. 1995 [CI1432: 74]).
- Kudoella** EARL 1972 [Z06222: 256]. TS: *Balantidium praenucleatum* KUDO & MEGLITSCH 1938 by original designation. Synonym of *Nyctotheroides* (e.g. CORLISS 1979 [COR085: 297]).
- Kuehneltiella** FOISSNER 1990 [FOI225: 110]. TS: *K. terricola* by original designation (& monotypy). Key to species: FOISSNER (1993 [FOI282: 258]).
- Kuklikophrya** NJINÉ 1979 [CI1144: 589]. TS: *K. dragescoi* by monotypy. Nomenclature, synonymy of *Enigmostoma*, revision, and key to species: FOISSNER (1993 [FOI282: 627]).
- Kyaroikeus** SNEZEK, COATS & SMALL 1995 [Z06255: 261]. TS: *K. cetarius* by original designation (& monotypy).
- Kysthothigma** RAABE 1949 [E00311: 54]. TS: *Ptychostomum bacteriophilum* MIYASHITA 1933 by original designation. CORLISS (1979 [COR085: 268]) listed the misspelling "Kysthothigma" as synonym, but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: RAABE (1972 [Z06221: 176]).
- Kystopus** JANKOWSKI 1967 [CI1568: 35]. TS: *Sphaerophrya parameciorum* MAUPAS 1881 by original designation (& monotypy), now considered as synonym of *Podophrya sol* by MATTHES (1988 [LB0005: 166]). Synonym of *Podophrya* by placement of the type species.

## L

- Laackmanniella** KOFOID & CAMPBELL 1929 [CI1434: 90]. TS: *Codonella naviculaefera* LAACKMANN 1907 by original designation. Misspelled "Laackmaniella" and "Lackmaniella" by BALECH (1947 [E01172: 85, pl. 5]); incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 187]).
- Laboea** LOHMANN 1908 [PR1020: 299]. No type species fixed. Synonym: *Conocylis*. Considered as synonym of *Strombidium* (e.g. KAHL 1932 [KAH014: 492], misspelled "Loboea" on page 496; MAEDA & CAREY 1985 [E02042: 5]). Treated as valid by SANDERS (1995 [E02147: 237]) and SMALL & LYNN (1985 [Z06206: 448]).
- Lacazea** DRAGESCO 1960 [CI1285: 330]. TS: *L. ovalis* by original designation (& monotypy). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57]).
- Lacerus** JANKOWSKI 1967 [CI1569: 36]. TS: *Legendrea pespelicani* PENARD 1922 by original designation (& monotypy). Masculine gender according to Article 30.1.3 of the Code.
- Lachmannella** CÉPÈDE 1910 [E00205: 559]. TS: *Opalina recurva* CLAPARÈDE & LACHMANN 1859 by monotypy; incorrectly dated "1858". Misspelled "Lachmanniella" MASSUTI in MASSUTI & MARGALEF (1950 [E01219: 105]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Lacifer** JANKOWSKI 1979 [CI1188: 59]. TS: *Paradiophrys multinucleatus* HARTWIG 1973 by original designation. Established as subgenus of *Paradiophrys*.
- Lacrymaria** BORY 1824 [Z05030: 479]. TS: *Lacrimatoria olor* MÜLLER 1786 by subsequent designation by DUJARDIN (1841 [CI1202: 468]; cp. also FROMENTEL 1875 [E00689: 174]; KAHL 1930 [KAH008: 90]). The later designation of *L. lagenula* CLAPARÈDE & LACHMANN 1859 by KENT (1881 [E00073: 517]) is invalid (Art. 69.1; Code). Originally spelled *Lacrimatoria* by BORY (1824 [Z05030: 479]) and described three times as new genus (1824, 1825 [E02239: 158], 1836 [E02256: 157]; spelled "Lacrymaria"). However, EHRENBERG'S (1830 [EHR001: 42]) emendation, *Lacrymaria*, prevailed in the later literature and was also approved by the first reviser (KAHL 1930 [KAH008: 90]; cp. FOISSNER 1997 [FOI335: 188]). Misspelled "Lacrimaria" in GELLÉRT (1957 [CI1026: 18]), "Lacrimario" in VORNATSCHER (1938 [E01406: 333]), both listed as synonyms by CORLISS (1979 [COR085: 215]), but in fact incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Ascribed to "EHRENBERG 1830" in BÜTSCHLI (1889 [LB0896: 1682]) and KAHL (1930 [KAH008: 90]). Misdated with "1826" for instance in SMALL & LYNN (1985 [Z06206: 419]), FOISSNER (1983 [FOI090: 75]), FOISSNER & FOISSNER (1988 [FOI196: 18]), CAREY (1992 [LB0008: 51]), and SONG & WANG (1999 [Z06464: 67]). Key to marine species: CAREY (1992 [LB0008: 51]). Nomenclature: FOISSNER (1997 [FOI335: 188]), including redescription of type species. FOISSNER stated that *Lacrymaria olor*, has a senior synonym, *Brachionus proteus* PALLAS. However, this name has never been used in the later literature and thus should be abandoned.
- Lada** VEJDOVSKÝ 1882 [E00142: 48]. TS: *L. wrzesiowski* by monotypy. Homonym of *L. WRZEŚNIEWSKI* 1879, crustacean. Preoccupied name, which has fallen as junior synonym of *Ptychostomum* (e.g. CORLISS 1960 [COR036: 269]). If the genus is resurrected, a new name is necessary.
- Ladopsis** CHEISSIN 1928 [E00406: 299]. TS: *L. benedictiae* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Hysterozineta* (e.g. JAROCKI 1934 [BM0516: 175]; CORLISS 1979 [COR085: 268]).
- Lagenella** GRANDORI & GRANDORI 1934 [BM0390: 12]; reprint separately paginated; paper also printed in 1935 (cp. [E00759: 73]); FOISSNER (1993 [FOI282: 384]) refers to

- GRANDORI & GRANDORI (1934 [BM0391: 244]), but here the genus name is not indicated as new (cp. *Sagittaria*). Homonym of *Lagenella* EHRENBERG [1832], flagellate (according to NEAVE (1939 [LB0752: 851]) a nomen nudum for *Lagenula* EHRENBERG), *Lagenella* FARRE 1837, bryozoan, and *L. REHBERG* 1880, sporozoan. Objective synonym of *Grandoria* CORLISS 1960. Incorrectly ascribed to "GRANDORI 1935" in NEAVE (1939 [LB0752: 851]).
- Lagenophrys*** STEIN 1852 [E00154: 499]. TS: *L. vaginicola* by subsequent designation in FROMENTEL (1875 [E00689: 147]). Misspelled "Legenophrys" in WANG & NIE (1933 [CI1039: 87]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1851" in JANKOWSKI (1982 [CI1023: 32]). Synonyms: *Circolagenophrys*, *Stylohedra*. Revision: UBISCH (1913 [E02066: 39]). Improved diagnosis: CLAMP (1991 [CI1115: 358]; type species incorrectly stated as "by precedence of description"). Monograph of type species: FOISSNER et al. (1994 [FOI265: 256]).
- Lagotia*** WRIGHT 1857 [CI1508: 169]. No type species fixed. Established without specific name, however, WRIGHT (1858 [CI1405: 277]) three species. Synonyms: *Angustofolliculina*, *Semifolliculina* partim. Considered as synonym of *Folliculina* (e.g. KENT 1881 [E00073: 597]; BÜTSCHLI 1889 [LB0896: 1729]; KAHL 1932 [KAH014: 471]). Treated as valid by MULISCH et al. (1993 [Z01926: 144]).
- Lagynophrya*** KAHL 1927 [KAH003: 91]. TS: *L. mutans* by subsequent designation by KAHL (1930 [KAH008: 83]). FOISSNER et al. (1999 [FOI450: 258]) cited the misspelling "Lagynophrys", viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Key to marine species: CAREY (1992 [LB0008: 55]).
- Lagynurus*** MANSFELD 1923 [E00286: 101]. TS: *L. pumilo* by monotypy.
- Lagynus*** QUENNERSTEDT 1867 [E00669: 11]. TS: *Lacrymaria elegans* ENGELMANN 1862 by original designation. Misspelled "Laginus" in GELEI (1934 [BM0364: 118]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1868" in BÜTSCHLI (1889 [LB0896: 1683]). Considered as synonym of *Trachelocerca*, *Enchelys* or *Enchelyodon* (e.g. KAHL 1930 [KAH008: 110]; CORLISS 1961 [COR113: 121]) or nomen oblitum (cp. CORLISS 1979 [COR085: 208]). However, treated as valid by FOISSNER & FOISSNER (1988 [FOI196: 18]) and redescription of type species: SOLA et al. (1990 [CI3120: 328]) and cp. FOISSNER et al. (1995 [FOI340: 173]).
- Lambornella*** KEILIN 1921 [E00576: 216]. TS: *L. stegomyiae* by monotypy. Considered as synonym of *Tetrahymena* (e.g. I.C.Z.N. 1970 [CI1520: 33]). Resurrected genus (cp. CORLISS 1979 [COR085: 257]).
- Lamtostyla*** BUITKAMP 1977 [CI1004: 270]. TS: *L. lamottei* by monotypy. Revision and key to species: BERGER & FOISSNER (1988 [FOI190: 113]). Improved diagnoses: BERGER & FOISSNER (1987 [FOI069: 217]); PETZ & FOISSNER (1996 [FOI395: 277]). No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 893]).
- Larvulina*** PENARD 1922 [E00134: 173]. TS: *L. variabilis* by subsequent designation by KAHL (1931 [KAH012: 391]; not explicitly stated).
- Latifolliculina*** HADŽI 1951 [E00001: 130]. TS: *L. incolorea* (for *Parafolliculina amphora* sensu FAURÉ-FREMIET 1936) by monotypy.
- Latteuria*** TIMOSHENKO & IMAI 1997 [CI1615: 298]. TS: *L. polyfaria* by original designation.
- Laurentia*** DRAGESCO 1966 [CI1277: 85]. Homonym of *L. RAGONOT* 1888, lepidopteran insect and *L. COSTA* 1890, hymenopteran insect. Objective synonym of *Laurentiella* DRAGESCO & NJINÉ 1971. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57]).
- Laurentiella*** DRAGESCO & NJINÉ 1971 [E00053: 125]. TS: *Laurentia macrostoma* DRAGESCO 1966 by monotypy. Substitute name of the preoccupied *Laurentia*. Listed in



- the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57]), who established two subgenera, not used today. Incorrectly ascribed to "BORROR 1972" in TUFFRAU & FLEURY (1994 [Z06341: 143]). Nomenclature and revision: BERGER (1999 [LB1083: 752]).
- Laurosticha* JANKOWSKI 1979 [CI1188: 57]. TS: *Laurentia monilata* DRAGESCO & NJINÉ 1971 by original designation. Established as subgenus of *Laurentiella*. Junior objective synonym of *Coniculostomum* NJINÉ 1979 due to the same type species (Art. 61.3.3; Code). Nomenclature: BERGER (1999 [LB1083: 607]), who mentioned the misspelling "Lautosticha".
- Lavierella* BUISSON 1923 [E00500: 215]. TS: *L. africana* by original designation (& monotypy). Key to species: VAN HOVEN et al. (1998 [Z06372: 121]).
- Lecanodiscus* JANKOWSKI 1973 [CI1572: 30]. TS: *Discophrya longa* SWARCZEWSKY 1928 by original designation. Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "diskos" (throw, disc) is masculine, viz. *Lecanodiscus longus* nom. corr.
- Lecanophrya* JANKOWSKI 1994 [CI1531: 3]. TS: "*Lecanophrya*" *drosera* KAHL 1934 by original designation (not stated explicitly); basionym incompletely given. KAHL (1934 [KAH018: 198]) established the genus with three species non designating as type, thus it is a nomen nudum (Art. 13.3; Code). Synonym: *Collinophrya*.
- Lecanophryella* DOVGAL 1985 [CI1492: 1256]. TS: *L. paraleptastaci* by original designation (& monotypy).
- Lechriopyla* LYNCH 1930 [E00283: 307]. TS: *L. mystax* by monotypy. Misspelled "*Lechryopyla*" in KAHL (1935 [KAH019: 875]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Redescription of type species: BERGER (1994 [E01577: 18]).
- Leegaardiella* LYNN & MONTAGNES 1988 [E00447: 650]. TS: *L. sol* (for *Lohmanniella oviformis* LEEGAARD 1915, larger form) by original designation.
- Legendrea* FAURÉ-FREMIET 1908 [E00803: 15]. TS: *L. loyzae* by monotypy.
- Leionota* WRZEŚNIEWSKI 1869 [E00650: 33]. Homonym of *L. DEJEAN* 1833, coleopteran insect. Objective synonym of *Litonotus* WRZEŚNIEWSKI 1870.
- Leiotrocha* FABRE-DOMERGUE 1888 [E00057: 240]. TS: *L. serpularum* by monotypy. Synonym of *Cyclochaeta* (e.g. BÜTSCHLI 1889 [LB0896: 1760]; KAHL 1935 [KAH019: 660]).
- Lembadion* PERTY 1849 [CI1596: 171]. TS: *L. bullinum* (basionym *Bursaria bullina* MÜLLER 1786) by monotypy. Misspelled "Lambadion" in FROMENTEL (1875 [E00689: 185]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1852" in KAHL (1931 [KAH012: 326]). However, PERTY (1852 [E00084: 141]) again indicated the genus as new in his monograph and included a further species. Synonyms: *Hymenostoma*, *Thurophora*. Redescriptions of type species: GUINEA et al. (1990 [CI3119: 553]); see also FOISSNER et al. (1994 [FOI300: 212]). Key to marine species: CAREY (1992 [LB0008: 132]).
- Lembadionella* KAHL 1933 [KAH015: 82]. TS: *L. pusilla* by monotypy.
- "Lemboides". Masculine gender according to Article 30.1.4.4 of the Code. Not made available by KAHL 1931 [KAH012: 368], viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Homonym of *L. STEBBING* 1895, crustacean. Objective synonym of "Paralembus" KAHL 1933, which is likewise unavailable.
- Lembus* COHN 1866 [CI1419: 270]. Homonym of *L. GUENTHER* 1860, fish. Objective synonym of *Cohnilembus* KAHL 1933. Misdated with "1865" in KAHL (1931 [KAH012: 369, 835]; 1933 [KAH015: 82]). Synonym: *Proboscella*.

- Lepidotrachelophyllum* NICHOLLS & LYNN 1984 [CI1167: 418]. TS: *L. fornicis* by monotypy, now considered as synonym of *L. lineare* (basionym *Trachelophyllum* l. LEPSI 1960) (e.g. FOISSNER (1994 [FOI297: 275])). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 262]).
- Leprotintinnus* JÖRGENSEN 1900 [CI1161: 10]. TS: *Tintinnus pellucidus* CLEVE 1899 by designation under the plenary powers by the I.C.Z.N. (1970 [CI1605: 89]); placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1605: 89], name number 2410). Consequently, all prior designations of type species were set aside under plenary powers. Placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1605: 89], name number 1921). Misspelled "Laptotintinnus" in GAJEWSKAJA (1948 [E01198: 27]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 16]). Key to marine species: YOO & KIM (1990 [E02095: 92]).
- "Leptocirra". TS: "*L. tekirghiolica*" by monotypy. Established without description or definition BY TUCOLESCU (1965 [E02226: 178]), thus an unavailable nomen nudum (Art. 12.1; Code); see also BERGER (1999 [LB1083: 492]), who already noted that the genus name was not mentioned in CORLISS (1979 [COR085]).
- Leptodesmus* ZACHARIAS 1903 [E00642: 271]. TS: *L. tenellus* by monotypy. Homonym of *L. SAUSSURE* 1859, diplopod. Synonym of *Homalozoon* (e.g. KAHL 1930 [KAH007: 389], 1930 [KAH008: 172]; CORLISS 1960 [COR036: 269]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Leptodiscus* TUCOLESCO 1962 [E00373: 33]. Homonym of *L. HERTWIG* 1877, dinoflagellate. Objective synonym of *Tucolesca* CORLISS 1979.
- Leptoglana* GRASSÉ & BOISSEZON 1929 [BM0403: 187]. TS: *Balantidium knowlesii* GHOSH 1925 by monotypy. Objective synonym of *Protobalantidium* ABÉ 1927 due to the same type species (Art. 61.3.3; Code). Suppressed under the plenary powers for the purposes of the principle of priority but not for those of the principle of homonymy and placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1970) (cp. MELVILLE & SMITH 1987 [EV0797: 115]). Listed as synonym of *Tetrahymena* by CORLISS 1979 [COR085: 257]).
- Leptopharynx* MERMOD 1914 [CI1378: 39]. TS: *L. costatus* by monotypy. Synonym: *Trichoderum* (for the preoccupied *Trichopelma*). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 460]).
- Lernaeophrya* PÉREZ 1903 [CI1600: 98]. TS: *L. capitata* by monotypy, now considered as synonym of *Trichophrya astaci* by MATTHES (1988 [LB0005: 47]). Synonym of *Trichophrya* by placement of the type species (see also MATTHES 1988 [LB0005: 44]).
- "Leucopera" GMELIN 1790 [E01008: 3028]; also spelled *Leucophra* on page 3802. Placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1971), as incorrect subsequent spelling for *Leucophra* MÜLLER 1780, but strictly speaking an unavailable name. Nomenclatural history: CORLISS & DOUGHERTY (1967 [COR196: 158]).
- Leucophra* MÜLLER 1780 [LB0997: 4 ]. TS: *L. armilla* by subsequent designation by CORLISS & DOUGHERTY (1967 [COR196: 161]), an unrecognizable species, thus a nomen dubium. Nomenclatural history: CORLISS & DOUGHERTY (1967 [COR196: 158ff.]).
- "Leucophrus". Placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1972) as incorrect subsequent spelling of *Leucophra* MÜLLER 1780, but strictly speaking an unavailable name. Moreover, ascribed to EHRENBERG (1838 [EHR010: 311]), who only noted a possible mixing up of *Leucophra* and CUVIER'S genus *Leucophrus*, which is however not

- recorded in NEAVE (1939 [LB0752]). Nomenclatural history: CORLISS & DOUGHERTY (1967 [COR196: 158]).
- Leucophrydium* ROUX 1899 [CI1017: 589]. TS: *L. putrinum* by monotypy. Synonym of *Tetrahymena* (e.g. I.C.Z.N. 1970 [CI1520: 33]; CORLISS 1979 [COR085: 257]).
- Leucophrys* EHRENBERG 1830 [EHR001: 96]. TS: *L. patula* by subsequent designation by FROMENTEL (1875 [E00689: 181]). Unjustified emendation, thus an junior objective synonym of *Leucophra* MÜLLER 1776 (Art. 22.2.3; Code) (placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. 1970 [CI1520: 34], name number 1973). The type species was placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 2394). Misdated with "1831" in AGASSIZ (1846 [E00987]). Synonym: *Cystidium*. Synonym of *Tetrahymena* (e.g. CORLISS & DOUGHERTY 1967 [COR196: 158]; CORLISS 1979 [COR085: 257]).
- Levanderella* KOPPERI 1937 [Z06410: 14]. TS: *L. rodentium* by monotypy.
- Licnophora* CLAPARÈDE 1867 [E00535: 30]. No type species fixed. Misspelled "Linophora" in PINTO (1925 [E02169: 257]) and "Lichnophora" in FENCHEL (1965 [CI1362: 135]); listed as synonyms by CORLISS (1979 [COR085: 300]), but in fact incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Ascribed to "CLAPARÈDE & LACHMANN 1867" in TUFFRAU & PUYTORAC (1994 [Z06320: 62]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]).
- Liliomorpha* GAJEWSKAJA 1928 [E00561: 476]. TS: *L. viridis* by monotypy. Misspelled "Liliomorpha" in KAHL (1931 [KAH012: 177]); listed as synonym by CORLISS (1979 [COR085: 217]), but an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 164]).
- "Limnodysteria". TS: *Dysteria meridionalis* DRAGESCO by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Limnoricus* JANKOWSKI 1981 [CI1416: 94]. TS: *L. ceter* by original designation (& monotypy).
- Limnostrombidium* KRAINER 1995 [CI1473: 54]. TS: *Strombidium viride* STEIN 1867 by original designation. Taxonomic and ecological monographs of type species: FOISSNER et al. (1991 [FOI243: 577], as *S. viride*; 1999 [FOI450: 577]).
- Linostoma* JANKOWSKI 1978 [CI1413: 39]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *L. MOTSCHOUJSKY* 1860, coleopteran insect. Objective synonym of *Linostomella* AESCHT in FOISSNER, BERGER & SCHAUMBURG 1999.
- Linostomella* AESCHT in FOISSNER, BERGER & SCHAUMBURG 1999 [FOI450: 655]. TS: *Bursaria vorticella* EHRENBERG 1833 by being a replacement name (& monotypy). Substitute name of the preoccupied *Linostoma*. Redescriptions of type species (as *Linostoma* v.): PACKROFF & WILBERT (1991 [Z00387: 132]); see also FOISSNER et al. (1992 [FOI265: 390]).
- Linza* SCHRANK 1802 [E00938: 91]. TS: *L. pruniformis* by monotypy. The generic name was suppressed for the purposes of the principle of priority but not for those of the principle of homonymy and placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1956 [CI1451: 45], name number 442) (cp. MELVILLE & SMITH 1987 [EV0797: 117]).
- Lionotus* BÜTSCHLI 1889 [LB0896: 1691]. Unjustified emendation for WRZEŚNIEWSKI 'S *Litonotus* (Arts. 19.1, 33.2.3; Code), which had to fall because of preoccupation, in spite of its popular usage today (cp. CORLISS 1960 [COR036: 271]). Homonym of *Lionotus*

- AGASSIZ 1846, coleopteran insect, and *L. THOMSON* 1870, hymenopteran insect. Objective synonym of *Litonotus* WRZEŚNIEWSKI 1870 (Art. 22.2.3; Code).
- Liosiphon* EHRENBERG 1853 [EHR021: 186]. TS: *L. strampfii* by monotypy; also spelled "*L. stramphii*" on page 193, probably par lapsus. Synonym of *Nassula* (e.g. KENT 1881 [E00073: 496]; BÜTSCHLI 1889 [LB0896: 1694]; CORLISS 1961 [COR113: 128]).
- Lissacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Thecacineta cothurnioides* COLLIN 1909 by original designation; incomplete reference to basionym. The Zoological Record (CD-version) incorrectly stated "Type species not given".
- Lissostrombidium* JANKOWSKI 1978 [CI1413: 40]. TS: *Strombidium turcicum* HOVASSE by monotypy; incomplete reference to basionym.
- Listarcon* JANKOWSKI 1982 [CI1023: 31]. TS: *L. angarensis* by original designation (& monotypy).
- Litacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Thecacineta gracilis* WAILES by original designation (& monotypy); incomplete reference to basionym.
- Litonotus* WRZEŚNIEWSKI 1870 [CI1041: 495]. TS: *Loxophyllum fasciola* CLAPARÈDE & LACHMANN 1859 by monotypy, now considered as synonym of *Litonotus cygnus* (MÜLLER 1773) (e.g. FOISSNER et al. 1995 [FOI340: 276], although no more mentioned on page 318, the monograph of this species). Superfluous substitute name of *Gastrotricha* WRZEŚNIEWSKI 1866 and *Leionota* WRZEŚNIEWSKI 1869. Since *Gastrotricha* was unnecessarily replaced, it would be the correct genus name. However, due to the complicated nomenclature a reversal of precedence is proposed. This genus is frequently spelled *Lionotus* or misspelled "Liotonus" (e.g. BREHM 1907 [E01326: 482]; WENINGER 1970 [PR7273: 123]; KAHL 1931 [KAH012: 185]). Ascribed to "EHRENBERG 1830" by SONG (1991 [CI1174: 187], including diagnostic characters). Objective synonym: *Leionota*. Revision: CANELLA (1960 [CI1250: 47]). Improved diagnosis: FOISSNER (1984 [FOI109: 194]). Key to marine species: CAREY (1992 [LB0008: 67; as *Lionotus*]).
- Litosolenius* STOKES 1893 [E00789: 301]. No type species fixed. Misspelled "Litosolenus" in KAHL (1935 [KAH019: 876]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Lobochona* DONS 1941 [E00552: 115]. TS: *L. limnoriae* by monotypy. Misdated with "1940" in SMALL & LYNN (1985 [Z06206: 421]).
- Lochus* DELPHY 1938 [E00173: 66]. Homonym of *L. DOUGLAS & SCOTT* 1868, hemipteran insect. Objective synonym of *Dellochus* CORLISS 1960.
- Lohmanniella* LEEGAARD 1915 [E00588: 27]. No type species fixed. Synonym: *Sphaerotrichium*. Key to marine species: CAREY (1992 [LB0008: 170]).
- Lomiella* PUYTORAC & RAKOTOARIVÉLO 1965 [E01878: 235]. TS: *L. bergeri* by monotypy. First published by PUYTORAC (1961 [E00367: 2939]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code)
- Longicollaria* POP 1997 [CI1613: 936]. TS: *Chitinoidella dobeni* BORZA 1966 by original designation.
- Longifragma* FOISSNER 1984 [FOI112: 213], including redescription of type species. TS: *Urotricha obliqua* KAHL 1926 by monotypy. Ascribed to "EHRENBERG 1830" in PUYTORAC (1994 [Z06331: 579]).
- Longitricha* GAJEWSKAJA 1933 [CI1460: 20]. TS: *L. flava* by monotypy.
- Lopezoterenia* FOISSNER 1997 [FOI416: 43]. TS: *Trichopelma torpens* KAHL 1931 by original designation (& monotypy).
- Lophophorina* PENARD 1922 [E00134: 96]. TS: *L. capronata* by monotypy.

- Lorenziella** KNAUER & NAGY 1964 [E00261: 143]. TS: *L. hungarica* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Lorenziellites** NAGY 1986 [CI1441: 63]. TS: *L. venustus* by original designation. Masculine gender according to Article 30.1.4.4 of the Code.
- Lorenziellopsis** NAGY 1989 [E00398: 68]. TS: *L. arcuata* by original designation. Feminine gender according to Article 30.1.2 of the Code.
- Loricodendron** JANKOWSKI 1973 [CI1572: 30]. TS: *Ophryodendron hollandei* BATISSE 1969 by original designation (& monotypy). Genus not recognized by MATTHES (1988 [LB0005: 17]), i.e. species listed in its original combination.
- Loricophrya** MATTHES 1956 [CI1606: 521]. TS: *Thecacineta parva* SCHULZ 1932 by original designation. Misspelled "Loricaphrya" in EDWARDS & VEVERS (1975 [LB0757: 175]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Corynacineta*, *Paraloricophrya*, *Spongiophrya*. Improved diagnosis and key to marine species: CURDS (1987 [E02043: 92]). Key to species: MATTHES (1988 [LB0005: 84]).
- Loxocephalus** EBERHARD 1862 [CI1475: 24]. TS: *L. luridus* by monotypy. Masculine gender according to Article 30.1.3 of the Code. According to BÜTSCHLI (1889 [LB0896: 1707]) already figured on unpublished plates of LIEBERKÜHN 1855 (unclear if already named). Key to marine species: CAREY (1992 [LB0008: 136]). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 245]). Nomenclature concerning homonymy in insects: FOISSNER & ACHTERBERG (1997 [FOI402: 31]).
- Loxocineta** JANKOWSKI 1979 [CI1188: 51]. TS: *Bakuella crenata* AGAMALIEV & ALEKPEROV 1976 by original designation (& monotypy). Established as subgenus of *Bakuella*. Not recognized as valid in a revision of *Bakuella* (cp. SONG et al. 1992 [E00733: 141]), thus considered as synonym.
- Loxodes** EHRENBERG 1830 [EHR001: 42]. TS: *L. rostrum* by subsequent designation by FROMENTEL (1875 [E00689: 183]). Incorrectly dated "1833" in SMALL & LYNN (1985 [Z06206: 418]). Synonyms: *Drepanostoma*, *Pelecida*, *Triodonta*. Key to freshwater species: DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 210]). Key to marine species: CAREY (1992 [LB0008: 91]). Improved diagnosis: FOISSNER (1996 [FOI364: 325]).
- Loxophyllum** DUJARDIN 1841 [CI1202: 487]. TS: *Kolpoda meleagris* MÜLLER 1773 by subsequent designation by FROMENTEL (1875 [E00689: 178]). First mentioned by DUJARDIN (1840 [E00054: 286]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Synonym: *Opisthodon*. Key to marine species: CAREY (1992 [LB0008: 69]). Redescriptions of type species see FOISSNER et al. (1995 [FOI340: 354]).
- "Lubetiella". Not made available by PUYTORAC (1959 [E00308: 1579]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). The correspondence with the author could not clarify the situation.
- Ludio** PENARD 1922 [E00134: 213]. TS: *L. parvulus* by monotypy.
- Luminella** KOFOID & CAMPBELL 1939 [E00262: 456]. TS: *Tintinnopsis punctata* WAILES 1925 by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Luxiella** LECAL 1953 [E00587: 2]. TS: *L. mitra* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Luxophrya** JANKOWSKI 1978 [CI1415: 493]. TS: *Podophrya limbata* MAUPAS by original designation; incomplete reference to basionym.
- Lwoffia** KOZLOFF 1955 [E00267: 283]. TS: *L. cilifera* by monotypy. Revision: RAABE (1970 [Z06218: 450]).

**Lynchella** JANKOWSKI 1968 [E01929: 10]. TS: "Lynchella" *gradata* KAHL 1933 by original designation. The genus was founded by KAHL (1933 [KAH015: 68]) with two species, non designated as type species, thus a nomen nudum (Art. 13.3; Code). Key to marine species: CAREY (1992 [LB0008: 121]). Improved diagnosis: SONG & WILBERT (2000 [CI1679: 213]).

**Lynchellodon** JANKOWSKI 1980 [CI1013: 118]. TS: *Chlamydodon lynchelliformis* BORROR 1972 by original designation.

## M

**Macrocoleps** OBOLKINA 1995 [CI1537: 14]. TS: *M. caudatus* by original designation.

**Macrophrya** KIJENSKIJ 1926 [E00387: 17]. No type species fixed. Synonym of *Anoplophrya* (e.g. CORLISS 1961 [COR113: 141], 1979 [COR085: 269]).

**Macropodinium** DEHORITY 1996 [Z00338: 286], including key to species. TS: *M. moiri* by original designation.

**Macroxystonellopsis** KOFOID & CAMPBELL 1939 [E00262: 212]. TS: *Xystonellopsis clevei* KOFOID & CAMPBELL 1929 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Xystonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).

**Madsenia** KAHL 1934 [KAH017: 156]. TS: *Entodiscus indomita* MADSEN 1931 by original designation (& monotypy).

**Magnalembus** SMALL & LYNN 1985 [Z06206: 533]. TS: *M. oceanicus* by monotypy.

"Magnifolliculina". Not made available by UHLIG (1964 [E00102: 92]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).

**Malacophrys** KAHL 1926 [KAH001: 319]. TS: *M. rotans* by monotypy. Incorrectly ascribed to "FOISSNER 1980" in PUYTORAC (1994 [Z06331: 599]).

**Malacosoma** KOPPERI 1937 [Z06410: 21]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *M. HUEBNER* 1820, lepidopteran insect. Objective synonym of *Kopperia* CORLISS 1960.

**Mantoscyphidia** JANKOWSKI 1980 [CI1013: 119]. TS: *Scyphidia littorinae* ISSEL 1918 by original designation (& monotypy).

**Manuelophrya** JANKOWSKI 1997 [CI1611: 324]. TS: *Pottsiocles hanna* GUHL 1985 by original designation (& monotypy). Established by MATTHES (1988 [LB0005: 186]) with two species, non designated as type, thus a nomen nudum (Art. 13.3; Code). The Zoological Record (CD-version) erroneously indicated original designation, but the validating author is JANKOWSKI, for the second originally included species he established *Mistarcon*.

**Marginotricha** JANKOWSKI 1978 [CI1413: 40]. TS: *Discocephalus grandis* DRAGESCO 1954 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57]).

**Marinecta** JANKOWSKI 1973 [CI1572: 30]. TS: *Trichophrya pelagica* DADAY 1888 by original designation.

**Marituja** GAJEWSKAJA 1928 [E00561: 476]. TS: *M. pelagica* by monotypy. Again designated as new in 1933 (cp. [CI1460: 4]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1994 [FOI300: 195], 1999 [FOI450: 431]) concluding that a reinvestigation is needed.

**Marshallia** NIE & CHENG 1947 [CI1389: 69]. Homonym of *M. ZITTEL* 1879, sponge, and *M. DOHERTY* 1889, lepidopteran insect. Objective synonym of *Niemarshallia* CORLISS 1960.

- Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Maryna** GRUBER 1879 [CI1545: 451]. TS: *M. socialis* by monotypy. Established by GRUBER (1879 [E00064: 519]) without providing a diagnosis or description; hence it is a nomen nudum (Art. 12.1; Code). Later in the same year (cp. [CI1545: 451]) he again introduced *Maryna* as "n. g." together with a description adequate to the rules of nomenclature. The genus is frequently misdated with "1880". Nomenclature, dating, revision, and key to species: FOISSNER (1993 [FOI282: 337]).
- Mastigostephanus** LEVANDER 1894 [E00080: 77]. TS: *M. sulcatus* by monotypy. According to KAHL (1930 [KAH008: 140]) probably a suctorian swarmer, thus a nomen dubium.
- Mastigothrix** POCHE 1913 [PR1084: 146]. TS: *Maupasias paradoxus* SCHEWIAKOFF 1892 by original designation (& monotypy). Substitute name of the preoccupied *Maupasias* predating the replacement name *Schewiakoffia* CORLISS 1960, but possibly a nomen dubium (see remark to *Maupasias*).
- Maupasella** CÉPÈDE 1910 [E00205: 408]. TS: *M. nova* by monotypy. PUYTORAC (1954 [CI1287: 161]) incorrectly stated *M. cepedei* as type species (Art. 69.1; Code). Synonym: *Schultzellina*. Revision: PUYTORAC (1972 [CI1224: 31]).
- Maupasias** SCHEWIAKOFF 1893 [PR1037: 27]; classified under the "Mastigotricha" (flagellated protozoans). First mentioned by SCHEWIAKOFF (1892 [E00092: 552]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Homonym of *M. VIGUIER* 1886, polychaete. KAHL (1930 [KAH008: 53]) listed the genus with its original name under the genus *Holophrya*, but did not include it in the key of the family, thus very likely unidentifiable, viz. a nomen dubium. Objective synonym of *Mastigothrix* POCHE 1913 and *Schewiakoffia* CORLISS 1960.
- Megadinium** LATTEUR & DUFÉY 1967 [E00274: 129]. TS: *M. aethiopicum* by monotypy.
- Megatricha** PERTY 1852 [E00084: 150]. No type species fixed. Synonym of *Mesodinium* (e.g. BÜTSCHLI 1889 [LB0896: 1688]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Meiostoma** SANDON 1941 [E00322: 128]. TS: *M. georhychi* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- "Meleagris". Although spelled with a capital letter, PERTY (1849 [CI1596: 162]) very likely had in mind *Amphileptus meleagris*, moreover not mentioned as new. If available it would be a homonym of *M. LINNAEUS* 1758, bird and *M. MONTFORT* 1810, mollusc.
- Membranicola** FOISSNER, BERGER & SCHAUMBURG 1999 [FOI450: 626]. TS: *M. tamari* by original designation (& monotypy). Feminine gender according to Article 30.1.4.2 of the Code.
- Meniscostomum** KENT 1881 [E00073: 539]. TS: *Paramaecium stomioptycha* ECKHARD 1846 by monotypy. Synonym of *Ophryoglena* (e.g. BÜTSCHLI 1889 [LB0896: 1703]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Mesanophrys** SMALL & LYNN nov. gen. TS: *Paranophrys carcini* GROLIÈRE & LEGLISE 1977 by original selection. First mentioned by SMALL & LYNN (1985 [Z06206: 535]), but unavailable, viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Validated herein according to the correspondence with SMALL & LYNN, thus correct authorship is to be cited as "SMALL & LYNN in AESCHT 2001". Redescription of type species: SONG & WILBERT 2000 [CI1705: 52]; with incorrect authorship, viz. "SMALL & LYNN 1985").
- Meserellus** JANKOWSKI 1967 [CI1569: 36]. TS: *Vorticella multiformis* MÜLLER 1786 by original designation (& monotypy). Established as subgenus of *Stentor*. Not mentioned in later revisions (e.g. FOISSNER et al. 1992 [FOI265: 351], FOISSNER & WÖFL 1994 [FOI304: 256, 274]), thus to be considered as synonym of *Stentor*.

- Meseres** SCHEWIAKOFF 1893 [PR1037: 62]. No type species fixed. First mentioned by SCHEWIAKOFF (1892 [E00092: 560]) without description or definition, thus a nomen nudum (Art. 12.1; Code).
- Mesnilella** CÉPÈDE 1910 [E00205: 528]. TS: *Leucophrys clavata* LEIDY 1855 by subsequent designation by PUYTORAC (1954 [CI1287: 183]; not explicitly stated). Revision: PUYTORAC (1972 [CI1224: 12]).
- Mesodinium** STEIN 1863 [CI1286: 162]. TS: *M. acarus* STEIN 1867 by monotypy. Established without species, first species included in 1867 (cp. [PR1075: 148]) resulting in reversed dates of genus and type species (Art. 69; Code). *Mesodinium acarus* was mentioned as single species on page 148, but on page 162 STEIN conditionally included *Halteria pulex* CLAPARÈDE & LACHMANN 1859 in the genus *Mesodinium*, therefore it is not eligible for type fixation (Art. 67.2.5; Code) and the statement of KENT (1881 [E00073: 633]) that *M. pulex* is the type is incorrect (apart from Art. 69.1). Synonyms: *Acarella*, *Megatricha*. Key to marine species: CAREY (1992 [LB0008: 63]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1995 [FOI340: 260], 1999 [FOI450: 134], including key to species, nomenclature, and acknowledgement of *M. acarus* as type species).
- Mesodiscophrya** JANKOWSKI 1981 [CI1416: 110]. TS: *Podophrya steinii* CLAPARÈDE & LACHMANN 1859 by original designation; misdated "1858". The Zoological Record (CD-version) incorrectly listed *Discophrya hydroi* MATTHES 1954 as type species. Synonym of *Discophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 110]).
- Mesogymnus** BERGER 1994 [E01578: 281]. TS: *M. interruptus* by original designation. First mentioned by BERGER in CORLISS (1979 [COR085: 265]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code).
- Mesolembus** SMALL & LYNN 1985 [Z06206: 533]. TS: *M. fecalis* by monotypy.
- Mesothamnium** JANKOWSKI 1985 [CI1417: 87]. TS: *Zoothamnium hiketes* PRECHT 1935 by original designation.
- Mesotricha** KENT 1882 [E00074: 783]. TS: *Stylonychia echinata* CLAPARÈDE & LACHMANN 1858 by original designation (& monotypy), now considered as synonym of *Tachysoma pellionellum* and nomen oblitum (cp. BERGER 1999 [LB1083: 431]). Not recorded in CORLISS (1979 [COR085]).
- Mespilina** BORY 1824 [Z06509: 245]. TS: *Vorticella umbellata* by original designation, considered as synonym of *Epistylis galea* by EHRENBERG (1838 [EHR010: 280]). Only mentioned in French as "Mespiline" in the paragraph *Dendrella*, likely latinized by EHRENBERG. Synonym of *Epistylis* (e.g. EHRENBERG 1838 [EHR010: 290]; BÜTSCHLI 1889 [LB0896: 1766]).
- Metabakuella** ALEKPEROV 1989 [E00510: 7]. TS: *Bakuella perbella* ALEKPEROV & MAMAJEVA 1988 by original designation; incomplete reference to basionym. Not recorded in the Zoological Record (CD-version). Considered as valid e.g. by ALEKPEROV (1992 [CI1491: 9]) and FRANCO et al. (1996 [Z00486: 322]).
- Metacineta** BÜTSCHLI 1889 [LB0896: 1925]. TS: *Cothurnia mystacina* EHRENBERG 1831 by monotypy. Synonyms: *Asellacineta*, *Kellicotta*, *Vasacineta*. Revision and key to species: RIEDER (1985 [Z06244: 280]). Keys to freshwater species: MATTHES (1988 [LB0005: 190]; 1991 [Z06373: 207]). Redescriptions of type species see FOISSNER et al. (1995 [FOI340: 481]).
- Metaclelandella** UTTANGI & DESAI 1963 [E00344: 39]. TS: *M. termitis* by original designation (& monotypy). Improved diagnosis: EARL (1972 [Z06222: 256]).
- Metacollinia** JANKOWSKI 1980 [CI1013: 119]. TS: *Balantidium luciensis* POISSON 1921 by original designation (& monotypy).



- Metacyclina* RADOIČIĆ 1965 [CI1549: 564]. TS: *M. morace* by original designation. Uncertain tintinnine or part of the body of fossil molluscs (CORLISS 1979 [COR085: 307]). Probably a nomen dubium.
- Metacyclis* JÖRGENSEN 1924 [E00252: 97]. TS: *Tintinnus mediterraneus* MERESCHKOWSKY 1880 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 197]). Misspelled "Metacyclis" in CAMPBELL in CAMPBELL & MOORE (1954 [E01177: D174]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 197]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Metacystis* COHN 1866 [CI1419: 265]. TS: *M. truncata* by monotypy. Key to marine species: CAREY (1992 [LB0008: 34]).
- Metadinium* AWERINZEW & MUTAFOWA 1914 [CI1439: 115]. TS: *M. medium* by monotypy. Misspelled "Metadinlum" in CUNHA (1919 [CI9012: 4]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision and improved diagnosis: KOFOID & MACLENNAN (1932 [CI1238: 111]).
- Metafolliculina* DONS 1924 [E00551: 5]. TS: *M. nordgardi* by monotypy. Misdated with "1925" in SMALL & LYNN (1985 [Z06206: 418]). Synonym: *Freia* partim.
- Metanophrys* PUYTORAC, GROLIÈRE, ROQUE & DETCHEVA 1974 [CI3185: 101]. TS: *M. durchoni* by monotypy.
- Metanycototherus* ALBARET 1970 [E00158: 225]. TS: *Nycototherus congou* TUZET, MANIER & JOLIVET 1957 by original designation. Improved diagnosis: EARL (1972 [Z06222: 256]).
- Metaphrya* IKEDA 1917 [E00026: 317]. TS: *M. sagittae* by monotypy.
- Metapychostomum* NGASSAM & GRAIN 1997 [CI1616: 42]. TS: *M. nucleogigas* by original designation. First mentioned by NGASSAM in PUYTORAC (1994 [Z06298: 746]) without description, thus a nomen nudum (Art. 13.1; Code).
- Metaracoelophrya* PUYTORAC & DRAGESCO 1969 [E00368: 262]. TS: *M. intermedia* by monotypy. Misdated with "1968" in PUYTORAC (1994 [Z06337: 776]). Revision: PUYTORAC (1972 [CI1224: 26]).
- "Metaradiophrya". HEIDENREICH (1935 [Z06236: 335]) established the genus with two species non designating as type, thus it is a nomen nudum (Art. 13.3; Code). Possibly, *M. lumbrici* (basionym *Opalina lumbrici* DUJARDIN 1841) was intended as type species, because only this species was characterized as "gen. n., sp. n." Unfortunately, Article 68.2.1 (i.e. "gen. n., sp. n." to only one of two new nominal species originally included in a new nominal genus, are deemed to be an original designation) can only be applied before the year 1931. Revision: PUYTORAC (1972 [CI1224: 23]) included 14 species, non mentioned as type. Treated as valid in the Zoological Record (CD-version).
- Metasacuophora* ALBARET 1973 [CI1382: 51]. TS: *M. petteri* by monotypy.
- "Metastoma". TS: *Chilodon uncinatus* EHRENBERG 1838 by original designation; incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). In addition, homonym of *Metastoma* STREBEL & PFEFFER 1880, mollusc.
- Metastomum* GEORGÉVITCH 1941 [CI1435: 40]. TS: *M. ochridense* by monotypy.
- Metastrombidium* FAURÉ-FREMIET 1924 [CI1365: 79]. TS: *M. sonnifer* JANKOWSKI 1980 (for *Metastrombidium* sp. FAURÉ-FREMIET 1924) by original designation (cp. JANKOWSKI 1980 [CI1013: 119]; without new data). The later designation of *M. nigrum* by MIRABDULLAYEV (1985 [CI1641: 1893]) is invalid (Art. 69.1; Code).

- "*Metaurostyla*". TS: "*M. polonica*" by original designation. Established without description or definition by JANKOWSKI (1979 [CI1188: 70]), thus an unavailable nomen nudum (Art. 13.1.1; Code).
- "*Metaurostylopsis*". Feminine gender according to Article 30.1.2 of the Code. First mentioned by SONG & WANG (1999 [Z06464: 73]) and SHI et al. (1999 [Z06465: 112]), who ascribed the name to "SONG & PETZ 1999 in press". Since no such paper appeared, the taxon is without description or definition, thus a nomen nudum (Art. 13.1.1; Code).
- Metaxystomium* BERGER 1994 [E01577: 153]. TS: *Cryptochilum echinometris* BIGGAR & WENRICH 1932 by original designation. First mentioned by BERGER in CORLISS (1979 [COR085: 263]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Synonym: *Echinomeron*. Junior objective synonym of *Velistoma* JANKOWSKI 1980 due to the same type species (Art. 61.3.3; Code).
- Metephelota* WILLIS 1945 [E00452: 399]. TS: *M. coronata* by monotypy.
- "*Metoikos*". Established without species, description or definition by BERGER & THOMPSON in CORLISS (1979 [COR085: 263]), thus a nomen nudum (Art. 13.1.1; Code).
- Metopides* QUENNERSTEDT 1867 [E00669: 23]. TS: *M. contortus* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Homonym of *M.* PASCOE 1866, coleopteran insect. Preoccupied name, which has fallen as junior synonym of *Metopus* (e.g. BÜTSCHLI 1889 [LB0896: 1722]; KAHL 1932 [KAH014: 417]; CORLISS 1960 [COR036: 269]). If the genus is resurrected, a new name is necessary.
- Metopus* CLAPARÈDE & LACHMANN 1858 [E00117: 254]. TS: *M. sigmoides* by monotypy, now considered as synonym of *M. es* (MÜLLER 1786) KAHL 1932 (basionym *Trichoda s*) (cp. KAHL 1932 [KAH014: 416]). Mandatory change of original spelling necessary, because a name must at least comprise two letters (Art. 11.9.1; Code). Misspelled "*Metopsus*" in FROMENTEL (1876 [E00689: 361]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Dicella*, *Metopides*, *Spirorhynchus*, *Tesnospira*, *Urostomides*. Key to marine species: CAREY (1992 [LB0008: 155]). Revision: ESTEBAN et al. (1995 [E01954: 137]).
- Miamiensis* THOMPSON & MOEWUS 1964 [E00340: 378]. TS: *M. avidus* by original designation (& monotypy). Improved diagnosis and redescription of type species: SONG & WILBERT (2000 [CI1705: 58]).
- Microcardiosoma* VUXANOVICI 1963 [E00741: 84]. TS: *M. multiseta* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Microcetus* ORPIN & MATHIESEN 1986 [CI1486: 527]. Homonym of *M.* KELLOGG 1923, mammal. According to the Zoological Record (CD-version) both names currently used. Objective synonym of *Microcetella* nom. nov.
- Microcetella* nomen novum for the preoccupied *Microcetus*. TS: *M. lappus* ORPIN & MATHIESEN 1986 by original designation (& monotypy). The correspondence with Mr. ORPIN remained unanswered. Derivation: Composition of *Microcetus* (meaning a very small whale; cp. ORPIN & MATHIESEN 1986 [CI1486: 527]) and the Latin diminutive suffix "-ella". Gender: feminine.
- Microchoanostoma* VUXANOVICI 1963 [E00741: 67]. TS: *M. enigmatica* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Microdiaphanosoma* WENZEL 1953 [CI1047: 97]. TS: *Diaphanosoma arcuata* GRANDORI & GRANDORI 1934 by monotypy. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *Microdiaphanosoma arcuatum*. Substitute name of the preoccupied *Diaphanosoma*. Revision, nomenclature, and key to species: FOISSNER (1993 [FOI282: 714]).
- Micromidas* DELPHY 1938 [E00173: 61]. TS: *M. hians* by monotypy.

- Micromitra* JANKOWSKI 1979 [CI1188: 58]. KAHL (1933 [KAH015: 112]) established the genus, not designating a type, thus it is a nomen nudum (Art. 13.3; Code). Listed in the generic catalogue of hypotrichs and validated by JANKOWSKI (1979 [CI1188: 57]) with incorrect authorship. Substitute name of the preoccupied *Mitra*. However, homonym of *Micromitra* MEEK 1873, brachipod. Objective synonym of *Psammomitra* BORROR 1972.
- Micronyctus* JANKOWSKI 1978 [CI1413: 39]. TS: *Nyctotherus madagascari* TUZET & MANIER 1954 by monotypy.
- Micropithus* KAHL 1926 [KAH001: 300]. TS: *M. simplex* by monotypy. Synonym of *Pithothorax* (e.g. KAHL 1930 [KAH008: 107]; CORLISS 1979 [COR085: 215]).
- Micropoculum* DONS 1922 [E00146: 73]. No type species fixed. Synonym of *Codonellopsis* (e.g. JÖRGENSEN & KAHL 1932 [Z06302: 28]). Considered as nomen dubium by CORLISS (1979 [COR085: 304]).
- Microregma* KAHL 1930 [KAH008: 102]. No type species fixed; established with four species.
- Microspiretta* JANKOWSKI 1975 [E00250: 27]. TS: *Spiretta plankticola* GELEI 1944 by monotypy. Substitute name of the preoccupied *Spiretella*, misspelled "Spiratella". Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 57]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 688]).
- Microthorax* ENGELMANN 1862 [E00055: 381]. TS: *M. pusillus* selected herein, because it is the best known of the two species originally included and no earlier subsequent designation was located. Misdated with "1861" in KAHL (1931 [KAH012: 305]). Synonym: *Hemicyclium*. Redescriptions of type species: FOISSNER (1979 [FOI054: 30]); FOISSNER et al. (1994 [FOI300: 478]); LEITNER & FOISSNER (1997 [FOI396: 351]).
- Microxysma* DEROUX 1976 [E00181: 525]. TS: *M. acutum* by monotypy.
- Micruncus* DELPHY 1938 [E00173: 62]. TS: *M. complanatus* by monotypy.
- Micrundella* LOEBLICH & TAPPAN 1968 [CI1533: 188]. TS: "*Micrundella*" *membranata* BUSCH 1948 by original designation. BUSCH (1948 [CI1512: 132]) established the genus with three species non designating as type species, thus it is a nomen nudum (Art. 13.3; Code). Despite LOEBLICH & TAPPAN (1968 [CI1533: 188]) ascribed the original designation to BUSCH (misdated with "1949"), they have validated the genus (Art. 69.1.2; Code).
- Miculopodium* HADŽI 1940 [E00954: 130]. TS: *Vaginicola (Miculopodium) cementata* by monotypy. Established as subgenus of *Vaginicola*. Synonym of *Vaginicola* (e.g. CORLISS 1979 [COR085: 276]).
- Mideuplotes* JANKOWSKI 1978 [CI1413: 40]. TS: *Euplotes tegulatus* TUFFRAU 1960 by original designation. Twice stated as newly introduced by JANKOWSKI (1979 [CI1188: 57, but not page 54]). Established as subgenus of *Euplotes*. Not recognized in their revision of the Euplotida by BORROR & HILL (1995 [CI1462: 457]), i.e. synonym of *Euplotopsis*.
- Mimeticus* SMALL & LYNN 1985 [Z06206: 466]. TS: *Prorodon mimeticus* KAHL 1930 by monotypy. Objective synonym of *Pleurofragma* JANKOWSKI 1976 due to same type species (Art. 61.3.3; Code; already noticed by FOISSNER 1987 [FOI173: 221]).
- Mimophrya* PUYTORAC 1969 [CI1237: 263]. TS: *M. elegans* by original designation. Revision: PUYTORAC (1972 [CI1224: 21]).
- Miniapium* BANINA in BANINA et al. 1984 [AEB550: 311]. TS: *Glossatella minutum* (sic; it should be *G. minuta*) CHEN 1961 by original designation. Established as subgenus of *Apiosoma*.
- Miracineta* JANKOWSKI 1981 [CI1416: 94]. TS: *Acineta saifulae* MERESCHKOWSKY 1877 by original designation (& monotypy).

- Mirodysteria** KAHL 1933 [KAH015: 69]. TS: *M. aplanata* by monotypy. Misspelling "Microdysteria" listed as synonym in CORLISS (1979 [COR085: 229]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Mirofolliculina** DONS 1928 [E00962: 3]. TS: *Folliculina limnoriae* GIARD 1883 by monotypy. Regarded as subgenus of "Folliculinopsis" by FAURÉ-FREMIET (1935 [CI1427: 1132]), which is however unavailable.
- Misacineta** JANKOWSKI 1978 [CI1415: 495]. TS: *Discophrya cybisti* COLLIN 1912 by original designation (& monotypy); incomplete reference to basionym. Genus not recognized by MATTHES (1988 [LB0005: 101]), i.e. cited in its original combination.
- Mistarcon** JANKOWSKI 1997 [CI1611: 321], including redescription of type species. TS: *Pottisia parasitica* NOZAWA 1939 by original designation (& monotypy). First mentioned by JANKOWSKI (1986 [CI1574: 389]) in an unpublished work (Art. 9.9; Code).
- Mitophora** PERTY 1852 [E00084: 153]. TS: *M. dubia* by monotypy. Nomen oblitum in BÜTSCHLI (1889 [LB0896: 1774]) and in CORLISS (1979 [COR085: 208]).
- Mitra** QUENNERSTEDT 1867 [E00669: 41]. Homonym of *M.* MARTYN 1784, mollusc. Objective synonym of *Micromitra* and *Psammomitra* and subsequent synonym of *Uroleptus* (cp. SONG & WARREN (1996 [CI1576: 228])). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]).
- Mixotricha** DRAGESCO & DRAGESCO-KERNÉIS 1986 [AEB009: 439]. Homonym of *M.* SUTHERLAND 1933, mastigophoran. Objective synonym of *Ponturostyla* JANKOWSKI 1989.
- Mixtophrya** PUYTORAC 1969 [CI1237: 262]. TS: *M. catenula* by monotypy. Revision: PUYTORAC (1972 [CI1224: 18]).
- Moneuplotes** JANKOWSKI 1978 [CI1413: 40]. TS: *Euplotes cristatus* KAHL 1932 by original designation. Twice stated as newly introduced by JANKOWSKI (1979 [CI1188: 58, but not page 54]). Established as subgenus of *Euplotes*. BORROR & HILL (1995 [CI1462: 461]) incorrectly stated *M. vannus* as type species (Art. 69.1; Code).
- Monilicaryon** JANKOWSKI 1967 [CI1569: 36]. TS: *Dileptus monilatus* STOKES 1886 by original designation (& monotypy). Established as subgenus of *Dileptus*. Misspelled "Monilikaryon" in BLATTERER (1989 [CI7009: 9]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "karuon" (nucleus) is neuter, viz. *Monilicaryon monilatum* nom. corr. Improved diagnosis and elevation to genus rank: FOISSNER (1997 [FOI335: 196]). Redescription of type species: FOISSNER et al. (1995 [FOI340: 199]).
- Monilidiophrys** JANKOWSKI 1979 [CI1188: 52]. TS: *Diophrys magnus* RAIKOV & KOVALEVA 1968 by original designation (& monotypy). Established as subgenus of *Diophrys*.
- Monintranstylum** JANKOWSKI 1993 [CI1530: 222]. TS: "Monintranstylum" *rotundus* BANINA 1977 by original designation. First mentioned by BANINA (1976 [E00176: 20]) in an unpublished abstract, described one year later (BANINA 1977 [E01017: 5]); but the first named species were only described in a second article in the same year (BANINA 1977 [E02157: 24]), however, without designating a type species (Art. 13.3; Code). Not recorded in EDWARDS & TOBIAS (1993 [LB0758]). Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "stulos" (pillar) is neuter, viz. *M. rotundum* nom. corr.
- Monochilum** SCHEWIAKOFF 1893 [PR1037: 50]. TS: *M. frontatum* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 557]) without description or definition, thus a nomen nudum (Art. 12.1; Code).

- Monodinium** FABRE-DOMERGUE 1888 [E00971: 35]. TS: *M. balbianii* by monotypy. Often considered as synonym of *Didinium* (e. g. BÜTSCHLI 1889 [LB0896: 1688]; KAHL 1930 [KAH008: 125]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1995 [FOI340: 235], 1999 [FOI450: 182]).
- Monodontophrya** VEJDOVSKÝ 1892 [E00103: 24]. TS: *M. longissime* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "ophrus" (eyebrow) is feminine, viz. *M. longissima* nom. corr. Revision: PUYTORAC (1972 [CI1224: 34]). Synonym: *Eumonodontophrya*.
- Monomastix** ROUX 1899 [CI1017: 558]. TS: *M. ciliatus* by monotypy. Homonym of *M. DIESING* 1848, flagellate. Synonym of *Ileonema* (e.g. KAHL 1930 [KAH008: 116]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Monoposthium** THURSTON & NOIROT-TIMOTHÉE 1973 [E00342: 562]. TS: *M. acanthum* by original designation (& monotypy).
- Monostylus** PEREJASLAWZEWA 1886 [PR1129: 86]. TS: *M. heterotrichus* by monotypy. Misdated with "1885" in KAHL (1932 [KAH014: 650]). Synonym of *Aspidisca* (e.g. BÜTSCHLI 1889 [LB0896: 1754]). Nomen oblitum in KAHL (1932 [KAH014: 650]; considered as hypotrich fragment) and CORLISS (1979 [COR085: 208]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]). Junior homonym in actinopods, erroneously classified as ciliate in the Zoological Record (CD-version) (cp. KOZUR & MOSTLER 1980 [Z00095: 59]).
- Morgania** KAHL 1934 [KAH017: 159]. TS: *Conchophthirus mytili* MORGAN 1925 by monotypy. Since *C. caryoclada* (spelled *Conchophthirus*) was only conditionally proposed, it is deemed not to be originally included and the type designation is thus by monotypy (Art. 67.2.5; Code). Homonym of *Morgania* SMITH 1854, hymenopteran insect. Preoccupied name, which has fallen as junior objective synonym of *Kidderia*, which was erected one month earlier (cp. CORLISS 1961 [COR113: 152]). *Kidderia* in turn is a junior homonym itself; and both names may be considered as synonyms of *Conchophthirus* (e.g. KAHL 1935 [KAH019: 288]; CORLISS 1960 [COR036: 269], 1961 [COR113: 151]). Objective synonym of *Peniculistoma* due to same type species (Art. 61.3.3; Code).
- Mrazekiella** KIJENSKIJ 1926 [E00387: 12]. TS: *M. costata* by original designation (Art. 68.2.1; Code). "Mrázeikiella" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Revision: PUYTORAC (1972 [CI1224: 20]; dated "1925"). Junior homonym in copepod crustaceans.
- Mucophrya** GAJEWSKAJA 1928 [E00561: 478]. TS: *M. pelagica* by monotypy. Key to species: CURDS (1986 [E02041: 87]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 723]).
- Mucotrichidium** FOISSNER, OLEKSIV & MÜLLER 1990 [FOI230: 196]. TS: *Uroleptus hospes* EHRENBERG 1831 by original designation (& monotypy).
- Mugardia** SMALL & LYNN 1985 [Z06206: 534]. TS: *Anophrys salmacida* MUGARD 1949 by monotypy; type species misspelled "A. salmicida". First mentioned as nomen nudum by SMALL in CORLISS (1979 [COR85: 262]), because this name was only listed without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Moreover, junior objective synonym of *Anophryoides* PUYTORAC & GROLIÈRE 1979 due to the same type species (Art. 61.3.3; Code).
- Multifasciculatum** GOODRICH & JAHN 1943 [E00230: 250]. TS: *M. elegans* by monotypy. Revision: JANKOWSKI (1981 [CI1416: 111]). Type species transferred to *Discophrya* by MATTHES (1988 [LB0005: 95]), but genus considered as valid, including redescription of type species, by CLAPS & MODENUTTI (1988 [E02145: 129]).

- Muniziella** FONSECA 1939 [E00362: 165]. TS: *M. cunhai* by monotypy. Misdated with "1938" in GRAIN (1994 [Z06201: 324]).
- Musajevella** ALEKPEROV 1984 [CI1024: 1892]. TS: *M. minima* by original designation (& monotypy). First mentioned by ALEKPEROV (1984 [CI1075: 1462]) without description, thus a nomen nudum (Art. 13.1; Code). Since the description of the type species was published two months later in the same year (cp. [CI1024: 1892]), this is the correct reference.
- Muscipula** GUHL & GUHL 1993 [CI1517: 273]. TS: *M. sebastiani* by monotypy.
- Muscophrya** JANKOWSKI 1978 [CI1415: 495]. TS: *Trichophrya lycoperdon* PENARD 1920 by original designation (& monotypy); incomplete reference to basionym. Synonym of *Brachyosoma* by placement of the type species (cp. CURDS 1985 [E00541: 187]).
- Mycodinium** AWERINTSEV 1916 [PR1126: 180]. TS: *M. fucatum* by monotypy. Considered as senior synonym of *Conidophrys* by JANKOWSKI (1989 [E00414: 86]; without new data), who notes that this was previously regarded by error as dinoflagellate. Not recorded in CORLISS (1979 [COR085]), perhaps better regarded as nomen dubium.
- Mycterothrix** LAUTERBORN 1898 [E00126: 149]. TS: *Trichorynchus tuamotuensis* BALBIANI 1887 by monotypy. Substitute name of the preoccupied *Trichorynchus*. Revision and key to species: FOISSNER (1993 [FOI282: 369]).
- Mykophagophrys** FOISSNER 1995 [FOI338: 76]. TS: *Pseudoplatyophrya terricola* FOISSNER 1985 by original designation.
- Mylestoma** KAHL 1928 [KAH005: 212]. TS: *Aspidisca bipartita* GOURRET & ROESER 1886 by monotypy. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *M. bipartitum* nom. corr.
- Myoschiston** JANKOWSKI 1985 [CI1417: 80; not explicitly stated]. TS: "Myoschiston" *duplicatum* PRECHT 1935 by original designation. First published by PRECHT (1935 [CI1593: 449]) without designating a type species, thus a nomen nudum (Art. 13.3; Code). The second designation of *M. duplicatum* as type species by JANKOWSKI (1993 [CI1530: 222]) is invalid (Art. 69.1; Code).
- Myoscyphidia** JANKOWSKI 1985 [CI1417: 80]. TS: *Scyphidia hyalina* BIEGEL 1954 by original designation.
- Myriokaryon** JANKOWSKI 1973 [CI1494: 424]. TS: *Prorodon lieberkuehnii* BÜTSCHLI 1889 by monotypy; the basionym "P. lieberkühnii" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code.
- "Myrionecta". TS: *Halteria rubra* LOHMANN 1908 by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). Ascribed to "SMALL & LYNN 1985" in GRAIN (1994 [Z06319: 306]).
- Myrtilina** BORY 1824 [Z05029: 532 and Z06516: 559]. No type species fixed. Described twice as new genus by BORY (1824, 1825 [E02240: 533], 1827 [E02241: 407]). Synonym of *Epistylis* (e.g. EHRENBERG 1838 [EHR010: 281, 290]; BÜTSCHLI 1889 [LB0896: 1766]).
- Mystacodella** BORY 1824 [Z05029: 530 and Z06517: 559]. No type species fixed. One of the originally included species, viz. *M. cyclidium* (for *Trichoda c.* of MÜLLER 1773) is synonymized with *Stylonychia pustulata* by EHRENBERG (1838 [EHR010: 372]); in an earlier paper (cp. EHRENBERG 1834 [EHR004: 1199]) four species are noted under "Oxytrichae pars". It is unclear why EHRENBERG did not use one of the senior names in his big monograph instead of *Stylonychia*. Genus not recorded in BERGER (1999 [LB1083: 566]), but *Trichoda cyclidium* is listed as nomen oblitum.
- "Mystichona". Established without species, description or definition by JANKOWSKI in CORLISS (1979 [COR085: 231]), thus an unavailable nomen nudum (Art. 13.1.1; Code).

- Mytilophilus* ANTIPA & DOLAN 1985 [E00512: 360]. TS: *M. pacificae* by monotypy. First mentioned by ANTIPA & SMALL in CORLISS (1979 [COR085: 266]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code).
- Myxophthirus* SILVA NETO 1992 [Z06248: 421]. TS: *M. anomalocardiae* by monotypy. Improved diagnosis: XU & SONG (2000 [CI1690: 229]).
- Myxophyllum* RAABE 1934 [CI4114: 221]. TS: *Conchophthirus steenstruppi* STEIN 1861 by monotypy. First mentioned by RAABE (1933 [CI1488: 5]) without definition, thus a nomen nudum (Art. 13.1.1; Code). Revision: RAABE (1971 [Z06219: 135]).

## N

- Nannocladinella* DEFLANDRE & DEUNFF 1957 [E00171: 3093]. TS: *N. epitheca* by original designation.
- Nannophrya* KAHL 1933 [KAH015: 49]. TS: *N. truncata* by monotypy.
- Nassula* EHRENBERG [1834] [EHR003: 303]; note different pagination of the separate [EHR081: 159]. TS: *N. flava* CLAPARÈDE & LACHMANN 1859 by subsequent designation by FROMENTEL (1875 [E00689: 168]); nomenclature of type species see FOISSNER (1987 [FOI173: 222]). Synonyms: *Acidophorus*, *Cyclogramma*, *Liosiphon*, *Seminassula*, *Zosterograptus*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Key to marine species: CAREY (1992 [LB0008: 112]).
- Nassulopsis* FOISSNER, BERGER & KOHMANN 1994 [FOI300: 430]. TS: *Nassula elegans* EHRENBERG 1833 by original designation. Feminine gender according to Article 30.1.2 of the Code. Name not validly published, i.e. a nomen nudum, by FAURÉ-FREMIET (1959 [E00199: 1429]) since no type species was designated (Art. 13.3; Code); validated by FOISSNER et al. Synonym: *Enneameron*. Redescriptions of type species: SOLA et al. (1990 [COR180: 17]) and cp. FOISSNER et al. (1994 [FOI300: 430]).
- "Nathella". Not made available by SINGH (1953 [E00327: 129]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Naxella* FRYD-VERSAVEL, IFTODE & DEROUX 1980 [E00560: 79A]. TS: *Nassula lateritia* CLAPARÈDE & LACHMANN 1859 by monotypy. Not recorded in the Zoological Record (1980, 1981, 1982 and CD-version). Although contained in an unpublished work (Art. 9.9; Code) in my opinion, considered as valid by DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 266]), FOISSNER (1987 [FOI173: 223]), and FOISSNER & O'DONOGHUE (1990 [FOI228: 678]). Incorrectly ascribed to "FOISSNER & O'DONOGHUE 1990" in PUYTORAC (1994 [Z06331: 594]).
- Nematacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta rotunda* ALLGEN 1950 by original designation (& monotypy); incomplete reference to basionym.
- Nematopoda* SAND 1901 [CI1128: 85]. TS: *N. cylindrica* by monotypy. Synonym of *Tintinnus* (e.g. FAURÉ-FREMIET 1908 [E01193: 227]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Nemertodendron* JANKOWSKI 1978 [CI1415: 495]. TS: *Ophryodendron prenanti* DUBOSQ 1925 by original designation (& monotypy); incomplete reference to basionym.
- Neobursaridium* BALECH 1941 [E00172: 29]. TS: *N. gigas* by monotypy.
- Neogeneia* EIGNER 1995 [CI1456: 341]. TS: *N. hortualis* by original designation (& monotypy).
- Neoncytotherus* AFFA'A 1983 [CI1645: 141]. TS: *N. dragescoi* by original designation.

- Nephrocerca* DELPHY 1939 [E00174: 54]. TS: *Trachelocerca tenuicollis* QUENNERSTEDT 1867 by original designation (& monotypy). Synonym of *Trachelocerca* (e.g. FOISSNER & DRAGESCO 1996 [FOI371: 45]).
- Netaspidisca* JANKOWSKI 1978 [CI1413: 40]. TS: *Aspidisca (Netaspidisca) acerosa* (for *Aspidisca caspica* sensu AGAMALIEV 1967) by original designation (& monotypy). Established as subgenus of *Aspidisca*. Twice stated as newly introduced by JANKOWSKI (1979 [CI1188: 58], but not page 50).
- Neteuplotes* JANKOWSKI 1978 [CI1413: 40]. TS: *Euplotes elegans* KAHL 1932 by original designation. Established as subgenus of *Euplotes*. Twice stated as newly introduced by JANKOWSKI (1979 [CI1188: 58], but not on page 54). Also misspelled "Neteouplotes" in JANKOWSKI (1979 [CI1188: 54]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Not recognized in their revision of the Euplotida by BORROR & HILL (1995 [CI1462: 457]), but a synonym of *Euplotopsis*.
- Nicollella* CHATTON & PÉRARD 1919 [E00220: 10]. TS: *N. ctenodactyli* by original designation (& monotypy).
- Nidula* GAJEWSKAJA 1933 [CI1460: 181]. TS: *N. multicapitata* by monotypy. Misspelled "Nedula" in NAIDENOVA (1985 [CI1548: 61]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Epistylis* (e.g. CORLISS 1979 [COR085: 274]).
- Niemarshallia* CORLISS 1960 [COR036: 275]. TS: *Craterella aperta* MARSHALL 1934 by original designation (& monotypy). Substitute name of the preoccupied *Marshallia*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Nipponarcon* JANKOWSKI 1981 [CI1416: 96]. TS: *N. setarius* by original designation (& monotypy). Masculine gender according to Article 30.2.3 of the Code.
- Nivaliella* FOISSNER 1980 [FOI066: 393]. TS: *N. plana* by original designation (& monotypy). Revision: FOISSNER (1993 [FOI282: 413]).
- Njinella* NGASSAM 1983 [CI1243: 134]. TS: *N. prolifera* by monotypy.
- Nolaclusilis* SNYDER & BROWNLEE 1991 [Z06253: 584]. TS: *N. bicornis* by monotypy.
- Nolandia* SMALL & LYNN 1985 [Z06206: 465]. TS: *Coleps nolandia* KAHL 1930 by monotypy. Synonym of *Coleps* (e.g. FOISSNER et al. 1999 [FOI450: 297]).
- Noracineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta infundibuliformis* WANG & NIE 1933 by original designation (& monotypy); incomplete reference to basionym. Synonym of *Anthacineta* by placement of the type species (cp. CURDS 1987 [E02043: 100]).
- "Nordicoma". Established without species, description or definition by JANKOWSKI in CORLISS (1979 [COR085: 233]), thus a nomen nudum (Art. 13.1.1; Code).
- Nothopleurotricha* DIESING 1866 [CI1490: 521]. TS: *Pleurotricha setifera* ENGELMANN 1862 by monotypy. Introduced without species one month before a species was mentioned (cp. [CI1511: 118]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]). Synonym of *Gastrostyla* (e.g. BÜTSCHLI 1889 [LB0896: 1747]; JANKOWSKI 1979 [CI1188: 58]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Notocephalus* PETZ, SONG & WILBERT 1995 [CI1432: 169], including redescription of type species. TS: *Tachysoma parvulum* CORLISS & SNYDER 1986 by original designation. Mandatory change of gender ending necessary (Arts. 31.1.3, 34.2; Code), because the latinized "cephalus" from Greek "kephale" (head) is masculine, viz. *Notocephalus parvulus* nom. corr.



- Notohymena** BLATTERER & FOISSNER 1988 [FOI191: 70]. TS: *N. rubescens* by original designation (& monotypy). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 146]). Revision and key to species: BERGER (1999 [LB1083: 324]).
- Notoxoma** FOISSNER 1993 [FOI282: 504]. TS: *N. parabryophryides* by original designation.
- Novistrombidium** SONG & BRADBURY 1998 [CI1684: 772]. TS: *Strombidium testaceum* ANIGSTEIN 1914 by original designation.
- Nuchterleinella** MATTHES 1990 [CI1328: 139]. TS: *N. corneliae* by monotypy. "Nüchterleinella" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code.
- Nucleocorbula** SANTHAKUMARI & NAIR 1970 [E00323: 139]. TS: *N. adherens* by monotypy.
- Nummulella** CARUS 1832 [CI1407: 70]. TS: *N. conchiliospermatica* by monotypy, now considered as synonym of *Trichodina pediculus* (e.g. EHRENBERG 1838 [EHR010: 290]; BÜTSCHLI 1889 [LB0896: 1759]; GUHL & HAIDER 1988 [LB0344: 259]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Nyctositum** AFFA'A 1979 [CI1467: 333]. TS: *N. amieti* by monotypy.
- Nyctotheroides** GRASSÉ 1928 [CI1140: 65]. TS: *Bursaria cordiformis* EHRENBERG 1838 (for *Chaos intestinalis cordiformis* BLOCH 1782, partim) by monotypy; incomplete reference to basionym. Masculine gender according to Article 30.1.4.4 of the Code. Misspelled "Nyctitherus" in CLAPARÈDE & LACHMANN (1858 [E00117: 137]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Kudoella*, *Pseudonyctotherus*. Improved diagnosis: EARL (1972 [Z06222: 255]). Keys to species: MAHOON & KHAN (1986 [E02149: 405]); KALAVATI et al. (1991 [E02128: 47]).
- Nyctotherus** LEIDY 1849 [E00275: 233]. TS: *N. velox* by monotypy. Improved diagnosis: EARL (1972 [Z06222: 255]).

## O

- Obertrumia** FOISSNER & ADAM 1981 [FOI077: 308], including redescription of type species. TS: *Nassula georgiana* DRAGESCO 1972 by original designation, a misidentification now considered as synonym of *O. aurea* (e.g. FOISSNER et al. 1999 [FOI450: 700]). Misspelled "Obertumia" in DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 257]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Ochoterenaiia** CHAVARRIA 1933 [E00014: 191]. TS: *O. appendiculata* by monotypy. Revision: WOLSKA (1971 [Z06216: 34]). Redescription of type species: WOLSKA (1978 [CI2220: 483]).
- Ochridanus** GEORGÉVITCH 1941 [CI1435: 71]. TS: *O. ocellatus* by monotypy. Revision: PUYTORAC (1972 [CI1224: 22]).
- Octocirrus** MADHAVA RAO 1929 [E00961: 116]. TS: *O. spheratus* by original designation (& monotypy). Synonym of *Strombidium* (e.g. CORLISS 1961 [COR113: 162], 1979 [COR085: 302]; with authorship "RAO 1928"). Very likely a fragment of a hypotrich or an oligotrich, thus considered as nomen dubium.
- Odontochlamys** CERTES 1891 [E00531: 540]. TS: *O. gouraudi* by monotypy. Improved diagnosis: FOISSNER (1981 [FOI071: 295]). Redescription of type species: FOISSNER (1988 [FOI193: 34]).
- Odontophorella** KOFOID & CAMPBELL 1929 [CI1434: 317]. TS: *O. serrulata* by original designation (& monotypy). Misspelled "Odonthophorella" in SCHWARZ (1964 [E01239: 218]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).

- Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Odontotintinnus** KOFOID & CAMPBELL 1939 [E00262: 363]. TS: *Tintinnus turris* KOFOID & CAMPBELL 1929 by original designation. Established as subgenus of *Eutintinnus*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Oenophorachona** MATSUDO & MOHR 1968 [E00288: 281]. TS: *O. ectenolaemus* by monotypy.
- Ogimotoa** ITO & IMAI 2000 [Z04569: 65]. TS: *O. trichoradiata* by original designation (& monotypy).
- Ogimotopsis** ITO & IMAI 2000 [Z04569: 67]. TS: *O. campanulata* by original designation. Feminine gender according to Article 30.1.2 of the Code.
- Oldesloeria** FOISSNER 1983 [FOI090: 53]. TS: *Prorodon mimeticus* KAHL 1930 by original designation; misdated with "1930-35". Junior objective synonym of *Pleurofragma* JANKOWSKI 1976 due to the same type species (Art. 61.3.3; Code; already noticed by FOISSNER 1987 [FOI173: 221]).
- Olgella** KOSHEVOJ 1987 [E01414: 124]. TS: *O. priori* by original designation.
- Oligoisotricha** IMAI 1981 [CI1275: 206]. TS: *Isotricha bubali* DOGIEL 1928 by original designation (& monotypy). JANKOWSKI (1986 [CI1525: 87]) transferred the type species to *Pingius*. Considered as valid for instance by DEHORITY et al. (1983 [E02156: 1394]) and ORPIN & MATHIESEN (1986 [CI1486: 529]).
- Olla** KOSHEVOJ 1987 [E01415: 22]. Homonym of *O.* CASEY 1899, coleopteran insect. Both names in current use (cp. Zoological Record (CD-version)). Objective synonym of *Ollella* nom. nov.
- Ollella** nomen novum for the preoccupied *Olla*. TS: *O. karlovensis* KOSHEVOJ 1987 by original designation (& monotypy). Derivation: Composition of *Olla* and the Latin diminutive suffix "-ella". Gender: feminine.
- Oncosonderia** JANKOWSKI 1980 [CI1013: 118]. TS: *Sonderia tubigula* KAHL 1930 by original designation (& monotypy). Generic name of type species misspelled "Soederia" in JANKOWSKI (1980 [CI1013: 118]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Onychaspis** STEIN 1859 [PR1074: 125]. TS: *Aspidisca (Onychaspis) polystyla* by monotypy. Established as subgenus of *Aspidisca*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]). Synonym of *Aspidisca* (e.g. KENT 1882 [E00074: 793]; CORLISS 1979 [COR085: 311]).
- Onychodactylus** ENTZ 1884 [E00056: 350]. Homonym of *O.* TSCHUDI 1838, amphibian. Objective synonym of *Hartmannula* POCHE 1913.
- Onychodromopsis** STOKES 1887 [E00684: 107]. TS: *O. flexilis* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 146]). Nomenclature and key to species: BERGER (1999 [LB1083: 475]), who mentioned the misspelling "Onychodromus". The species redescribed by PETZ & FOISSNER (1996 [FOI395: 264]) as *O. flexilis* is now considered as synonym of *Allotricha antarctica* (cp. BERGER 1999 [LB1083: 261]).
- Onychodromus** STEIN 1859 [CI1394: 4]. TS: *O. grandis* by monotypy. Misspelled "Oxychodromus" in KENT (1882 [E00074: 766]) and "Onycodromus" in GRANDORI & GRANDORI (1934 [BM0391: 292]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]). Synonyms: *Himantophorus*, *Peritromoides*. Redescription of type species: SZABÓ & WILBERT (1995 [Z01927: 50]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 722]), who mentioned as further

- misspellings "Onchodromus", "Onyochodromus", "Onichodromus", "Onycchodromus"(p. 753), "Onychdromus", "Onychodromus", "Onychodroma", "Onychodromas", "Onychodromis", "Onychodromous", "Onychodronus" and "Orynchodromus".
- Oospira* CHATTON & LWOFF 1930 [BM1170: 315]. TS: *O. aselli* by original designation (& monotypy). Homonym of *O. BLANFORD* 1872, gastropod. Preoccupied name, which has fallen as junior synonym of *Gymnodinioides* (e.g. CORLISS 1960 [COR036: 269]). If the genus is resurrected, a new name is necessary.
- Opalinopsis* FOETTINGER 1881 [E00223: 367]. TS: No type species fixed. Feminine gender according to Article 30.1.2 of the Code. Considered as synonym of *Opalinopsis* by BÜTSCHLI (1889 [LB0896: 1718]); CORLISS (1960 [COR036: 272]) and PUYTORAC (1994 [Z06340: 840]) listed *Benedenia*, which was replaced by *Chromidina*, as (objective) synonym. However both taxa are based on different species and treated as valid by CORLISS (1979 [COR085: 235]) and PUYTORAC (1994 [Z06340: 840]).
- Opercularia* GOLDFUSS 1820 [E00229: 72]. TS: *O. articulata* by subsequent designation by GUHL (1979 [CI1315: 429]; not explicitly stated, ascribed to "(EHRENBERG) STEIN 1854"). Ascribed to "STEIN" in KENT (1881 [E00073: 710]); KAHL (1935 [KAH019: 698]); LOM & PUYTORAC (1994 [Z06202: 711]; dated "1854"). Synonyms: *Cochlearia* partim, *Discotheca*, *Kindella*, *Operculina*, *Valvularia*.
- Operculariella* STAMMER 1948 [E00095: 166]. TS: *O. parasitica* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Operculigera* KANE 1969 [E00255: 369]. TS: *O. montanea* by monotypy. Strictly speaking contained in an unpublished work (Art. 9.9; Code), but recorded in EDWARDS & TOBIAS (1993 [LB0758]). Improved diagnosis: CLAMP (1991 [CI1115: 365]).
- Operculina* BORY 1824 [Z06518: 577]. No type species fixed. Described twice as new genus by BORY (1824, 1827 [E02242: 231]). Homonym of *O. ORBIGNY* 1826, foraminifer. Synonym of *Opercularia* (e.g. EHRENBERG 1838 [EHR010: 287, 290]). If the genus is resurrected, a new name is necessary.
- "Ophiodiscus". Homonym of *O. HERTWIG* 1882, coelenterate. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). Unnecessarily replaced by "Toxopercularia" JANKOWSKI 1980.
- "Ophionecta". TS: *Holophrya oblonga* MAUPAS by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Ophionella* KENT 1881 [E00073: 623]. TS: *O. picta* by monotypy. Nomen oblitum in CORLISS (1979 [COR085: 208]). Synonym of *Ophryidium* (e.g. KAHL 1935 [KAH019: 752]; CORLISS 1961 [COR113: 153]). Synonym of *Gerda* by placement of the type species (cp. GUHL 1985 [Z06301: 133]).
- Ophiuraespira* CHATTON & LWOFF 1930 [BM1170: 316]. TS: *O. weilli* by original designation (& monotypy).
- Ophiurephelota* JANKOWSKI 1981 [CI1416: 99]. TS: *O. tenax* by original designation (& monotypy).
- Ophrydiopsis* PENARD 1922 [E00134: 278]. TS: *O. concava* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym of *Scyphidiella* by placement of the type species (cp. GUHL 1985 [Z06301: 128]).
- Ophryidium* BORY 1824 [Z05029: 530 and Z06532: 582]. TS: *O. versatile* (basionym *Vorticella versatilis* MÜLLER 1786) by monotypy. Described twice as new genus by BORY (1824, 1827 [E02243: 245]). EHRENBERG (1838 [EHR010: 293]) considered the genus as monotypic in synonymizing all other species included by BORY. Original

- spelling *Ophrydia* emended by EHRENBERG (1830 [EHR001: 41]) and in prevailing usage, thus a justified emendation (Art. 33.2.3.1; Code). Ascribed to "BORY 1826" in CORLISS (1979 [COR085: 275]); SMALL & LYNN (1985 [Z06206: 423]), and SCHULZE et al. (1935 [LB0603: 2364]). Synonyms: *Echinella*, *Ophionella*, *Raphanella*. Incomplete revision: GUHL (1985 [Z06301: 141]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1992 [FOI265: 232], 1999 [FOI450: 543]). These author incorrectly cited "EHRENBERG 1830" as combining author, however, a justified emendation has to be attributed to the author of the name in its original incorrect spelling, i.e. BORY, and not to the person making the emendation, viz. EHRENBERG (Art. 50.4; Code). Since already BORY transferred *Vorticella versatilis* to the other genus, viz. *Ophrydia*, he is the combining author.
- Ophryocephalus*** WAILES 1925 [E00457: 46]. TS: *O. capitatum* by monotypy. Masculine gender according to Article 30.1.3 of the Code, thus mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *O. capitatus* nom. corr.
- Ophryocerca*** EHRENBERG 1831 [EHR002: 112]. TS: *O. ovum* by monotypy. Synonym of *Trachelius* (e.g. EHRENBERG 1838 [EHR010: 323]; BÜTSCHLI 1889 [LB0896: 1692]; FOISSNER 1997 [FOI335: 202]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Ophryodendron*** CLAPARÈDE & LACHMANN 1859 [E00118: 391]. TS: *O. abietinum* by monotypy. Misdated with "1858" in SCHULZE et al. (1935 [LB0603: 2364]). Only diagnosed, fully characterized in CLAPARÈDE & LACHMANN (1861 [E02071: 143-148]). Synonyms: *Asterifer*, *Corethria*, *Euophryodendron*, *Loricodendron*, *Proophryodendron*.
- Ophryoglana*** EHRENBERG 1831 [EHR002: 117]. TS: *O. citreum* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "glene" (eye ball, pupill of the eye) is feminine, viz. *O. citrea* nom. corr. Synonyms: *Glenopanophrys*, *Linza*, *Meniscostomum*, *Otostoma*, *Panophrys*, *Protophryoglana*, *Sisyridion*. Key to marine species: CAREY (1992 [LB0008: 127]). Saprobiological monograph: FOISSNER et al. (1994 [FOI300: 110]).
- Ophryoscolex*** STEIN 1859 [CI1555: 69]. TS: *O. inermis* by subsequent designation by BUISSON (1923 [E00500: 237]; not explicitly stated and misdated with "1858"). Described twice with two species in 1859 (see above and 1859 [CI1394: 57]). Misspelled "Orphryoscolex" in CUNHA (1919 [CI9012: 4]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revisions and keys to species: DOGIEL (1927 [BM0278: 183]; misdated with "1858"); KOFOID & MACLENNAN (1933 [BM0612: 19]).
- Opisthiotricha*** PERTY 1852 [E00084: 150]. TS: *O. tenue* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 58]). Nomen oblitum in DIESING (1866 [CI1490: 538]) and CORLISS (1979 [COR085: 208]). Considered as nomen dubium by BORROR (1972 [CI1191: 19]).
- Opisthodon*** STEIN 1859 [CI1394: 2]. TS: *O. niemeccensis* by monotypy. Synonym of *Loxophyllum* (e.g. KAHL 1931 [KAH012: 198]; CORLISS 1961 [COR113: 122]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Improved diagnosis and redescription of type species: FOISSNER (1984 [FOI109: 205]; misspelled "O. niemeccense"), thus resurrected.
- Opisthonecta*** FAURÉ-FREMIET 1906 [E02161: 922]. TS: *O. henneguyi* by monotypy. Misdated with "1924" in KAHL (1935 [KAH019: 663]) and LOM & PUYTORAC (1994 [Z06202: 713]). A senior homonym was indicated in WATERHOUSE (1912 [LB0948]) in collembolan insects, however, this could not be verified in nomenclators and special recent literature (Erhard CHRISTIAN, personal communication). Revision: FOISSNER (1975 [FOI023: 406]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1992 [FOI265: 299], 1999 [FOI450: 467]).
- Opisthostomatella*** CORLISS 1960 [COR036: 275]. TS: *Opisthostomum bengalensis* [sic] GHOSH 1928 by original designation (& monotypy). Substitute name of the preoccupied

- Opisthostomum*. Revision and key to species: FOISSNER (1993 [FOI282: 382]), who incorrectly changed the gender ending ascribed to *O. bengalense*. However, the Latin suffix "-ella" is feminine (Art. 30.1.3; Code), thus *Opisthostomatella bengalensis* is correct.
- Opisthostomum* GHOSH 1928 [CI1395: 383]. Homonym of *O.* SCHMARDA 1859, turbellarian. Objective synonym of *Opisthostomatella* CORLISS 1960. Misdated with "1929" in KAHL (1931 [KAH012: 311]).
- Opisthostyla* STOKES 1886 [E00788: 565]. TS: No type species fixed. Synonym of *Rhabdostyla* (e.g. BÜTSCHLI 1889 [LB0896: 1767]).
- Opisthotricha* KENT 1882 [E00074: 785]. TS: *Oxytricha parallela* ENGELMANN 1862 by original designation. Misdated with "1881" in KAHL (1932 [KAH014: 608]). Misspelled "Opistotricha", which is also listed as synonym by CORLISS (1979 [COR085: 311]), "Opistrotricha", and "Opithotricha" (for literature see BERGER 1999 [LB1083: 117]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 59]). Key to marine species: CAREY (1992 [LB0008: 191]); genus misdated with "1880-2". Synonym of *Oxytricha* (e.g. BÜTSCHLI 1889 [LB0896: 1749]; BERGER & FOISSNER 1997 [FOI445: 146]; BERGER 1999 [LB1083: 115]).
- Opisthotrichum* BUISSON 1923 [E00750: 1218]. TS: *O. thomasi* by original designation (& monotypy), now considered as synonym of *O. janus* (basionym *Ophryoscolex janus* DOGIEL 1923) (cp. DOGIEL 1927 [BM0278: 221]; his species description was published five months earlier).
- Orbopercularia* GUHL 1979 [CI1315: 429]. TS: *Vorticella berberina* LINNAEUS 1767 by original designation; basionym incompletely given. Established by LUST (1950 [E00081: 371]) as nomen nudum because no type species was designated (Art. 13.3; Code). Validated by GUHL (1979 [CI1315: 429]), although not stated explicitly.
- Orbopyxidiella* GUHL 1979 [CI1315: 429]. TS: *Pyxidium stammeri* LUST 1950 by original designation. The basionym cited in the Zoological Record (CD-version), namely "Lagenophyrus" [sic!, perhaps par lapsus] *stammeri* LUST 1950, does not appear on the cited page. In 1976 JANKOWSKI ([CI1411: 168]) established "Ampullaster" for the same type species, the name is however unavailable.
- Orcavia* TUCOLESCO 1962 [E00374: 97]. TS: *O. spelea* by monotypy.
- Orchitophrya* CÉPÈDE 1907 [E00016: 1305]. TS: *O. stellarum* by monotypy. Redescription of type species: BOULAND et al. (1987 [CI9020: 249]).
- Orcula* WEISSE 1846 [PR1113: 229]. TS: *O. trochus* by monotypy. Homonym of *O.* HELD 1837, mollusc, and *O.* TROSCHEL 1846, echinoderm. Synonym of *Podophrya* (e.g. BÜTSCHLI 1889 [LB0896: 1927]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Oreoctoma* JANKOWSKI 1980 [CI1013: 119]. TS: *Cryptochilum sigmoides* YAGIU 1934 by original designation (& monotypy); basionym incompletely given. Synonym of *Cryptochilum* (e.g. BERGER 1994 [E01577: 113]).
- Ormosella* KOFOID & CAMPBELL 1929 [CI1434: 322]. TS: *O. cornucopia* (for *Tintinnus conicus* BRANDT 1906 non *T. conicus* DIXON & JOLLY 1898) by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Orsomia* BAER 1952 [E00170: 366]. TS: *O. mangenoti* by monotypy.
- Orthoamphisiella* EIGNER & FOISSNER 1991 [FOI238: 129]. TS: *O. stramenticola* by original designation (& monotypy).

- Orthochona* ANDRÉ 1910 [E00511: 181]. TS: *O. anilocrae* by monotypy. Considered as doubtful by KAHL (1935 [KAH019: 694]) and listed as subgenus of *Epistylis*. Synonym of *Epistylis* (e.g. CORLISS 1979 [COR085: 274]).
- Orthodon* GRUBER 1884 [CI1703: 524]. Misdated with "1888" in CAREY (1992 [LB0008: 109]). Homonym of *O. GIRARD* 1856, fish. Objective synonym of *Orthodonella* BHATIA 1936. Synonym: *Rhabdodon*.
- Orthodonella* BHATIA 1936 [CI1030: 130]. TS: *Orthodon hamatus* GRUBER 1884 by being a replacement name (& monotypy). Substitute name of the preoccupied *Orthodon*. Synonym: *Rhabdodon*. Key to marine species: CAREY (1992 [LB0008: 109]).
- Orthokreyella* FOISSNER 1984 [FOI110: 98]. TS: *O. schiffmanni* by original designation (& monotypy).
- "Orthotrochilia". Not made available by DEROUX (1976 [E00181: 515]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Orthurceolaria* JANKOWSKI 1980 [CI1013: 117]. TS: *Urceolaria elongata* FENCHEL 1965 by original designation.
- Ostracodinium* DOGIEL 1927 [BM0278: 134]. TS: *Diplodinium dentatum* FIORENTINI 1889 by subsequent designation by KOFOID & MACLENNAN (1932 [CI1238: 123]); basionym incompletely given. KOFOID & MACLENNAN listed *O. mammosum* (RAILLIET 1890) as type species, which is however a junior synonym of *O. dentatum* (cp. DOGIEL 1927 [BM0278: 139]). Discussion about type species see WILLIAMS & COLEMAN (1991 [LB0002: 52]). Established as subgenus of *Diplodinium*; according to the Zoological Record (CD-version) partially treated as genus.
- Otostoma* CARTER 1856 [PR1097: 117]. TS: *O. carteri* KENT 1881 by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code. Genus established without naming a species. KENT (1881 [E00073: 500]) introduced the species name in honour of CARTER. Possibly a homonym of *O. D'ARCHIAC* 1856, gastropod; however, dated "1859" in SCHULZE et al. (1935 [LB0603: 2414]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Synonym of *Ophryoglena* (e.g. CLAPARÈDE & LACHMANN 1858 [E00117: 257]; KAHL 1931 [KAH012: 361]). If the genus is resurrected, a new name may be necessary after clarification of the months of publication.
- Ovalorhabdos* FOISSNER 1984 [FOI110: 31]. TS: *O. sapropelica* by original designation (& monotypy).
- Ovolembus* SMALL & LYNN 1985 [Z06206: 533]. TS: *O. caroni* by monotypy.
- Oxychona* JANKOWSKI 1973 [CI1504: 20]. Homonym of *O. MOENCH* 1852, mollusc. Objective synonym of *Oxychonina* CORLISS 1979.
- Oxychonina* CORLISS 1979 [COR085: 232]. TS: *Oxychona multifida* JANKOWSKI 1973 by original designation (& monotypy). Substitute name of the preoccupied *Oxychona*.
- Oxytricha* BORY 1824 [Z05029: 530 and Z06519: 593]. TS: *O. granulifera* FOISSNER & ADAM 1983 by subsequent designation by FOISSNER (1989 [FOI213: 235]). Original spelling *Oxitricha* emended by EHRENBERG (1830 [EHR001: 43]) and in prevailing usage, thus a justified emendation (Art. 33.2.3.1; Code). Incorrectly ascribed to "EHRENBERG 1830" by SCHULZE et al. (1935 [LB0603: 2427]). Synonyms: *Actinotricha*, *Opisthotricha*, *Rhabdotricha*. Some incorrect subsequent spellings (for literature see BERGER 1999 [LB1083: 115]): "Ocytricha", "Onytricha", "Oxitrica", "Oxitricha", "Oxitrycha", "Oxythrica", "Oxyticha", "Oxytrichia", "Oxytrichum", "Oxytrocha". Revision, nomenclature, detailed discussion of the rather complicated type species problem, and key to species: BERGER (1999 [LB1083: 115]), who ascribed the authorship to "BORY DE SAINT-VINCENT in LAMOUREUX, BORY DE SAINT-VINCENT & DESLONGCHAMPS" (the reasons for shortening are explained in chapter 4.1.1).

## P

- Pachyfolliculina*** HADŽI 1951 [E00001: 33]. TS: *Folliculina gunneri* DONS 1927 by monotypy.
- Pachystomos*** RUDZINSKA 1952 [CI1318: 157]. TS: *Pachystomos olisthus* RUDZINSKA 1948 by monotypy; no reference to the earlier paper is given. Substitute name of the preoccupied *Pachystomos*.
- Pachystomos*** RUDZINSKA 1948 [E00620]. Homonym of *P.* HECKEL 1842, fish. Objective synonym of *Pachystomos* RUDZINSKA 1952.
- Pachytrocha*** KENT 1882 [E00074: 729]. TS: *P. cothurnoides* by monotypy. Misdated with "1881" in LOM & PUYTORAC (1994 [Z06202: 722]). Synonym of *Cothurnia* (e.g. BÜTSCHLI 1889 [LB0896: 1769]), *Pyxicola* (e.g. TRUEBA 1978 [E01069: 223]; dated "1881"; CORLISS 1979 [COR085: 276]).
- Pallitrichodina*** VAN AS & BASSON nov. gen. TS: "*Pallitrichodina rogenae* VAN AS & BASSON 1993 by original designation. Described by VAN AS & BASSON (1993 [CI1483: 47]) without designating a type species, thus a nomen nudum (Art. 13.3; Code). Validated herein according to the correspondence with VAN AS & BASSON, thus correct authorship is to be cited as "VAN AS & BASSON in AESCHT 2001". The indication of type species *P. rogenae* in the Zoological Record (CD-version) is incorrect, since Article 68.2.1 (i.e. "gen. n., sp. n." to only one of two new nominal species originally included in a new nominal genus, are deemed to be an original designation) can only be applied before the year 1931.
- Palmarella*** JANKOWSKI 1975 [E00250: 27]. TS: *Palmarium salinum* GAJEWSKAJA 1925 by monotypy. Substitute name of the preoccupied *Palmarium*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 59]).
- Palmarium*** GAJEWSKAJA 1926 [E00020: 279]. Homonym of *P.* MONFORT 1810, mollusc. Objective synonym of *Palmarella* JANKOWSKI 1975. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 59]; misdated with "1925").
- Pamplota*** THOMSON 1888 [E02228: 16]. Superfluous substitute name for *Planiplotes* ANDRUSSOWA 1886, thus an objective synonym (cp. SCHULZE et al. 1935 [LB0603: 2471]) and subsequently synonym of *Diophrys*. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Panophrys*** DUJARDIN 1841 [CI1202: 491], also spelled "Panophris" on page 493, probably par lapsus. TS: *Ophryoglena flavicans* EHRENBERG 1831 by subsequent designation by KENT (1881 [E00073: 534]). First mentioned by DUJARDIN (1840 [E00054: 286]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). In 1841 he included three species. Misspelled "Panaphrys" in FROMENTEL (1876 [E00689: 360]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Sisyridion*. Synonym of *Ophryoglena* (e.g. BÜTSCHLI 1889 [LB0896: 1703]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Panophrys*** QUENNERSTEDT 1869 [E00668: 9]. TS: *P. fusca* by monotypy. Homonym of *P.* DUJARDIN 1841, ciliate. Synonym of *Frontonia* (e.g. CLAPARÈDE & LACHMANN 1859 [E00118: 262]; KAHL 1931 [KAH012: 321]).
- Pantotrichum*** EHRENBERG 1830 [EHR001: 39]. TS: *Lagenula volvox* (for *Leucophra viridis* MÜLLER 1786) by monotypy. Misspelled "Pantotricha" in KENT (1881 [E00073: 530]), BÜTSCHLI (1889 [LB0896: 1679]), and KAHL (1930 [KAH008: 58]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nomen oblitum in DIESING (1866 [CI1490: 537]) and CORLISS (1979 [COR085: 208]). Synonym of *Urotricha* (e.g. CLAPARÈDE & LACHMANN 1859 [E00118: 315]; BÜTSCHLI 1889 [LB0896: 1678]; KAHL 1930 [KAH008: 58]).

- Papillorhabdos** FOISSNER 1984 [FOI110: 40]. TS: *P. multinucleatus* by original designation. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "rhabdos" is feminine, viz. nom. corr. *P. multinucleata* nom. corr.
- Parabakuella** SONG & WILBERT 1988 [CI1358: 319]. TS: *P. typica* by original designation (& monotypy). Improved diagnosis: ALEKPEROV (1992 [CI1491: 8]). Improved diagnosis and synonymy with *Holostichides*: EIGNER (1994 [CI1619: 473]).
- Parablaste** CRAGIN 1889 [E00660: 28]. TS: *P. clavata* by monotypy.
- "Parablepharisma". Not made available by KAHL (1932 [KAH014: 450]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Key to marine species: CAREY (1992 [LB0008: 153]); incorrectly dated with "1930-5".
- Parabryophrya** FOISSNER 1985 [FOI133: 245], including redescription of type species. TS: *Colpoda penardi* KAHL 1931 by original designation (& monotypy). Revision: FOISSNER (1993 [FOI282: 488]).
- Parabundleia** IMAI & OGIMOTO 1983 [CI1632: 585]. TS: *P. ruminantium* by original designation (& monotypy).
- Parabursaria** GHOSH 1921 [E00409: 12]. TS: *P. pheretima* by monotypy. Synonym of *Balantidium* (e.g. CORLISS 1979 [COR085: 219]).
- Parachaenia** KOFOID & BUSH 1936 [BM0599: 1]. TS: *P. myae* by monotypy. Synonym of *Ancistrocoma* (e.g. CORLISS 1979 [COR085: 233]).
- Parachilodonella** DRAGESCO 1966 [CI1050: 187]. TS: *P. lygiae* by monotypy.
- Parachitinoidea** TREJO 1972 [PR1094: 82]. TS: *P. cuvillieri* by original designation (& monotypy).
- Paracichlidotherus** GRIM 1992 [CI1143: 152]. TS: *P. leeuwenhoekii* by monotypy. Improved diagnosis: GRIM (1998 [E01983: 44]).
- Paracineta** COLLIN 1911 [E00048: 468]. TS: *Acineta patula* CLAPARÈDE & LACHMANN 1861 (for *Acineta homari* SAND and *A. crenata* FRAIPONT) by subsequent designation by CURDS (1987 [E02043: 86]). Objective synonym: *Stemacineta*. Synonyms: *Hallezia*. Genus revision, improved diagnosis, and key to species: CURDS (1987 [E02043: 87]).
- Paraclathrostoma** SMALL & LYNN 1985 [Z06206: 515]. TS: *P. marina* by monotypy. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *Paraclathrostoma marinum* nom. corr. SMALL & LYNN established the genus for "the (*Frontoniella*) species described by ROQUE". ROQUE (1961 [CI1246: 467]), however, mentioned *Frontoniella complanata* as single species of the genus without a figure. Thus, the basionym remains unclear.
- Paraclevelandia** KIDDER 1937 [E00259: 195]. TS: *P. brevis* by original designation. Improved diagnosis: EARL (1972 [Z06222: 256]).
- "Paracoelophrya". Not made available by PUYTORAC (1969 [CI1237: 265]), viz. a nomen nudum (Art. 13.3; Code), for lack of type species fixation. The Zoological Record of the year 1969 stated on page 160 *P. intermedia* as type species, likely because the expression "n. gen., n. sp." was applied to only one of the two originally included species. However, this does not fulfill Article 68.2.1 of the Code. Revision: PUYTORAC (1972 [CI1224: 26]).
- Paracollinia** JANKOWSKI 1980 [CI1013: 119]. TS: *Collinia branchiarum* STEIN by original designation (& monotypy); incomplete reference to basionym.
- Paracolpidium** GANNER & FOISSNER 1989 [FOI214: 205], including redescription of type species. TS: *Colpidium truncatum* STOKES 1885 by original designation. Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 56]).
- Paracolpoda** LYNN 1978 [CI4056: no. 9]. TS: *Colpoda maupasi* ENRIQUES 1908 by original designation. Synonym of *Colpoda* (e.g. FOISSNER 1990 [FOI225: 115], 1993 [FOI282: 84]).



- Paracondylostoma*** FOISSNER 1980 [FOI065: 96]. TS: *P. setigerum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Revision and key to species: FOISSNER (1993 [FOI282: 488]).
- Paractedectoma*** SMALL & LYNN 1985 [Z06206: 538]. TS: *P. minuta* by monotypy. Misspelled "Paradectoma" in the Zoological Record (CD-version), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Paractedoctema*** SONG & WILBERT 2000 [CI1679: 216]. TS: *P. acruosa* by original designation (& monotypy).
- Paracunhamunizia*** ITO & IMAI 2000 [Z04569: 60]). TS: *P. calocoma* by original designation (& monotypy).
- Paracyathodinium*** CUNHA & FREITAS 1940 [CI1479: 482]. TS: *Cyathodinium chagasi* CUNHA & FREITAS 1935 by original designation. Established as subgenus of *Cyathodinium*.
- Paracyclidium*** GROLIÈRE, PUYTORAC & GRAIN 1980 [E00565: 237]. TS: *Cyclidium rhabdotectum* POWERS 1935 by monotypy. Probably erroneously denoted as "n. gen." in SMALL & LYNN (1985 [Z06206: 423]), because they refer to the same type species on page 540.
- Paracycloposthium*** GRAIN 1994 [Z06201: 359]. TS: *Cycloposthium hydrochoeri* CUNHA 1915 by monotypy.
- Paradentacineta*** JANKOWSKI 1978 [CI1415: 495]. TS: *Thecacineta cypridinae* COLLIN by original designation (& monotypy); incomplete reference to basionym. Synonym of *Thecacineta* by placement of the type species (cp. CURDS 1987 [E02043: 92]).
- Paradexiotricha*** GROLIÈRE 1975 [CI1232: 83]. TS: *P. puytoraci* by monotypy.
- Paradileptus*** WENRICH 1929 [BM1019: 352]. TS: *Amphileptus flagellatus* ROUSSELET 1890 by original designation. Synonym: *Tentaculifera*. Redescriptions necessary (cp. FOISSNER et al. 1995 [FOI340: 203]).
- Paradiophrys*** JANKOWSKI 1978 [CI1413: 40]. TS: *Diophrys irmgard* MANSFELD 1923 by original designation. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 59]), who established two subgenera, thus nominotypical subgenus (Art. 44; Code). Improved diagnosis: HILL & BORROR (1992 [CI1084: 149]).
- Paradiscophrya*** JANKOWSKI 1981 [CI1416: 110]. TS: *Podophrya astaci* CLAPARÈDE & LACHMANN 1859 by original designation (& monotypy). Synonym of *Discophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 98]).
- Paraenchelys*** FOISSNER 1983 [FOI090: 68]. TS: *P. spiralis* by original designation.
- Paraeuplotes*** WICHTERMANN 1942 [E00351: 108]. TS: *P. tortugensis* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 60]).
- Parafavella*** KOFOID & CAMPBELL 1929 [CI1434: 157]. TS: *P. denticulata* (basionym *Tintinnus denticulatus* EHRENBERG 1840) by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]). Keys to marine species: YOO & KIM (1990 [E02095: 104]); CAREY (1992 [LB0008: 173]).
- Parafavelloides*** DEFLANDRE & DEFLANDRE 1949 [CI1589: III]. TS: *P. ruesti* by original designation; the basionym "P. rüsti" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Masculine gender according to Article 30.1.4.4 of the Code. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Parafolliculina*** DONS 1914 [E00184: 83]. No type species fixed. Misdated with "1913" in KAHL (1932 [KAH014: 474]). Synonym: *Semifolliculina*.
- Parafurgasonia*** FOISSNER & ADAM 1981 [FOI077: 304], including redescription of type species. TS: *Nassula sorex* PENARD 1922 by original designation.

- Paragastrostyla*** HEMBERGER 1985 [CI1194: 407]. TS: *P. lanceolata* by original designation. Misdated with "1981" in TUFFRAU & FLEURY (1994 [Z06341: 137]). Improved diagnoses: EIGNER & FOISSNER (1994 [FOI306: 258]); PETZ & FOISSNER (1996 [FOI395: 277]).
- Paraglaucoma*** KAHL 1926 [KAH001: 351]. TS: *P. rostrata* by monotypy.
- Paraglaucoma*** WARREN 1932 [E00637: 1]. TS: *P. limacis* by monotypy. Junior homonym of *P.* KAHL 1926, ciliate; placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1974). Preoccupied name, which has fallen as junior synonym of *Tetrahymena* (e.g. CORLISS 1960 [COR036: 270], 1979 [COR085: 257]).
- Paraheliophrya*** JANKOWSKI 1978 [CI1415: 495]. TS: *Heliophrya minima* RIEDER 1936 by original designation (& monotypy); incomplete reference to basionym. Misspelled "Paraheliphrya" in JANKOWSKI (1979 [CI1426: 529]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Heliophrya* by placement of the type species (cp. FOISSNER et al. 1995 [FOI340: 438], including redescriptions of type species).
- Parahistriculus*** GROLIÈRE 1975 [CI1071: 493]; also spelled "Parahistricus" on page 481, probably par lapsus, but listed as synonym by CORLISS (1979 [COR085: 311]). TS: *P. minimus* by monotypy. Misdated with "1976" in EDWARDS & TOBIAS (1993 [LB0758: 370]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 60]). Synonymy with *Histriculus* questionable (cp. BERGER & FOISSNER 1997 [FOI445: 149]; BERGER 1999 [LB1083: 646]).
- Paraholosticha*** WENZEL 1953 [CI1047: 104]. TS: "*Paraholosticha*" *herbicola* KAHL 1932 by original designation. Name not made available by KAHL (1932 [KAH014: 545]) since no type species was designated (Art. 13.3; Code); validated by WENZEL (see above); not recognized by BORROR (1972 [CI1191: 11]; incorrect authorship). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 60]; incorrect authorship), who established three subgenera. Synonym of *Keronopsis* (e.g. FOISSNER & FOISSNER 1988 [FOI196: 84]). Treated als valid (e.g. FOISSNER 1998 [FOI421: 207]).
- Parahypocoma*** CHATTON & LWOFF 1939 [E00217: 431]. TS: *P. collini* by original designation (& monotypy).
- Paraisotricha*** FIORENTINI 1890 [CI1529: 16]. TS: *P. colpoidea* by subsequent designation by BUISSON (1923 [E00500: 229]; not expressly stated). Again established in the same year (cp. [CI1529: 53]; also spelled "Paraisotricha", probably par lapsus). Improved diagnosis and redescription of type species: WOLSKA (1964 [Z06211: 217]).
- Paraisotrichopsis*** GASSOVSKY 1919 [E00880: 30]. TS: *P. composita* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Parakahliella*** BERGER, FOISSNER & ADAM 1985 [FOI125: 295]. TS: *Paraurostyla macrostoma* FOISSNER 1982 by original designation. Improved diagnoses: BERGER & FOISSNER (1989 [FOI209: 17]); EIGNER (1995 [CI1456: 363]).
- "Parakeronopsis" SHI, SONG & SHI 1999 [Z06465: 105]). TS: *P. wentzeli* (WENZEL 1953) by original designation; incomplete reference to basionym. Feminine gender according to Article 30.1.2 of the Code. However, the authors only announce a description or definition, thus a nomen nudum (Art. 13.1.1; Code).
- Paralagenophrys*** CLAMP 1987 [CI1111: 250], including redescription of type species. TS: *Lagenophrys singularis* KELLICOTT 1887 by original designation.
- "Paralembus". Substitute name of the preoccupied *Lemboides* KAHL 1931. Name not made available by KAHL (1933 [KAH015: 81]) since no type species was designated (Art. 13.3; Code); "nom. n." incorrectly repeated by KAHL (1935 [KAH019: 834]).

- Paraloricophrya* JANKOWSKI 1978 [CI1415: 495]. TS: *Paracineta lauterborni* SONDHEIM 1929 by original designation; incomplete reference to basionym. The Zoological Record (CD-version) incorrectly stated "Type species not given". Synonym of *Loricophrya* (cp. CURDS 1987 [E02043: 95]).
- Paraloxocephalus* SMALL & LYNN 1985 [Z06206: 529]. TS: *P. coatsi* by monotypy. Masculine gender according to Article 30.1.3 of the Code.
- Paramaecidium* SAVI 1915 [E01067: 21]. TS: *Paramaecium glaucum* CLAPARÈDE & LACHMANN 1859 by monotypy. Synonym of *Paramecium* (e.g. KAHL 1931 [KAH012: 295]; CORLISS 1979 [COR085: 260]).
- Paramecium* MÜLLER 1773 [E00132: xxvii, 54]. TS: *Paramaecium aurelia* by subsequent designation by FROMENTEL (1875 [E00689: 183]). For a long time a number of protozoologists cited this genus, for example, as "*Paramecium* HILL 1752" (e.g. BHATIA 1936 [CI1030: 145]; KAHL 1931 [KAH012: 289]; ROQUE 1961 [CI1246: 473]; JANKOWSKI 1969 [CI1674: 30]), ignoring that the starting point of zoological nomenclature is the I.1.1758, thus it is an excluded name according to Article 3.2. of the Code. MÜLLER actually spelled this generic name *Paramaecium*, but there has been quite general and widespread agreement for many years among taxonomic protozoologists, from EHRENBERG (1838 [EHR010: 349]) onward, that the "ae" be reduced to "e" (cp. CORLISS 1962 [COR039: 311]), thus it is a justified emendation (Art. 33.2.3.1; Code). The emendation was made by GMELIN (1790 [E01008: 3895]). Misspelled "*Paramaecia*" in LOSANA (1829 [E02064: 45]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Cypreostoma*, *Helianter*, *Paramaecidium*, *Peritricha*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). JANKOWSKI (1969 [CI1674: 37]) established three subgenera, not currently used. Revision: LUDWIG (1930 [E01107: 33]); WICHTERMANN (1985 [LB0327: 51]). Key to marine species: CAREY (1992 [LB0008: 128]).
- Parametopidium* nomen novum for the preoccupied *Parametopus* GROLIÈRE, PUYTORAC & GRAIN 1980. TS: *Metopus circumlabens* BIGGAR & WENRICH 1932 by original designation (& monotypy). Derivation: Composition of *Parametopus* and the Latin termination "-idium", which is in compounds a diminutiv suffix. Gender: neuter.
- Parametopus* GROLIÈRE, PUYTORAC & GRAIN 1980 [E00565: 237]. Homonym of *P. MELCHIAR* 1906, homopteran insect. Objective synonym of *Parametopidium* nom. nov. Redescription of type species: KATTAR (1985 [E02148: 158]).
- Paramitrella* JANKOWSKI 1978 [CI1413: 40]. TS: *Epiclintes caudatus* BULLINGTON 1940 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 60]).
- Paramphiella* FOISSNER 1988 [FOI194: 121]. TS: *Amphiella acuta* FOISSNER 1982 by original designation. Improved diagnoses: EIGNER & FOISSNER (1994 [FOI306: 258]); PETZ & FOISSNER (1996 [FOI395: 277]).
- Paranassula* KAHL 1931 [KAH012: 221]. TS: *P. microstoma* (basionym *Paramecium microstomum* CLAPARÈDE & LACHMANN 1859) by monotypy, basionym spelled *Paramaecium* and misdated with "1858".
- Paranophrys* THOMPSON & BERGER 1965 [BM1079: 527]. TS: *P. marina* by monotypy. Synonyms: *Anophrys partim*; *Anophryoides*.
- Paranoplophrya* ROHRBACH 1936 [E00628: 135]. TS: *P. vivipari* by original designation (& monotypy).
- Paranyctotherus* SANDON 1941 [E00371: 116]. TS: *Balantidium kirbyi* RODRIGUEZ 1939 by monotypy. Synonym of *Balantidium* (e.g. CORLISS 1979 [COR085: 219]).
- Paranyctotherus* NGASSAM 1983 [E00309: 167]. Homonym of *P. SANDON* 1941, ciliate. Objective synonym of *Cameronyctus* JANKOWSKI 1986.

- Paraoxychona* JANKOWSKI 1973 [AEB543: 322]. TS: *P. inversa* by original designation (& monotypy).
- Parapetalotricha* HADA 1970 [E00233: 38]. TS: *P. meridiana* by monotypy.
- Paraphilaster* GROLIÈRE, PUYTORAC & GRAIN 1980 [E00565: 233]. TS: *P. echini* by monotypy. First mentioned in an abstract by GROLIÈRE et al. (1978 [E00809: 55A]), thus contained in an unpublished work (Art. 9.9; Code); validly described and first time figured one year later.
- Paraplagiopyla* THURSTON & GRAIN 1971 [E00341: 138]. TS: *P. kiboko* by original designation (& monotypy).
- Parapodophrya* KAHL 1931 [KAH010: 457]. TS: *Sphaerophrya soliformis* LAUTERBORN 1908 (for *Sphaerophrya sol* LAUTERBORN 1901, a homonym) by original designation. Keys to species: CURDS (1986 [E02041: 83]); MATTHES (1988 [LB0005: 180]). Redescriptions of type species see FOISSNER et al. (1995 [FOI340: 476]).
- Paraprorodon* FOISSNER 1983 [FOI090: 53]. TS: *Prorodon morgani* KAHL 1930 by original designation; misdated with "1930-35". Improved diagnosis: HILLER & BARDELE (1988 [CI2287: 234]).
- Parapychostomum* NGASSAM, PUYTORAC & GRAIN 1994 [Z06254: 155]. TS: *P. almae* by original designation (& monotypy). Genus mentioned as "NGASSAM, inédit" and type species as "*P. almae* NGASSAM, PUYTORAC & GRAIN, inédit" by PUYTORAC (1994 [Z06298: 748]); these are however nomina nuda (Art. 13.1.1; Code).
- Parapyxicola* JANKOWSKI 1985 [CI1417: 97]. TS: *Pyxicola ligiae* CUENOT 1891 by original designation (& monotypy). Masculine gender according to Article 30.1.4.2 of the Code.
- Pararaabena* WOLSKA 1968 [Z06214: 219]. TS: *P. dentata* by original designation (& monotypy). Revision: WOLSKA (1971 [Z06216: 37]).
- Parasicuophora* ALBARET 1968 [E01085: 449]. TS: *P. mantellae* by monotypy. Misspelled "Parasicuiphora" in AFFA'A (1988 [CI9081: 141]). Improved diagnosis: EARL (1972 [Z06222: 256]).
- "Parasonderia". Not made available by FAURÉ-FREMIET (1973 [E00206: 2011]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Paraspathidium* NOLAND 1937 [E00299: 163]. TS: *P. trichostomum* by monotypy. Key to marine species: CAREY (1992 [LB0008: 106]).
- Parasphaerophrya* JANKOWSKI 1981 [CI1416: 85]. TS: *Sphaerophrya urostylae* MAUPAS 1881 by original designation (& monotypy). Established as subgenus of *Sphaerophrya*. Synonym of *Podophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 165]).
- "Parasphenophrya" JANKOWSKI 1986 [CI1571: 163]. TS: *Sphenophrya dreissenae* by original designation; basionym incompletely given. Established as subgenus of *Sphenophrya*. Contained in an unpublished work (Art. 9.9; Code) and not recorded in the Zoological Record, thus unavailable.
- Parastentor* VUXANOVICI 1961 [E00346: 437]. TS: *P. tentaculatus* by monotypy.
- Parastokesia* JANKOWSKI 1967 [CI1569: 36]. TS: *Leucophrys tetraedrica* FAURÉ-FREMIET 1924 by original designation (& monotypy). Taxonomic and ecological monographs, including synonymy with *Disematostoma*: FOISSNER et al. (1994 [FOI300: 185], 1999 [FOI450: 414]).
- Parastomiosphaera* NOWAK 1968 [PR1180: 319]. TS: *Stomiosphaera malmica* BORZA 1964 by original designation (& monotypy). Uncertain tintinnine (CORLISS 1979 [COR085: 307]). Probably a nomen dubium.
- Parastrombidium* FAURÉ-FREMIET 1924 [CI1365: 80]. KAHL (1932 [KAH014: 510]) established the new species *P. faurei* for the undetermined species of FAURÉ-FREMIET

- (1924 [CI1365: 80]), but KAHL considered the taxon as synonym of *Strobilidium* (cp. CORLISS 1979 [COR085: 302]).
- Parastrongylidium*** FLEURY & FRYD-VERSAVEL 1985 [CI3108: 533]. TS: *P. martini* by original designation (& monotypy).
- Parastylonychia*** DRAGESCO 1963 [CI1055: 263]. TS: *P. plouneouri* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 60]). Improved diagnosis, but redescription necessary: BERGER & FOISSNER (1997 [FOI445: 149]); BERGER (1999 [LB1083: 696]).
- Parastylophrya*** JANKOWSKI 1978 [CI1415: 495]. TS: *Dendrosomides tumidis* GAJEWSKAJA 1933 by original designation (& monotypy); incomplete reference to basionym. Objective synonym: *Digitophrya*.
- Paratetrahymena*** THOMPSON 1963 [BM1080: 126]. TS: *P. wassi* by original designation (& monotypy).
- "Paratintinnina". Not made available by BORZA & SAMUEL (1977 [CI1557: 143]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Although the expression "nov. gen. et nov. sp." is only applied to *P. tulipaformis* in the title, this is not deemed to be an original designation after 1931 (Art. 68.21; Code).
- Paratintinnopsis*** HADA 1964 [CI1455: 2]. TS: *Tintinnopsis (Paratintinnopsis) corniger* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Tintinnopsis*. Mandatory change of gender ending necessary (Arts. 30.1.2, 34.2; Code), because the Greek "opsis" (appearance) is feminine, viz. *Paratintinnopsis cornigera* nom. corr.
- Paratontonia*** JANKOWSKI 1978 [CI1413: 40]. TS: *Tontonia gracillima* FAURÉ-FREMIET 1924 by monotypy. Considered in its original combination by PETZ et al. (1995 [CI1432: 132]), viz. synonym of *Tontonia*.
- Paratrachodina*** LOM 1963 [E00279: 13]. TS: *Tripartiella (Paratrachodina) globonuclea* by original designation. Established as subgenus of *Tripartiella*. Key to species: BANINA et al. (1984 [AEB550: 373], treated as genus). Considered as synonym of *Semitrachodina* by GUHL & HAIDER (1988 [LB0344: 290]). Treated as valid by BASSON & VAN AS (1989 [CI1118: 158], incorrectly stating *Paratrachodina incissa* (LOM 1959) as type species).
- Paratrochilia*** KAHL 1933 [KAH015: 69]. TS: *P. chilodontoides* by monotypy.
- Parauronema*** THOMPSON 1967 [E00338: 731]. TS: *P. virginianum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Improved diagnosis and redescription of type species: SONG & WILBERT (2000 [CI1705: 62]).
- Paraurostyla*** BORROR 1972 [CI1191: 9]. TS: *Urostyla weissei* STEIN 1859 by original designation. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 60]). Redescriptions of type species: SHIN & KIM (1988 [E01783: 70]); see also FOISSNER et al. (1991 [FOI243: 260]). Key to marine species: CAREY (1992 [LB0008: 177]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 841]), who mentioned the misspellings "Paraurostula" and "Parurostyla".
- Paraurotricha*** FOISSNER 1983 [FOI090: 60], including redescription of type species. TS: *Urotricha discolor* KAHL 1930 by original designation; misdated with "1930-35" (also in the Zoological Record (CD-version)).
- Paravauchomia*** RAABE 1963 [CI1403: 132]. TS: *Trichodina urinaria* DOGIEL 1940 by original designation (& monotypy). Synonym of *Trichodina* (e.g. CORLISS 1979 [COR085: 277]; GUHL & HAIDER 1988 [LB0344: 270]; BASSON & VAN AS 1989 [CI1118: 158]).
- Paravorticella*** KAHL 1933 [KAH015: 124]. TS: *Scyphidia terebellae* FAURÉ-FREMIET 1920 by monotypy. Again established as new by KAHL (1935 [KAH019: 671]); moreover, he

- enclosed three species and none as type, but these later statements have no nomenclatural status. Misdated with "1935" in LOM & PUYTORAC (1994 [Z06202: 707]).
- Paraxystonellopsis** KOFOID & CAMPBELL 1939 [E00262: 211]. TS: *Xystonellopsis acuminata* KOFOID & CAMPBELL 1929 by original designation. Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Xystonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Parazoothamnium** PIESIK 1975 [E00304: 63]. TS: *P. stenotica* by subsequent designation by WARREN (1988 [CI1431: 146]). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek suffix "-um" is neuter, viz. *P. stenoticum* nom. corr.
- Parducia** DRAGESCO 1999 [CI1678: 54]. TS: *Geleia orbis* FAURÉ-FREMIET 1950 by original designation.
- Parendosphaera** JANKOWSKI 1981 [CI1416: 96]. TS: *Endosphaera multifiliis* GÖNNERT 1935 by original designation (& monotypy). Synonym of *Endosphaera* by placement of the type species (cp. MATTHES 1988 [LB0005: 63]).
- Parentocirrus** VOB 1997 [CI1575: 30]. TS: *P. hortualis* by original designation (& monotypy). Revision: BERGER (1999 [LB1083: 879]).
- Parentodinium** THURSTON & NOIROT-TIMOTHÉE 1973 [E00342: 562]. TS: *P. africanum* by original designation.
- Parhypocoma** CHATTON & LWOFF 1939 [E00217: 431]. TS: *P. collini* by original designation.
- Parundella** JÖRGENSEN 1924 [E00252: 46]. TS: *P. caudata* (basionym *Tintinnus caudatus* OSTENFELD 1899) by subsequent designation by LOEBLICH & TAPPAN (1968 [CI1533: 188]). Established as subgenus of *Undella*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]), who mentioned that *Parundella lachmanni* (DADAY) was designated as type on elevation to generic rank by KOFOID & CAMPBELL (1929 [CI1434: 225]), but this species was not originally included and thus cannot be selected as type species (Art. 69.2.2; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 225]). Key to species: SOUTO (1981 [E02105: 376]).
- Parundellopsis** KOFOID & CAMPBELL 1939 [E00262: 213]. TS: *Xystonellopsis epigurus* KOFOID & CAMPBELL 1929 by original designation. Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Xystonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Paruroleptus** WENZEL 1953 [CI1047: 109]. TS: *Uroleptus caudatus* STOKES 1886 by original designation. Established as subgenus of *Holosticha* by KAHL (1932 [KAH014: 586]), but unavailable because he did not designate a type species (Art. 13.3; Code). Validated by WENZEL, who subsequently selected the type species. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]), who overlooked the validation and incorrectly stated *P. lacteus* KAHL 1932 as type species (Art. 69.1; Code). Synonym of *Uroleptus* (cp. FOISSNER et al. 1991 [FOI243: 244]; authorship: 248). BERGER (1999 [LB1083: 698]) mentioned the misspelling "Puraropeltus", viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Parurosoma** GELEI 1954 [CI1002: 332]. TS: *Holosticha (Parurosoma) dubium* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Established as subgenus of *Holosticha*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]). Improved diagnosis, but redescription necessary: BERGER & FOISSNER (1997 [FOI445: 148]); see also BERGER (1999 [LB1083: 491]).
- Patelloides** LEISCHNER 1959 [CI1409: 874]. TS: *P. juvavica* by original designation (& monotypy). Homonym of *P.* HOMBRON & JACQUINOT 1841, mollusc. Misspelled "Patilloides" in NEAL et al. (1963 [E01223: 122]). Listed in the generic catalogue of

- tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]). Uncertain tintinnine or crinoid (CORLISS 1979 [COR085: 307]), probably a nomen dubium.
- "Patellonema". TS: *Orbopercularia krauteri* MATTHES & GUHL 1972 by original designation. Neuter gender according to Article 30.1.2 of the Code. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Patronella* CORLISS 1979 [COR085: 302]. TS: *Torquatella typica* LANKESTER 1874 by monotypy. Substitute name of the preoccupied *Torquatella*. Synonym of *Strombidium* (e.g. BÜTSCHLI 1889 [LB0896: 1732]) or *Strobilidium* (e.g. MAEDA 1986 [E02025: 5]).
- Patschia* SMALL & LYNN 1985 [Z06206: 464]. TS: *Urotricha saprophila* KAHL 1930 by monotypy. Objective synonym of *Dissothigma* JANKOWSKI 1976 due to same type species, already noticed by FOISSNER (1987 [FOI173: 220]).
- Pattersoniella* FOISSNER 1987 [FOI176: 207]. TS: *P. vitiphila* by original designation (& monotypy). Revision: BERGER (1999 [LB1083: 766]).
- Paurotricha* DRAGESCO & DRAGESCO-KERNÉIS 1991 [CI1187: 229]. TS: *P. cylindriformis* by original designation (& monotypy); now considered as synonym of *Cristigera pleuronemoides* by ESTEBAN & OLMO (1997 [CI1627: 431]). Synonym of *Cristigera* by placement of the type species.
- Pebrilla* GIARD 1888 [E00460: 316]. TS: *P. paguri* by monotypy. Indicated as subgenus of "Folliculinopsis" in FAURÉ-FREMIET (1935 [CI1427: 1129], which is however unavailable; but not explicitly stated on page 1143).
- Pectenita* JANKOWSKI 1973 [E00821: 214]. TS: *P. golikowi* by monotypy.
- Pedifolliculina* HADŽI 1951 [E00001: 105]. TS: *Pseudofolliculina arctica* DONS 1915 by monotypy. Superfluous substitute name for *Pseudofolliculina*, thus an objective synonym.
- Pediostomum* KAHL 1932 [KAH014: 483]. TS: *Climacostomum diedrum* FAURÉ-FREMIET 1924 by monotypy.
- Pedohymena* FOISSNER 1995 [FOI338: 58]. TS: *P. australiense* by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "humen" (thin skin, membrane) is feminine, viz. *P. australiensis* nom. corr.
- Peitiada* FRENZEL 1892 [PR1021: 357]. TS: *P. mirabilis* by monotypy. Nomen oblitum in CORLISS (1979 [COR085: 208]; misspelled "Peitiadia").
- Pelagacinet* JANKOWSKI 1978 [CI1415: 495]. TS: *Tokophrya interrupta* SCHRÖDER by original designation; incomplete reference to basionym. The Zoological Record (CD-version) incorrectly stated "Type species not given". Improved diagnosis and key to species: CURDS (1987 [E02043: 83]). Synonym: *Soracinet*.
- Pelagodileptus* FOISSNER, BERGER & SCHAUMBURG 1999 [FOI450: 232]. TS: *Dileptus tracheloides* ZACHARIAS 1894 by original designation (& monotypy).
- Pelagohalteria* FOISSNER, SKOGSTAD & PRATT 1988 [FOI199: 491]. TS: *Halteria viridis* FROMENTEL 1876 by original designation (& monotypy). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 569]).
- Pelagolacrymaria* FOISSNER, BERGER & SCHAUMBURG 1999 [FOI450: 265]. TS: *P. moserae* by original designation.
- Pelagostrobilidium* PETZ, SONG & WILBERT 1995 [CI1432: 138]. TS: *Strobilidium neptuni* MONTAGNES & TAYLOR 1994 by original designation.
- Pelagostrombidium* KRAINER 1991 [Z06247: 64]. TS: *Strombidium mirabile* PENARD 1916 by original designation. KRAINER (1995 [CI1473: 54]) incorrectly cited *Pelagostrombidium fallax* (ZACHARIAS 1894) KRAINER 1991 as type species (Art. 69.1.2;

- Code). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 590]).
- Pelagothrix*** FOISSNER, BERGER & SCHAUMBURG 1999 [FOI450: 395]. TS: *P. chlorelligera* by original designation.
- Pelagotrichidium*** JANKOWSKI 1978 [CI1413: 40]. TS: *Hypotrichidium faurei* TUFFRAU 1972 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]) designating the type species (misdated as "1970") as nomen nudum; it was however sufficiently described by TUFFRAU (1972 [CI1080: 260]). Misdated with "1979" in TUFFRAU & FLEURY (1994 [Z06341: 137]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 683]); redescription recommended.
- Pelagovasicola*** JANKOWSKI 1980 [CI1013: 118]. TS: *Didinium cinctum* VOIGT 1901 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 30.1.4.2, 31.2, 34.2; Code), because the Latin "cola" (dweller; inhabitant) is masculine, viz. *Pelagovasicola cinctus* nom. corr. Also spelled probably par lapsus "Pelagivasicola" in the Zoological Record (CD-version). Redescription of type species: KRAINER (1995 [CI1473: 45]; spelled "*P. cinctum*"). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 213]; spelled "*P. cinctum*").
- Pelagovorticella*** JANKOWSKI 1980 [CI1013: 116]. TS: *Vorticella mayeri* FAURÉ-FREMIET 1920 by original designation; incorrectly dated "1923". Taxonomic and ecological monograph of type species: FOISSNER et al. (1992 [FOI265: 118], in its original combination; 1999 [FOI450: 480]); redescription necessary.
- Pelamphora*** LAUTERBORN 1901 [E00127: 52]. TS: *P. buetschlii* by monotypy, now considered as synonym of *Vasicola ciliata* (cp. KAHL 1928 [KAH004: 77], 1930 [KAH008: 14]). The basionym "*P. bütschlii*" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Synonym of *Vasicola* (e.g. KAHL 1928 [KAH004: 77], 1930 [KAH008: 14]; CORLISS 1961 [COR113: 125]) by placement of type species. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Pelatractus*** KAHL 1930 [KAH008: 143]. No type species fixed.
- Pelecida*** DUJARDIN 1841 [CI1202: 403]. TS: *Kolpoda rostrum* MÜLLER 1773 by monotypy. First mentioned by DUJARDIN (1840 [E00054: 285]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Synonym of *Loxodes* (e.g. CLAPARÈDE & LACHMANN 1859 [E00118: 339]; BÜTSCHLI 1889 [LB0896: 1694]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Pelicyophrya*** CHATTON & LWOFF 1922 [E00813: 915]. TS: *P. tapetis* by monotypy. Review: RAABE (1970 [Z06218: 448]).
- Pelekydion*** EBERHARD 1862 [CI1475: 23]. TS: *P. barbatulum* by monotypy. Synonym of *Spathidium* (e.g. BÜTSCHLI 1889 [LB0896: 1680]; KAHL 1930 [KAH008: 154]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Pelodinium*** LAUTERBORN 1908 [E00128: 663]. TS: *P. reniforme* by monotypy. According to FOISSNER et al. (1992 [FOI265: 437]) redescription necessary.
- Peltacineta*** JANKOWSKI 1978 [CI1415: 495]. TS: *Trichophrya cordiformis* SCHEWIAKOFF 1893 by original designation (& monotypy); incomplete reference to basionym. Genus not recognized by MATTHES (1988 [LB0005: 51]), i.e. species listed in its original combination.
- Peltierius*** ORMANCEY 1852 [CI1528: 290]. TS: *P. barbatus* by monotypy. Misspelled "Peltierus" in NEAVE (1940 [LB0753: 645]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Spirostomum* (e.g. BÜTSCHLI 1889 [LB0896: 1723]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Penardiella*** KAHL 1930 [KAH007: 406]. TS: *Legendrea interrupta* PENARD 1922 by original designation



- Peniculistoma** JANKOWSKI 1964 [CI1377: 272]. TS: *Conchophthirus mytili* MORGAN 1925 by monotypy; incomplete reference to basionym. Neuter gender according to Article 30.1.2 of the Code. In his extremely short treatment, JANKOWSKI did not recognize that *Kidderia* and *Morgania*, both homonyms, share the same type species. Revision: RAABE (1971 [Z06219: 165]). Objective synonyms: *Kidderia*, *Morgania*.
- Pentahymena** FOISSNER 1994 [FOI330: 289]. TS: *P. corticicola* by original designation (& monotypy).
- Perezella** CÉPÈDE 1910 [E00205: 447]. TS: *P. pelagica* by monotypy. Written with diacritic marks in KAHL (1934 [KAH017: 172]), viz. "Pérezella", corresponding to an unavailable incorrect subsequent spelling (Arts. 27, 32.5.2; Code).
- Periacineta** COLLIN 1909 [E00464: 1095]. TS: *Podophrya buckei* KENT 1881 by subsequent designation by JANKOWSKI (1981 [CI1416: 112]); basionym incompletely given. JANKOWSKI (1981 [CI1416: 112]) established two subgenera, not used at present. Synonym of *Discophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 135]). Potentially valid, but needs clarification.
- Pericaryon** CHATTON 1911 [E00009: 9]. TS: *P. cesticola* by monotypy. Originally spelled *Perikaryon*, however, the emendation of CHATTON & LWOFF (1935 [BM0192: 391]) prevailed (e.g. CORLISS 1979 [COR085: 235]).
- Pericometes** SCHNEIDER 1886 [E00671: 82]. TS: *P. digitatus* by monotypy. Described twice as new genus by SCHNEIDER (1886 and 1893 [E00465: 19]). The generic name and its misspelling "Periocometes", viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code), are listed as nomina oblita in CORLISS (1979 [COR085: 208]). Synonym of *Stylocometes* by placement of the type species (e.g. BÜTSCHLI 1889 [LB0896: 1933]; CORLISS 1961 [COR113: 137]; MATTHES 1988 [LB0005: 149]).
- Peridinium** CLARK 1866 [E00685: 393]. Homonym of *P.* EHRENBERG 1830, dinoflagellate. Objective synonym of *Calceolus* DIESING 1866 and subsequently subjective synonym of *Urocentrum* (e.g. BÜTSCHLI 1889 [LB0896: 1711]; author erroneously spelled "JAMES-CLARKE").
- Peridinopsis** CLARK 1866 [PR1108: 5]. TS: *P. pseudocuirass* (for *Peridinium cypripedium* sensu CARTER) by monotypy. Feminine gender according to Article 30.1.2 of the Code. Single originally included species only named later. Synonym of *Urocentrum* (e.g. BÜTSCHLI 1889 [LB0896: 1711]; author spelled "JAMES-CLARKE" and genus misspelled "Peridiniopsis"). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Peridion** VUXANOVICI 1962 [E00742: 555]. TS: *P. gigas* by monotypy.
- Peridionella** VUXANOVICI 1963 [E00741: 76]. TS: *P. truncata* by monotypy.
- Peridiscophrya** NOZAWA 1938 [E00083: 253]. TS: *P. japonica* by monotypy. JANKOWSKI (1981 [CI1416: 112]) incorrectly ascribed the genus to "KORMOS 1938" and mentioned *Acineta linguifera* CLAPARÈDE & LACHMANN 1858 as type species.
- Perifolliculina** HADŽI 1951 [E00001: 153]. TS: *Parafolliculina roestensis* DONS 1931 by monotypy; the basionym "P. röstensis" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code.
- Periholosticha** HEMBERGER 1985 [CI1194: 403]. TS: *P. lanceolata* by original designation (& monotypy). Misdated with "1982" in SONG (1990 [CI1296: 222]) and TUFFRAU & FLEURY (1994 [Z06341: 128]), in this year, however, only the unpublished thesis has been available. Improved diagnosis: SONG (1990 [CI1296: 222]).
- Peripheres** CARUS 1832 [CI1407: 70]. TS: *P. conchiliospermaticum* by monotypy. Synonym of *Conchophthirus* (e.g. BÜTSCHLI 1889 [LB0896: 1720]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

- Perisincirra** JANKOWSKI 1978 [CI1413: 40]. TS: *Uroleptus kahli* GROLIÈRE 1975 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]). Incorrectly ascribed to "HEMBERGER 1985" in TUFFRAU & FLEURY (1994 [Z06341: 143]).
- Perispira** STEIN 1859 [CI1394: 60]. TS: *P. ovum* by monotypy. Redescription of type species: FERNANDEZ-LEBORANS & MARTIN-GONZALEZ (1982 [E02130: 226]). Key to marine species: CAREY (1992 [LB0008: 57]).
- Peristrombidium** JANKOWSKI 1978 [CI1413: 40]. TS: *Strombidium latum* KAHL 1932 by monotypy.
- Peritricha** BORY 1824 [Z05029: 529 and Z06520: 613]. No type species fixed. Described twice as new genus by BORY (1824, 1828 [E02244: 233]). Misspelled "Perithrica" in BORY (1826 [CI1612: 410]) and "Politricha" in BORY ("1831" according to EHRENBERG 1838 [EHR010: 304] and BÜTSCHLI 1889 [LB0896: 1711]; not seen), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Paramecium* (e.g. BÜTSCHLI 1889 [LB0896: 1711]).
- Peritromoides** BHATIA 1936 [CI1030: 363]. TS: *P. simplex* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]), who mentioned the misspelling "Peritromides" without reference. Synonym of *Onychodromus* (e.g. CORLISS 1979 [COR085: 311]) or *Hypotrichidium* (e.g. JANKOWSKI 1979 [CI1188: 61]).
- Peritromus** STEIN 1863 [CI1286: 162]. TS: *P. emmae* by monotypy. According to STEIN (1867 [PR1075: 165]), the species name has erroneously been not printed. Misspelled "Peristomus" in FARIA et al. (1922 [PR1085: 197]) and PINTO (1925 [E02169: 257]). Synonym: *Spirostomina*. Key to marine species: CAREY (1992 [LB0008: 162]).
- Perseia** ROSSOLIMO 1926 [CI1501: 56]. TS: *P. dogieli* by monotypy. Misspelling "Persea" listed as synonym by CORLISS (1979 [COR085: 270]).
- Pescoozon** JANKOWSKI 1978 [CI1413: 40]. TS: *Balladyna euplotes* DRAGESCO 1960 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]).
- Petalotricha** KENT 1881 [E00073: 627]; provisionally established. TS: *Tintinnus ampulla* FOL 1881 by subsequent designation by BRANDT (1907 [E00188: 14]). Misspelled "Petralotricha" in KOFOID & CAMPBELL (1929 [CI1434: 204]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 202]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Phacodinium** PROWAZEK 1900 [BM0880: 54]. TS: *P. muscorum* by monotypy.
- Phagobanchium** JANKOWSKI 1967 [CI1568: 35]. TS: *Trichophrya piscium* BÜTSCHLI 1889 by original designation (& monotypy). Synonym of *Capriniana* (e.g. CORLISS 1979 [COR085: 240]) or *Trichophrya* (e.g. MATTHES 1988 [LB0005: 50]) by placement of the type species.
- Phalacroleptes** KOZLOFF 1966 [CI1274: 202]. TS: *P. verruciformis* by original designation (& monotypy).
- Phalodinium** VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1987 [CI1448: 340]. TS: *P. digitalis* by monotypy.
- Phascolodon** STEIN 1859 [CI1394: 2]. TS: *P. vorticella* by monotypy. Shortly characterized, but no species mentioned, by STEIN (1859 [CI1554: 63]). Misdated with "1869" in DEROUX (1994 [Z06325: 414]). Redescription of type species: FOISSNER (1979 [FOI052: 557]). Taxonomic and ecological monographs of type species: FOISSNER et al. (1991 [FOI243: 98], 1999 [FOI450: 693]).

- Phasmatopsis* DEROUX 1978 [E00651: 460]. TS: *P. limax* by monotypy. Feminine gender according to Article 30.1.2 of the Code. First mentioned as "DEROUX [unpublished]" in CORLISS (1979 [COR085: 225]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Moreover a homonym of *P. ROCHEBRUNE* 1884, mollusc, which is however mentioned as nomen dubium in the Zoological Record (CD-version). Objective synonym of *Beersena* JANKOWSKI 1989.
- Phialina* BORY 1824 [Z05029: 529 and Z06521: 616]. No type species fixed. FOISSNER (1983 [FOI090: 79]) noted *P. pupula* (MÜLLER 1786) as type species, however, it is not originally included and thus not eligible as type species (Art. 67.2, 69.2; Code). Described three times as new genus by BORY (1824, 1825 [E02240: 533], 1828 [E02245: 363]). Synonym: *Stravolaema*. Following EHRENBERG (1838 [EHR010: 310]) long considered as synonym of *Lacrymaria* (e.g. BÜTSCHLI 1889 [LB0896: 1683]; KAHL 1930 [KAH008: 95]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Considered as valid in FOISSNER & FOISSNER (1988 [FOI196: 19], misdated with "1826").
- Phialinides* FOISSNER 1988 [FOI194: 97]. TS: *P. australis* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- Philaster* FABRE-DOMERGUE 1885 [E00386: 554]. TS: *P. digitiformis* by monotypy. "Philasterella". Established without species, description or definition by EVANS in CORLISS (1979 [COR085: 262]), thus a nomen nudum (Art. 13.1.1; Code).
- Philasterides* KAHL 1931 [KAH012: 366]. TS: *Lembus armata* KAHL 1926 by monotypy. Misdated with "1926" in PUYTORAC (1994 [Z06335: 634]). Redescriptions and nomenclature of type species (cp. FOISSNER et al. 1994 [FOI300: 224]), who changed the gender ending according to Article 30b of the Code (I.C.Z.N. 1985 [EV0513]), viz. *P. armatus*. However, the corresponding article in the new Code, i.e. 30.1.4.4 allows the gender of the combined adjectival species name, viz. feminine.
- Phoretophrya* CHATTON, LWOFF & LWOFF 1930 [E00012: 1153]. TS: *P. nebaliae* by monotypy. Ascribed to "LWOFF 1930" in NEAVE (1940 [LB0753: 727]); to "CHATTON & LWOFF 1930" in CORLISS (1979 [COR085: 235]) and PUYTORAC (1994 [Z06200: 837]).
- Phragelliorhynchus* HERRICK 1884 [CI1436: 73]. TS: *P. nasutus* by original designation (& monotypy). Masculine gender according to Article 30.1.3 of the Code. Synonym of *Dileptus* (e.g. BÜTSCHLI 1889 [LB0896: 1693]; KAHL 1931 [KAH012: 207]; CORLISS 1961 [COR113: 122]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Phthorophrya* CHATTON, LWOFF & LWOFF 1930 [E00046: 1080]. TS: *P. insidiosa* by monotypy. Again established as new in the same year (cp. [E00012: 1152]). Misspelling "Phthorophrya" listed as synonym by CORLISS (1979 [COR085: 234]). Ascribed to "LWOFF & LWOFF 1930" in NEAVE (1940 [LB0753: 736]) and to "CHATTON & LWOFF 1930" in CORLISS (1979 [COR085: 235]).
- Phyllacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta jolyi* MAUPAS 1881 by original designation (& monotypy); incomplete reference to basionym. Synonym: *Ternacineta*. Revision, improved diagnosis, and key to species: CURDS (1985 [E00982: 122]).
- Phyllochona* JANKOWSKI 1972 [CI1497: 1619]. TS: *P. vexillata* by original designation (& monotypy).
- Phyllotrichum* ENGELMANN in BÜTSCHLI 1889 [LB0896: 1696]. TS: *P. striatum* by monotypy. Ascribed to "ENGELMANN 1875" in KAHL (1931 [KAH012: 234]), but only made available in BÜTSCHLI'S work. However, according to the Recommendation 51E of the Code, the responsible author should be mentioned.
- Physaliella* PENARD 1920 [E00762: 1]. TS: *P. collini* by monotypy, now considered as synonym of *Trypanococcus rotiferorum* by MATTHES (1988 [LB0005: 154]). Synonym of *Trypanococcus* by placement of type species (cp. also JANKOWSKI 1981 [CI1416: 97]).

- Physalophrya** KAHL 1931 [KAH012: 295]. TS: *Glaucoma spumosum* PENARD 1922 by original designation. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "ophrus" (eyebrow) is feminine, viz. *Physalophrya spumosa* nom. corr. Poorly known (cp. CORLISS 1961 [COR113: 148]).
- Physanter** JANKOWSKI 1975 [E00250: 27]. TS: *Faurella thermalis* ROQUE 1966 by monotypy. Substitute name of the preoccupied *Faurella*.
- Physochona** BATISSE & CRUMEYROLLE 1988 [CI1469: 636]. TS: *P. australis* by monotypy.
- Physophaga** PERCY 1929 [E01032: 107]. TS: *P. sappheira* by monotypy. Synonym of *Gymnodinioides* (e.g. CORLISS 1979 [COR085: 234]).
- Piesika** WARREN 1988 [CI1431: 147]. TS: *Parazoothamnium gammari* PIESIK 1975 by original designation (& monotypy).
- Pigostyla** TAGLIANI 1922 [E00410: 7]. TS: *Balladina viridis* PENARD 1922 by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 61]). Synonym of *Psilotricha* (e.g. KAHL 1932 [KAH014: 541]; CORLISS 1979 [COR085: 310]).
- Pinacocoleps** DIESING 1866 [CI1490: 506, 536]. TS: *Coleps incurvus* EHRENBERG 1833 by monotypy. Synonym of *Coleps* (e.g. BÜTSCHLI 1889 [LB0896: 1686], misspelled "Pinacoleps"; CORLISS 1961 [COR113: 120]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Pinchatia** SHIBUYA 1931 [E01119: 125]. TS: *Balantiophorus chaetophorae* PENARD 1922 by original designation (& monotypy). Neither recorded in the Zoological Records of 1931, 1932, 1933 nor in NEAVE (1940 [LB0754]).
- Pingius** HSIUNG 1932 [E00466: 89]. TS: *P. minutus* by monotypy.
- Pistillarina** DUMAS 1929 [CI1343: 44]. No type species fixed. Indicated as nomen oblitum by FOISSNER (1995 [FOI339: 124]).
- Pithites** DEROUX & DRAGESCO 1968 [CI1228: 389]. TS: *P. vorax* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- Pithothorax** KAHL 1926 [KAH001: 299]. TS: *P. processus* by original designation. KAHL founded the genus with two species but designated neither unequivocally as type. Specifically, he added "n. gen., sp. n." to *P. processus*, thus this corresponds to an original designation (Art. 68.2.1; Code). Synonyms: *Gymnopithus*, *Micropithus*.
- Placus** COHN 1866 [CI1419: 268]. TS: *P. striatus* by monotypy. Synonyms: *Spathidiopsis* FABRE-DOMERGUE non KAHL, *Thoracophrya*.
- Plagiocampa** SCHEWIAKOFF 1893 [PR1037: 51]. TS: *P. mutabilis* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 557]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Key to marine species: CAREY (1992 [LB0008: 37]).
- Plagiopogon** STEIN 1859 [CI1394: 59]. TS: *Holophrya coleps* EHRENBERG 1831 by monotypy; incomplete reference to basionym. Synonym: *Spathidiopsis*.
- Plagiopyla** STEIN 1860 [E00098: 58]. TS: *P. nasuta* by monotypy. Misspelled "Plagiophyla" in DIETZ (1964 [CI1056: 69]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Key to marine species: CAREY (1992 [LB0008: 102]). Redescriptions of type species: SOLA et al. (1988 [E02144: 279]); see also FOISSNER et al. (1995 [FOI340: 266]).
- Plagiopyliella** POLJANSKY 1951 [E00366: 383]. TS: *P. pacifica* by monotypy. Redescription of type species: LYNN & BERGER (1972 [CI9039: 310]).
- Plagiospira** ISSEL 1903 [E00244: 86]. TS: *P. crinita* by monotypy. Revision: RAABE (1970 [Z06217: 168]).

- "*Plagiostoma*". Established without description or definition by DUJARDIN (1840 [E00054: 286]), thus a nomen nudum (Art. 12.1; Code). Moreover a homonym of *P. SOWERBY* 1814, mollusc. Possibly *Plagiotoma* (see below) was intended.
- Plagiotoma*** DUJARDIN 1841 [CI1202: 504]. TS: *Leucophra lumbrici* SCHRANK 1803 by monotypy; nomenclature of type species see FOISSNER (1987 [FOI173: 230]). The subsequent designation of *Bursaria cordiformis* EHRENBERG as type species by FROMENTEL (1875 [E00689: 182]) is incorrect (Art. 69.1; Code). Diagnosis: EARL (1972 [Z06222: 256]; misdated with "1838"). Infraciliature of type species: FLEURY & FRYD-VERSAVEL (1985 [CI3108: 529]).
- Plagiotricha*** BORY 1824 [Z05029: 530 and Z06522: 622]. Described three times as new genus by BORY (1824, 1825 [E02240: 533], 1828 [E02246: 8]). Synonym of *Stylonychia* (e.g. EHRENBERG 1838 [EHR010: 374]), *Blepharisma* (e.g. BÜTSCHLI 1889 [LB0896: 1721]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Plagiotricha*** KENT 1882 [E00074: 771] TS: *Oxytricha strenua* ENGELMANN 1862 by original designation. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 62]); who recognized the homonymy with *Plagiotricha* BORY 1824 but did not correct it; moreover he erroneously designated *Gonostomum affine* STEIN 1859 as type species. Synonym of *Gonostomum* (e.g. BÜTSCHLI 1889 [LB0896: 1748]; BERGER & FOISSNER 1997 [FOI445: 145]; BERGER 1999 [LB1083: 367], including nomenclatural history).
- Planariola*** DUJARDIN 1841 [CI1202: 568]. TS: *P. rubra* by monotypy. First mentioned by DUJARDIN (1840 [E00054: 286]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). Not recorded by later authors (e.g. BÜTSCHLI 1889 [LB0896]; CORLISS 1979 [COR085]), thus probably a nomen oblitum.
- Planeticovorticella*** CLAMP & COATS 2000 [CI1702: 3]. TS: *P. finleyi* by monotypy.
- Planicola*** FROMENTEL 1876 [E00689: 248]; established as subgenus of *Cothurnia*. No type species fixed. Synonym of *Cothurnia* (e.g. BÜTSCHLI 1889 [LB0896: 1769]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Planicoleps*** DRAGESCO & DRAGESCO-KERNÉIS 1991 [CI1187: 217]. TS: *P. psammophilus* by original designation (& monotypy).
- Planifolliculina*** HADŽI 1951 [E00001: 208]. TS: *P. cumbens* by monotypy.
- Planiplotes*** ANDRUSSOWA 1886 [E00664: 250]. TS: *P. wagneri* by monotypy. The generic name and its misspelling "Planiplota", which is unavailable according to Article 33.3 of the Code, are listed as nomina oblita by CORLISS (1979 [COR085: 208]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 62]). Synonym of *Diophrys* (e.g. KAHL 1932 [KAH014: 625]; CORLISS 1961 [COR113: 169]; JANKOWSKI 1979 [CI1188: 62]). Objective synonym: *Pamplota*.
- "*Planitrichidium*". TS: "*P. natans*" by monotypy. Not made available by JANKOWSKI (1979 [CI1188: 76]), because no description was given, thus a nomen nudum (Art. 13.1; Code).
- Platophrya*** GÖNNERT 1935 [Z06235: 121]. TS: *Trichophrya rotunda* HENTSCHEL 1916 (misdated as "1915") by monotypy. Objective synonym of *Heliophrya* SAEDELEER & TELLIER 1930 due to same type species (Art. 61.3.3; Code).
- Platycola*** KENT 1882 [E00074: 731]. TS: *Vaginicola decumbens* EHRENBERG 1830 by original designation. Feminine gender according to Article 30.1.4.2 of the Code. Misdated with "1881" for instance in KAHL (1935 [KAH019: 790]), BHATIA (1936 [CI1030: 92]), and LOM & PUYTORAC (1994 [Z06202: 723]). Revision and key to species: WARREN (1982 [CI1346: 97]).
- Platyfolliculina*** HADŽI 1938 [CI1546: 35]. TS: *P. sahrhageana* by monotypy.

- Platynema* KAHL 1931 [KAH012: 345]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *P. RITSEMA* 1885, coleopteran insect. Objective synonym of *Platynematum* FOISSNER, BERGER & KOHMANN 1994.
- Platynematum* FOISSNER, BERGER & KOHMANN 1994 [FOI300: 256], including redescription of type species. TS: *Uronema sociale* PENARD 1922 by original designation. Substitute name of the preoccupied *Platynema* KAHL 1931. Name not made available neither by KAHL (1931 [KAH012: 345]) nor KAHL (1935 [KAH019: 833]) since no type species was designated (Art. 13.3; Code). Validated by FOISSNER, BERGER & KOHMANN, who selected the type species. Synonym: *Colpodopsis*. Key to marine species: CAREY (1992 [LB0008: 139]). Improved diagnosis: FOISSNER (1997 [FOI335: 222]).
- Platyophrya* KAHL 1926 [KAH001: 234]. TS: *P. vorax* by subsequent designation by KAHL (1930 [KAH008: 65]). Misspelled "Platyophrya" in SMALL & LYNN (1985 [Z06206: 568]). Synonym: *Buitkampia*. Improved diagnosis: FOISSNER (1978 [FOI041: 226]). Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 419]). Revision and key to species: FOISSNER (1993 [FOI282: 560]).
- Platyophryides* FOISSNER 1987 [FOI176: 240]. TS: *Platyophrya lata* KAHL 1930 by original designation. Revision, nomenclature, and key to species: FOISSNER (1993 [FOI282: 598]), who changed (not explicitly mentioned) the gender ending according to Article 30b of the Code (I.C.Z.N. 1985 [EV0513]), viz. *Platyophryides latus*.
- Platytrichotus* STOKES 1886 [E00702: 29]. TS: *P. opisthobolus* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 62]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Synonym of *Uroleptus* (e.g. KAHL 1932 [KAH014: 550]; JANKOWSKI 1979 [CI1188: 62]).
- Pleochona* JANKOWSKI 1973 [CI1504: 22]. TS: *P. coronata* by original designation (& monotypy).
- "Plesiotricha" DRAGESCO 1970 [CI1464: 98]. TS: *Uroleptopsis multiseta* DRAGESCO 1970 by monotypy, now considered as synonym of *Kahliella microstoma* DRAGESCO & DRAGESCO-KERNÉIS 1986 (cp. FOISSNER 1987 [FOI173: 230]). However, the genus is not available, because it was only conditionally proposed for the type species after 1960 (Arts. 15.1, 16; Code). Synonym of *Kahliella* by placement of the type species.
- Plesiotrichopus* FAURÉ-FREMIET 1965 [E00203: 355]. TS: *P. natans* by monotypy. First mentioned in an abstract by FAURÉ-FREMIET (1964 [CI1544: 47]), thus in an unpublished work (Art. 9.9; Code). Characterized one year later (see above).
- Pleurochilidium* STEIN 1860 [E00098: 57]. TS: *P. strigilatum* by monotypy.
- Pleurocoptes* WALLENGREN 1896 [CI1526: 59]. TS: *P. hydractiniae* by monotypy. First mentioned by WALLENGREN (1896 [E00635: 553]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). Fully characterized in the same year (see above).
- Pleurofragma* JANKOWSKI 1976 [CI1412: 168]. TS: *Prorodon mimeticus* KAHL 1930 by original designation (& monotypy). In my opinion contained in an unpublished work (Art. 9.9; Code), however, validated by FOISSNER (1987 [FOI173: 221]). Objective synonyms: *Mimeticus* and *Oldesloeria* due to same type species (Art. 61.3.3; Code).
- Pleuronema* DUJARDIN 1841 [CI1202: 473]). TS: *P. chrysalis* by subsequent designation by FROMENTEL (1875 [E00689: 186]); now considered as synonym of *P. crassum* DUJARDIN 1841 (e.g. KAHL 1931 [KAH012: 290]; FOISSNER et al. 1994 [FOI300: 285]). Neuter gender according to Article 30.1.2 of the Code. First mentioned by DUJARDIN (1840 [E00054: 286]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). In 1841 he included two species (*P. crassa* and *P. marina*). Spelled par lapsus "Pleuronemaum" in KAHL (1931 [KAH012: 388; corrected on p. 835]). Misdated with "1836" in SMALL & LYNN (1985 [Z06206: 423]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Synonym: *Glossa*. Key to

- marine species: CAREY (1992 [LB0008: 143]). Monograph of *P. crassum*: FOISSNER et al. (1994 [FOI300: 285]), indicating that redescription necessary.
- Pleurophryodendron*** JANKOWSKI 1978 [CI1415: 495]. TS: *Ophryodendron reversum* COLLIN by original designation (& monotypy); incomplete reference to basionym.
- Pleuroplites*** FOISSNER 1988 [FOI194: 88]. TS: *P. australis* by original designation (& monotypy).
- Pleuroplitoides*** FOISSNER 1996 [FOI369: 103]. TS: *P. smithi* by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- Pleurotricha*** STEIN 1859 [CI1394: 4]. TS: *Stylonychia lanceolata* EHRENBERG 1835 by original designation. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 62]), who erroneously assumed *P. grandis* as type species (Art. 69.1; Code) and established two subgenera, not used today. Synonym: *Allotricha*. Redescriptions of type species: FOISSNER et al. (1991 [FOI243: 275]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 149]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 698]), who mentioned the incorrect subsequent spellings "Pleurosticha" and "Pleurtricha".
- Plicophrya*** JANKOWSKI 1975 [E00250: 27]. TS: *Donsia sulcata* JANKOWSKI 1967 by original designation (& monotypy). Substitute name for *Donsia*. Synonym of *Acineta* (e.g. CURDS 1985 [E00982: 106]).
- Ploesconia*** BORY 1824 [Z05029: 540 and Z06523: 629]. No type species fixed. Described twice as new genus by BORY (1824, 1825 [E02240: 533]). Misspelled "Plaesconia" in OKEN (1827 [PR1182: 882]) and as "Plesconia" in FROMENTEL (1876 [E00689: 359]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 62]; dated with "1827"), who mentioned the misspelling "Pleosenia". Synonym of *Himantophorus* (e.g. EHRENBERG 1838 [EHR010: 376]) and subsequently *Euplotes* (e.g. EHRENBERG 1838 [EHR010: 381]; KAHL 1932 [KAH014: 62]; CORLISS 1979 [COR085: 312]; JANKOWSKI 1979 [CI1188: 63]).
- Podocyathus*** KENT 1882 [E00074: 827]. TS: *P. diadema* by monotypy. Synonym: *Discocyathus*.
- Podophrya*** EHRENBERG [1834] [EHR003: 306]; note different pagination of the separate [EHR081: 162]. TS: *Trichoda fixa* MÜLLER 1786 by monotypy. APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Misdated with "1838" in FOISSNER & FOISSNER (1988 [FOI196: 40]), SMALL & LYNN (1985 [Z06206: 421]), and MATTHES (1988 [LB0005: 155]). Synonyms: *Kystopus*, *Orcula*, *Parasphaerophrya*. Revision and synonymy of *Sphaerophrya*: CURDS (1986 [E02041: 59]).
- Poljanskina*** RAABE 1963 [CI1403: 132]. TS: *Trichodina oviducti* POLJANSKY 1951 by original designation (& monotypy). Synonym of *Trichodina* (e.g. CORLISS 1979 [COR085: 277]; BASSON & VAN AS 1989 [CI1118: 158]).
- Polycoccon*** SAUERBREY 1928 [Z06228: 399]. TS: *P. octangulus* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]). Synonym of *Discocephalus* (e.g. KAHL 1932 [KAH014: 641]; CORLISS 1979 [COR085: 312]; JANKOWSKI 1979 [CI1188: 63]).
- Polycycla*** POLJANSKY 1951 [E00306: 364]. TS: *P. discophora* by monotypy.
- Polydiniella*** CORLISS 1960 [COR036: 275]. TS: *P. mysorea* (basionym *Polydinium mysoreum* KOFOID 1935) by original designation (& monotypy). Substitute name of the preoccupied *Polydinium*.
- Polydinium*** KOFOID 1935 [BM1067: 503]. Homonym of *P.* KOFOID & SWEZY 1921, dinoflagellate. Objective synonym of *Polydiniella* CORLISS 1960.

- Polydiophrys*** JANKOWSKI 1979 [CI1188: 52]. TS: *Diophrys tetramacronucleata* KATTAR 1970 by original designation (& monotypy). Established as subgenus of *Diophrys*.
- Polymorpha*** DOGIEL 1929 [BM0282: 322]. Homonym of *P.* SOLDANI 1791, foraminiferan, and *P.* BURGEFF 1826, lepidopteran insect. Objective synonym of *Polymorphella* CORLISS 1960.
- Polymorphella*** CORLISS 1960 [COR036: 275]. TS: *Polymorpha ampulla* DOGIEL 1929 by original designation (& monotypy). Substitute name of the preoccupied *Polymorpha*.
- Polyplastron*** DOGIEL 1927 [BM0278: 130]. TS: *Diplodinium multivesiculatum* DOGIEL & FEDOROWA 1925 by monotypy. Established as a subgenus of *Diplodinium*. Revision and improved diagnosis: KOFOID & MACLENNAN (1932 [CI1238: 116]).
- Polyspira*** MINKIEWICZ 1912 [E00595: 514]. TS: *P. delagei* by monotypy.
- Pompholyxia*** FABRE-DOMERGUE 1886 [E01062: 359]. TS: *P. sipunculi* by monotypy.
- Ponturostyla*** JANKOWSKI 1989 [E00414: 86]. TS: *Paraurostyla enigmatica* DRAGESCO & DRAGESCO-KERNÉIS 1986 by monotypy. Substitute name of the preoccupied *Mixotricha*.
- Porella*** CLEVE 1899 [E01009: 973]. Homonym of *P.* GRAY 1848, bryozoan. Objective synonym of *Poroeacus* CLEVE 1902. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]; misdated with "1900").
- Poroeacus*** CLEVE 1902 [E01010: 15]. TS: *P. apiculatus* (basionym *Porella apiculata* CLEVE 1899) by monotypy. Substitute name of the preoccupied *Porella*. Misspelled "Poraecus" in HADA (1935 [E01201: 249]) and "Porecus" in CAMPBELL in CAMPBELL & MOORE (1954 [E01177: D176]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 116]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Porpostoma*** MÖBIUS 1888 [PR1117: 90]. TS: *P. notatum* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Misspelling "Porpostomum" listed as synonym in CORLISS (1979 [COR085: 262]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym of *Helicostoma* (e.g. KAHL 1931 [KAH012: 366]).
- Poteriapium*** BANINA in BANINA et al. 1984 [AEB550: 306]. TS: *Glossatella poteriforme* TIMOFEEV 1962 by original designation. Established as subgenus of *Apiosoma*.
- Potomacus*** THOMPSON 1966 [CI1523: 459]. TS: *P. pottsi* by monotypy. Redescription of type species: RAMSEY et al. (1980 [E02019: 44]; misdated as "1967" in the title).
- Pottsia*** CHATTON & LWOFF 1927 [CI1396: 1]. Homonym of *P.* RYDER 1885, coelenterate. Objective synonym of *Pottsiocles* CORLISS 1960.
- Pottsiocles*** CORLISS 1960 [COR036: 276]. TS: *Pottsia infusoriorum* CHATTON & LWOFF 1927 by original designation (& monotypy). Substitute name of the preoccupied *Pottsia*. Misspelled "Pottsiodes" in EDWARDS & VEVERS (1975 [LB0757: 270]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). JANKOWSKI (1981 [CI1416: 97]) incorrectly cited *P. parasitica* as type species.
- Praecalpionellites*** POP 1986 [E00658: 104]. TS: *Calpionellites murgeanui* POP 1974 by original designation. Improved diagnosis: GRÜN & BLAU (1996 [CI1608: 575]).
- Praecalpionellopsis*** BORZA 1971 [CI1421: 131]. TS: *P. gemeriensis* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code.
- Praecolomiella*** BORZA 1979 [E00522: 354]. TS: *P. trejoi* by original designation.
- Praethecacineta*** MATTHES 1956 [CI1606: 521]. TS: *Acineta inclusa* MEUNIER by original designation; incomplete reference to basionym.
- Praetintinnopsella*** BORZA 1969 [PR1165: 80]. TS: *P. andrusovi* by original designation.



- Predurostyla*** JANKOWSKI 1978 [CI1413: 39]. TS: *Condylostoma arenarium* SPIEGEL 1926 by original designation. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the latinized Greek "stulos" (pillar) is feminine, viz. *Predurostyla arenaria* nom. corr.
- Preptychostomum*** PUYTORAC 1969 [E00086: 256]. TS: *P. almae* by original designation. First mentioned in an abstract by PUYTORAC (1968 [E01324: 42]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Fully characterized one year later (see above). Revisions: RAABE (1972 [Z06221: 131], misdated "1968"); NGASSAM et al. (1993 [E02089: 127]).
- Prisofolliculina*** DEFLANDRE & DEUNFF 1957 [E00171: 3090]. TS: *P. pulchra* by original designation. Misspelled "Prisofolliculina" in EDWARDS & VEVERS (1975 [LB0757: 272]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 300]).
- Proamphorella*** KOFOID & CAMPBELL 1939 [E00262: 313]. TS: *P. quinquealata* (basionym *Tintinnus quinquealatus* LAACKMANN 1907) by original designation (& monotypy). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Proboscella*** KENT 1881 [E00073: 549]. TS: *P. vermina* (basionym *Vibrio verminus* MÜLLER 1786) by monotypy. Synonym of *Lembus* (e.g. BÜTSCHLI 1889 [LB0896: 1714]; KAHL 1931 [KAH012: 369]) and subsequently *Cohnilembus*. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Proboscidium*** MEUNIER 1910 [E00131: 168]. TS: *P. armatum* by monotypy. Misdated with "1907" in KAHL (1930 [KAH008: 179]). Considered as probably malformed specimen by KAHL (1933 [KAH015: 84]), thus very likely a nomen dubium.
- Proboveria*** CHATTON & LWOFF 1936 [CI1510: 84]. TS: *P. loripedis* by monotypy. Established as subgenus, but genus not specified. Revision: RAABE (1970 [Z06217: 154]).
- Proclausilocola*** LOM 1959 [CI1283: 144]. TS: *P. complanata* by monotypy. Feminine gender according to Article 30.1.4.2 of the Code.
- Proclimacocyliis*** KOFOID & CAMPBELL 1939 [E00262: 96]. TS: *Climacocyliis siphon* BRANDT 1906 by original designation (& monotypy). Established as subgenus of *Climacocyliis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Procondylostoma*** JANKOWSKI 1979 [CI1188: 72]. TS: *Condylostoma ancestralis* VILLENEUVE-BRACHON 1940 by original designation. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *Procondylostoma ancestrale* nom. corr.
- Prodiscocephalus*** JANKOWSKI 1979 [CI1188: 63]. TS: *Discocephalus minimus* DRAGESCO 1968 by original designation (& monotypy); par lapsus spelled "Discocephalis". Masculine gender according to Article 30.1.3 of the Code.
- Prodiscophrya*** KORMOS 1935 [E00589: 523]. TS: *Podophrya collini* ROOT 1914 by monotypy. Considered as congeneric with *Discophrya* by MATTHES (1988 [LB0005: 91]), but considered as valid, including redescription of type species, by AESCHT & FOISSNER (1992 [FOI248: 238]; see also FOISSNER et al. 1995 [FOI340: 459]).
- Prolicnophora*** JANKOWSKI 1978 [CI1413: 39]. TS: *Licnophora setifera* MASKELL 1886 by original designation.
- Proluxophrya*** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta vorticelloides* FRAIPONT 1878 by original designation (& monotypy); incomplete reference to basionym.
- Pronyctotherus*** ALBARET & NJINÉ 1976 [E00160: 305]. TS: *P. dragescoi* by original designation. Dated with "1975" in TUFFRAU & PUYTORAC (1994 [Z06320: 69]).

- Proophryodendron* COLLIN 1912 [E01049: 389]. COLLIN and later KAHL (1934 [KAH018: 220]) mentioned two sections or groups, respectively of *Ophryodendron*, namely "*Pro-Ophryodendron* and *Eu-Ophryodendron*", which would have to be automatically corrected to *Proophryodendron* and *Euophryodendron*. These names are not recorded in nomenclators and have not been used by later authors (e.g. CORLISS 1979 [COR085]). However, names proposed for collective groups are to be treated as genus-group names (Arts. 10.3, 42.2.1; Code), but need not be accompanied by a type fixation (Arts. 13.3.2, 43.2.1, 66; Code).
- Prooxytricha* POCHE 1913 [PR1084: 261]. TS: *Trichogaster pilosus* STERKI 1878 by original designation. Superfluous substitute name of the preoccupied *Trichogaster*, because it is a nomen dubium (cp. KAHL 1932 [KAH014: 538]). Falls as probable synonym of *Urostyla*, if the organism involved is recognizable at all (cp. CORLISS 1960 [COR036: 270]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]).
- Proplectella* KOFOID & CAMPBELL 1929 [CI1434: 272]. TS: *Tintinnus claparedei* ENTZ 1885 by original designation; incorrectly spelled "*P. claparèdei*". Misspelled "*Proplectella*" in HADA (1938 [E00232: 186]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); the latter is listed as synonym in CORLISS (1979 [COR085: 307]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Proptychostomum* NGASSAM & GRAIN 1997 [CI1616: 46]. TS: *P. commune* by original designation.
- Propygocirrus* MANSFELD 1923 [E00286: 122]. TS: *P. adhaerens* by monotypy. Considered as synonym of *Protocruzia* by KAHL (1932 [KAH014: 449]) and CORLISS (1961 [COR113: 159]). Resurrected by CORLISS (1979 [COR085: 295]).
- Propygidium* CORLISS 1979 [COR085: 274]. TS: *Pyxidium cothurnoides* KENT 1881 by original designation. Substitute name of the preoccupied *Pyxidiella* CORLISS 1960.
- Prorodon* EHRENBERG [1834] [EHR003: 308]; note different pagination of the separate [EHR081: 164]. TS: *P. niveus* by subsequent designation by FROMENTEL (1875 [E00689: 167]). The later statement of *P. teres* as "typical species" in KAHL (1930 [KAH008: 73]) is invalid (Arts. 67.5.3, 69.1; Code). Synonyms: *Gymnopharynx*, *Habrodon*. Objective synonym: *Pseudoprorodon*. Keys to marine species: CAREY (1992 [LB0008: 37]); DAS et al. (1995 [E02129: 29]). Improved diagnoses: FOISSNER (1983 [FOI090: 53]); HILLER & BARDELE (1988 [CI2287: 234]); FOISSNER et al. (1994 [FOI300: 317]); ESTEBAN & FINLEY (1996 [Z00730: 186]).
- Prorodonopsis* GASSOVSKY 1919 [E00880: 30]. TS: *P. coli* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misdated with "1918" in GRAIN (1994 [Z06319: 281]).
- Prosiacuophora* PUYTORAC & OKTEM 1967 [E00035: 239]. TS: *P. basoglui* by original designation (& monotypy). Diagnosis: EARL (1972 [Z06222: 256]). Morphometry: AFFA'A et al. (1995 [CI4166: 127]).
- Prosopsenus* ANDRÉ 1916 [E01015: 632]. TS: *P. sinuatus* by monotypy. Misdated with "1915" in KAHL (1932 [KAH014: 650]). Considered as nomen dubium by KAHL (1932 [KAH014: 650]); perhaps a regenerating *Stylonychia*) and BORROR (1972 [CI1191: 19]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]) as synonym of *Stylonychia*. Nomen oblitum in CORLISS (1979 [COR085: 208]). No longer classified in the Oxytrichidae and type species considered as nomen dubium by BERGER (1999 [LB1083: 893]).
- Prostelidiella* KOFOID & CAMPBELL 1939 [E00262: 353]. TS: *Stelidiella phialia* KOFOID & CAMPBELL 1929 by original designation (& monotypy). Misdated with "1929" in LAVAL-PEUTO (1994 [Z06313: 214]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]). Misspelling "*Prostellidiella*" listed as synonym in

- CORLISS (1979 [COR085: 307]), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Protanoplophrya** MIYASHITA 1929 [BM1069: 289]. TS: *P. stomata* by monotypy. Misspelled "Protoanoplophrya" in NEAVE (1940 [LB0753: 937]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 268]). Revision: RAABE (1972 [Z06221: 180]).
- Protobalantidium** ABÉ 1927 [E00411: 89]. TS: *Balantidium knowlesii* GHOSH 1925 by monotypy. Placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 35], name number 1975) (cp. MELVILLE & SMITH 1987 [EV0797: 156]). Objective synonym: *Leptoglena*. Synonym of *Tetrahymena* (e.g. CORLISS 1979 [COR085: 257]).
- Protocaviella** KOPPERI 1937 [Z06410: 30]. TS: *Paraisotricha acuminata* CUNHA 1915 by monotypy. Objective synonym: *Eriocharon*.
- Protocochliella** JÖRGENSEN 1924 [E00252: 72]. TS: *Amphorella ampla* JÖRGENSEN 1900 by monotypy. Established as subgenus of *Coxliella*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Protocruzia** FARIA, CUNHA & PINTO 1922 [PR1085: 196]. TS: *Colpoda pigerrima* COHN 1866 by monotypy. Misspelled "Protocruzia" in KAHL (1932 [KAH014: 448]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 265]). Incorrectly ascribed to "GOMES FARIA, CUNHA & PINTO" in NEAVE (1940 [LB0753: 939]) or "CUNHA 1915" in SONG & WILBERT (1997 [Z06246: 415]; without reference). Key to marine species: CAREY (1992 [LB0008: 142]).
- Protocyclidium** ALEKPEROV 1993 [CI1459: 24]. TS: *P. terrenum* by original designation (& monotypy).
- Protocymatocylis** KOFOID & CAMPBELL 1929 [CI1434: 119]. TS: *P. subrotundata* (basionym *Cymatocylis vanhoeffeni* forma *subrotundata* LAACKMANN 1910, partim) by original designation; also formally elevated in rank. Feminine gender according to Article 30.2.3 of the Code. Misspelled "Protocymatocylis" in HALL (1953 [E01203: 392]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).
- Protohallia** CUNHA & MUNIZ 1927 [E00361: 826]. TS: *Rhipidostoma uncinatum* CUNHA & MUNIZ 1925 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Latin suffix "-ia" is feminine, viz. *Protohallia uncinata* nom. corr. Substitute name of the preoccupied *Hallia*, already established for the preoccupied *Rhipidostoma*. Redescription of type species: ITO & IMAI 2000 [Z04569: 79]).
- Protoisotricha** KOPPERI 1937 [Z06410: 28]. TS: *P. agricolaeagrestis* (basionym *P. agricolae agrestis*) by monotypy. Since the two component words denote a single entity, they are united without a hyphen (Arts. 11.9.5, 32.5.2.2; Code).
- Protolutzia** CUNHA & MUNIZ 1925 [CI1385: 738]. TS: *P. hydrochoeri* by original designation (& monotypy).
- Protophrya** KOFOID 1903 [E00578: 111]. TS: *P. ovicola* by monotypy. Revision: RAABE (1970 [Z06217: 146]). Synonym: *Isselina*.
- Protophryoglena** MUGARD 1949 [CI1292: 186]. TS: *Ophryoglena macrostoma* KAHL 1936 by monotypy. Synonym of *Ophryoglena* (e.g. CORLISS 1979 [COR085: 259]; with question mark).
- Protophryopsis** RAABE 1959 [BM1074: 237]. TS: *Ancistrum dautzenbergi* CHATTON & LWOFF 1926 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Revision: RAABE (1970 [Z06217: 149]).

- Protoptychostomum*** RAABE 1949 [E00311: 35]. TS: *Anoplophrya simplex* ANDRÉ 1915 by original designation (& monotypy). Revision: RAABE (1972 [Z06221: 128]).
- Protoradiophrya*** ROSSOLIMO & PERZEWA 1929 [BM0914: 247]. TS: *P. armata* by monotypy. Synonym of *Hopliophrya* (e.g. CORLISS 1979 [COR085: 270]).
- Protoradiophryopsis*** GEORGÉVITCH 1950 [E00562: 67]. TS: *P. ochridensis* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Protorhabdonella*** JÖRGENSEN 1924 [E00252: 57]. TS: *Cyttarocyliis simplex* CLEVE 1900 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 206]). Misspelled "Proterhabdonella" in NIE & CHENG (1947 [CI1389: 70]), "Protorrhabdonella" in CAMPBELL in CAMPBELL & MOORE (1954 [E01177: D176]) and "Protohabdonella" in CORLISS (1977 [COR189: 136]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Nominotypical subgenus (Art. 44; Code): KOFOID & CAMPBELL (1939 [E00262: 155]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 206]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Key to marine species: YOO & KIM (1990 [E02095: 102]).
- Protospathidium*** FOISSNER 1984 [FOI110: 66]. TS: "Protospathidium" *musciicola* DRAGESCO & DRAGESCO-KERNÉIS 1979 by original designation. DRAGESCO & DRAGESCO-KERNÉIS (1979 [CI1048: 411]) established the genus without designating as type, thus it is a nomen nudum (Art. 13.3; Code). Although FOISSNER in validating the genus did not change the authorship, he is the nomenclaturally correct author.
- Protospira*** RAABE 1968 [CI1402: 171]. Homonym of *P. RUEDEMANN* 1916, mollusc. Revision: RAABE (1970 [Z06217: 165]). Objective synonym of *Protospirella* nom. nov.
- Protospirella*** nomen novum for the preoccupied *Protospira*. TS: *P. mazurica* RAABE 1968 by original designation (& monotypy). Derivation: Composition of *Protospira* and the Latin diminutive suffix "-ella". Gender: feminine.
- Prototapirella*** CUNHA 1918 [CI1536: 5]. TS: *P. intestinalis* by original designation (& monotypy). Again established one year later (cp. [CI9012: 5]). Misspelling "Protoapirella" listed as synonym in CORLISS (1979 [COR085: 222]; dated with "1919"), but in fact an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Prototrachelocerca*** FOISSNER 1996 [FOI370: 337], including redescription of type species. TS: *Trachelocerca fasciolata* SAUERBREY 1928 by original designation.
- Prototravassosia*** ARTIGAS & UNTI 1938 [E00513: 48]. TS: *P. costai* by monotypy.
- Protoxystonellopsis*** KOFOID & CAMPBELL 1939 [E00262: 210]. TS: *P. brandti* (basonym *Undella tenuirostris* var. *brandti* LAACKMANN 1909) by original designation. Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Xystonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- "Protrichophora". Not made available by DELPHY (1939 [E00174: 54]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Synonym of *Trachelocerca* (e.g. FOISSNER & DRAGESCO 1996 [FOI371: 45]).
- Proxystonella*** KOFOID & CAMPBELL 1939 [E00262: 203]. TS: *Cyttarocyliis lanceolata* BRANDT 1906 by original designation. Established as subgenus of *Xystonella*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Proxystonellopsis*** KOFOID & CAMPBELL 1939 [E00262: 211]. TS: *Xystonellopsis cyclas* KOFOID & CAMPBELL 1929 by original designation. Feminine gender according to Article 30.1.2 of the Code. Established as subgenus of *Xystonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 188]).

- Psammocephalus*** WICKLOW 1982 [CI1082: 317]. TS: *P. borrori* by original designation. Masculine gender according to Article 30.1.3 of the Code. Key to marine species: CAREY (1992 [LB0008: 210]).
- Psammomitra*** BORROR 1972 [CI1191: 15]. TS: *Mitra radiosa* QUENNERSTEDT 1867 by monotypy, now considered as synonym of *Uroleptus retractilis* (e.g. SONG & WARREN 1996 [CI1576: 228], including redescription). KAHL (1932 [KAH014: 570]) already synonymized the type species with *Mitra retractilis* (CLAPARÈDE & LACHMANN 1858). Substitute name of the preoccupied *Micromitra*, already established for the preoccupied *Mitra*; both names are objective synonyms. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]). No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 893]). Potentially valid, but needs clarification.
- "**Psammophrya**". TS: *Pseudoprorodon arenicola* KAHL 1933 by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Pseudarcella*** SPANDEL 1909 [PR1093: 199]. TS: *P. rhumbleri* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Revisions and redescriptions of type species: BELOKRYIS (1993 [E02131: 20], translated in [E01969: 20], 1997 [E02132: 18]).
- Pseudoamphileptus*** FOISSNER 1983 [FOI091: 399], including redescription of type species. TS: *Hemiphrys macrostoma* CHEN 1955 by original designation.
- Pseudoamphisiella*** SONG 1996 [E01439: 18]. TS: *Holosticha lacazei* MAUPAS 1883 by original designation. Improved diagnosis: SONG et al. (1997 [CI1582: 266]).
- Pseudobakuella*** ALEKPEROV 1992 [CI1491: 8]. TS: *Bakuella salinarum* MIHAILOWITSCH & WILBERT 1990 by original designation (& monotypy).
- Pseudobalanion*** FOISSNER, OLEKSIV & MÜLLER 1990 [FOI230: 192]. TS: *P. planctonicum* by original designation (& monotypy). Synonym of *Balanion* (e.g. FOISSNER et al. 1994 [FOI300: 369], 1999 [FOI450: 363]).
- Pseudoblepharisma*** KAHL 1927 [KAH002: 197]. TS: *Blepharisma tenuis* KAHL 1926 by monotypy.
- Pseudobuetschliella*** JÍROVEC 1933 [BM1457: 150]. TS: *Buetschliella bovis* JÍROVEC 1933 by monotypy. The incorrect original spelling "Pseudobütschliella" must be corrected according to Articles 27 and 32.5.2 of the Code.
- "**Pseudocarchesium**". SOMMER (1951 [CI1198: 362]) introduced the genus with three species (basionyms: *Carchesium gammari* PRECHT 1935, *Carchesium steini* PRECHT 1935, *Carchesium inconjunctum* KORSFMEIER 1948), but none designating as type, thus it is a nomen nudum (Art. 13.3; Code). JANKOWSKI (1993 [CI1530: 222]) subsequently selected "Pseudocarchesium" *aselli* (ENGELMANN 1862) as type species, which is however incorrect because this species was not originally included (Arts. 67.2, 69.1; Code). Misdated with "1950" in LOM & PUYTORAC (1994 [Z06202: 717]).
- Pseudochilodonopsis*** FOISSNER 1979 [FOI047: 125]. TS: *Chilodon piscatoris* BLOCHMANN 1895 by original designation. Feminine gender according to Article 30.1.2 of the Code. Mentioned as "FOISSNER (unpublished)" in CORLISS (1979 [COR085: 228]) without description, thus a nomen nudum. Synonym: *Alinostoma*. Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 73]).
- Pseudochlamydonella*** BUITKAMP, SONG & WILBERT 1989 [E00007: 70]. TS: *P. rheophila* by original designation (& monotypy). Redescription of type species: FOISSNER (1997 [FOI335: 233]).
- Pseudocinetochilum*** OBOLKINA 1995 [E02264: 234]. TS: *P. pulchellum* by original designation (& monotypy).

- Pseudocohnilembus* EVANS & THOMPSON 1964 [E00195: 344]. TS: *P. persalinus* by original designation, now considered as synonym of *P. pusillus* (basionym *Lembus pusillus* QUENNERSTEDT 1869). Revision and synonymy of type species: FOISSNER & WILBERT (1981 [FOI079: 291, 295]). Key to marine species: CAREY (1992 [LB0008: 140]). Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 271]).
- Pseudocolpoda* ILOWAISKY 1921 [E00069: 99]. TS: *P. cochlearis* by monotypy. Synonym of *Colpoda* (e.g. FOISSNER 1990 [FOI225: 115], 1993 [FOI282: 84]).
- Pseudocorynophrya* SMALL & LYNN 1985 [Z06206: 503]. TS: *P. multitentaculata* by monotypy.
- Pseudocristigera* HORVAT 1956 [Z06238: 271]. TS: *P. hymenofera* by monotypy. Synonym of *Drepanomonas* (e.g. CORLISS 1979 [COR085: 227]).
- Pseudocyclidium* SMALL & LYNN 1985 [Z06206: 541]. TS: *P. marylandi* by monotypy.
- Pseudocyrtolophosis* FOISSNER 1980 [FOI066: 407]. TS: *P. alpestris* by original designation. Revision and key to species: FOISSNER (1993 [FOI282: 552]).
- "Pseudodileptus". Only listed in GONG (1986 [E00663: 344]), i.e. not designated as new genus; possibly par lapsus for *Dileptus tracheloides* ZACHARIAS 1893. Without description or definition, thus a nomen nudum (Art. 13.1; Code). Moreover, not recorded in the Zoological Record (CD-version).
- Pseudoenchelys* TUCOLESCO 1962 [E00374: 92]. TS: *P. armata* by monotypy. Synonym of *Enchelydium* (e.g. FOISSNER 1984 [FOI110: 38]).
- Pseudoentodinium* WOLSKA 1986 [E01417: 143]. TS: *P. elephantis* by original designation (& monotypy).
- Pseudofolliculina* DONS 1914 [E00184: 61]. TS: *P. arctica* by monotypy. Misdated with "1915" in KAHL (1932 [KAH014: 473]).
- Pseudogemma* COLLIN 1909 [E01004: 36]. TS: *P. fraiponti* by monotypy.
- Pseudogemmides* KORMOS 1935 [E00589: 523]. TS: *P. globosa* by monotypy. Feminine gender according to Article 30.1.4.4 of the Code.
- Pseudoglaucoma* WENZEL 1953 [CI1047: 99]. TS: "Pseudoglaucoma" *muscorum* KAHL 1931 by original designation. The genus was founded by KAHL (1931 [KAH012: 335]) with two species, none designated as type, thus it is unavailable according to Article 13.3 of the Code. Later, WENZEL validated the genus correctly on *P. muscorum*. This was overlooked by CORLISS (1979 [COR085: 258]), who again designated *P. muscorum* as type, but still admitted "KAHL 1931" as founder of the genus. Nomenclature, revision, and key to species: FOISSNER (1993 [FOI282: 418]).
- Pseudohaplocaulus* WARREN 1988 [CI1431: 147]. TS: *Haplocaulus nicoleae* PRECHT 1935 by original designation.
- Pseudoholophrya* BERGER, FOISSNER & ADAM 1984 [FOI107: 341]. TS: *P. terricola* by original designation (& monotypy).
- Pseudokahliella* BERGER, FOISSNER & ADAM 1985 [FOI125: 309]. TS: *Kahliella marina* FOISSNER, ADAM & FOISSNER 1982 by original designation (& monotypy).
- Pseudokeronopsis* BORROR & WICKLOW 1983 [CI1193: 123]. TS: *Oxytricha rubra* EHRENBERG 1838 by original designation. Feminine gender according to Article 30.1.2 of the Code. Redescription of type species: WIRNSBERGER et al. (1987 [AEE013: 77]).
- Pseudokreyella* FOISSNER 1985 [FOI133: 242]. TS: *P. terricola* by original designation (& monotypy). Key to species: FOISSNER (1993 [FOI282: 729]).
- Pseudometacylis* BALECH 1968 [E00175: 176]. TS: *P. ornata* by original designation.

- Pseudomicrothorax*** MERMOD 1914 [CI1378: 41]. TS: *P. agilis* by monotypy. Synonyms: *Chilodontopsis*, *Chlamyodontopsis*, *Craspedothorax*. Redescriptions of type species: SHI (1980 [E02133: 72]); see also FOISSNER et al. (1994 [FOI300: 466]).
- Pseudomonilicaryon*** FOISSNER 1997 [FOI335: 196]. TS: *Dileptus gracilis* KAHL 1931 by original designation (& monotypy).
- Pseudonyctotherus*** EARL 1970 [Z00707: 495]. TS: *P. corlissi* by monotypy. Improved diagnosis: EARL (1972 [Z06222: 255]). Synonym of *Nyctotheroides* (e.g. CORLISS 1979 [COR085: 297]).
- Pseudoparafolliculina*** ANDREWS & NELSON 1942 [E01098: 139]. TS: *P. portitor* by monotypy. Not recorded in the Zoological Records of 1942, 1943, 1950, 1951. Objective synonym: *Tapetofolliculina*.
- Pseudoplagiopyla*** SMALL & LYNN 1985 [Z06206: 565]. TS: *P. sinistra* by monotypy.
- Pseudoplatynematum*** BOCK 1952 [CI1007: 112]. TS: *P. loricatum* by original designation. Key to marine species: CAREY (1992 [LB0008: 140]).
- Pseudoplatyophrya*** FOISSNER 1980 [FOI066: 395]. TS: *Platyophrya nana* KAHL 1926 by original designation. Key to species: FOISSNER (1993 [FOI282: 404]).
- Pseudoprorodon*** BLOCHMANN 1895 [E00111: 87]. TS: *Prorodon niveus* EHRENBERG 1833 by monotypy. Misdated with "1886" for instance in KAHL (1930 [KAH008: 67]), SMALL & LYNN (1985 [Z06206: 419]), CAREY (1992 [LB0008: 41]), PUYTORAC (1994 [Z06331: 576]), and SONG & WANG (1999 [Z06464: 66]). Nomenclature: FOISSNER (1987 [FOI173: 221]). Key to marine species: CAREY (1992 [LB0008: 41]). Objective synonym of *Prorodon* EHRENBERG [1834] due to the same type species (Art. 61.3.3; Code; already noted by FOISSNER et al. 1994 [FOI300: 319]).
- "Pseudospathidium". Only listed by MEZ (1898 [E02166: 227]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Moreover not designated as new, thus perhaps a lapsus calami; not recorded by CORLISS (1979 [COR085]).
- Pseudostrombidium*** HORVÁTH 1933 [CI1293: 291]. TS: *P. planctonicum* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]). Considered as synonym of *Urosoma* by CORLISS (1979 [COR085: 311]). Improved diagnosis and discussion of synonymy: BERGER & FOISSNER (1997 [FOI445: 148]); cp. also BERGER (1999 [LB1083: 494]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 685]).
- Pseudothuricola*** KAHL 1935 [KAH019: 786]. TS: *Cothurniopsis dyonisii* PENARD 1914 by monotypy. Masculine gender according to Article 30.1.4.2 of the Code. Revision: TRUEBA (1980 [E01070: 134]). Considered as synonym of *Cothurniopsis* by FOISSNER et al. (1992 [FOI265: 251]), but later treated als valid (e.g. FOISSNER 1998 [FOI421: 208]).
- Pseudotrachelocerca*** SONG 1990 [CI1169: 160]. TS: *Trachelocerca trepida* KAHL 1928 by original designation.
- Pseudouroleptus*** HEMBERGER 1985 [CI1194: 398]. TS: *P. caudatus* by original designation. Misdated with "1981" in TUFFRAU & FLEURY (1994 [Z06341: 137]). Improved diagnoses: EIGNER & FOISSNER (1994 [FOI306: 260]); PETZ & FOISSNER (1996 [FOI395: 277]). Revision: BERGER (1999 [LB1083: 888]).
- Pseudourostyla*** BORROR 1972 [CI1191: 11]. TS: *Urostyla cristata* JERKA-DZIADOSZ 1964 by original designation. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]).
- Pseudovorticella*** FOISSNER & SCHIFFMANN 1975 [FOI022: 496]. TS: *Vorticella monilata* TATEM 1870 (basonym *V. convallaria* var. *monilata*) by original designation. Revision and key to species: WARREN (1987 [CI1319: 1]; dated "1974"). Redescriptions of type species see FOISSNER et al. (1992 [FOI265: 130]).

- Pseuduronema*** HOARE 1927 [CI9058: 185]. No type species fixed. Neuter gender according to Article 30.1.2 of the Code. Although somewhat conditionally proposed, the name is available according to Article 11.5 of the Code. Misspelled "Pseudouronema" in PUYTORAC (1994 [Z06335: 638]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Psilotricha*** STEIN 1859 [CI1394: 5]. TS: *P. acuminata* by original designation (& monotypy). Misspelled "Psylotricha" in GRANDORI & GRANDORI (1934 [BM0391: 281]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]). Synonyms: *Pigostyla*, *Urospinula* (for the preoccupied *Urospina*). According to FOISSNER (1983 [FOI096: 479]) redescription of type species necessary. No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 894]).
- Psilotrix*** GOURRET & ROESER 1888 [E00330: 192]. TS: *P. ovalis* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 63]).
- Pterochona*** JANKOWSKI 1973 [CI1504: 20]. TS: *P. pacifica* by original designation (& monotypy).
- Pterodiniella*** nomen novum for the preoccupied *Pterodinium*. TS: *P. microlithovorax* LATTEUR & DARTEVELLE 1971 by original designation (& monotypy). Derivation: Composition of *Pterodinium* and the Latin diminutive suffix "-ella". Gender: feminine.
- Pterodinium*** LATTEUR & DARTEVELLE 1971 [E00273: 47]. Homonym of *P. EISENACK* 1958, dinoflagellate. Objective synonym of *Pterodiniella* nom. nov.
- Ptychocyelis*** BRANDT 1896 [E01005: 48]. TS: *Tintinnus urnula* CLAPARÈDE & LACHMANN 1858 by subsequent designation by BRANDT (1907 [E00188: 14]). Feminine gender according to Article 30.2.3 of the Code. Misdated with "1906" in CORLISS (1979 [COR085: 306]) and SMALL & LYNN (1985 [Z06206: 418]). Misspelled "Pthocyelis" in STEPANOVA (1937 [E01241: 200]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); "Pthocyelis", "Ptychocyelis" are listed as synonyms by CORLISS (1979 [COR085: 306]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 185]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Redescription of type species: DAVIS (1981 [E02134: 433]).
- Ptychostomum*** STEIN 1860 [E00098: 61]. TS: *P. saenuridis* by monotypy. Single species described, but not named in 1860. The genus appears to be preoccupied by *Ptychostomum* AGASSIZ 1846, an emendation of *Ptygostomum* EHRENBERG 1841, even though the emendation may be considered invalid. But names proposed in literature-recording series or generic indices have no official status and thus AGASSIZ'S name offers no threat to STEIN'S name (cp. CORLISS 1960 [COR036: 269]). Revision: RAABE (1972 [Z06221: 145]). Synonym: *Lada*. Improved diagnosis: NGASSAM & GRAIN (2000 [Z06638: 291]; misdated "1960").
- Ptyssostoma*** HENTSCHEL 1927 [CI1527: 651]. TS: *P. thalassemae* by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code.
- Ptyxidium*** PERTY 1852 [E00084: 148]. TS: *Enchelis ovulum* MÜLLER 1773 by monotypy. Placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 35], name number 1976) (cp. MELVILLE & SMITH 1987 [EV0797: 158]). Synonym of *Glaucoma* (e.g. BÜTSCHLI 1889 [LB0896: 1702]). Nomen oblitum in CLAPARÈDE & LACHMANN (1858 [E00117: 72]) and CORLISS (1979 [COR085: 208]).
- Pusilloburius*** CORLISS 1979 [COR085: 265]. TS: *Pseudoglaucoma labiatus* KAHL 1931 by original designation (& monotypy).



- Puytoracia* RAABE 1972 [Z06221: 168]. Homonym of *P.* BONNET 1970, testate amoebae. Misdated with "1978" in PUYTORAC (1994 [Z06298: 746]). Objective synonym of *Eminothigma* JANKOWSKI in CORLISS 1979.
- Puytoraciella* NJINÉ 1979 [CI1380: 350]. TS: *P. dipryophryis* by monotypy. Misdated with "1978" in SMALL & LYNN (1985 [Z06206: 424]) and DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 234]). According to FOISSNER (1993 [FOI282: 516]), their reference is the unpublished dissertation by NJINÉ (1978 [E02152]), whereby the nomenclatorically valid publication of 1979 was overlooked.
- Pycnothrix* SCHUBOTZ 1909 [E00326: 1]. TS: *P. monocystoides* by monotypy. Misdated with "1908" in CUNHA (1919 [CI1012: 8]); incorrectly ascribed to "SCHUBLATZ") and GRAIN (1994 [Z06201: 324]).
- Pygmothroides* AFFA'A 1980 [CI1644: 101]. TS: *P. njinei* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code.
- Pyxicola* KENT 1882 [E00074: 725]. No type species fixed. Feminine gender according to Article 30.1.4.4 of the Code. Misdated with "1881" in KAHL (1935 [KAH019: 787]), BHATIA (1936 [CI1030: 92]), and LOM & PUYTORAC (1994 [Z06202: 722]). Synonyms: *Caulicola*, *Pachytrocha*. Revision and key to species: TRUEBA (1978 [E01069: 220]), who unfortunately selected no type species.
- Pyxidiella* CORLISS 1960 [COR036: 276]. Substitute name of the preoccupied *Pyxidium*. Homonym of *Pyxidiella* COOKSON & EISENACK 1958, a protistan fossil of unknown affinities. Objective synonym of *Propyxidium* CORLISS 1979.
- Pyxidium* KENT 1881 [E00073: 666]. Misspelled "Pixidium" in KELLICOTT (1888 [CI1016: 101]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1882" in CORLISS (1960 [COR036: 272]). Homonym of *P.* LEUCKART 1856, coelenterate. Objective synonym of *Pyxidiella* CORLISS 1960 and consequently objective synonym of *Propyxidium* CORLISS 1979.

## Q

- Quasillagilis* BUSCH 1920 [E00526: 221]. TS: *Q. constanziensis* by monotypy. KAHL (1930 [KAH008: 61]) mentioned the genus, which was based on fixed material, as incertae sedis near the genus *Urotricha*, but not in the key as valid taxon of the family on page 46. Misdated with "1921" in CAREY (1992 [LB0008: 56]). Probably a nomen dubium.

## R

- Raabella* CHATTON & LWOFF 1950 [CI1386: 433]. TS: *R. helensis* (for *Hypocomides mytili* sensu RAABE 1938) by monotypy. Revision: RAABE (1970 [Z06218: 415]).
- Raabellocineta* PUYTORAC, GROLIÈRE & GRAIN 1979 [E01033: 857]. TS: *R. elongata* by monotypy.
- Raabena* WOLSKA 1967 [Z06213: 286]. TS: *R. bella* by monotypy. Revision: WOLSKA (1971 [Z06216: 36]).
- Racovitzaiella* TUCOLESCO 1962 [E00374: 96]. Homonym of *R.* DOLLO 1904, fish. Homonymy recognized by CORLISS (1979 [COR085: 217]), but not corrected. Objective synonym of *Racovitzaiella* nom. nov.
- Racovitzaiella* nomen novum for the preoccupied *Racovitzaiella*. TS: *R. paradoxa* TUCOLESCO 1962 by original designation (& monotypy). Derivation: Composition of *Racovitzaiella* and the Latin diminutive suffix "-ella". Gender: feminine.

- Radiophrya** ROSSOLIMO 1926 [Z06226: 480]. No type species fixed. Synonym: *Cheissinella*. Revision: PUYTORAC (1972 [CI1224: 19]).
- Radiophryoides** LOM 1956 [Z06239: 281]. TS: *R. komareki* by monotypy. Mandatory change of the incorrect original spelling "R. komáreki" necessary (Art. 27; Code). Masculine gender according to Article 30.1.4.4 of the Code.
- Radiophryopsis** GEORGÉVITCH 1941 [CI1435: 69]. TS: *R. acanthostephanos* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Revision: PUYTORAC (1972 [CI1224: 23]).
- Raphanella** BORY 1824 [Z05029: 525 and Z06524: 665]. No type species fixed. Described twice as new genus by BORY (1824, 1828 [E02247: 466]). Synonym of *Ophrydium* (e.g. EHRENBERG 1838 [EHR010: 293]; BÜTSCHLI 1889 [LB0896: 1768]), *Uroleptus* partim (e.g. EHRENBERG 1838 [EHR010: 359]; DIESING 1866 [CI1511: 99]).
- Ratulus** LAMARCK 1816 [E00124: 24], also spelled "Rattulus", probably par lapsus. Synonym of *Aspidisca* (e.g. EHRENBERG 1838 [EHR010: 344]; BÜTSCHLI 1889 [LB0896: 1754]) and *Uroleptus* (e.g. EHRENBERG 1838 [EHR010: 359]).
- Rectiperistomatus** AMARO & SENA 1967 [E01046: 139]. TS: *R. coralli* by original designation.
- Recurviperistomatus** AMARO & SENA 1967 [E01047: 119]. TS: *R. uianchoi* (for *Nyctotherus ochoterenai* KIDDER 1937) by original designation.
- Reichenowella** KAHL 1932 [KAH014: 435]. TS: *R. nigricans* by monotypy.
- Remanella** FOISSNER 1996 [FOI372: 234]. TS: "Remanella" *multinucleata* KAHL 1933 by original designation. Name not made available by KAHL (1933 [KAH015: 65]) since no type species was designated (Art. 13.3; Code). FOISSNER in revising the genus reinstalled *Remanella* for the species assigned to KAHL'S unavailable taxon and fixed the type species. Key to marine species: CAREY (1992 [LB0008: 92]). Nomenclature and improved diagnosis: FOISSNER (1996 [FOI364: 325]).
- Remanellina** TAPPAN & LOEBLICH 1968 [E00335: 1391]. TS: *R. eocenica* by original designation (& monotypy). First mentioned by LOEBLICH & TAPPAN (1968 [CI1533: 189]) as "in press" in the index of Tintinnida, but without description or definition, thus a nomen nudum (Art. 13.1.1; Code).
- Remaniella** CATALANO 1965 [CI1542: 498]. TS: *Tintinnopsella cadischiana* COLOM 1948 by original designation. Improved diagnosis and synonymy of *Calpionellopsis*: GRÜN & BLAU (1996 [CI1608: 579]).
- Repoma** NOVOTNY 1970 [E00033: 5181]. TS: *R. spiralis* by original designation. Synonym of *Colpoda* (e.g. FOISSNER 1990 [FOI225: 115], 1993 [FOI282: 84]).
- Reticulowoodruffia** FOISSNER 1993 [FOI282: 655]. TS: *R. terricola* by original designation (& monotypy).
- Rhabdoaskenasia** KRAINER & FOISSNER 1990 [FOI231: 414]. TS: *R. minima* by original designation (& monotypy). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 161]).
- Rhabdocaryon** JANKOWSKI 1967 [CI1569: 36]. TS: *Stentor roeseli* EHRENBERG 1835 by original designation (& monotypy). Established as subgenus of *Stentor*. Not mentioned in later revisions (e.g. FOISSNER et al. 1992 [FOI265: 374], FOISSNER & WÖLFL 1994 [FOI304: 275]; ALEKPEROV & ASADULLAYEVA 1997 [CI1653: 1413], including redescription of *S. roeseli*).
- Rhabdodon** ENTZ 1884 [E00056: 338]. TS: *R. falcatus* by monotypy, now considered as synonym of *Orthodonella hamatus* (e.g. KAHL 1931 [KAH012: 228]). Homonym of *Rhabdodon* FLEISCHMANN 1831, reptile. Preoccupied name, which has fallen as synonym of *Orthodon* (cp. KAHL 1931 [KAH012: 228]) and subsequently *Orthodonella* which is

the oldest available synonym (e.g. CORLISS 1960 [COR036: 270]). If the genus is resurrected, a new name is necessary.

**Rhabdonella** BRANDT 1906 [CI1559: 8]. TS: *Tintinnus spiralis* FOL 1881 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 209]). Described twice as new genus by BRANDT (1906 and 1907 [E00188: 46]). Established as subgenus of *Ptychocylis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 209]). Keys to marine species: SOUTO (1981 [E02105: 376]); YOO & KIM (1990 [E02095: 103]; misdated with "1907").

**Rhabdonelloides** COLOM 1939 [CI1480: 817]. TS: *R. inesperatta* by monotypy. Feminine gender according to Article 30.1.4.4 of the Code. Described twice as new genus by COLOM (1939 and 1940 [E00996: 4]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

**Rhabdonellopsis** KOFOID & CAMPBELL 1929 [CI1434: 221]. TS: *R. apophysata* (basionym *Cyrtarocylis hebe* var. *apophysata* CLEVE 1900) by original designation. Feminine gender according to Article 30.1.2 of the Code. Misspelled "Rhabdonellopsi" in BALECH (1962 [PR1124: 234]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

"Rhabdophorellopsis". The species *R. longicaulis* is ascribed to "COLOM 1988" in a faunal list of GILRON et al. (1991 [E02040: 101, 104]). Neither included in COLOM (1988 [E00459]), nor recorded in the Zoological Record (CD-version), thus very probably a nomen nudum (Art. 13.1; Code) or possibly a lapsus calami for *Rhabdonellopsis longicaulis* KOFOID & CAMPBELL 1929.

**Rhabdophrya** CHATTON & COLLIN 1910 [E00532: 138]. TS: *R. trimorpha* by monotypy. Misspelled "Rabdophrya" on the cover of the reprint, probably par lapsus.

**Rhabdosella** KOFOID & CAMPBELL 1929 [CI1434: 347]. TS: *Salpingella (Rhabdosella) octogenata* by original designation. Established as subgenus of *Salpingella*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]), who already stated that on elevation to generic rank. KOFOID & CAMPBELL (1939 [E00262: 399]) erroneously cited type species as *Salpingella cuneolata* KOFOID & CAMPBELL 1929. Synonym: *Epirhabdosella, Opisthostyla*.

**Rhabdostyla** KENT 1881 [E00073: 664]. No type species fixed. Misdated with "1880" in KAHL (1935 [KAH019: 673]) and GUHL (1979 [CI1315: 428]). Synonym: *Opisthostyla*. Key to species: BANINA et al. (1984 [AEB550: 289]; dated "1880").

**Rhabdostylus** DONS 1918 [CI1011: 83] is an unjustified emendation not in prevailing usage (Art. 33.1; Code). Objective synonym of *Rhabdostyla* KENT 1881.

**Rhabdothorax** LATTEUR & BOUSEZ 1970 [E00272: 192]. Homonym of *R. KAMPTNER* 1958, dinoflagellate. Objective synonym of *Rhabdothoracella* nom. nov. Misdated with "1969" in GRAIN (1994 [Z06201: 359]).

**Rhabdothoracella** nomen novum for the preoccupied *Rhabdothorax*. TS: *R. macrostegon* LATTEUR & BOUSEZ 1970 by original designation (& monotypy). Derivation: Composition of *Rhabdothorax* and the Latin diminutive suffix "-ella". Gender: feminine.

**Rhabdotricha** GREEFF 1888 [E00764: 133]. TS: *R. terricola* by monotypy. Considered as nomen dubium by BORROR (1972 [CI1191: 19]). Listed as genus in the index of Hypotrichida by JANKOWSKI (1979 [CI1188: 64]). Synonym of *Oxytricha* (e.g. CORLISS 1979 [COR085: 311]).

**Rhagadostoma** KAHL 1926 [KAH001: 231]. TS: *R. completum* by original designation. Neuter gender according to Article 30.1.2 of the Code. Treated as subgenus (or synonym) of *Holophrya* by KAHL (1930 [KAH008: 82]); his statement of *R. nudicaudatum* as type species is incorrect (Art. 69.1; Code). Misspelled "Rhagadostoma" in CAREY (1992

- [LB0008: 42]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code), listed as synonym by CORLISS (1979 [COR085: 214]).
- "Rhinakis". TS: "R. faurei" by monotypy. Name not made available by FRYD-VERSAVEL, IFTODE & DEROUX (1980 [E00560: 79A]) since the type species is undescribed, thus a nomen nudum (Art. 13.1; Code), and moreover contained in an unpublished work (Art. 9.9; Code).
- Rhinodisculus** MANSFELD 1923 [E00286: 116]. TS: *R. cristatus* by monotypy.
- Rhinozeta** VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1988 [CI1447: 92]. TS: *R. rhinozeta* by original designation and absolute tautonymy (Art. 68.4; Code). Key to species: VAN HOVEN et al. (1998 [Z06372: 119]).
- Rhipidostoma** CUNHA & MUNIZ 1925 [CI1385: 735]. Neuter gender according to Article 30.1.2 of the Code. Homonym of *R. KARSCH* 1878, arachnid. Objective synonym of *Hallia* CUNHA & MUNIZ 1927, which is also preoccupied, and thus replaced by *Protohallia*.
- Rhizobranchium** JANKOWSKI 1981 [CI1416: 93]. TS: *Trichophrya morchellii* TREGOUBOFF 1916 by original designation.
- Rhizocaryum** CAULLERY & MESNIL 1907 [E00204: 250]. TS: *R. concavum* by monotypy.
- Rhizochona** JANKOWSKI 1973 [AEB543: 292]. TS: *R. armata* by original designation (& monotypy).
- Rhizodomus** STRELKOW & WIRKETIS 1950 [CI1390: 389]. TS: *R. tagatzi* by monotypy. Feminine gender according to Article 30.1.1 of the Code. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Rhizotricha** WOLSKA 1964 [Z06211: 222]. TS: *Paraisotricha beckeri* HSIUNG 1930 by monotypy.
- Rhopalophrya** KAHL 1926 [KAH001: 212]. TS: *R. acuta* by original designation. Misspelled "Rophalophrya" in MADONI (1991 [CI7033: 275]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Rhyncheta** ZENKER 1866 [E00476: 345]. TS: *R. cyclopum* by monotypy.
- Rhynchocoma** JANKOWSKI 1975 [E00250: 27]. TS: *Heterocoma hyperparasitica* CHATTON & LWOFF 1939 by original designation. Substitute name of the preoccupied *Heterocoma*.
- Rhynchodinium** CUNHA & PENIDO 1927 [E00015: 1793]. TS: *R. paradocum* by monotypy.
- Rhynchophrya** COLLIN 1909 [E00464: 1094]. TS: *R. palpans* by monotypy.
- Rhynchophrya** RAABE 1935 [BM0889: 1]. TS: *R. cristallina* by monotypy. Junior homonym of *R. COLLIN* 1909, ciliate. Preoccupied name, which has fallen as junior synonym of *Gargarius* (cp. RAABE 1970 [Z06218: 447]; CORLISS 1960 [COR036: 270]). If the genus is resurrected, a new name is necessary.
- Rhyposophrya** KAHL 1933 [KAH015: 77]. TS: *R. aplanata* by monotypy. According to FOISSNER (1993 [FOI282: 646]) poorly described, thus redescription necessary.
- Riboscyphidia** JANKOWSKI 1980 [CI1013: 119]. TS: *Scyphidia scorpaenae* FABRE-DOMERGUE 1888 by original designation (& monotypy).
- Riftus** JANKOWSKI 1981 [CI1416: 86]. TS: *Discophrya pygmaea* SWARCZEWSKY 1928 by original designation. Described twice as new genus by JANKOWSKI (1981 and 1982 [CI1023: 31]). Synonym of *Tokophrya* (e.g. CURDS 1985 [E00541: 182]).
- Rigchostoma** VUXANOVICI 1963 [E00741: 84]. TS: *R. membranatum* (basionym *R. membranata*) by monotypy. Mandatory change of gender ending necessary (Arts. 30.1.2, 31.2, 34.2; Code), because the Greek "stoma" (mouth, opening) is neuter. Established provisionally, but treated as valid by FOISSNER (1993 [FOI282: 419]), who already corrected the species name.

- Rigidocortex** BERGER 1999 [LB1083: 717]. TS: *Australocirrus octonucleatus* FOISSNER 1988 by original designation (& monotypy).
- Rimacineta** JANKOWSKI 1981 [CI1416: 88]. TS: *R. falcata* by original designation (& monotypy).
- Rimaleptus** FOISSNER 1984 [FOI110: 92]. TS: *Dileptus binucleatus* KAHL 1931 by original designation.
- Rimostrombidium** JANKOWSKI 1978 [CI1413: 40]. TS: *Strobilidium velox* FAURÉ-FREMIET 1924 by monotypy. Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 604]); redescription urgently needed.
- Rinella** BORY 1824 [Z05029: 532]. No type species fixed. Described two times as new genus by BORY (1824, also in 1828 [E02447: 554], spelled "Rhinella"). Synonym of *Didinium* partim, *Vorticella* partim (e.g. EHRENBERG 1838 [EHR010: 269, 276, 290]); BÜTSCHLI 1889 [LB0896: 1763]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Rondacineta** JANKOWSKI 1978 [CI1415: 495]. TS: *Tokophrya muscicola* PENARD 1914 by original designation (& monotypy); incomplete reference to basionym. Considered as very doubtful species in its original combination by MATTHES (1988 [LB0005: 206]), thus likely a nomen dubium.
- Rondosomides** JANKOWSKI 1981 [CI1416: 102]. TS: *Dendrosomides lucicutiae* BOWMAN 1977 by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code.
- "Rondostoma" JANKOWSKI 1976 [CI1412: 168]. TS: *Holophrya gargamellae* FAURÉ-FREMIET 1924 by original designation (& monotypy), now considered as synonym of *Bursellopsis nicricans* (e.g. FOISSNER et al. 1999 [FOI450: 383]). Neuter gender according to Article 30.1.2 of the Code. Contained in an unpublished work (Art. 9.9; Code).
- Roquea** JANKOWSKI 1967 [CI1672: 22]. TS: *Tetrahymena vorax* KIDDER, LILLY & CLAFF 1940 by original designation. Established as subgenus of *Tetrahymena*. Synonym of *Tetrahymena* (e.g. CORLISS 1979 [COR085: 258]).
- "Rosea". Nomen nudum of PUYTORAC in CORLISS (1979 [COR085: 235]) and PUYTORAC (1994 [Z06340: 840]), because this name was only listed, but has never been formally published (Arts. 13.1.1, 13.3; Code).
- Rossiella** MAKARIEVA 1979 [E01027: 57]. Homonym of *R.* NUTTALL 1912, protozoan, and *R.* OBENBERGER 1942, coleopteran insect. Objective synonym of *Rossielella* nom. nov.
- Rossielella** nomen novum for the preoccupied *Rossiella*. TS: *R. tintinnubulum* MAKARIEVA 1979 by original designation (& monotypy). The correspondence with Mrs. MAKARIEVA remained unanswered. Derivation: Composition of *Rossiella* and the Latin diminutive suffix "-ella". Gender: feminine.
- Rossonophrys** JANKOWSKI 1989 [E00027: 14]. TS: *R. vastus* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "ophrus" (eyebrow) is feminine, viz. *R. vasta* nom. corr.
- Rostrophrya** FOISSNER 1993 [FOI282: 620]. TS: "Rostrophrya" *camerounensis* NJINÉ 1979 by original designation. NJINÉ (1979 [CI1380: 346]) founded *Rostrophrya* with two species but designated neither unequivocally as type, thus it is a nomen nudum (Art. 13.3; Code). Specifically, he added "n. gen., sp. n." to *R. camerounensis*, but this appendix does not suffice according to Article 68.2.1 of the Code. FOISSNER (1993 [FOI282: 620]) thus reinstalled *Rostrophrya* as genus name to avoid an inflation of names. Incorrect authorship and misdated with "1978" in SMALL & LYNN (1985 [Z06206: 424]) and DRAGESCO & DRAGESCO-KERNÉIS (1986 [AEB009: 228]), possibly referring to the nomenclaturally unavailable thesis of NJINÉ (1978 [E02152]). Revision and key to species: FOISSNER (1993 [FOI282: 620]).

**Rostrophryides** FOISSNER 1987 [FOI176: 236]. TS: *R. africana* by original designation (& monotypy). Key to species: FOISSNER (1993 [FOI282: 615]); specified as noun in apposition, thus gender ending remains unchanged (Arts. 11.9.1.2, 31.2.1, 34.2.1; Code). Feminine gender according to Article 30.1.4.4 of the Code.

"Rotundocylis". Genus ascribed to "KUFFERATH 1952", but mentioned without species name and reference by CORLISS (1979 [COR085: 307]). No further information could be found.

**Rovinjella** MATTHES 1972 [E00289: 266]. TS: *R. spheromae* by monotypy.

**Rubioxytricha** BERGER 1999 [LB1083: 479]. TS: *Oxytricha haematoplasma* BLATTERER & FOISSNER 1990 by original designation.

**Rugaecaulis** LOM & PUYTORAC 1994 [Z06202: 716]. TS: *R. conchili* (STOKES) by monotypy; incomplete reference to basionym. First mentioned by LOM in CORLISS (1979 [COR085: 273]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code).

**Ruthiella** SCHÖDEL 1983 [CI1322: 119]. TS: *R. gammari* by monotypy.

## S

**Sagittaria** GRANDORI & GRANDORI 1934 [BM0390: 17]. TS: *S. polygonalis* by monotypy.

Very likely, the genus name was first established in the separately paginated reprint, since in their monography appearing in the same year, the name was not indicated as new (cp. [BM0391: 268]). This was overlooked by the revising author (FOISSNER 1993 [FOI282: 384, 647]); thus, the reprint (available 1934) of the paper printed in 1935 (cp. [E00759: 76]) is the correct nomenclatural reference. Revision and key to species: FOISSNER (1993 [FOI282: 647]).

**Salpingacantha** KOFOID & CAMPBELL 1929 [CI1434: 355]. TS: *S. undata* (basionym *Tintinnus acuminatus* var. *undatus* JÖRGENSEN 1899) by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

**Salpingella** JÖRGENSEN 1924 [E00252: 13]. TS: *S. acuminata* (basionym *Tintinnus acuminatus* CLAPARÈDE & LACHMANN 1858) by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 347]). Misspelled "Salpigella" in HADA (1937 [E01202: 213]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 346]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Key to marine species: YOO & KIM (1990 [E02095: 112]).

**Salpingellina** COLOM 1948 [E00161: 250]. TS: *S. levantina* by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

**Salpingelloides** CAMPBELL 1942 [E00200: 131]. TS: *Tintinnus costatus* LAACKMANN 1910 by original designation. Masculine gender according to Article 30.1.4.4 of the Code. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

**Salpistes** WRIGHT 1859 [E00683: 102]. Masculine gender according to Article 30.1.4.4 of the Code. Synonym of *Stentor* (e.g. BÜTSCHLI 1889 [LB0896: 1728]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

**Saprodinium** LAUTERBORN 1908 [E00128: 662]. TS: *Discomorpha dentatum* LAUTERBORN 1901 by monotypy. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]). Key to marine species: CAREY (1992 [LB0008: 164]). Redescriptions of type species: SCHRENK & BARDELE (1991 [CI2008: 278]); SOLA et al. (1992 [Z01495: 54]). Taxonomic and ecological monograph of the genus: FOISSNER et al. (1992 [FOI265: 446])

- Saprophilus* STOKES 1887 [E00790: 247]. A junior homonym of *S.* STREUBEL 1839, coleopteran insect. Objective synonym of *Sathrophilus* CORLISS 1960. Placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" in the I.C.Z.N. (1970 [CI1520: 35], name number 1977).
- Saragassephelota* JANKOWSKI 1981 [CI1416: 97]. TS: *Ephelota buetschliana* ISHIKAWA 1896 by original designation (& monotypy).
- Sathrophilus* CORLISS 1960 [COR036: 276]. TS: *Saprophilus agitatus* STOKES 1887 by original designation (& monotypy). Substitute name of the preoccupied *Saprophilus*.
- Savroniella* BELOKRYYS 1995 [CI1540: 27]. TS: *S. rugosa* by original designation.
- Scalpratella* MAKARIEVA 1979 [E01027: 59]. TS: *S. angustioris* by original designation (& monotypy).
- Scaphidiodon* STEIN 1859 [CI1554: 63]. TS: *Trichoda navicula* MÜLLER 1786 by monotypy. Further characterized by STEIN in the same year (cp. [CI1394: 3]; [PR1074: 117]). Synonym: *Ehrenbergius*.
- Schedotrochilia* DEROUX 1976 [E00181: 532]. TS: *S. disjoncta* by monotypy.
- Schewiakoffia* CORLISS 1960 [COR036: 276]. Superfluous substitute name of the preoccupied *Maupasella*, because of the senior replacement name *Mastigothrix*. Although treated as valid genus of the family Enchelyidae by CORLISS (1979 [COR085: 215]), it is very likely unidentifiable, thus a nomen dubium (cp. also KAHL 1930 [KAH008: 53]).
- Schistophrya* KAHL 1933 [KAH015: 67]. TS: *S. aplanata* by monotypy.
- Schizactinia* JANKOWSKI 1967 [CI1568: 35]. TS: *Ophryodendron multiramosum* WETZEL 1953 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Latin suffix "-ia" is feminine, viz. *Schizactinia multiramosa* nom. corr.
- Schizocalyptra* DRAGESCO 1968 [CI1278: 85]. TS: *S. magna* by original designation (& monotypy); also spelled "*S. magma*" in the capitle line, probably par lapsus.
- Schizocaryum* POLJANSKY & GOLIKOWA 1957 [E00606: 138]. TS: *S. dogieli* by monotypy. Redescription of type species: LYNN & FROMBACH (1987 [CI2045: 3133]).
- Schizopus* CLAPARÈDE & LACHMANN 1858 [E00117: 138, 182]. TS: *S. norwegicus* by monotypy. Synonym of *Diophrys* (e.g. BÜTSCHLI 1889 [LB0896: 1753]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 64]). Nomen oblitum in CORLISS (1979 [COR085: 208]), but junior homonym of *S.* LÉCONTE 1858, coleopteran insect. The suppression of the ciliate genus was proposed by NELSON (1991 [E02120: 305]) and directed by the I.C.Z.N. (1993 [E02121: 174]). If the genus is resurrected, a new name is necessary.
- Schizosiphon* KENT 1882 [E00074: 785]. TS: *S. socialis* by subsequent designation by JANKOWSKI (1979 [CI1188: 64]). Misdated with "1881" in KAHL (1932 [KAH014: 557]). Synonym of *Stichotricha* (e.g. BÜTSCHLI 1889 [LB0896: 1743]; KAHL 1932 [KAH014: 557]). Listed as genus in the index of Hypotrichida and downgraded to a subgenus of *Stichotricha* by JANKOWSKI (1979 [CI1188: 64]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Schultzellina* CÉPÈDE 1910 [E00205: 436]. TS: *S. mucronata* by monotypy. Synonym of *Maupasella* (e.g. CORLISS 1979 [COR085: 271]).
- Sciadostoma* KAHL 1926 [KAH001: 309]. TS: *S. difficile* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Synonym of *Trimyema* (e.g. KAHL 1935 [KAH019: 829]; CORLISS 1979 [COR085: 219]; AUGUSTIN et al. 1987 [FOI166: 206]).
- Sciurella* KOPPERI 1937 [Z06410: 24]. Homonym of *S.* ALLMAN 1883, coelenterate. Objective synonym of *Sciurula* CORLISS 1960.

- Sciurula* CORLISS 1960 [COR036: 276]. TS: *Sciurella intestinalis* KOPPERI 1935 by original designation (& monotypy). Substitute name of the preoccupied *Sciurella*.
- Scopulata* VILJOEN & VAN AS 1985 [E00477: 92]. TS: *Scyphidia dermatata* VILJOEN & VAN AS 1983 by original designation. Synonym of *Apiosoma* by placement of the type species (cp. JANKOWSKI 1986 [CI1525: 87]). Potentially valid, but needs clarification.
- Scyphidia* DUJARDIN 1841 [CI1202: 538]. TS: *S. rugosa* by subsequent designation by KAHL (1935 [KAH019: 669]). First mentioned by DUJARDIN (1840 [E00054: 286]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). According to the Zoological Record (CD-version) invalidation by JANKOWSKI (1985 [CI1417: 75]), viz. *S. rugosa* is considered as nomen dubium (p. 80). Misspelled "Shyphidida" in JANKOWSKI (1985 [CI1417: 80]). Keys to species: BANINA et al. (1984 [AEB550: 285]); JAMADAR & CHOUDHURY (1988 [E02094: unpag.]).
- Scyphidiella* GUHL 1979 [CI1315: 428]. TS: *Scyphidia dentata* MATTHES & GUHL 1972 by original designation (& monotypy). Synonym: *Ophrydiopsis*.
- Segmentochona* JANKOWSKI 1989 [E00028: 7]. TS: *Stylochona spiralis* BONNIER in GIARD 1894 by original designation.
- Semiacineta* JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta swarczewskyi* COLLIN by original designation (& monotypy); incomplete reference to basionym; specific name also spelled "swarczewskji" in the Zoological Record (CD-version), probably par lapsus.
- Semiboveria* RAABE 1970 [Z06217: 156]. TS: *S. stevensae* (basionym *Boveria stevensi* ISSEL 1903) by original designation (& monotypy). The femal ending of the species name has been corrected by RAABE (1970 [Z06217: 156]; cp. Arts. 31.1.2; Code), also spelled *B. "stavenisi"*, probably par lapsus.
- Semichitinoidella* NOWAK 1978 [E01086: 13]. TS: *S. sujkowski* by original designation.
- "Semicothurnia". TS: *Cothurnia acuta* LEVANDER 1915 by original designation. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). However, considered as synonym of *Cothurnia* (e.g. WARREN & PAYNTER 1991 [CI1592: 21]).
- Semifolliculina* DONS 1914 [E00184: 67]. TS: *S. gigantea* by monotypy. Synonym: *Donsia*. Synonym of *Parafolliculina* (e.g. KAHL 1932 [KAH014: 475]), *Ascobius*, *Donsia*, and *Lagotia partim* (e.g. CORLISS 1979 [COR085: 299]).
- "Seminassula" JANKOWSKI 1976 [CI1412: 168]. TS: *Nassula picta* GREEFF 1888 by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code); moreover, without new data. Redescription of type species in its original combination by FOISSNER et al. (1994 [FOI300: 445]), thus synonym of *Nassula* by placement of type species.
- Semiplatyophrya* WILBERT & KAHAN 1986 [CI1049: 130]. TS: *S. foissneri* by monotypy. Revision: FOISSNER (1993 [FOI282: 656]).
- Semitrichodina* KAZUBSKI 1958 [E02153: 109]. TS: *Trichodinella sphaeronuclea* LOM 1956 by original designation (& monotypy). Synonyms: *Paratrichodina*, *Trichodoxa*, *Tripartiella*. Key to Ukrainian species: KOSTENKO (1981 [E02135: 104]). Revisions and keys to species: HAIDER (1964 [E02211: 200]); GUHL & HAIDER (1988 [LB0344: 290]).
- "Sepoides". TS: "*S. radiatus*" (for *Trochilioides* sp. sensu PÄTSCH 1974) by original designation (& monotypy). Masculine gender according to Article 30.1.4.4 of the Code. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Seravinella* ALEKPEROV & MAMAJEVA 1992 [CI1012: 12]. TS: *S. pectinata* by monotypy.
- "Serioscyphus". TS: *Orbopercularia erlangensis* MATTHES & GUHL 1972 by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of



- JANKOWSKI 1976 [CI1411: 169]; moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Serpentichona** JANKOWSKI 1973 [AEB543: 276]. TS: *S. anthus* by original designation (& monotypy).
- Sertumia** TUCOLESCO 1962 [E00373: 19]. TS: *S. tekirghiolica* by monotypy.
- Setarcon** JANKOWSKI 1981 [CI1416: 105]. TS: *Ophryodendron pedicellatum* HINCKS 1873 by original designation (& monotypy).
- Setodiscophrya** JANKOWSKI 1981 [CI1416: 110]. TS: *Discophrya hydroi* MATTHES 1954 by original designation (& monotypy). Genus not recognized by MATTHES (1988 [LB0005: 116]), i.e. species listed in its original combination.
- Setonophrys** JANKOWSKI 1986 [CI1525: 79]. TS: *Lagenophrys seticola* KANE 1965 by original designation (& monotypy). Improved diagnosis, including redescription of type species: CLAMP (1991 [CI1115: 360]).
- Severonis** JANKOWSKI 1981 [CI1416: 101]. TS: *S. spongiarum* by original designation (& monotypy).
- Shellephelota** JANKOWSKI 1981 [CI1416: 99]. TS: *S. branchialis* by original designation (& monotypy).
- Shellositon** JANKOWSKI 1993 [CI1532: 211]. TS: *S. branchialis* by original designation (& monotypy). Masculine gender according to Article 30.2.3 of the Code.
- Siagonophorus** EBERHARD 1858 [CI1449: 50]. TS: *S. euglenoides* by monotypy. Ascribed to "STEIN 1862: 53" in NEAVE (1940 [LB0754: 188]), but STEIN (1862 [CI1599: 53]) only discussed one EBERHARD'S of species. Synonym of *Acropisthium* (e.g. KAHL 1930 [KAH008: 129]; CORLISS 1961 [COR113: 124]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Siagontherium** PERTY 1852 [E00084: 150]. TS: *S. tenue* by monotypy. Nomen oblitum in CLAPARÈDE & LACHMANN (1858 [E00117: 72]) and DIESING (1866 [CI1490: 538]). Not recorded in CORLISS (1979 [COR085]).
- Sibiracineta** JANKOWSKI 1982 [CI1023: 30]. TS: *S. endemica* by original designation (& monotypy).
- Sicuophora** PUYTORAC & GRAIN 1968 [CI1216: 405]. TS: *S. xenopi* by monotypy. Synonym: *Wichtermania*. Misdated with "1969" in CORLISS (1979 [COR085: 298]). Diagnosis: EARL (1972 [Z06222: 256]).
- Sieboldiellina** COLLIN 1911 [E00048: 440]. Superfluous substitute name for *Discophrya* STEIN 1860 non LACHMANN 1859, which was already replaced by *Haptophrya* STEIN 1867, thus junior objective synonym (e.g. CORLISS 1960 [COR036: 271], CORLISS et al. 1965 [COR048: 265]).
- Sigalasia** DELPHY 1938 [E00173: 64]. TS: *S. sigalasiarum* by monotypy. Rather poorly described (cp. CORLISS 1961 [COR113: 135]). Probably a nomen dubium.
- Sigmaperistomatus** AMARO & SENA 1967 [E01046: 138]. TS: *S. crossodactyli* by original designation.
- Sigmocineteta** JANKOWSKI 1967 [CI1018: 83]. TS: *S. nordica* by original designation (& monotypy).
- Sigmophrya** PUYTORAC 1971 [CI1236: 80]. TS: *S. eudrili* by monotypy.
- Sigmostomum** GULATI 1925 [E00566: 751]. TS: *S. indicum* by monotypy. According to KAHL (1931 [KAH012: 322]) very likely a synonym of *Frontonia leucas*. Thus, considered as synonym of *Frontonia* by placement of the type species.
- Sikorops** FOISSNER 1999 [FOI430: 325]. TS: *S. woronowiczae* by original designation (& monotypy). Masculine gender according to Article 30.1.4.3 of the Code.

- Silenella*** FENCHEL 1965 [E00891: 299]. TS: *S. ovoidea* by monotypy.
- Sincothurnia*** JANKOWSKI 1985 [CI1417: 93]. TS: *Cothurnia sinuosa* WAILES 1943 by original designation. Synonym of *Cothurnia* (e.g. WARREN & PAYNTER 1991 [CI1592: 20]).
- "Siphonocalyx". TS: "S. urnula" (basionym *Epistylis bimarginata* var. *urnula* NENNINGER 1948) by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). Not recorded in CORLISS (1979 [COR085]).
- Siroloxophyllum*** FOISSNER & LEIPE 1995 [FOI353: 477]. TS: *Amphileptus utriculariae* PENARD 1922 by original designation.
- Sisyridion*** EBERHARD 1862 [CI1475: 22]. TS: *S. cochliostoma* by monotypy. The generic name and its misspelling "Sisyriodon", which is unavailable according to Article 33.3 of the Code, are listed as nomina oblita by CORLISS (1979 [COR085: 208]). Synonym of *Panophrys* (e.g. DIESING 1866 [CI1511: 83]) or *Ophryoglena* (e.g. BÜTSCHLI 1889 [LB0896: 1703]).
- "Slitarcon". TS: *Acineta laevis* DONS 1918 by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1986 [CI1574: 389]), thus unavailable.
- Solenophrya*** CLAPARÈDE & LACHMANN 1859 [E00118: 389]. TS: *S. crassa* by monotypy. Misdated with "1958-59" [sic!] in MATTHES (1988 [LB0005: 81]). Synonyms: *Calix*, *Anisarcon*.
- Sonderia*** KAHL 1928 [KAH004: 93]. No type species fixed. Misspelled "Soederia" in JANKOWSKI (1980 [CI1013: 118]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Key to marine species: CAREY (1992 [LB0008: 103]).
- Sonderiella*** KAHL 1928 [KAH004: 96]. TS: *Saprophilus scandens* KAHL 1926 by monotypy.
- Sopianella*** NAGY 1989 [E00398: 65]. TS: *S. longa* by original designation (& monotypy).
- Soracineta*** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta dibdalteria* PARONA 1881 by original designation (& monotypy); incomplete reference to basionym. In the English translation (cp. JANKOWSKI 1979 [CI1426: 529]), possibly par lapsus *Acineta complanata* GRUBER is listed as type species; this an invalid action, unfortunately included in the Zoological Record (CD-version) (Art. 69.1; Code). Synonym of *Pelagacineta* (e.g. CURDS 1987 [E02043: 84]).
- Sorogena*** BRADBURY & OLIVE 1980 [CI1145: 275]. TS: *S. stoianovitchae* by original designation (& monotypy). Redescription of type species: BARDELE et al. (1991 [FOI237: 7]).
- Sparotricha*** ENTZ 1879 [E01020: 53]. TS: *S. vexillifer* by monotypy. KAHL (1931 [KAH012: 372]) considered this genus to be a synonym of *Lembus*. If this taxonomic conclusion is followed *Cohnilembus*, for *Lembus*, would have to fall as synonym of the rare name *Sparotricha* (cp. CORLISS 1960 [COR036: 270]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Sparsacineta*** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta complanata* GRUBER by original designation (& monotypy); incomplete reference to basionym. Omitted in the translation of the paper (cp. JANKOWSKI 1979 [CI1426: 529]) and subsequently in the Zoological Record.
- Spasmostoma*** KAHL 1927 [KAH003: 58]. TS: *S. viride* by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Spastostyla*** ENTZ 1884 [E00056: 416]. TS: *Rhabdostyla sertularium* KENT 1881 by subsequent designation by JANKOWSKI (1993 [CI1530: 222]). Synonym: *Erythrospis*.

- Synonym of *Vorticella* (e.g. BÜTSCHLI 1889 [LB0896: 1763]) and, more recently *Haplocaulus* (cp. WARREN 1988 [CI1431: 141]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- "*Spathidia*" DUJARDIN 1840 [E00054: 286]. No description or definition, thus a nomen nudum (Art. 12.1; Code). Probably later named *Spathidium*.
- Spathidiella* KAHL 1930 [KAH007: 392]. Unjustified substitute name for *Spathidiodes* KAHL 1926, since the latter, which must remain unaltered in spelling, is only close to being a homonym of *Spathidioides* BRODSKY 1925 (cp. CORLISS 1960 [COR036: 271]). Downgraded to a subgenus of *Spathidium* by KAHL (1930 [KAH008: 149, 169]).
- Spathidiodes* KAHL 1926 [KAH001: 276]. TS: *S. hyalina* by monotypy. Feminine gender according to Article 30.1.4.4 of the Code. Objectiv synonym: *Spathidiella*.
- Spathidioides* BRODSKY 1925 [CI1438: 40]. TS: *S. sulcata* by monotypy. Feminine gender according to Article 30.1.4.4 of the Code.
- Spathidiopsis* FABRE-DOMERGUE 1889 [PR1015: 305]. TS: *S. socialis* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Synonym: *Thoracophrya*. Synonym of *Placus* (e.g. KAHL 1930 [KAH008: 86]) or *Plagiopogon* (e.g. FOISSNER et al. 1994 [FOI300: 376]).
- Spathidiopsis* KAHL 1926 [KAH001: 277]. TS: *S. distoma* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Homonym of *S. FABRE-DOMERGUE* 1889, ciliate. Preoccupied name, which has fallen as junior synonym of *Spathidium* (e.g. CORLISS 1960 [COR036: 270], 1961 [COR113: 121]). If the genus is resurrected, a new name is necessary.
- Spathidiosus* GAJEWSKAJA 1933 [CI1460: 44]. TS: *S. bursa* by monotypy.
- Spathidium* DUJARDIN 1841 [CI1202: 457]. TS: *S. hyalinum* by monotypy. Misspelled "Spatidium" in FROMENTEL (1876 [E00689: 361]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Diceratula* (for the preoccupied *Diceras*), *Habrodon*, *Pelekydion*, *Spathidiopsis* KAHL non FABRE-DOMERGUE. KAHL (1930 [KAH008: 149, 169]) introduced a single subgenus *Spathidiella*, not used today. Key to marine species: CAREY (1992 [LB0008: 57]).
- Spathocyathus* NIE & LU 1945 [E00956: 57]. TS: *S. caridina* by original designation, now considered as synonym of *Spelaeophrya polypoides* (e.g. CORLISS 1979 [COR085: 238]; MATTHES 1988 [LB0005: 203]). Synonym of *Spelaeophrya* by placement of the type species.
- "*Spelaeonecta*". Substitute name of the preoccupied the unavailable "*Faureia*". Name not made available since no type species was designated (Art. 13.3; Code), neither by TUCOLESCO (1962 [E00374]) nor by JANKOWSKI (1975 [E00250: 27]). Listed as synonym of *Halterioforma* (e.g. SONG et al. 1999 [CI1685: 84]).
- Spelaeophrya* STAMMER 1935 [Z06237: 518]. TS: *S. troglocaridis* by monotypy. JANKOWSKI (1994 [CI1531: 3]) incorrectly stated *S. polypodes* as type species (Art. 69.1; Code). Synonyms: *Hydranthosoma*, *Hydrophrya*, *Spathocyathus*. Revision: MATTHES (1962 [CI1604: 465]). Key to species: MATTHES (1988 [LB0005: 203]).
- Speleocyphidia* JANKOWSKI 1980 [CI1013: 119]. TS: *Scyphidia husmanni* LÜPKES 1974 by original designation (& monotypy).
- Spetazon* FOISSNER 1994 [FOI297: 267]. TS: *S. australiense* by original designation (& monotypy).
- Sphaerobactrum* SCHMIDT 1920 [E00623: 230]. TS: *S. warduae* by monotypy.
- Sphaerophrya* CLAPARÈDE & LACHMANN 1859 [E00118: 385]. TS: *S. pusilla* by monotypy. JANKOWSKI (1981 [CI1416: 112]) established five subgenera, not used today. Synonyms: *Arcacineta*, *Stenophaga*. Considered as synonym of *Podophrya* by CURDS (1986

- [E02041: 59]), but treated as valid by MATTHES (1988 [LB0005: 175]) and FOISSNER et al. (1995 [FOI340: 473]).
- Sphaerotrichium* WULFF 1919 [E00786: 116]. TS: *S. elegans* by monotypy. Misspelled "Sphaerotrichum" in KAHL (1932 [KAH014: 513]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym in CORLISS (1979 [COR085: 303]), who further noted "Spherotrichium". Synonym of *Lohmanniella* (e.g. KAHL 1932 [KAH014: 513]) and *Strobilidium* (e.g. MAEDA 1986 [E02025: 5]).
- Sphenophrya* CHATTON & LWOFF 1921 [E00533: 1497]. TS: *S. dosinia* by monotypy. Revision: RAABE (1970 [Z06218: 451]). JANKOWSKI (1986 [CI1571: 163]) established two subgenera in an abstract, thus contained in an unpublished work and unavailable (Art. 9.9; Code).
- Sphenostomella* JANKOWSKI 1980 [CI1013: 119]. TS: *Sathrophilus vernalis* GROLIÈRE & DRAGESCO 1985 by original designation (& monotypy), basionym incompletely given. Incorrectly ascribed to "JANKOWSKI n. gen." in SMALL & LYNN (1985 [Z06206: 422]) and to "SMALL & LYNN 1985" in PUYTORAC (1994 [Z06335: 633]).
- Spherasuctans* PUYTORAC 1952 [E00953: 749]. TS: *S. emeriti* by monotypy.
- Spinarcella* KEIJ 1969 [PR1095: 10]. TS: *S. crenella* by original designation.
- Spinarcon* JANKOWSKI 1981 [CI1416: 101]. TS: *S. antennaris* by original designation (& monotypy). Masculine gender according to Article 30.2.3 of the Code.
- Spinichona* JANKOWSKI 1973 [CI1504: 19]. TS: *S. horrida* by original designation (& monotypy).
- Spinivorticella* JANKOWSKI 1993 [CI1530: 222]. TS: *Vorticella echina* KING 1931 by original designation.
- Spinophenia* SZCZECURA 1969 [E00334: 89]. TS: *S. multituba* by original designation (& monotypy).
- Spiretella* BORROR 1972 [CI1191: 8], also "Spiratella" on page 12, an unavailable incorrect original spelling (Art. 19.3; Code). Substitute name of the preoccupied *Spiretella*, but homonym of *S. BLAINVILLE* 1817, mollusc; thus, an objective synonym of *Microspiretella* JANKOWSKI 1975. Misdated with "1981" in TUFFRAU & FLEURY (1994 [Z06341: 137]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 64]).
- Spiretella* GELEI 1944 [E00227: 147]. Homonym of *S. LENDENFELD* 1887, a sponge. Objective synonym of *Spiretella* BORROR 1972 and subsequently *Microspiretella* JANKOWSKI 1975. Misspelled "Apiretella" in CAIRNS & YONGUE (1973 [E02209]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 64]).
- Spirobuetschliella* HOVASSE 1950 [E00241: 1]. TS: *S. chattoni* by monotypy. "Spirobutschliella" is an incorrect original spelling that must be corrected according to Articles 32.4, 32.5 of the Code, because the genus is named after BÜTSCHLI and the German umlaut has to be changed to "ue". Misspelled "Spirobütschliella" in EDWARDS & HOPWOOD (1966 [LB0756: 278]). Revision: PUYTORAC (1972 [CI1224: 34]).
- Spirochona* STEIN 1852 [E00154: 485]. TS: *S. gemmipara* by monotypy. Misdated with "1851" in BÜTSCHLI (1889 [LB0896: 1756]) and KAHL (1935 [KAH019: 804]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Redescriptions of type species: FAHRNI (1982 [CI2200: 170], 1984 [CI2198: 221], 1985 [CI3247: 460]).
- "Spirococlearia". TS: *Opercularia faurei* COLLIN 1909 by original designation (& monotypy); basionym incompletely given. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).

- Spirocorys* WOLSKA 1969 [E00381: 285]. TS: *S. indicus* by monotypy.
- Spirocystomellites* COLOM 1988 [E00459: 79]. TS: *S. dilatatus* by monotypy. Masculine gender according to Article 30.1.4.4 of the Code.
- Spirodinium* FIORENTINI 1890 [CI1529: 13]. TS: *S. equi* by monotypy. Again established in the same year (cp. [CI1529: 15]). Misdated with "1889" in GRAIN (1994 [Z06201: 361]). Revision: WOLSKA (1985 [CI2224: 1]; misdated with "1896").
- "Spirodysteria". TS: *Dysteria kahli* TUCOLESCO by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Spirofilopsis* CORLISS 1960 [COR036: 276]. TS: *Spirofilum tubicolanatanans* (basionym *Spirofilum tubicola natans*) GELEI 1944 by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code. Since the two component words denote a single entity, they are united without a hyphen (Arts. 11.9.5, 32.5.2.2; Code). Substitute name of the preoccupied *Spirofilum*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 64]).
- Spirofilum* GELEI 1929 [BM0370: 165]. TS: *S. tisiae* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 64]). Synonym of *Hypotrichidium* (e.g. KAHL 1932 [KAH014: 555]; CORLISS 1979 [COR085: 308]).
- Spirofilum* GELEI 1944 [E00227: 144]. Homonym of *S.* GELEI 1929, ciliate. Objective synonym of *Spirofilopsis* CORLISS 1960. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 65]).
- "Spirofragma". TS: *Nassula gracilis* KAHL 1931 (for *N. elegans* sensu BLOCHMANN) by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 168]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Spirogonella* JANKOWSKI 1978 [CI1413: 39]. TS: *Uroleptus filum* EHRENBERG 1833 by monotypy, now considered as synonym of *Spirostomum caudatum* (cp. FOISSNER et al. (1992 [FOI265: 324])). Synonym of *Spirostomum* by placement of the type species.
- Spironectum* JANKOWSKI 1967 [CI1569: 36]. TS: *Spirostomum teres* CLAPARÈDE & LACHMANN 1858 by original designation (& monotypy); misdated with "1859". Established as subgenus of *Spirostomum*. Synonym of *Spirostomum* (e.g. AUGUSTIN & FOISSNER 1992 [FOI251: 257], including redescription of type species).
- Spiroperistomatus* AMARO & SENA 1967 [E01046: 137]. TS: *S. macropharyngeus* by original designation.
- Spirophrya* CHATTON & LWOFF 1924 [E00819: 1642]. TS: *S. subparasitica* by monotypy.
- Spiroprorodon* FENCHEL & LEE 1972 [E00212: 232]. TS: *S. glacialis* by monotypy. Synonym of *Gymnozoum* (e.g. PETZ et al. 1995 [CI1432: 74]).
- Spirotrichus* CUNHA 1915 [E02160: 145]. TS: *S. verrucosus* by monotypy. Masculine gender according to Article 30.1.3 of the Code. Synonym of *Metopus* (e.g. KAHL 1932 [KAH014: 409]; CORLISS 1979 [COR085: 295]).
- Spirostomina* GRUBER 1884 [CI1703: 512]. TS: *S. lucida* by monotypy. Synonym of *Peritromus* (e.g. BÜTSCHLI 1889 [LB0896: 1740]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Spirostomum* EHRENBERG [1834] [EHR003: 252]. TS: *S. ambiguum* (basionym *Trichoda ambigua* MÜLLER 1786) by subsequent designation by FROMENTEL (1875 [E00689: 175]). APSTEIN (1915 [Z06263: 123]; dated "1835") proposed the genus as nomen conservandum. Revision: REPAK & ISQUITH (1974 [Z00466: 325]). JANKOWSKI (1967

- [CI1569: 36]) established two subgenera, not used today. Synonyms: *Peltierius*, *Spirogonella*, *Spironectum*. Key to marine species: CAREY (1992 [LB0008: 154]).
- Spirostrombidium*** JANKOWSKI 1978 [CI1413: 40]. TS: *Strombidium sauerbreyae* KAHL 1932 (for the original type species *Strombidium coronatum* SAUERBREY 1928, which is, however, a homonym of *S. c.* (LEEGAARD 1915) KAHL 1932, already renamed by KAHL 1932; cp. PETZ et al. 1995 [CI1432: 123] by original designation. Improved diagnosis: PETZ et al. (1995 [CI1432: 123]).
- "Spirotricha". Used by KAHL (1932 [KAH014: 561]) as "*S. paradoxa* STERKI 1897", a printing error for *Stichospira*, the original combination of *S. paradoxa* (cp. KAHL 1932 [KAH014: 882]). Very likely not intended as genus by GELEI (1940 [E0223: 314, 320]) and GONG (1986 [E00663: 344]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Spiroxystonella*** KOFOID & CAMPBELL 1939 [E00262: 203]. TS: *S. scandens* (basionym *Cyttarocylis (Xystonella) scandens* BRANDT 1906) by original designation (& monotypy). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Spiroxystonellites*** KNAUER 1969 [CI1563: 91]. TS: *S. saetosus* by original designation. Masculine gender according to Article 30.1.4.4 of the Code.
- Spirozona*** KAHL 1926 [KAH001: 308]. TS: *S. caudata* by monotypy. Improved diagnosis: FOISSNER (1986 [FOI154: 7]).
- "Splitofolliculina". Not made available by HADŽI (1951 [E00001: 214]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code).
- Spongiarcon*** JANKOWSKI 1980 [CI1013: 119]. TS: *Ophryodendron variabilis* GRUBER 1884 by original designation (& monotypy). Masculine gender according to Article 30.2.3 of the Code.
- Spongiocirrhus*** JANKOWSKI 1979 [CI1188: 80]. TS: *Gastrocirrhus stentoreus* BULLINGTON 1940 by original designation. Established as subgenus of *Gastrocirrhus*.
- Spongiophrya*** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta multitentaculata* SAND 1895 by original designation (& monotypy); incomplete reference to basionym. Synonym of *Loricophrya* by placement of the type species (cp. CURDS 1987 [E02043: 95]).
- Squalorophrya*** GOODRICH & JAHN 1943 [E00230: 249], also spelled "Squalophrya" on the same page, probably par lapsus. TS: *S. macrostyla* by monotypy. Genus not recognized by MATTHES (1988 [LB0005: 27]); one species, viz. *S. stenostyla*, transferred to *Tokophrya*. Potentially valid, but needs clarification.
- Stammeridium*** WENZEL 1969 [Z06242: 275]. TS: *Stammeriella kahli* WENZEL 1953 by original designation (& monotypy). Substitute name of the preoccupied *Stammeriella*. Redescription of type species: FOISSNER (1985 [FOI131: 44]).
- Stammeriella*** WENZEL 1953 [CI1047: 94]. Homonym of *S.* SOYKA 1950, hymenopteran insect. Objective synonym of *Stammeridium* WENZEL 1969.
- Stappersia*** MEUNIER 1910 [E00131: 179]. TS: *S. fusus* by monotypy; KAHL (1930 [KAH008: 137]) established *Tiarina meunieri* for the type species to distinguish it from *T. fusus* (CLAPARÈDE & LACHMANN). Synonym of *Tiarina* (e.g. KAHL 1930 [KAH008: 137]; CORLISS 1961 [COR113: 120]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Staurophrya*** ZACHARIAS 1893 [E00106: 18]. TS: *S. elegans* by monotypy. Taxonomic and ecological monographs of type species: FOISSNER et al. (1995 [FOI340: 420], 1999 [FOI450: 727]).
- Steenstrupiella*** KOFOID & CAMPBELL 1929 [CI1434: 311]. TS: *Tintinnus steenstrupii* CLAPARÈDE & LACHMANN 1858 by original designation. Misspelled "Steenstrapiella" in HADA (1935 [E01201: 247]) and "Stenstrupiella" in KOMAROVSKY (1959 [E01212: f.82]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5;

- Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Redescription of type species: GILRON et al. (1990 [E01883: 156]).
- Stegochilum*** SCHEWIAKOFF 1893 [PR1037: 48]. TS: *S. fusiforme* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 556]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Misdated with "1839" in BHATIA (1936 [CI1030: 178]). Revision and improved diagnosis: FOISSNER (1986 [FOI154: 7]).
- Stegotricha*** BOWER & MEYER 1993 [E00004: 2005]. TS: *S. enterikos* by monotypy.
- Steinella*** CÉPÈDE 1910 [E00205: 561]. TS: *Opalina uncinata* SCHULTZE 1851 by monotypy.
- Steinia*** DIESING 1866 [CI1490: 520]. TS: *Oxytricha platystoma* EHRENBERG 1831 by subsequent designation by JANKOWSKI (1979 [CI1188: 65]; spelled "O. plastystoma" and not explicitly stated). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 65]; type species dated "1830"). Improved diagnosis: FOISSNER (1989 [FOI213: 235]). Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 336]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 150]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 624]), who mentioned the misspelling "Steina".
- Stelidiella*** KOFOID & CAMPBELL 1929 [CI1434: 326]. TS: *Tintinnus stelidium* BIEDERMANN 1893 by original designation. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). KOFOID & CAMPBELL (1939 [E00262: 354]) incorrectly stated *S. fenestrata* as type species (Art. 69.1; Code).
- Stemacineta*** JANKOWSKI 1978 [CI1415: 495]. TS: *Acineta patula* CLAPARÈDE & LACHMANN by original designation (& monotypy); incomplete reference to basionym. Junior objective synonym of *Paracineta* COLLIN 1911 due to the same type species (Art. 61.3.3; Code).
- Stenophaga*** JANKOWSKI 1981 [CI1416: 85]. TS: *Sphaerophrya doliolum* PENARD 1920 by original designation (& monotypy). Established as subgenus of *Sphaerophrya*. Genus not recognized by MATTHES (1988 [LB0005: 177]), i.e. type species considered in its original combination.
- Stenosemella*** JÖRGENSEN 1924 [E00252: 95]. TS: *Tintinnus ventricosa* CLAPARÈDE & LACHMANN 1858 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 68]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 67]). Keys to marine species: YOO & KIM (1990 [E02095: 95]); CAREY (1992 [LB0008: 172]).
- Stenosemellopsis*** COLOM 1948 [E00161: 244]. TS: *Calpionella hispanica* COLOM 1939 by original designation. Feminine gender according to Article 30.1.2 of the Code. Misspelled "Stenosemmellopsis" in BOLLER (1963 [E01174: expl. fig. 2]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Stenotricha*** JANKOWSKI 1978 [CI1413: 40]. TS: *Strongylidium arenicolus* DRAGESCO 1954 by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *Stenotricha arenicola* nom. corr. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 65]).
- Stentofollicullina*** HADŽI 1938 [CI1546: 28]. TS: *S. tubicola* by monotypy.
- Stentor*** OKEN 1815 [E00133: 45]. TS: *S. muelleri* EHRENBERG 1831 by designation under the plenary powers (I.C.Z.N. 1956 [CI1451: 46]). *Stentor* is a nomen conservandum and placed on the "Official List of Generic Names in Zoology" (cp. APSTEIN 1915 [Z06263: 123]; HEMMING 1954 [CI1560: 214]; KIRBY 1954 [CI1428: 208]; I.C.Z.N. 1956 [CI1451: 46], name number 998). It was preoccupied by *Stentor* SAINT HILLAIRE 1812, a little-used name of a genus of monkeys. The type species is dated "[1832]" by the I.C.Z.N. (1956 [CI1451: 46]) without reason, therefore I follow the new findings (cp. note to reference) and the recent revision by FOISSNER & WÖLFL (1994 [FOI304: 277]) in using

1831. Misdated with "1816" in TUFFRAU & PUYTORAC (1994 [Z06320: 46]). Synonyms: *Diceratella*, *Ecclissa*, *Linza*, *Meserellus*, *Rhabdocaryon*, *Salpistes*, *Stentorella*, *Stentorina*, *Tubaria*. Monograph: TARTAR (1961 [E00921]). Key to marine species: CAREY (1992 [LB0008: 161]); key to limnetic species: FOISSNER et al. (1999 [FOI450: 662]). Nomenclature: KIRBY (1954 [CI1428: 208]); FOISSNER & WÖLFL (1994 [FOI304: 277]).
- Stentorella* REICHENBACH 1828 [E00942: 95]. Substitute name of the preoccupied *Stentor*, neglected for more than a century, not even being included in nomenclatorial indices (e.g. AGASSIZ 1846 [E00987]; SHERBORN 1902 [LB0599])(cp. I.C.Z.N. 1956 [CI1451: 47]). The generic name was suppressed as a junior objective synonym of *Stentor* OKEN 1815 and placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1956 [CI1451: 47], name number 445) (cp. MELVILLE & SMITH 1987 [EV0797: 171]).
- Stentorina* BORY 1824 [Z05029: 533 and Z06525: 697]. No type species fixed. Described twice as new genus by BORY (1824, 1842 [E02257: 631]). Synonym of *Stentor* (e.g. EHRENBERG 1838 [EHR010: 264, 290]; I.C.Z.N. 1956 [CI1451: 54]).
- Stentoropsis* DOGIEL & BYCHOWSKY 1934 [E00549: 254]. TS: *S. barbi* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Stephanidina* EICHWALD 1852 [E00492: 510]. TS: *Trichodina volvox* EICHWALD 1852 by monotypy. Conditionally proposed under the genus heading *Trichodina*; for synonymy with *Askenasia* and nomenclature see FOISSNER (1987 [FOI173: 227]), who suggested the name as nomen oblitum. Not recorded in CORLISS (1979 [COR085]).
- Stephanopogon* ENTZ 1884 [E00056: 326]. TS: *S. colpoda* by monotypy.
- Sterkiella* FOISSNER, BLATTERER, BERGER & KOHMANN 1991 [FOI243: 311]. TS: *Oxytricha cavicola* KAHL 1935 by original designation. Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 151]). Revision and key to species: BERGER (1999 [LB1083: 668]).
- Stichochaeta* CLAPARÈDE & LACHMANN 1858 [E00117: 138, 152]. TS: *S. pediculiformis* by subsequent designation by KENT (1882 [E00074: 775]). Ascribed to "COHN 1866" in TUFFRAU & FLEURY (1994 [Z06341: 144]). Misdated with "1859" in CAREY (1992 [LB0008: 21]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 65]), who incorrectly stated *S. cornuta* as type species. Synonym of *Trachelostyla* (e.g. KAHL 1932 [KAH014: 596]; CORLISS 1979 [COR085: 310]) or *Stichotricha* (e.g. JANKOWSKI 1979 [CI1188: 65]).
- Stichospira* STERKI 1897 [E00873: 535]. TS: *S. paradoxa* by monotypy. Synonym of *Chaetospira* (e.g. KAHL 1932 [KAH014: 561]; CORLISS 1979 [COR085: 309]; JANKOWSKI 1979 [CI1188: 65]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 65]).
- Stichotricha* PERTY 1849 [CI1596: 169]. TS: *S. secunda* by monotypy. PERTY (1852 [E00084: 153]) again indicated the genus as new in his monograph. Misdated with "1852" in STEIN (1859 [PR1074: 174]) and "1952" in KAHL (1932 [KAH014: 556]) and TUFFRAU & FLEURY (1994 [Z06341: 137]). Synonyms: *Archimedeia*, *Chaetospira*, *Drepanidium*, *Schizosiphon*, *Stichochaeta*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 66]). According to FOISSNER et al. (1991 [FOI243: 210]) redescription of type species necessary. Key to marine species: CAREY (1992 [LB0008: 174]).
- "*Stilleriana*". Established without species, description or definition by GUHL & GUHL (1993 [CI1517: 260]), thus a nomen nudum (Art. 13.1; Code).
- Stokesia* WENRICH 1929 [BM1019: 229]. TS: *S. vernalis* by monotypy. Type species incorrectly ascribed to "WANG 1928" by KAHL (1931 [KAH012: 311]) and by DRAGESCO



- (1966 [CI1277: 78]) (cp. FOISSNER 1987 [FOI173: 230]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1994 [FOI300: 200], 1999 [FOI450: 439]).
- Stomatophrya** KAHL 1933 [KAH015: 66]. TS: *S. singularis* by monotypy.
- Stomiosphaera** WANNER 1940 [PR1125: 76]. TS: *S. moluccana* by original designation (& monotypy). Described as foraminifer, later considered as uncertain tintinnine (e.g. CORLISS 1979 [COR085: 307]). Redescription of type species: AUDRI & BONCI (1980 [E02136: 316]).
- Stomophyllum** BÜTSCHLI 1889 [LB0896: 1692]. No type species fixed. Established without species as subgenus of *Loxophyllum* for unpublished and unnamed figures of LIEBERKÜHN. Not recorded by later authors (e.g. NEAVE 1940 [LB0754]; KAHL 1935 [KAH019]; CORLISS 1979 [COR085]). Likely, a nomen dubium and/or nomen oblitum.
- Stravolaema** BORY 1824 [Z05029: 529 and Z06526: 700]. TS: *S. echinorhynchus* by monotypy. Described twice as new genus by BORY (1824, 1842 [E02258: 690]). Synonym of *Phialina* (e.g. EHRENBERG 1838 [EHR010: 334]). Not recorded in CORLISS (1979 [COR085]).
- Strobilidium** SCHEWIAKOFF 1893 [PR1037: 61]. TS: *S. adherens* by monotypy (cp. remark in AGATHA & RIEDEL-LORJE 1998 [CI1625: 13]). First mentioned by SCHEWIAKOFF (1892 [E00092: 559]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Misspelled "Strombilidium" in NEAVE (1940 [LB0754: 333]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 303]). Synonyms: *Anthostrombidium*, *Arachnella*, *Arachnidium*, *Arachmidiumia*, *Cephalotrichium*, *Parastrombidium*, *Patronella*, *Sphaerotrichium*, *Turbilina*. Key to marine species: CAREY (1992 [LB0008: 169]).
- Strombidinopsis** KENT 1881 [E00073: 613]. TS: *S. gyrans* by monotypy, now considered as synonym of *Tintinnidium semiciliatum* (e.g. FOISSNER et al. 1991 [FOI243: 172]). Feminine gender according to Article 30.1.2 of the Code. In the meantime several species have been described, but in fact the genus is without type species and needs clarification. Synonym: *Arachnella*. Improved diagnosis: LYNN et al. (1991 [CI1160: 610]).
- Strombidium** CLAPARÈDE & LACHMANN 1859 [E00118: 371], also spelled *Strombidion*. TS: *Strombidion sulcatum* by subsequent designation by FROMENTEL (1875 [E00689: 159]). In an ecological paper FOISSNER et al. (1990 [FOI229: 159]) already noted that CLAPARÈDE & LACHMANN used both spellings, *Strombidion* and *Strombidium* (in this order), when they establish the genus. However, the spelling *Strombidium* succeeded. This can be justified with a broad interpretation of Articles 24.2 and 32.2.1 of the Code, saying that the correct spelling is that of the first reviser, i.e. STEIN (1867 [PR1075: 162]). Thus, *Strombidion* is an incorrect original spelling. Synonyms: *Arachnella*, *Buehringa*, *Clypeolum*, *Octocirrus*, *Patronella*, *Torquatella*, *Woodania*. Key to marine species: CAREY (1992 [LB0008: 165]). Redescription of type species: SONG et al. (2000 [Z06639: 333]).
- Strongylidium** STERKI 1878 [CI1070: 58]. TS: *S. crassum* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 66]). Key to marine species: CAREY (1992 [LB0008: 175]).
- Sturiella** BORZA 1981 [E02065: 93]. TS: *S. oblonga* by original designation (& monotypy). Improved diagnosis: GRÜN & BLAU 1996 [CI1608: 583]).
- Stylarcon** JANKOWSKI 1981 [CI11416: 102]. TS: *Dendrosomides truncatus* DONS 1915 by original designation. Masculine gender according to Article 30.2.3 of the Code.
- Stylicauda** BALECH 1951 [E00516: 299]. TS: *Tintinnopsis platensis* CUNHA & FONSECA 1917 by monotypy. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

- Stylochona** KENT 1881 [E00073: 662]. TS: *S. coronata* by subsequent designation by JANKOWSKI (1989 [E00028: 8]); basionym incompletely given.
- Stylocola** FROMENTEL 1876 [E00689: 247]. No type species fixed. Established as subgenus of *Cothurnia*. Synonym of *Cothurnia* (e.g. BÜTSCHLI 1889 [LB0896: 1769]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Stylocoma** GRUBER 1884 [CI1703: 525]. Homonym of *S.* LIOY 1864, dipteran insect. Objective synonym of *Gruberella* CORLISS 1960. Listed as synonym of *Diophrys* in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 66]).
- Stylocometes** STEIN 1867 [PR1075: 144]. TS: *Acineta digitata* STEIN 1859 by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "kometes" (heavenly body with a 'tail') is masculine, viz. *Stylocometes digitatus* nom. corr. Objective synonym: *Digitiphrya*. Synonyms: *Asellicola*, *Pericometes*.
- Stylogemma** JANKOWSKI 1981 [CI1416: 102]. TS: *Rhabdophrya wailesi* KAHL 1934 by original designation (& monotypy).
- Stylohedra** KELLICOTT 1884 [CI1131: 122]. TS: *S. lenticulata* by monotypy. Synonym of *Lagenophrys* (e.g. BÜTSCHLI 1889 [LB0896: 1772]; CLAMP 1991 [CI1115: 358]).
- Stylonethes** STERKI 1878 [CI1070: 57]. TS: *S. tardus* by monotypy. Considered as nomen dubium by BORROR (1972 [CI1191: 19]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 66]) as incertae sedis.
- Stylonychia** EHRENBERG 1830 [EHR001: 43]. TS: *Trichoda mytilus* MÜLLER 1773 by subsequent designation by FROMENTEL (1875 [E00689: 163]). Misspelled "Stylonichia" in DUJARDIN (1841 [CI1202: 424]), SCHMARDA (1846 [BM0927: 45]), SCHIEDERMAYR (1882 [E01322: 48]), KAHL (1930 [KAH008: 139]), and SHARAVINA (1978 [Z06384: 1571]), "Stynolychia" in FROMENTEL (1876 [E00689: 359]), and "Stylonichus" in SHARAVINA (1978 [Z06384: 1573]); listed as synonyms by CORLISS (1979 [COR085: 311]), but incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1838" in KAHL (1932 [KAH014: 617]) and TUFFRAU & FLEURY (1994 [Z06341: 84]). Synonyms: *Ceratidium*, *Dipleurostyla*, *Drepanina*, *Kerona* MÜLLER non EHRENBERG, *Mystacodella*, *Plagiotricha*, *Prosopsenus*, *Tetmemena*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 66]). Key to marine species: CAREY (1992 [LB0008: 193]). Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 315]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 151]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 501]), who mentioned as further misspellings "Stilonichia", "Stilonychia", "Stylochia", "Stylometra", "Stylomychia", "Styлонchia", "Styлонichia", "Stylonycha", "Stylonychi", "Stylonychna", "Stylonychnia", "Stylonyehia", and "Styloychia".
- Stylophrya** SWARCZEWSKY 1928 [Z06227: 362]. No type species fixed. Treated as valid in CORLISS (1979 [COR085: 242]).
- Stylophryodendron** JANKOWSKI 1978 [CI1415: 495]. TS: *Ophryodendron roscoffensis* BATISSE & DRAGESCO 1967 by original designation; basionym incompletely given. The Zoological Record (CD-version) incorrectly stated "Type species not given". Mandatory change of gender ending necessary (Arts. 30.2.4, 31.2, 34.2; Code), because the Greek "dendron" (tree) is neuter, viz. *Stylophryodendron roscoffense* nom. corr.
- Styloplotes** STEIN 1859 [CI1554: 62]. TS: *S. appendiculatus* (basionym *Stylonychia appendiculata* EHRENBERG 1838) by monotypy. Misspelled "Styloptotes" in KAHL (1932 [KAH014: 624]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code), both names listed as nomina oblita by CORLISS (1979 [COR085: 208]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 66]). Synonym of *Diophrys* (e.g. BÜTSCHLI 1889 [LB0896: 1753]; KAHL 1932 [KAH014: 624]; CORLISS 1961 [COR113: 169]).

- Stylostoma* MILNE 1886 [CI1014: 48]. TS: *S. forrestii* by monotypy. Neuter gender according to Article 30.1.2 of the Code. JANKOWSKI (1981 [CI1416: 97]) incorrectly cited *Acineta trinacria* GRUBER 1884 as type species.
- "Styx". Nomenclatural rectification according to FOISSNER et al. (1987 [FOI179: 157]): LIN & PRESCOTT (1985 [E02143: 144]) introduced the name "*Styx* sp." for a hypotrich, later identified as *Onychodromus quadricornutus*, but gave no description that would satisfy the rules of the International Code of Zoological Nomenclature (Art. 13.1; Code). Thus, this name is a nomen nudum and needs not be considered further. In addition, the "*Styx* sp." of these authors is a junior homonym of *Styx* STAUDINGER 1875, a butterfly, and *Styx* OPPENHEIM 1895, a mollusc.
- Suctorella* FRENZEL 1892 [PR1021: 355]. TS: *S. ciliata* by monotypy. Type species considered as synonym of *Podophrya sandi* by MATTHES (1988 [LB0005: 156]), but probably valid (cp. JANKOWSKI 1981 [CI1416: 115]; FOISSNER et al. 1995 [FOI340: 459]).
- Sulcigera* GAJEWSKAJA 1928 [E00561: 477]. TS: *S. comosa* by monotypy. A remarkably curious ciliate (cp. CORLISS 1961 [COR113: 135], 1979 [COR085: 224]).
- Sulcoarcus* HSIUNG 1935 [E02162: 89]. TS: *S. pellucidulus* by monotypy.
- Sulfonecta* JANKOWSKI 1978 [CI1413: 39]. TS: *Caenomorpha uniserialis* LEVINE 1894 by original designation.
- Sultanophrys* FOISSNER & AL-RASHEID 1999 [FOI428: 146]. TS: *S. arabica* by original designation (& monotypy).
- Supraspathidium* FOISSNER & DIDIER 1982 [FOI078: 255]. TS: *Spathidium teres* STOKES 1886 by original designation.
- Swedmarkia* DRAGESCO 1954 [CI1052: 69]. TS: *S. arenicola* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 67]).
- Syllarcon* JANKOWSKI 1981 [CI1416: 105]. TS: *S. draconematis* by original designation.
- Symbionecta* JANKOWSKI 1973 [E00821: 217]. TS: *Cryptochilum cuenoti* FLORENTINI 1898 by original designation (& monotypy); basionym incompletely given. Objective synonym of *Cryptochilidium* due to the same type species (Art. 61.3.3; Code).
- Syncilancistrumina* KNIGHT & THORNE 1982 [E01079: 55]. TS: *S. elegantissima* by original designation (& monotypy).
- "Syncyathella". TS: *Orbopercularia lusti* MATTHES 1955 by original designation. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- "Syndaetor". Established without species, description or definition by BERGER in CORLISS (1979 [COR085: 269]), thus a nomen nudum (Art. 13.1.1; Code).
- Synhymenia* JANKOWSKI 1968 [CI1669: 999]. TS: *Nassula heterovesiculata* GELEI 1939 by original designation (& monotypy). First mentioned in an abstract by JANKOWSKI (1967 [CI1569: 36]), thus contained in an unpublished work (Art. 9.9; Code), thus unavailable. Fully characterized one year later (see above).
- Synophrya* CHATTON & LWOFF 1926 [E00115: 282]. TS: *S. hypotrophica* by monotypy. Misdated with "1935" in PUYTORAC (1994 [Z06340: 839]).
- Syringopharynx* COLLIN 1915 [E02159: 88]. TS: *S. pterotrocheae* by monotypy. Misdated with "1914" and designated as nomen dubium or synonym of *Ancistrocoma* in RAABE (1970 [Z06218: 397, 404]).
- Systylis* BRESSLAU 1919 [CI1325: 41]. TS: *S. hoffi* by monotypy. Misdated with "1927" in KAHL (1935 [KAH019: 694]) and LOM & PUYTORAC (1994 [Z06202: 710]).

## T

- Tachyblaston** MARTIN 1909 [E00287: 378]. TS: *T. ephelotensis* by monotypy. Masculine gender according to Article 30.2.3 of the Code. Synonym: *Dactylophrya*.
- Tachysoma** STOKES 1887 [E00684: 108]. TS: *Trichoda pellionella* MÜLLER 1773 by subsequent designation by BORROR (1972 [CI1191: 15]; not explicitly stated). Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary, viz. *Tachysoma pellionellum* (cp. FOISSNER 1988 [FOI192: 30, 43], without explanation). Listed in the generic catalogue of hypotrachs by JANKOWSKI (1979 [CI1188: 67]). Synonym: *Mesotricha*. Redescriptions of type species: FOISSNER & DIDIER (1982 [FOI078: 259]); FERNANDEZ-LEBORANS & CASTRO DE ZALDUMBIDE (1985 [E02151: 225]); FOISSNER et al. (1991 [FOI243: 304]); MANN & WON (1993 [E02146: 229]). Key to marine species: CAREY (1992 [LB0008: 194]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 148]). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 431]), who mentioned the unavailable misspellings "Tachisoma", "Tachyosoma", and "Taxysoma".
- Taeniocineta** RAABE 1972 [Z06221: 142]. TS: *Hysterocineta eiseniae* BEERS 1938 by original designation (& monotypy).
- Taliaferria** HEGNER & REES 1933 [E00237: 317]. TS: *T. clarki* by monotypy.
- Talitrochilodon** JANKOWSKI 1980 [CI1013: 118]. TS: *Chilodonella hyalina* KIDDER & SUMMERS 1952 by original designation (& monotypy). Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "odus" (tooth) is masculine, viz. *Talitrochilodon hyalinus* nom. corr.
- Talizona** JANKOWSKI 1981 [CI1416: 85]. TS: *Podophrya flexilis* KELLCOTT 1887 by original designation (& monotypy).
- Tanystomium** BERGER 1994 [E01577: 139]. TS: *T. gracile* by original designation. First mentioned by BERGER in CORLISS (1979 [COR085: 263]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code).
- Tapetofolliculina** ANDREWS & NELSON in HADŽI 1951 [E00001: 145]. TS: *Pseudoparafolliculina portitor* ANDREWS & NELSON 1942 by monotypy. HADŽI listed the species as "*Tapetofolliculina portitor* ANDREWS & NELSON 1950", gave a figure of ANDREWS and referred to the authors "ANDREWS & NELSON", who renamed the genus without reason, and announced a detailed description which never appeared to my knowledge. Objective synonym of *Pseudoparafolliculina* ANDREWS & NELSON 1942 due to same type species (Art. 61.3.3; Code).
- Tauriella** NAIDENOVA 1985 [CI1548: 60]. TS: *T. lomi* by monotypy.
- Tectohymena** FOISSNER 1993 [FOI282: 733]. TS: *T. terricola* by original designation (& monotypy).
- Telamodinium** LATTEUR & DUFÉY 1967 [E00274: 129]. TS: *T. onyx* by monotypy.
- Telostoma** GRANDORI 1935 [E00765: 13]. Homonym of *T. ÖRSTED* 1843, turbellarian. Objective synonym of *Telostomatella* FOISSNER 1985. The homonymy of *Telostoma* was discovered, but not corrected by CORLISS (1960 [COR036: 270], 1961 [COR113: 121]), because it was considered as synonym of *Platyophrya* (cp. CORLISS 1979 [COR085: 223]; FOISSNER 1993 [FOI282: 518]).
- Telostomatella** FOISSNER 1985 [FOI133: 281]. TS: *Telostoma ferroi* GRANDORI 1935 by monotypy. Substitute name of the preoccupied *Telostoma*. Revision and nomenclature: FOISSNER (1993 [FOI182: 518]).
- Telotrochidium** KENT 1881 [E00073: 643]. TS: *Vorticella crateriformis* MÜLLER 1773 by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek suffix "-um" is neuter, viz. *T. crateriforme* nom. corr. Misspelled

- "Telotrichidium" in BHATIA (1936 [CI1030: 191]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code); listed as synonym by CORLISS (1979 [COR085: 274]). Revision: FOISSNER (1975 [FOI023: 395]).
- Tentaculifera* SOKOLOFF 1931 [S 1201: 165: ]. TS: *T. mexicana* by monotypy. Synonym of *Paradileptus* (e.g. KAHL 1935 [KAH019: 823]; CORLISS 1979 [COR085: 216]).
- Teratodinium* LATTEUR & DUFÉY 1967 [E00274: 129]. TS: *T. sphaeredon* by monotypy.
- Terebrospira* DEBAISIEUX 1960 [E00169: 338]. TS: *Chattonia lenticularis* DEBAISIEUX 1957 by monotypy. Substitute name of the preoccupied *Chattonia*.
- Teremanticola* JANKOWSKI 1980 [CI1013: 119]. TS: *Biggaria caryoselaginelloides* TCHANG 1958 by original designation (& monotypy). Masculine gender according to Article 30.1.4.2 of the Code. Synonym of *Biggaria* (e.g. TUFFRAU & LAVAL-PEUTO 1978 [E02155: 217]).
- Teretrichodina* JANKOWSKI 1980 [CI1013: 117]. TS: *Trichodina balakrishnia* SANTHAKUMARI & NAIR by original designation; incomplete reference to basionym.
- Termitophrya* NOIROT & NOIROT-TIMOTHÉE 1959 [E00298: 776]. TS: *T. africana* by monotypy.
- Ternacineta* JANKOWSKI 1978 [CI1415: 496]. TS: *Acineta tripharetrata* ENTZ by original designation (& monotypy); incomplete reference to basionym. Synonym of *Phyllacineta* by placement of the type species (cp. CURDS 1985 [E00982: 123]).
- Terricirra* BERGER & FOISSNER 1989 [FOI210: 35], including redescription of type species. TS: *Perisincirra viridis* FOISSNER 1982 by original designation. No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 894]).
- Territricha* BERGER & FOISSNER 1988 [FOI190: 127]. TS: *T. stramenticola* by original designation (& monotypy). Revision: BERGER (1999 [LB1083: 884]).
- Tesnospira* JANKOWSKI 1964 [CI1418: 507]. TS: *T. alba* by monotypy, now considered as synonym of *Metopus palaeformis* KAHL 1927 (cp. ESTEBAN et al. 1995 [E01954: 139]). Thus, synonym of *Metopus* by placement of the type species.
- Tesnotheca* JANKOWSKI 1986 [CI1525: 87]. TS: *Cothurnia limnoriae* DONS 1928 by original designation (& monotypy). Synonym of *Cothurnia* (e.g. WARREN & PAYNTER 1991 [CI1592: 21]).
- Testudinicola* JANKOWSKI 1978 [CI1415: 496]. TS: *Anarma brevis* GOODRICH & JAHN 1943 by original designation (& monotypy); incomplete reference to basionym. Masculine gender according to Article 30.1.4.2 of the Code. Synonym of *Trichophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 55]). Potentially valid, but needs clarification.
- Tetmemena* EIGNER 1999 [CI1607: 47]. TS: *Kerona pustulata* MÜLLER 1786 by original designation. Substitute name of the preoccupied *Clara*. Considered as synonym of *Stylonychia* by BERGER (1999 [LB1083: 571]).
- "Tetrachaetum". TS: "T. parvulum" by monotypy. Only listed without description or definition by ISSEL (1901 [E00413: 2]), thus a nomen nudum (Art. 12.1; Code). Not recorded in CORLISS (1979 [COR085]).
- "Tetraedrophrya". TS: *T. planktonica* by monotypy. Only listed without description or definition by ZYKOFF (1902 [E00143: 180]), thus a nomen nudum (Art. 12.1; Code). Misspelling "Tetreadrophrya planktonica" listed in FOISSNER et al. (1999 [FOI450: 49]).
- Tetrahymen* MAST & PACE 1946 [E01081: 232]. Unjustified emendation of *Tetrahymena* FURGASON 1940, thus placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 35], name number 1978). Objective synonym of *Tetrahymena* FURGASON 1940.

- Tetrahymena*** FURGASON 1940 [E00225: 224]. The originally designated type species *T. geleii* is considered to be a synonym of *T. pyriformis* (EHRENBERG 1830) LWOFF 1947 (basionym *Leucophrys pyriformis* EHRENBERG 1830; placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. 1970 [CI1520: 34], name number 2393) (cp. CORLISS 1951 [COR104: 10], 1954 [COR009: 156], CORLISS & DOUGHERTY 1967 [COR196: 155]). *Tetrahymena* is a nomen conservandum and placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 34], name number 1912). Synonyms: *Cystidium*, *Leptoglana*, *Leucophrydium*, *Leucophrys*, *Paraglaucoma*, *Protobalantidium*, *Roquea*, *Tetrahymen*, *Tetrahymenia*, *Turchiniella*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Nomenclature, genus revision and history: CORLISS & DOUGHERTY (1955 [COR012], 1967 [COR196]), CORLISS (1954 [COR009], 1973 [COR131]). JANKOWSKI (1967 [CI1672: 22]) established two subgenera, not used today.
- Tetrahymenia*** MUGARD 1949 [CI1292: 182]. Incorrect subsequent spelling for *Tetrahymena* FURGASON 1940, but placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 35], name number 1979). Sometimes misdated as "1948" (cp. CORLISS & DOUGHERTY 1967 [COR196: 168]). Synonym of *Tetrahymena* (e.g. CORLISS 1979 [COR085: 258]).
- Tetrastyla*** SCHEWIAKOFF 1893 [PR1037: 66]. TS: *T. oblonga* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 561]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 67]). Synonym of *Amphisiella* (e.g. KAHL 1932 [KAH014: 591]; CORLISS 1961 [COR113: 169]). Considered as nomen dubium by BORROR (1972 [CI1191: 19]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Tetratoxum*** GASSOVSKY 1919 [E00880: 31]. TS: *Blepharocorys unifasciculatum* FIORENTINI 1890 by monotypy. Redescriptions of type species: WOLSKA (1980 [CI1258: 15], 1980 [CI2222: 21]).
- Teuthophrys*** CHATTON & BEAUCHAMP 1923 [E00207: 123]. TS: *T. trisulcata* by monotypy. Misspelled "Theutophrys" in KAHL (1935 [KAH019: 882]), "Teutophrys" in CORLISS (1960 [COR036: 270], 1961 [COR113: 126]), and in GRAIN (1994 [Z06319: 296]); the latter is listed as synonym by CORLISS (1961 [COR113: 126], 1979 [COR085: 216]), but they are incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Triloba*.
- Thalassicineta*** JANKOWSKI 1981 [CI1416: 94]. TS: *Acineta euchaetae* SEWELL 1951 by original designation (& monotypy).
- Thalassiomastix*** BUSCH 1923 [E00527: 206]. TS: *T. atlantica* by monotypy.
- Thalassochona*** JANKOWSKI 1971 [CI1496: 1448]. TS: *T. gambelli* by original designation.
- Thaumatophrya*** COLLIN 1912 [E01049: 374]. TS: *Podophrya troid* CLAPARÈDE & LACHMANN 1859 by monotypy.
- Thecacineta*** COLLIN 1909 [E00464: 1094]. TS: *Acineta calix* SCHRÖDER 1907 by subsequent designation by COLLIN (1912 [E01049]). Synonym: *Paradentacineta*. Redescription of type species: MATTHES (1956 [CI1606: 477]).
- Thigmocoma*** KAZUBSKI 1958 [CI1547: 167]. TS: *T. acuminata* by original designation (& monotypy). Redescription of type species: KAZUBSKI (1963 [CI9038: 237]). Revision: RAABE (1970 [Z06217: 176]).
- Thigmogaster*** DEROUX 1976 [CI1601: 483]. TS: *T. pardus* by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Thigmokeronopsis*** WICKLOW 1981 [CI1083: 331]. TS: *T. jahodai* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code.

- Thigmophrya** CHATTON & LWOFF 1923 [E00815: 83]. TS: *T. bivalviorum* by monotypy. Revision: RAABE (1971 [Z06219: 129]). Redescription of type species: XU & SONG (2000 [CI1690: 224]).
- "Thigmophthirius". TS: *Dogielella sphaerii* by original designation (& monotypy); basionym incompletely given. Established as subgenus of *Dogielella*. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1986 [CI1571: 163]), thus unavailable.
- Thigmostrombidium** JANKOWSKI 1978 [CI1413: 40]. TS: *Strombidium calkinsi* FAURÉ-FREMIET 1932 by monotypy. Objective synonym: *Heterostrombidium*.
- "Thigmotheron". TS: "T. littorinae" by original designation (& monotypy). Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1986 [CI1570: 162]), thus unavailable.
- Thigmozoon** SANTHAKUMARI & NAIR 1973 [E00324: 43]. TS: *T. fencheli* by monotypy.
- Thisarcon** JANKOWSKI 1981 [CI1416: 105]. TS: *Ophryodendron conicum* SCHRÖDER 1907 by original designation (& monotypy).
- Thoracodinium** LATTEUR 1958 [E00270: 272]. TS: *T. vorax* by original designation (& monotypy).
- Thoracophrya** KAHL 1926 [KAH001: 237]. TS: *T. luciae* by original designation. Synonym of *Placus* (e.g. KAHL 1930 [KAH008: 86]; CORLISS 1961 [COR113: 121]) and subsequently of *Spathidiopsis* (e.g. CAREY 1992 [LB0008: 42]).
- Thuricola** KENT 1881 [E00073: 718]. TS: *Vaginicola valvata* WRIGHT 1838 by original designation. Feminine gender according to Article 30.14.2 of the Code. Synonym: *Thuricolopsis*. Revision and key to species: TRUEBA (1980 [E01070: 125]).
- Thuricolopsis** STOKES 1887 [E00790: 250]. TS: *T. kellicottiana* by subsequent designation. Feminine gender according to Article 30.1.2 of the Code. Nomen oblitum in CORLISS (1979 [COR085: 208]). Synonym of *Cothurnia* (e.g. BÜTSCHLI 1889 [LB0896: 1769]) or *Thuricola* (e.g. KAHL 1935 [KAH019: 785]; TRUEBA 1980 [E01070: 128]).
- Thurophora** MASKELL 1887 [E00766: 15]. TS: *T. lucens* by monotypy. Synonym of *Lembadion* (e.g. KAHL 1931 [KAH012: 327]; CORLISS 1961 [COR113: 146]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Thurstonia** PUYTORAC 1969 [E00086: 252]. TS: *T. kaczanowskii* by original designation (& monotypy). First mentioned in an abstract by PUYTORAC (1968 [E01324: 42]), thus contained in an unpublished work and unavailable (Art. 9.9; Code). Fully characterized in PUYTORAC (1969 [E00086: 252]). Revision: RAABE (1972 [Z06221: 132], misdated with "1968"). Redescription of type species: NGASSAM & GRAIN (1998 [E02217: 76]).
- Thylakidium** SCHEWIAKOFF 1893 [PR1037: 58]. TS: *T. truncatum* by monotypy. First mentioned by SCHEWIAKOFF (1892 [E00092: 559]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Genus name frequently misspelled "Thylacidium" (cp. KAHL 1932 [KAH014: 479]; FOISSNER et al. 1999 [FOI450: 49]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nomenclature, revision, and key to species: FOISSNER (1993 [FOI282: 701]).
- Thyrophylax** LYNN & BERGER 1973 [CI1289: 535]. TS: *Plagiopyliella vorax* STRELKOW 1959 by original designation. First mentioned by BERGER in CORLISS (1961 [COR113: 134]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Therefore, LYNN & BERGER instead of BERGER in CORLISS have to be cited as correct authorship.
- Thysanomorpha** JANKOWSKI 1967 [CI1569: 36]. TS: *Legendrea bellerophon* PENARD 1914 by original designation (& monotypy).
- "Thysanotheca". TS: *Orbopercularia matthesi* LUST 1950 by original designation (& monotypy). However, contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI

- (1976 [CI1411: 169]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Tiarella** CHEISSIN 1931 [BM0216: 286]. First mentioned by CHEISSIN (1930 [E01106: 660]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Moreover, a homonym of *T. SWANSON* 1840, mollusc. Objective synonym of *Cheissinia* CHATTON & LWOFF 1949.
- Tiarina** BERGH 1881 [PR1181: 265]. TS: *Coleps fusus* CLAPARÈDE & LACHMANN 1859 by monotypy. Misdated with "1880" in KAHL (1930 [KAH008: 137]). CAREY (1992 [LB0008: 47]) incorrectly cited "(CLAPARÈDE & LACHMANN 1858) BERGH 1880" as authors of the genus. Synonym: *Stappersia*.
- Tiarinella** OBOLKINA 1995 [CI1537: 13]. TS: *T. gracilis* by original designation.
- Tillina** GRUBER 1879 [CI1545: 454]. TS: *T. magna* by original designation. GRUBER (1879 [E00064: 519]) established a name without diagnosis; thus a nomen nudum according to Article 12.1 of the Code (cp. FOISSNER 1993 [FOI282: 84]). Synonym of *Colpoda* (e.g. FOISSNER 1990 [FOI225: 115]; 1993 [FOI282: 84]).
- Tintinnabulum** EHRENBERG 1838 [EHR010: 294]. Emendation of *Tintinnus* not recorded by later authors (e.g. BÜTSCHLI 1889 [LB0896]; CORLISS 1979 [COR085]), thus objective synonym.
- Tintinnidium** KENT 1881 [E00073: 611]. TS: *T. fluviatile* (basionym *Tintinnus fluviatilis* STEIN 1863) by designation under the plenary powers by the I.C.Z.N. (1970 [CI1605: 89]) (cp. TAPPAN & LOEBLICH 1967 [CI1565: 303]; MELVILLE & SMITH 1987 [EV0797: 178]); placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1605: 89], name number 2409). Consequently, all prior designations of type species were set aside under plenary powers. Placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1605: 89], name number 1920). Ascribed to "STEIN" in KAHL (1932 [KAH014: 516]). Misspelled "Tintinnoidium" in FAURÉ-FREMIET (1906 [E01192: 395]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]). Synonym: *Arachnella*. Revision: KOFOID & CAMPBELL (1929 [CI1434: 10]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1991 [FOI243: 163], 1999 [FOI450: 637]).
- Tintinnoidella** ELICKI 1994 [CI1515: 84]. TS: *T. praecursa* by original designation (& monotypy).
- Tintinnopsella** COLOM 1948 [E00161: 245]. TS: *Calpionella carpathica* MURGEANU & FILIPESCU 1933 by original designation. Misspelled "Tintinnopsello" in CITA (1964 [E01179: 229]) and "Tintinnopsella" in NOEL (1959 [E01224: 192]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]).
- Tintinnopsis** STEIN 1867 [PR1075: 154]. TS: *T. beroidea* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misspelled "Tintinopsis" in GAJEWSKAJA (1932 [E01197: 4]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Nominotypical subgenus (Art. 44; Code): HADA (1964 [CI1455: 2]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]). Synonym: *Coniocylis*. Revision: KOFOID & CAMPBELL (1929 [CI1434: 19]). Keys to marine species: SOUTO (1981 [E02105: 373]); ZENG et al. (1989 [LB1073: 122]); YOO & KIM (1990 [E02095: 93]); CAREY (1992 [LB0008: 171]).
- Tintinnus** SCHRANK 1803 [PR1036: 317]. TS: *T. inquilinus* (basionym *Trichoda inquilina* MÜLLER 1776) by subsequent designation by BRANDT (1907 [E00188: 14]); placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1970 [CI1605: 89], name number 2408). Placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1605: 89], name number 1919). The proposal of EHRENBERG (1838



[EHR010: 294]) that *Tintinnabulum* would be more correct linguistically was not followed, i.e. not recorded by later authors (e.g. BÜTSCHLI 1889 [LB0896]; CORLISS 1979 [COR085]). Misspelled "Tintiinnus" and "Tintinnius" in HADA (1932 [E01200: f.23, 38]), "Tintinum" in CASPERS (1957 [E01178: 833]) and "Tintinus" in NIE (1934 [E00487: 79]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Synonym: *Nematopoda*. Revision: KOFOID & CAMPBELL (1929 [CI1434: 229]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 522]).

**Tokophrya** BÜTSCHLI 1889 [LB0896: 1928]. TS: *Podophrya quadripartita* CLAPARÈDE & LACHMANN 1859 by subsequent designation by CURDS (1985 [E00541: 169]); placed on the "Official List of Specific Names in Zoology" by the I.C.Z.N. (1994 [CI1522: 268]). Initiated by DOVGAL & STAROBOGATOV (1993 [E00018: 103]), the genus name was placed on the "Official List of Generic Names in Zoology" by the I.C.Z.N. (1994 [CI1522: 268]). Misspelled "Tocophrya" in DOFLEIN & REICHENOW (1929 [LB0006: 1215]), KAHL (1930 [KAH008: 140]), and PESTA & KUCHAR (1950 [Z01305: 209]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Basitokophrya*, *Halsis*, *Hypophrya*, *Riftus*, *Squalorophrya*, *Volverella*. Nominotypical subgenus (Art. 44; Code): FOISSNER (1999 [FOI430: 366]). Revision and improved diagnosis: CURDS (1985 [E00541: 168]). Keys to species: MATTHES (1988 [LB0005: 21], 1990 [Z04605: 307]). Redescriptions of type species: CLAPS & MODENUTTI (1988 [E02145: 129]); AUGUSTIN & FOISSNER (1989 [FOI207: 43]) and cp. FOISSNER et al. (1995 [FOI340: 411]).

**Tokophryella** JANKOWSKI 1973 [CI1572: 30]. TS: *Podophrya carchesii* CLAPARÈDE & LACHMANN 1859 by original designation (& monotypy).

**Tokophryona** JANKOWSKI 1982 [CI1023: 31]. TS: *T. pelagica* by original designation (& monotypy).

**Tokophryopsis** SWARCZEWSKY 1928 [E00806: 364]. TS: *T. gigantea* by monotypy. Feminine gender according to Article 30.1.2 of the Code. JANKOWSKI (1978 [CI1415: 495]) established two subgenera, but the second type species is an objective synonym. Revision, improved diagnosis, and key to species: CURDS (1985 [E00541: 185]).

**Tomodiscophrya** JANKOWSKI 1981 [CI1416: 113]. TS: *Acineta paratuberosa* NIE & HO 1943 by original designation (& monotypy). Synonym of *Acineta* (e.g. CURDS 1985 [E01045: 163]).

**Tontonia** FAURÉ-FREMIET 1914 [E00019: 95]. TS: *T. appendiculariformis* by monotypy. Misdated with "1924" in KAHL (1932 [KAH014: 505]). Synonym: *Paratontonia*.

"**Torodysteria**". TS: *Iduna sulcata* CLAPARÈDE & LACHMANN 1859 by monotypy. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code). Moreover superfluous substitute name of the preoccupied *Iduna*, which is considered as a nomen oblitum or a synonym of *Dysteria*.

**Torquatella** LANKESTER 1874 [E00269: 272]. Homonym of *T.* HELD 1837, mollusc. Objective synonym of *Patronella* CORLISS 1979 and subjective synonym of *Strombidium* (e.g. CORLISS 1960 [COR036: 270]).

**Torquatina** GROS 1850 [PR1096: 518], without species name. Synonym of *Trichodina* (e.g. BÜTSCHLI 1889 [LB0896: 1759]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

**Toxochona** JANKOWSKI 1972 [CI1497: 1618]. TS: *T. mirabilis* by original designation (& monotypy).

**Toxodinium** CUNHA 1938 [E00359: 139]. TS: *Cycloposthium vorax* CUNHA & MUNIZ 1926 by original designation (& monotypy).

- "Toxopercularia". TS: *Orbopercularia wetzeli* LUST 1950 by original designation (& monotypy). Superfluous substitute name established by JANKOWSKI (1980 [CI1013: 119]) for the preoccupied, but unavailable "Ophiodiscus" JANKOWSKI 1976.
- "Trachelina". BÜTSCHLI (1889 [LB0896: 1667-1669, 1671, 1690]) only treated Trachelina as family name not recorded by later authors (e.g. KAHL 1930 [KAH008]; CORLISS 1979 [COR085]). According to the nomenclators (e.g. SCHULZE et al. 1954 [LB0603: 3507]; NEAVE 1940 [LB0754: 516]) possibly a misspelling of *Trachelius*.
- Trachelius** SCHRANK 1803 [PR1036: 55]. TS: *T. ovum* by subsequent monotypy (cp. FROMENTEL 1875 [E00689: 182]; KENT 1881 [E00073: 522]). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Synonyms: *Harmodirus*, *Ophryocerca*. Key to marine species: CAREY (1992 [LB0008: 61]). Improved diagnosis and redescription of type species: FOISSNER et al. (1995 [FOI340: 208]); FOISSNER (1997 [FOI335: 202]).
- Trachelocera* GISTEL 1848 [E00998: 185]. Feminine gender according to Article 30.1.3 of the Code. Superfluous substitute name for *Trachelocerca* EHRENBERG 1835 (cp. SCHULZE et al. 1956 [LB0603: 3507]).
- Trachelocerca** EHRENBERG 1840 [EHR011: 202]. TS: *Vibrio sagitta* MÜLLER 1786 by monotypy (cp. CORLISS & FOISSNER 1997 [FOI412: 219]). Described twice as new genus by EHRENBERG in [1834] (cp. [EHR003: 316]; note different pagination of the separate [EHR081: 172]) and in 1840 (cp. [EHR011: 202]), a fact overlooked by many later workers (e.g. KAHL 1930 [KAH008: 116]) and the revising authors of the genus, viz. FOISSNER & DRAGESCO 1996 [FOI371: 45]). The genus has been established with three species, which were moved either to *Lacrymaria* or *Euglena* respectively, thus the genus was without species in 1840, when EHRENBERG included *Vibrio sagitta*. Ascribed to "COHN" by DELPHY (1939 [E00174: 54]), his subsequent designation of *T. phoenicopterus* as type species is invalid; like that of *T. entzi* by DRAGESCO (1960 [CI1285: 110]). Misdated with "1840" in BHATIA (1936 [CI1030: 92]). Synonyms: *Gruvelina*, *Nephrocerca*, *Protrichophora*. Key to marine species: CAREY (1992 [LB0008: 75]). Improved diagnosis and synonymy: FOISSNER & DRAGESCO (1996 [FOI371: 45]). Details of nomenclature: CORLISS & FOISSNER (1997 [FOI412: 219]); I.C.Z.N. (1999 [CI1620: 150]).
- Trachelochaeta** ŠRÁMEK-HUŠEK 1954 [CI1046: 265]. TS: *T. bryophila* by original designation (& monotypy). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 67]). No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 894]), who mentioned that *T. sphagni* on p. 256 is probably a different (invalid) name for the type species.
- Trachelolophos** FOISSNER & DRAGESCO 1996 [FOI365: 15]. TS: *T. gigas* by original designation.
- Trachelonema* DRAGESCO 1960 [CI1285: 135]. TS: *T. longicollis* by original designation. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary, viz. *T. longicolle*. Key to marine species: CAREY (1992 [LB0008: 79]). Genus revision and synonymy with *Tracheloraphis*: FOISSNER & DRAGESCO (1996 [FOI371: 59]).
- Trachelophyllum** CLAPARÈDE & LACHMANN 1859 [E00118: 306]. TS: *Trachelius apiculatum* PERTY 1852 by subsequent designation by KENT (1881 [E00073: 502]). Misdated with "1858" in BÜTSCHLI (1889 [LB0896: 1683]) and KAHL (1930 [KAH008: 114]). Established as subgenus of *Prorodon*. Redescriptions of type species: SONG (1994 [E02127: 15]; see also FOISSNER et al. (1995 [FOI340: 180]).
- Tracheloraphis** DRAGESCO 1960 [CI1285: 120]. TS: *Trachelocerca phoenicopterus* COHN 1866 by original designation. Synonym: *Trachelonema*. Key to marine species: CAREY

- (1992 [LB0008: 80]). Improved diagnosis and synonymy with *Trachelonema*: FOISSNER & DRAGESCO (1996 [FOI371: 59]).
- Trachelostyla** BORROR 1972 [CI1191: 15]. TS: *Stichochaeta pediculiformis* COHN 1866 by original designation. The genus was established by KAHL (1932 [KAH014: 596]) with two species. Since he did not determine any as type, the genus is a nomen nudum (Art. 13.3; Code); a fact overlooked by CORLISS (1979 [COR085]) and later authors. Validated by BORROR, although he did not realize that KAHL'S taxon was unavailable. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 67]). Synonym: *Stichochaeta*. Revision and key to species: MAEDA & CAREY (1984 [Z04553: 5], including redescription of type species); key to marine species: CAREY (1992 [LB0008: 186]). No longer classified in the Oxytrichidae by BERGER (1999 [LB1083: 894]), who also noticed the difficult nomenclature.
- Trachelotractus** FOISSNER 1997 [FOI400: 64], including redescription of type species. TS: *Trachelocerca entzi* KAHL 1927 by original designation (& monotypy).
- Transitella** GELLÉRT 1950 [CI1666: 124]. TS: *T. lichenicola* by monotypy. Revision: FRYD-VERSAVEL & TUFFRAU (1978 [CI1213: 94]). Synonym of *Balantidioides* (e.g. FOISSNER et al. 1982 [FOI086: 223]). Not recorded in nomenclators (e.g. EDWARDS & HOPWOOD 1966 [LB0756], EDWARDS & TOBIAS 1993 [LB0758], EDWARDS & VEVERS 1975 [LB0757]).
- Traumatiphthora** CHATTON & LWOFF 1931 [E00976: 533]. TS: *T. punctata* by monotypy. Misspelled "Traumatophrya" KAHL (1934 [KAH017: 167]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Ascribed to "CHATTON, LWOFF & LWOFF 1930" in CHATTON & LWOFF (1935 [BM0192: 129]). Synonym: *Spirophrya*.
- Trematosoma** BATISSE 1973 [CI2303: 477]. TS: *Porcelidium bocqueti* GUILCHER 1950 by monotypy. Neuter gender according to Article 30.1.2 of the Code.
- Triacola** WEITSCHAT & GUHL 1994 [CI1481: 24]. TS: *T. ostracodarum* by original designation (& monotypy). Masculine gender according to Article 30.1.4.2 of the Code.
- Triadinium** FIORENTINI 1890 [CI1529: 14]. TS: *T. caudatum* by monotypy. Again established in the same year (cp. [CI1529: 16]). Redescriptions of type species: WOLSKA (1978 [CI2219: 445], 1981 [CI2223: 357]).
- Triadopercularia** WEITSCHAT & GUHL 1994 [CI1481: 19]. TS: *T. spitzbergensis* by original designation (& monotypy).
- Tribulina** BORY 1824 [Z05029: 527]. TS: *T. rastellum* by monotypy. Described twice as new genus by BORY (1824, 1843 [E02259: 357]). Synonym of *Euplotes* and *Aspidisca* (e.g. EHRENBERG 1838 [EHR010: 381]; BÜTSCHLI 1889 [LB0896: 1754]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Tricaudalia** BUISSON 1923 [E00385: 151]. TS: *T. brumpti* by monotypy.
- Trichochona** MOHR 1948 [E00293: 2]. TS: *T. lecythoides* by original designation (& monotypy).
- Trichoda** MÜLLER 1773 [E00132: 71]. TS: *T. acarus* by subsequent designation by CORLISS & DOUGHERTY (1967 [COR196: 161]), an unrecognizable species, thus a nomen dubium. Nomenclatural history: CORLISS & DOUGHERTY (1967 [COR196: 158ff.]). Listed as nomen oblitum in BERGER (1999 [LB1083: 566]). Objective synonym: *Achlys*.
- Trichoderum** STRAND 1942 [PR1101: 386]. Superfluous substitute name for *Trichopelma* LEVANDER 1900 nec SIMON 1888, because this genus is a synonym of *Leptopharynx* (e.g. CORLISS 1960 [COR036: 270]).
- Trichodina** EHRENBERG 1830 [EHR001: 41]. TS: *Cyclidium pediculus* MÜLLER 1773 by subsequent designation by FROMENTEL (1875 [E00689: 155]). Misspelled "Tricodina" in FROMENTEL (1876 [E00689: 359]), viz. an incorrect subsequent spelling and therefore

- unavailable (Arts. 33.3, 33.5; Code). Misdated with "1838" in RAABE (1963 [CI1403: 131]), LOM & PUYTORAC (1994 [Z06202: 729]), and GUHL & HAIDER (1988 [LB0344: 258]). APSTEIN (1915 [Z06263: 123]) proposed the genus as nomen conservandum. Synonyms: *Acyclochaeta*, *Anhymenia*, *Cyclochaeta*, *Cyclocyrrha*, *Nummulella*, *Paravauchomia*, *Poljanskina*, *Torquatina*. Revision: HAIDER (1964 [E02211: 128]); GUHL & HAIDER (1988 [LB0344: 258]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1999 [FOI450: 472]; type species ascribed to "EHRENBERG 1831").
- Trichodinella*** SRÁMEK-HUSEK 1953 [CI1344: 177]. TS: *Brachyspira epizootica* RAABE 1950 by monotypy, now considered as synonym of *Trichodinella crassii* (DOGIEL 1940) HAIDER 1964 (e.g. HAIDER (1964 [E02211: 209]). Substitute name of the preoccupied *Brachyspira*. Misdated with "1963" in MUKHERJEE & HALDAR (1980 [E02119: 148]). Generic authorship ascribed to "(RAABE, 1950) ŠRÁMEK-HUŠEK, 1953" by BASSON & VAN AS (1989 [CI1118: 158]) and SONG & WANG (1999 [Z06464: 67]). Synonyms: *Dipartiella*, *Dogielina*, *Foliella*. Revision: HAIDER (1964 [E02211: 209]). Keys to (Ukrainian) species: KOSTENKO (1981 [E02135: 118]); BANINA et al. (1984 [AEB550: 382]); GUHL & HAIDER (1988 [LB0344: 252]).
- Trichodinopsis*** CLAPARÈDE & LACHMANN 1858 [E00117: 132]. TS: *T. paradoxa* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misdated with "1857" in GUHL & HAIDER 1988 [LB0344: 247]; "1862" in KAHL (1935 [KAH019: 657]) and RAABE (1963 [CI1403: 130]). Synonym of *Urceolaria* (e.g. KAHL 1935 [KAH019: 657]; GUHL & HAIDER 1988 [LB0344: 251]).
- Trichodoxa*** SIRGEL 1983 [E00771: 118]. TS: *T. genitalis* by original designation. Synonym of *Semitrichodina* (e.g. GUHL & HAIDER 1988 [LB0344: 290]; new combination ascribed to "GUHL in preparation"). Treated as valid by BASSON & VAN AS (1989 [CI1118: 159]).
- Trichogaster*** STERKI 1878 [CI1070: 38]. Feminine gender according to Article 30.1.2 of the Code. Homonym of *T. SCHNEIDER* 1801, fish. Objective synonym of *Prooxytricha* POCHE 1913. Nomen dubium in KAHL (1932 [KAH014: 538]); possibly a synonym of *Urostyla* CORLISS (1960 [COR036: 270]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 68]).
- Tricholeptus*** FROMENTEL 1875 [E00689: 177]. TS: *T. aculeatus* by monotypy. Misspelled "Trycholeptus" in LONGHI (1895 [E00484: 81]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 68]; dated "1874"). Synonym of *Uroleptus* (e.g. BÜTSCHLI 1889 [LB0896: 1745]). Nomen oblitum in CORLISS (1979 [COR085: 208]) and in BERGER (1999 [LB1083: 397]). No longer classified in the Oxytrichidae and type species considered as nomen dubium by BERGER (1999 [LB1083: 894]).
- Trichomecium*** FROMENTEL 1875 [E00689: 183]. TS: *T. caudatum* by original designation. Synonym of *Blepharisma* (e.g. BÜTSCHLI 1889 [LB0896: 1722]; CORLISS 1961 [COR113: 159]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Trichopelma*** LEVANDER 1900 [E00767: 104]. Homonym of *T. SIMON* 1888, arachnid. Objective synonym of *Trichoderum* STRAND 1942 and subjective synonym of *Leptopharynx* (e.g. CORLISS 1960 [COR036: 270], 1979 [COR085: 227]).
- Trichophrya*** CLAPARÈDE & LACHMANN 1859 [E00118: 386]. TS: *T. epistylidis* by monotypy. Synonyms: *Acinete*, *Capriniana* (for the preoccupied *Carpinia*), *Lernaephrya*, *Peltacineta*, *Phagobranchium*, *Testudinicola*. Key to species: MATTHES (1988 [LB0005: 45]; misdated with "1858-59").
- "*Trichophyse*". TS: "*T. sinuosa*" by monotypy. Established without description or definition by SHAWAHAN, JOHNSON & JAHN (1947 [E00482: 366]), thus a nomen nudum (Art. 13.1; Code).

- Trichopodiella*** CORLISS 1960 [COR036: 276]. TS: *Trichopus dysteria* CLAPARÈDE & LACHMANN 1859 by original designation (& monotypy). Substitute name of the preoccupied *Trichopus*.
- Trichopus*** CLAPARÈDE & LACHMANN 1859 [E00118: 338]. Homonym of *T.* SHAW 1803, fish. Misdated with "1858" in KAHL (1931 [KAH012: 259]) and CAREY (1992 [LB0008: 122]). Objective synonym of *Trichopodiella* CORLISS 1960.
- Trichorynchus*** BALBIANI 1887 [E00515: 82]. Masculine gender according to Article 30.1.3 of the Code. Homonym of *T.* SCHNEIDER 1882, sporozoan. Name considered as nomen oblitum by CORLISS (1979 [COR085: 208]). Objective synonym of *Mycterothrix* LAUTERBORN 1898. FOISSNER (1993 [FOI282: 373]) noted that the name of homonym was frequently misspelled "Trichorhynchus" (e. g. LAUTERBORN 1898 [E00126: 147]; KAHL 1931 [KAH012: 297]; CORLISS 1960 [COR036: 270]). However, it may be considered as justified emendation for the Greek "rhunkhos" (snout), latinized "rhynchus". Recorded by SCHULZE et al. (1954 [LB0603: 3538]) as nomen nudum and "Trichorhynchus".
- Trichospira*** ROUX 1899 [CI1017: 584]. TS: *T. dextrorsa* by monotypy. Misdated with "1901" in KAHL (1931 [KAH012: 262]).
- Trichototaxis*** STOKES 1891 [CI1068: 701]. TS: *T. stagnatilis* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 68]). Frequently misspelled "Trichotaxis" (e.g. by KAHL 1932 [KAH014: 588]; CAREY 1992 [LB0008: 186]), treated as synonym in FOISSNER (1987 [FOI173: 226]) and FOISSNER & FOISSNER (1988 [FOI196: 86]). It is, however, an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Key to marine species: CAREY (1992 [LB0008: 186]).
- Tricodon*** DUMAS 1930 [E00470: 74]. TS: *T. biuncinatus* by monotypy. Very likely malformed, indeterminable specimens, thus a nomen dubium.
- Tricoronella*** BLATTERER & FOISSNER 1988 [FOI191: 56]. TS: *T. pulchra* by original designation (& monotypy).
- Trifascicularia*** STRELKOW 1931 [CI1502: 40]. TS: *T. cycloposthium* by monotypy. Misdated with "1930" in GRAIN (1994 [Z06201: 359]).
- Trihymena*** FOISSNER 1988 [FOI194: 103]. TS: *T. terricola* by original designation (& monotypy).
- Triloba*** MUDREZOWA-WYSS 1929 [Z06230: 422]. TS: *T. paradoxa* by monotypy. Homonym of *T.* VEST 1867, mollusc. Preoccupied name, which has fallen as junior synonym of *Teuthophrys* (e.g. KAHL 1930 [KAH008: 176]; CORLISS 1960 [COR036: 270], 1961 [COR113: 126]; misspelled "Teutophrys"). If the genus is resurrected, a new name is necessary.
- Trimyema*** LACKEY 1925 [PR1115: 34]. TS: *T. compressa* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek suffix "-ma" is neuter, viz. *T. compressum* (cp. KAHL 1935 [KAH019: 829], without explanation). Synonym: *Sciadostoma*. Revision: AUGUSTIN et al. (1987 [FOI166: 209]). Key to marine species: CAREY (1992 [LB0008: 107]). Redescriptions of type species: AUGUSTIN et al. (1987 [FOI166: 209]; SERRANO et al. (1988 [Z00429: 315]); see also FOISSNER et al. (1994 [FOI300: 408]).
- Trinacineta*** JANKOWSKI 1981 [CI1416: 85]. TS: *Podophrya diaptomi* KELLICOTT 1885 by original designation.
- Triodonta*** BORY 1824 [Z05029: 522 and Z06527: 753]. TS: *T. kolpodina* (for *Kolpoda cuneus* MÜLLER 1786) by monotypy. Possibly a fragment of *Amphileptus* or *Loxodes* (cp. EHRENBERG 1838 [EHR010: 349]; misspelled "Loxodis"), thus nomen dubium (cp. FOISSNER 1993 [FOI282: 87]).

- Tripalmaria** GASPOVSKY 1919 [E00880: 32]. TS: *T. dogieli* by monotypy. Redescriptions of type species: WOLSKA (1978 [CI2218: 13]; 1978 [CI2212: 21]).
- Tripartiella** RAABE 1963 [CI1403: 131]. TS: *Trichodinella copiosa* LOM 1959 by original designation (not explicitly stated). Established as subgenus of *Trichodinella*. Established by LOM (1959 [E00770: 530] and 1963 [E00279: 10]) for two species, i.e. *T. copiosa* and *T. lata*, non designated as type, viz. a nomen nudum (Art. 13.3; Code). Considered as synonym of *Semitrichodina* in GUHL & HAIDER (1988 [LB0344: 290]). Keys to (Ukrainian) species: KOSTENKO (1981 [E02135: 111]); BANINA et al. (1984 [AEB550: 378]).
- Triplumaria** HOARE 1937 [E00240: 559]. TS: *T. hamertoni* by monotypy. Revision and improved diagnosis: TIMOSHENKO & IMAI (1995 [CI1633: 157]). Key to species: VAN HOVEN et al. (1998 [Z06372: 120]).
- Trithigmostoma** JANKOWSKI 1967 [CI1499: 1249]. TS: *Kolpoda cucullus* MÜLLER 1786 by original designation; nomenclature of the frequently misspelled type species see FOISSNER (1987 [FOI173: 230]). Neuter gender according to Article 30.1.2 of the Code. Revision and redescription of type species, respectively: FOISSNER (1988 [FOI193: 24]) and FOISSNER et al. (1991 [FOI243: 82]).
- Trochella** PENARD 1922 [E00134: 199]. Homonym of *T. M'COY* 1844, mollusc. CORLISS (1960 [COR036: 270]) indicated synonymy with *Metopus*, likely based on KAHL'S (1932 [KAH014: 427]) inclusion of the species under this genus name. However, synonymy was not explicitly stated and moreover *Trochella* was indexed as valid. However, objective synonym of *Cirranter* JANKOWSKI 1964.
- Trochilia** DUJARDIN 1841 [CI1202: 455]. TS: *T. sigmoides* by monotypy. First mentioned by DUJARDIN (1840 [E00054: 285]), but without description or definition, thus a nomen nudum (Art. 12.1; Code). Synonyms: *Dysteropsis* partim. Key to marine species: CAREY (1992 [LB0008: 126]).
- "Trochilioides". Not made available by KAHL (1931 [KAH012: 245]), viz. a nomen nudum, for lack of type species fixation (Art. 13.3; Code). Key to marine species: CAREY (1992 [LB0008: 122]). Feminine gender according to Article 30.1.4.4 of the Code. No redescription of *T. recta* (basionym *Trochilia recta* KAHL 1928) as indicated in the Zoological Record (CD-version), but ecological monograph: FOISSNER et al. (1991 [FOI243: 127]).
- Trochiliopsis** PENARD 1922 [E00134: 99]. TS: *T. opaca* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Considered as synonym of *Trichopelma* by KAHL (1931 [KAH012: 301]). Revision and redescription of type species: AUGUSTIN et al. (1987 [FOI166: 218]).
- Trochochilodon** DEROUX 1976 [E00180: 477]. TS: *T. flavum* by monotypy. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "odus" (tooth) is masculine, viz. *T. flavus* nom. corr.
- Troglodytella** BRUMPT & JOYEUX 1912 [E00006: 499]. TS: *T. abressarti* by monotypy. Misspelled "Trogloditella" in CUNHA (1919 [CI9012: 4]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code).
- Trophogemma** JANKOWSKI 1970 [CI1498: 454]. TS: *T. poljanskyi* by original designation (& monotypy). In the English title specific name spelled "poljansyi", probably par lapsus.
- Tropidoatractus** LEVANDER 1894 [E00080: 39]. TS: *T. acuminatus* by monotypy. Revision: OLMO & TELLEZ (1996 [E02048: 65]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1992 [FOI265: 420]).
- Trypanococcus** STEIN in ZACHARIAS 1885 [E00787: 248]. TS: *T. rotiferorum* by monotypy. Mentioned by STEIN in a lecture in 1872, but unpublished (cp. ZACHARIAS 1885 [E00787: 248]). Nomen oblitum in CORLISS (1979 [COR085: 208]). Ascribed to "STEIN

- 1867" and treated as valid by JANKOWSKI (1981 [CI1416: 97]) and by MATTHES (1988 [LB0005: 154]). Synonym: *Physaliella*.
- Tubaria* THIENEMANN 1828 [E00940: 12]. TS: *T. stentorea* by monotypy. The generic name was suppressed as junior objective synonym of *Stentor* OKEN 1815 and placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1956 [CI1451: 46], name number 444).
- Tubularia* SCHRANK 1776 [E00714: 104]. No type species fixed. Homonym of *T.* LINNAEUS 1758, hydrozoon. Synonym of *Cothurnia* (e.g. EHRENBERG 1838 [EHR010: 297]). If the genus is resurrected, a new name is necessary.
- Tucolesca* LOM in CORLISS 1979 [COR085: 273]. TS: *Leptodiscus mirabilis* TUCOLESCO 1962 by monotypy. Substitute name of the preoccupied *Leptodiscus*.
- Tundrella* KOSHEVOJ 1987 [E01414: 126]. TS: *T. abnormis* by original designation.
- Tunicophrya* JANKOWSKI 1973 [CI1572: 30]. TS: *Ephelota sessilis* COLLIN 1912 by original designation (& monotypy).
- Turania* BRODSKY 1925 [CI1438: 42]. Homonym of *T.* RAGONOT 1890, lepidopteran insect, and *T.* BETHUNE-BAKER 1914, also a lepidopteran insect. Objective synonym of *Turaniella* CORLISS 1960.
- Turaniella* CORLISS 1960 [COR036: 276]. TS: *Turania vitrea* BRODSKY 1925 by original designation (& monotypy). Substitute name of the preoccupied *Turania*. Improved diagnosis: IFTODE et al. (1984 [E02137: 471]).
- Turbilina* ENRIQUES 1908 [E00978: 224]. TS: *T. instabilis* by monotypy. Synonym of *Strobilidium* (e.g. KAHL 1932 [KAH014: 510]; CORLISS 1979 [COR085: 303]; FOISSNER et al. 1991 [FOI243: 153]).
- Turbinella* BORY 1824 [Z05029: 525 and Z06528: 760] TS: *T. maculigera* by monotypy. Described three times as new genus by BORY (1824, 1830 [E02249: 434], 1843 [E02260: 449]). Homonym of *T.* LAMARCK 1801, mollusc. Synonym of *Urocentrum* (e.g. EHRENBERG 1838 [EHR010: 290]; BÜTSCHLI 1889 [LB0896: 1711]; CORLISS 1960 [COR036: 270]). Misdated with "1827" in CORLISS (1960 [COR036: 272]). Nomen oblitum in CORLISS (1979 [COR085: 208]). If the genus is resurrected, a new name is necessary.
- Turchiniella* GRASSÉ & BOISSEZON 1929 [BM0403: 187]. TS: *T. culicis* by monotypy. Placed on the "Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1970 [CI1520: 35], name number 1980). Synonym of *Tetrahymena* (e.g. CORLISS 1979 [COR085: 258]).
- Turpinus* ORMANCEY 1852 [CI1528: 287]. TS: *T. striatopunctatus* by monotypy. According to BÜTSCHLI (1889 [LB0896: 1774]), perhaps a hypotrich, very like a nomen dubium. Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Tythocorys* TAPPAN & LOEBLICH 1968 [E00335: 1385]. TS: *T. coronula* by original designation (& monotypy). First mentioned by LOEBLICH & TAPPAN (1968 [CI1533: 190]) as "in press" in the index of Tintinnida, but without description or definition, thus a nomen nudum (Art. 13.1.1; Code).

## U

- Uncinata* BULLINGTON 1940 [E00192: 207]. TS: *U. gigantea* by monotypy. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 68]).
- Undella* DADAY 1887 [E00166: 564]. TS: *U. hyalina* by subsequent designation by BRANDT (1907 [E00188: 14]). Nominotypical subgenus (Art. 44; Code): JÖRGENSEN (1924 [E00252: 38]). Revision: KOFOID & CAMPBELL (1929 [CI1434: 258]). Listed in the

- generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]). Keys to marine species: SOUTO (1981 [E02105: 375]); YOO & KIM (1990 [E02095: 106]).
- Undellicricos** KOFOID & CAMPBELL 1929 [CI1434: 271]. TS: *Undellopsis* (*Undellicricos*) *bicollaria* by original designation. Established as subgenus of *Undellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Undellopsis** KOFOID & CAMPBELL 1929 [CI1434: 266]. TS: *Undella marsupialis* BRANDT 1906 (partim) by original designation. Feminine gender according to Article 30.1.2 of the Code. Established with two subgenera, thus nominotypical subgenus (Art. 44; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]).
- Urceolaria** STEIN 1867 [PR1075: 147]. TS: *Trichodina mitra* SIEBOLD 1850 by monotypy. CORLISS (1979 [COR085: 147, 277]) already noticed the complicated nomenclature: As JOHNSTON (1938 [CI1352: 7]) – in a totally overlooked paper – has pointed out, protozoologists have been unaware that LAMARCK'S (1801 [E00981: 389]) original *Urceolaria* contained but a single species, an organism subsequently identified as a rotifer! No ciliates were included until LAMARCK (1816 [E00124]); thus, strictly, the name is not available for use with protozoa. DUJARDIN (1841 [CI1202: 525]) had erected the family and STEIN (1867 [PR1075: 147]) had (re)established the genus, though only mentioning LAMARCK and choosing *U. mitra* as type-species, which was accepted by later authors (e.g. RAABE 1963 [CI1403: 130]). Ascribed to "STEIN 1867" for instance in KENT (1881 [E00073: 649]), KAHL (1932 [KAH014: 656]), and LOM & PUYTORAC (1994 [Z06202: 726]). Synonym: *Trichodinopsis*. Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Revision and key to species: HAIDER (1964 [E02211: 111]); GUHL & HAIDER (1988 [LB0344: 247]); ascribed to "(LAMARCK 1816) STEIN 1867". Unfortunately, the revising authors did not formally resolve the nomenclatural problems.
- Urceolopsis** STOKES 1887 [E00790: 245]. TS: *Urceolus sabulosus* by monotypy; basionym incompletely given. Feminine gender according to Article 30.1.2 of the Code. Nomen oblitum in CORLISS (1979 [COR085: 208]). *Urceolus* is an euglenoid genus (cp. Zoological Record (CD-version)).
- Urliella** FOISSNER 1989 [FOI213: 203]. TS: *U. terricola* by original designation (& monotypy).
- Urnula** CLAPARÈDE & LACHMANN 1857 [CI1477: 235]. TS: *U. epistylidis* by monotypy. Key to species: MATTHES (1988 [LB0005: 199]; misdated with "1858-59").
- Urocentrum** NITZSCH 1827 [E00598: 68]. TS: *Cercaria turbo* MÜLLER 1786 by monotypy. Misdated with "1817" (e.g. BHATIA 1936 [CI1030: 92]). Synonyms: *Calceolus*, *Peridinium*, *Peridinopsis*, *Turbinella*. Redescriptions of type species: MARTIN-GONZALEZ et al. (1986 [E02138: 11]); FOISSNER et al. (1994 [FOI300: 187]).
- Urochaenia** SAVI 1913 [E00621: 98]. TS: *U. ichthyoides* by monotypy.
- Urocyclon** SONG & WILBERT 2000 [CI1679: 216], including an improved diagnosis. TS: "Urocyclon" *chesapeakeensis* SMALL & LYNN 1985 by original designation. First mentioned by SMALL in CORLISS (1979 [COR085: 262]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Moreover name not made available by SMALL & LYNN (1985 [Z06206: 531]) since no type species was designated (Art. 13.3; Code). Incorrectly ascribed to "SMALL 1985" in PUYTORAC (1994 [Z06335: 638]).
- Uroleptoides** WENZEL 1953 [CI1047: 107]. TS: *U. kihni* by original designation. Feminine gender according to Article 30.1.4.4 of the Code. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 68]). Description of type species: BORROR & EVANS (1979 [CI1192: 54]). Key to species: SONG & WILBERT (1989 [E01888: 393]).



- Uroleptopsis*** KAHL 1932 [KAH014: 543]. TS: *U. citrina* by original designation. Feminine gender according to Article 30.1.2 of the Code. Misspelled "Uroleptaspis" in DRAGESCO (1970 [CI1464: 98]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 69]; also misspelled "Uroleptosis" on page 62). Key to marine species: CAREY (1992 [LB0008: 187]). Re-established from synonymy with *Pseudokeronopsis* by FOISSNER (1995 [FOI338: 64]).
- Uroleptus*** EHRENBERG 1831 [EHR002: 116]. TS: *Trichoda musculus* MÜLLER 1773 by subsequent designation by BORROR (1972 [CI1191: 12]; not explicitly stated), now considered as rotifer and later descriptions as synonym of *U. gallina* (cp. FOISSNER et al. 1991 [FOI243: 244]). The subsequent designation of *U. piscis* by BERGER (cited as "1992" in press by the above mentioned authors) does not exist (cp. BERGER 1999 [LB1083]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 69]), who further mentioned the misspelling "Euroleptus" without reference. Misspelled "Urolentus" in STORCH (1869 [Z00330]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Paruroleptus*, *Platytrichotus*, *Raphanella*, *Ratulus* partim, *Tricholeptus*. Redescription of type species: FOISSNER et al. (1991 [FOI243: 248]). Key to marine species: CAREY (1992 [LB0008: 188]).
- Uronema*** DUJARDIN 1841 [CI1202: 392]. TS: *U. marina* by monotypy. Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary, viz. *U. marinum*. First mentioned by DUJARDIN (1840 [E00054: 285]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Synonym: *Uronemita*. Key to marine species: CAREY (1992 [LB0008: 134]). Redescriptions of type species: CHEUNG et al. (1980 [E02139: 295]); COPPELLOTTI (1990 [CI3121: 365]); PEREZ-UZ & BLANCA (1993 [E02140: 1]).
- Uronemita*** JANKOWSKI 1980 [CI1013: 119]. TS: *Uronema filificum* KAHL 1931 by original designation (& monotypy); incorrectly ascribed to "FOISSNER". Synonym of *Uronema* (e.g. PEREZ-UZ et al. 1996 [Z06379: 262]).
- Uronemopsis*** KAHL 1931 [KAH012: 353]. TS: *Uronema kenti* KAHL 1926 by monotypy. Feminine gender according to Article 30.1.2 of the Code.
- Uronychia*** STEIN 1859 [CI1554: 62]. TS: *Trichoda transfuga* MÜLLER 1776 by monotypy. Misdated "1857" in CAULLERY & MESNIL (1903 [E00008]), but in this year was only the oral presentation, the publication year is 1859. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 69]; type species dated "1786"). Misspelling "Euronychia" listed as synonym in CORLISS (1979 [COR085: 312]), but in fact an incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code). Synonyms: *Campylopus*. Redescriptions of type species: HILL (1990 [CI3024: 99]); PETZ et al. (1995 [CI1432: 176]); SONG & WILBERT (1997 [Z06246: 430]). Keys to marine species: CURDS & WU (1983 [E02101: 220]); CAREY (1992 [LB0008: 211]). Revision: SONG & WILBERT (1997 [Z06246: 423]); SONG (1999 [Z06467: 177]).
- Uropedalium*** KAHL 1928 [KAH004: 110]. TS: *U. pyriforme* by subsequent designation by KAHL (1931 [KAH012: 359]) Key to marine species: CAREY (1992 [LB0008: 135]).
- Uropogon*** ITO & IMAI 2000 [Z04569: 61]). TS: *U. urai* by original designation (& monotypy).
- Urosoma*** KOWALEWSKI 1882 [E00582: 406]. TS: *U. cienkowskii* by monotypy, now considered as junior synonym of *U. caudatum* (basonym *Oxytricha caudata* EHRENBERG 1833) (cp. BERGER 1999 [LB1083: 396]; spelled "*U. caudata*"). Mandatory change of gender ending necessary (Art. 30.1.2; Code), because the Greek "soma" (body) is neuter, viz. *U. caudatum* nom. corr. Established as subgenus of *Oxytricha*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 69]). Key to marine species: CAREY (1992 [LB0008: 194]). Redescriptions of type species: FOISSNER (1982 [FOI083:

- 112], 1984 [FOI110: 121]). Improved diagnosis: BERGER & FOISSNER (1997 [FOI445: 148]; author spelled "KOWALEWSKIEGO", which is however the genitive case in slavian languages). Nomenclature, revision, and key to species: BERGER (1999 [LB1083: 396]), who mentioned the incorrect subsequent spellings "Urosomas" and "Urozoma".
- Urosomoida*** HEMBERGER in FOISSNER 1982 [FOI083: 115]. TS: *Uroleptus agilis* ENGELMANN 1862 by original designation. Improved diagnosis and remark to the authorship: BERGER & FOISSNER (1997 [FOI445: 148]). Revision, nomenclature, and key to species: BERGER (1999 [LB1083: 345]); who noted the incorrect subsequent spellings "Urosomoides" and "Urosomoidea".
- Urospina*** GELEI 1944 [E00227: 137]. Homonym of *U. SELLNICK* 1932, arachnid. Objective synonym of *Urospinula* CORLISS 1960. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 69]). Potentially valid, but needs clarification.
- Urospinula*** CORLISS 1960 [COR036: 276]. TS: *Urospina bicaudata* GELEI 1944 by original designation, now considered as synonym of *Psilotricha succisa* (cp. FOISSNER 1983 [FOI096: 490]). Substitute name of the preoccupied *Urospina*. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 70]). Synonym of *Psilotricha* by placement of the type species.
- Urostomides*** JANKOWSKI 1964 [CI1418: 506]. TS: *Metopus striatus* MCMURRICH 1884 by original designation. Masculine gender according to Article 30.1.4.4 of the Code. Established as subgenus of *Metopus*, but not explicitly stated as new. In the same year, however, JANKOWSKI (1964 [CI1377: 188]) used this combination. Considered as valid by KOVALCHUK (1980 [E00483: 50]). Not recognized for instance by LEBORANS & FERNÁNDEZ-GALIANO (1982 [E02141: 83]) and ESTEBAN et al. (1995 [E01954: 139]). Thus, considered as synonym of *Metopus*.
- Urostrongylum*** KAHL 1932 [KAH014: 555]. TS: *Stichotricha contorta* KAHL 1928 by original designation. Mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), because the Greek "strongulos" (bulbous) with the latinized suffix "um" is neuter, viz. *U. contortum* nom. corr. Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 70]). Established as subgenus of *Hypotrichidium*. Key to marine species: CAREY (1992 [LB0008: 176]).
- Urostyla*** EHRENBERG 1830 [EHR001: 43]. TS: *U. grandis* (for *Trichoda patens* MÜLLER 1786) by monotypy. BERGER (1999 [LB1083: 845]) mentioned the misspelling "Urostila". Misdated with "1838" in STEIN (1859 [PR1074: 195]) and KAHL (1932 [KAH014: 564]). Listed in the generic catalogue of hypotrichs by JANKOWSKI (1979 [CI1188: 70]). Synonyms: *Prooxytricha*, *Trichogaster*. Redescriptions of type species see FOISSNER et al. (1991 [FOI243: 222]). Key to marine species: CAREY (1992 [LB0008: 178]).
- Urotricha*** CLAPARÈDE & LACHMANN 1859 [E00118: 314]. TS: *U. farcta* by monotypy. Misdated with "1857" in KAHL (1932 [KAH014: 57]) and "1858" in CAREY (1992 [LB0008: 44]). Synonyms: *Balanitoozon*, *Pantotrichum*. Key to marine species: CAREY (1992 [LB0008: 44]). Revision: FOISSNER & PFISTER (1997 [FOI413: 311]), including a key to species with three or more caudal cilia. Taxonomic and ecological monographs of type species: FOISSNER et al. (1994 [FOI300: 352], 1999 [FOI450: 301]).
- Urotrichopsis*** FOISSNER 1983 [FOI090: 64]. TS: *Urotricha saprophila* KAHL 1930 by original designation; misdated with "1930-35". Feminine gender according to Article 30.1.2 of the Code. Objective synonym of *Dissothigma* JANKOWSKI 1976 due to same type species, already noticed by FOISSNER (1987 [FOI173: 220]).
- Urozona*** SCHEWIAKOFF 1889 [E00091: 45]. TS: *U. buetschlii* by monotypy; the basionym "U. bütschlii" is an incorrect original spelling that must be corrected according to Articles 27 and 32.5.2 of the Code. Already mentioned as "SCHEWIAKOFF unedirt", i.e.

unpublished in BÜTSCHLI (1889 [LB0896: 1706], thus a nomen nudum. Redescriptions of type species see FOISSNER et al. (1994 [FOI300: 268]).

*Usconophrys* JANKOWSKI 1985 [CI1417: 97]. TS: *Lagenophrys aperta* PLATE 1889 by original designation. Improved diagnosis and redescription of type species: CLAMP (1991 [CI1115: 373], who incorrectly again stated a new combination of the type species).

*Uvelinus* JANKOWSKI 1985 [CI1417: 85]. TS: *Epistylis puernerii* NENNINGER 1948 by original designation. *Uvelinus* "puernerii" is an incorrect spelling that must be corrected according to Articles 27 and 32.5.2 of the Code.

## V

*Vaginicola* LAMARCK 1816 [E00124: 26]. TS: *Trichoda ingenita* MÜLLER 1786 by subsequent designation, now considered as synonym of *Vaginicola crystallina* EHRENBERG 1830. Feminine gender according to Article 30.1.4.2 of the Code. Established for three species of MÜLLER, viz. *Trichoda inquilina*, *T. ingenita* and *T. innata*, non designated as type. EHRENBERG (1838 [EHR010: 295]) transferred the first species to *Tintinnus*, the last to *Cothurnia*, and synonymized *T. ingenita* with *Vaginicola crystallina*. Ascribed to "LAMARCK-EHRENBERG 1830" in KAHL (1935 [KAH019: 762]). Synonym: *Miculopodium*.

*Valletofolliculina* ANDREWS 1953 [E00163: 189]. TS: *V. bicornis* by monotypy.

*Valvularia* GOLDFUSS 1820 [E00229: 72]. TS: *V. bilineata* by monotypy. Established for an unidentified taxon of EICHHORN (t. 7. f. T. U), which was considered as synonym of *Vorticella opercularia* by MÜLLER (1776 [CI1610: 214]). Synonym of *Opercularia* (e.g. EHRENBERG 1838 [EHR010: 290]; BÜTSCHLI 1889 [LB0896: 1767]). Nomen oblitum in CORLISS (1979 [COR085: 208])

*Vampyrophrya* CHATTON & LWOFF 1931 [E00976: 532]. TS: *V. aphanotypa* by monotypy, now considered as synonym of *V. pelagica* (basionym *Spirophrya p.*) CHATTON & LWOFF 1930 (cp. CHATTON & LWOFF 1935 [BM0192: 112]; ascribed to "CHATTON, LWOFF & LWOFF 1930"). Synonym: *Spirophrya*. Redescription of *Vampyrophrya pelagica*: GRIMES & BRADBURY (1992 [CI9025: 65]).

*Vasacineta* JANKOWSKI 1981 [CI1416: 86]. TS: *Acineta cuspidata* KELLCOTT 1885 by original designation (& monotypy). Object synonym: *Kellicotta*. Synonym of *Metacineta* by placement of the type species (cp. MATTHES 1988 [LB0005: 198]).

*Vasia* MILNE-EDWARDS 1851 [E00678: not seen]. Not mentioned by EHRENBERG (1838 [EHR010]) and not recorded in NEAVE (1940 [LB0754]). Synonym of *Vorticella* (e.g. BÜTSCHLI 1889 [LB0896: 1763]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

*Vasichona* JANKOWSKI 1972 [CI1497: 1619]. TS: *V. paguri* by original designation (& monotypy). Improved diagnosis and synonymy of *Cryptochona*: TAYLOR et al. (1995 [E01938: 171]).

*Vasicola* TATEM 1869 [E00101: 118]. TS: *V. ciliata* by monotypy. Feminine gender according to Article 30.1.4.2 of the Code. Synonym: *Pelamphora*.

*Vauchomia* MUELLER 1938 [E00295: 255]. TS: *V. nephritica* by original designation. Revisions and keys to species: HAIDER (1964 [E02211: 215]); GUHL & HAIDER (1988 [LB0344: 255]).

*Vautrinella* CUVILLIER & SACAL 1963 [CI1440: 75]. TS: *V. lapparenti* by monotypy. First mentioned by CUVILLIER (1957 [E01170: 62]) without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).

*Velavella* KOSHEVOJ 1987 [E01415: 23]. TS: *V. mica* by original designation.

- Velistoma** JANKOWSKI 1980 [CI1013: 119]. TS: *Cryptochilum echinometris* BIGGAR & WENRICH 1932 by original designation (& monotypy). Neuter gender according to Article 30.1.2 of the Code, thus mandatory change of gender ending necessary (Arts. 31.2, 34.2; Code), viz. *Velistoma echinometre* nom. corr.
- Venodiscophrya** JANKOWSKI 1981 [CI1416: 110]. TS: *Podophrya lichtensteinii* CLAPARÈDE & LACHMANN 1859 by original designation. Synonym of *Discophrya* by placement of the type species (cp. MATTHES 1988 [LB0005: 104]).
- Veracineta** JANKOWSKI 1978 [CI1415: 496]. TS: *Acineta tisbei* GUILCHER by original designation (& monotypy); incomplete reference to basionym. Revision, improved diagnosis and key to species: CURDS (1985 [E00982: 125]).
- Vesonyctus** JANKOWSKI 1978 [CI1413: 39], also spelled "Vestonyctus" on the same page, probably par lapsus. TS: *Metanyctotherus vachoni* ALBARET by monotypy; incomplete reference to basionym.
- Vestibulogum** GRIM 1988 [Z06252: 227]. TS: *V. corlissi* by monotypy.
- Vinarcon** JANKOWSKI 1981 [CI1416: 107]. TS: *V. asteris* by original designation (& monotypy).
- Volverella** BORY 1824 [Z06529: 781]. TS: *V. astoma* by monotypy. Described three times as new genus by BORY (1824, 1830 [E02250: 635], 1843 [E02261: 787]). Considered as synonym of *Epistylis* (e.g. EHRENBERG (1838 [EHR010: 241, 290]) or *Tokophrya* (e.g. BÜTSCHLI 1889 [LB0896: 1928]). The genus name was suppressed for the purpose of the principle of priority but not for those of the principle of homonymy and placed on the Official Index of Rejected and Invalid Generic Names in Zoology" by the I.C.Z.N. (1994 [CI1522: 268], no name number given; dated [1827]). Obviously, the date refers to a later edition and not to the original volume, available in 1824.
- Vorticella** LINNAEUS 1767 [E00129: 1317]. TS: *Hydra convallaria* LINNAEUS 1758 by monotypy. Revision: NOLAND & FINLEY (1931 [CI1478: 81]) and WARREN (1986 [E02092: 53]). One of the most famous ciliate genera with a very complicated synonymy, for instance already EHRENBERG (1838 [EHR010: 269]) listed about 140 species names, from which only 9 were acknowledged by him. He included many now unavailable generic names, e.g. vernacular ones and the pre-linnean "Craspedarium", which is listed without authorship as nomen oblitum in CORLISS (1979 [COR085: 208]), and "Macrocerus". Synonyms: *Convallarina*, *Craterina* partim, *Diceratella* partim, *Ecclissa* partim, *Erythroopsis*, *Kerobalana*, *Ophrydia* partim, *Rinella*, *Spastostyla*, *Vorticellopsis* (e.g. EHRENBERG 1838 [EHR010: 269]; BÜTSCHLI 1889 [LB0896: 1763]; CORLISS 1979 [COR085: 273]). Proposed type genus for a higher taxon within the Ciliophora (cp. CORLISS 1958 [COR025: 521]). Taxonomic and ecological monograph of type species: FOISSNER et al. (1992 [FOI265: 84])
- "Vorticellida". Listed as synonym of *Zoothamnium* in BÜTSCHLI (1889 [LB0896: 1765]), but in fact unavailable. However, according to AGASSIZ (1848 [LB1030: 1119]), DESHAYES & MILNE EDWARDS (1836 [E00723: 61]) used the name for "Vorticellina EHR. Polyg. 1830", which is a family. Not recorded in CORLISS (1979 [COR085]).
- Vorticellopsis** DONS 1918 [CI1011: 84]. TS: *V. undulata* by monotypy. Feminine gender according to Article 30.1.2 of the Code. Misdated with "1916" in KAHL (1935 [KAH019: 732]). Synonym of *Vorticella* (e.g. KAHL 1935 [KAH019: 732]; CORLISS 1979 [COR085: 273]).
- Vostonica** JANKOWSKI 1994 [CI1531: 1]. TS: *V. tenax* by original designation (& monotypy).

## W

- Wagneria* ALENITZIN 1874 [CI1437: 122]. TS: *W. cylindroconica* by monotypy. Homonym of *W.* ROBINEAU-DESVOIDY 1830, dipteran insect, and *W.* JENTIK 1886, mammal. Nomen oblitum in CORLISS (1979 [COR085: 208]). Synonym of *Didinium* (e.g. BÜTSCHLI 1889 [LB0896: 1688]). If the genus is resurrected, a new name is necessary.
- Wailesia* KOFOID & CAMPBELL 1939 [E00262: 140]. TS: *Dictyocysta apiculata* WAILES 1925 by original designation (& monotypy). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Wallackia* FOISSNER 1976 [FOI031: 387]. TS: *W. schiffmanni* by monotypy. Misdated with "1977" in SMALL & LYNN (1985 [Z06206: 419]).
- Wangiella* NIE 1934 [E00487: 76]. TS: *W. dicollaria* by original designation (& monotypy). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 189]).
- Wenrichia* JANKOWSKI 1967 [CI1569: 36]. TS: *Disematostoma colpidioides* GELEI 1954 by original designation (& monotypy). Redescription of type species and synonymy with *Disematostoma*: SERRANO et al. (1994 [Z01456: 358]).
- "Wesenbergia". TS: "W. sieboldii" by monotypy. Established without description or definition by GUHL & GUHL (1993 [CI1517: 259]), thus a nomen nudum (Art. 13.1; Code). Moreover a homonym of *W.* KRYGER 1943, hymenopteran insect.
- Wichtermania* EARL 1972 [Z06222: 256]. TS: *Nyctotherus cheni* WICHTERMAN 1934 by original designation. Synonym of *Sicuophora* (e.g. CORLISS 1979 [COR085: 298]).
- Wolskana* ITO, IMAI, OGIMOTOT & NAKAHARA 1996 [CI1566: 104]. TS: *W. tokarensis* by original designation (& monotypy).
- Woodania* LEEGAARD 1915 [E00588: 26]. TS: *W. conicoides* by monotypy. Synonym of *Strombidium* (e.g. KAHL 1932 [KAH014: 503]; CORLISS 1961 [COR113: 162]). Nomen oblitum in CORLISS (1979 [COR085: 208]).
- Woodruffia* KAHL 1931 [KAH012: 285]. TS: *W. rostrata* by monotypy. Improved diagnosis: FOISSNER (1978 [FOI041: 227]). Redescription of type species: FOISSNER (1987 [FOI176: 227]). Key to species: FOISSNER (1993 [FOI282: 638]).
- Woodruffides* FOISSNER 1987 [FOI176: 229]. TS: *W. terricola* by original designation. Masculine gender according to Article 30.1.4.4 of the Code. Key to species: FOISSNER (1993 [FOI282: 630]), who also noted the misspelling "Woordruffia" on page 633.

## X

- "Xiphodysteria". TS: *Dysteria spinifera* DRAGESCO by original designation (& monotypy); incomplete reference to basionym. Contained in an unpublished work (Art. 9.9; Code) of JANKOWSKI (1976 [CI1412: 167]); moreover, without description or definition, thus a nomen nudum (Art. 13.1; Code).
- Xystonella* BRANDT 1906 [CI1559: 6]. TS: *Cyttarocylis treforti* DADAY 1887 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 234]). Described twice as new genus by BRANDT (1906 and 1907 [E00188: 45]). Ascribed to "JÖRGENSEN 1924" in SMALL & LYNN (1985 [Z06206: 419]). Established as subgenus of *Cyttarocylis*, elevated to generic rank by LAACKMANN (1910 [E01214: 445]). Nominotypical subgenus (Art. 44; Code): KOFOID & CAMPBELL (1939 [E00262: 203]). Misspelled "Hystonella" in HOFKER (1931 [E01205: 381]) and "Xistonella" in OSORIO-TAFALL (1941 [E01227: 167]), viz. incorrect subsequent spellings and therefore unavailable (Arts. 33.3, 33.5; Code); the latter is listed as synonym by CORLISS (1979 [COR085: 306]). Revision: KOFOID &

CAMPBELL (1929 [CI1434: 234]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]).

*Xystonelloides* KOFOID & CAMPBELL 1939 [E00262: 211]. TS: *Cyttarocyliis pulchra* KOFOID 1905 by original designation. Feminine gender according to Article 30.1.4.4 of the Code. Established as subgenus of *Xystonellopsis*. Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]).

*Xystonellopsis* JÖRGENSEN 1924 [E00252: 50]. TS: *Undella paradoxa* CLEVE 1900 by subsequent designation by KOFOID & CAMPBELL (1929 [CI1434: 238]). Feminine gender according to Article 30.1.2 of the Code. KOFOID & CAMPBELL (1939 [E00262: 212]) established eight subgenera, thus nominotypical subgenus (Art. 44; Code). Revision: KOFOID & CAMPBELL (1929 [CI1434: 238]). Listed in the generic catalogue of tintinnids by LOEBLICH & TAPPAN (1968 [CI1533: 190]).

## Y

"Yagiua". Established without species, description or definition by PROFANT in CORLISS (1979 [COR085: 263]), thus a nomen nudum (Art. 13.1.1; Code).

*Ypsistoma* BORY 1824 [Z05029: 529 and Z06530: 789]. TS: *Ypsistomon salpina* by monotypy. Neuter gender according to Article 30.1.2 of the Code. Originally spelled *Ypsistomon* on page 529 and also spelled "Ipsistoma" in BORY (1824 [Z06530: 789]), probably par lapsus. Described three times as new genus by BORY (1824, 1830 [E02251: 689], 1843 [E02262: 850]). Synonym of *Bursaria* (e.g. EHRENBERG 1838 [EHR010: 328]) or *Blepharisma* (e.g. BÜTSCHLI 1889 [LB0896: 1721]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

*Yvonniiellina* TAPPAN & LOEBLICH 1968 [E00335: 1385]. TS: *Pseudarcella campanula* LE CALVEZ 1959 by original designation. First mentioned by LOEBLICH & TAPPAN (1968 [CI1533: 190]) as "in press" in the index of Tintinnida, but without description or definition, thus a nomen nudum (Art. 13.1.1; Code). Synonym: *Coniarcella*.

## Z

*Zetella* RADOIČIĆ 1965 [CI1549: 565]. TS: *Z. mirabilis* by original designation. Uncertain tintinnine or part of the body of fossil molluscs (CORLISS 1979 [COR085: 307]). Probably a nomen dubium.

*Zonotrichium* MEUNIER 1910 [E00131: 173]. TS: *Z. discoides* by monotypy.

*Zoocladium* EHRENBERG in HEMPRICH & EHRENBERG 1831 [EHR031: unpag.]. TS: *Z. niveum* by monotypy. First mentioned by EHRENBERG (1830 [EHR079: 9, 16]) without description or definition, thus a nomen nudum (Art. 12.1; Code). Synonym of *Zoothamnium* (e.g. EHRENBERG 1838 [EHR010: 288, 290]; BÜTSCHLI 1889 [LB0896: 1765]; JANKOWSKI 1985 [CI1417: 84]). Nomen oblitum in CORLISS (1979 [COR085: 208]).

*Zoothamnium* BORY 1824 [Z06531: 816]. TS: *Vorticella ovifera* MODEER 1790 by monotypy. Original spelling *Zoothamnium* emended by EHRENBERG (1838 [EHR010: 288]) and listed as synonym by CORLISS (1979 [COR085: 273]), thus a justified emendation (Art. 33.2.3.1; Code). Misspelled "Zoathamium" in FROMENTEL (1876 [E00689: 357]), viz. an incorrect subsequent spelling and therefore unavailable (Arts. 33.3, 33.5; Code). Misdated with "1826" in SMALL & LYNN (1985 [Z06206: 423]) and SONG & WANG (1999 [Z06464: 69]). Incorrectly ascribed to "EHRENBERG 1838" in LOM & PUYTORAC (1994 [Z06202: 717]). JANKOWSKI (1985 [CI1417: 86]) incorrectly ascribed the genus to

"HEMPRICH & EHRENBERG 1828" and cited the type species "*Z. niveum*". Synonyms: *Autochloe*, *Dendrella*, *Zoocladium*.

*Zoothamnopsis* SONG 1997 [E01653: 208]. TS: *Z. mengi* by original designation (& monotypy). Feminine gender according to Article 30.1.2 of the Code.

*Zosterodasys* DEROUX 1978 [E00651: 464]. TS: *Z. agamalievi* by original designation (& monotypy). Revision and key to species: FERNANDEZ-LEBORANS & ALEKPEROV (1996 [E01958: 3]).

"*Zosterograptus*". Name not made available by FRYD-VERSAVEL, IFTODE & DEROUX (1980 [E00560: 79A]) since no type species was designated (Art. 13.3; Code) and moreover contained in an unpublished work (Art. 9.9; Code). Treated as synonym of *Nassula* (e.g. FOISSNER 1987 [FOI173: 223]).

### 3. Concluding Reflections

To the urgent need of a comprehensive dictionary of ciliate generic names felt as a student assisting in "Willi FOISSNER'S library" this catalogue is an answer. However, an analysis of this material is not the easy task it might first seem to be. The main problems during the attempt to compile accurate spellings, authorships, dates, and sources of ciliate genera are addressed in chapter 3.1. Common malpractices and the continuous flow of newly discovered ciliate taxa convinced me that it is not superfluous to give a condensed report on the creation of new scientific names (chapter 3.2). Finally, some provisional results and gaps are highlighted on nomenclatural matters of ciliate genera at the end of the twentieth century (chapters 3.3, 3.4).

#### 3.1 Main Problems

##### 3.1.1 Importance of Unambiguous Names

An organism's name is essential for communication and the key to its literature, thus it should be unique. Scientific names of ciliates and all other organisms are changed for one of three reasons. First, there are the legalistic reasons involving the accepted rules of nomenclature, e.g. an earlier validly published name comes to light. Second, there are changes resulting from shifts in taxonomic philosophies, such as those exemplified by "splitters" and "lumpers" (see below). Third, and most important, however, are those changes resulting from an increased understanding of the taxa themselves, e.g. in discovering novel characters by new methods. The on-going name changes thus are an accurate reflection of the dynamic nature of our scientific understanding of the organisms.

Since the second and third topic are beyond the scope of this paper but crucial to a higher esteem of systematics, they are briefly touched: A genus is a basic category for classification containing a single species, or a monophyletic group of species, which is separated from other taxa of the same rank by a decided gap (morphology, or some other characteristics). Major criteria for recognizing separateness at, for example, the generic level involve choices of characters and of ideas applied, the narrowness of expertise of workers in the field, the amount of utilizable data available, and the degree of recognition of balance relative to groups at the same or nearby levels.

Human nature being what it is, there will always be lumpers, who focus on similarities and thus synthesize large units, and splitters, who pronounce differences and for instance analyze genera into species, among us (even in nontaxonomic matters). Over the generations that separate us from LINNÉ, there has been slow oscillation between splitting and lumping, although each has had its practitioners in every generation. Examples for lumpers are MÜLLER as exemplified in chapter 1.1 and PENARD, who described 182 species in his work of 1922 of which 31 give rise to new genera later. BORY was an early splitter, but JANKOWSKI is "the arc-splitter" at all taxonomic levels (cp. CORLISS 1979 [COR085: 68]). Neither lumping nor splitting – if reasonably moderate – is necessarily "bad", and different situations may justify one or the other action, but extremes in either direction are to be avoided. In general, common sense, reasonably objective subjectivity, and custom should dictate the limits of a ciliate genus, in fact we are dependent on the good judgement of the specialist (cp. for instance CORLISS 1962 [COR115: 58]; LEITNER & FOISSNER 1997 [FOI406: 347], FOISSNER & CORLISS 1998 [FOI424: 234]).

Errors or bad habits of a nomenclatural nature, which result in legalistic changes of names, sometimes shown by esteemed workers who otherwise are systematists of recognized renown, may stem from four basic causes: ignorance of the rules, carelessness in their application, lack of clarity in the rules themselves (see chapter 3.1.2), or total lack of pertinent directive anywhere in the rules. The first two are quite inexcusable (see already CORLISS 1962 [COR039: 307]).

Many investigators of microorganisms, including ciliates, have understandably been self-taught persons and the requirements to promote stability and universality in scientific names "only" became pressing at the turn of the nineteenth century. During the twentieth century, however, the number of researchers and likewise disciplines increased considerably. Unfortunately, however, the ciliatological literature is replete with clearcut examples of widespread disinterest in (if not ignorance of) the "International Code of Zoological Nomenclature" (e.g. CORLISS 1962 [COR039], CORLISS in FOISSNER & CORLISS 1998 [FOI424: 234], FOISSNER 1999 [FOI431: 142]). Perhaps, it is difficult to grasp that nomenclatural rules are tools that are designed to provide the maximum stability compatible with taxonomic freedom (cp. I.C.Z.N. 1999 [LB1077: xx (4)]). Interestingly, there are quite different traditions concerning the taxonomy of fossil, symbiotic, and free-living ciliates, i.e. palaeontologists and parasitologists seem to be much more aware of the necessity of unambiguous names.

An inexcusable careless fault is the ignorance of possible senior homonyms before proposing new generic names (see chapter 3.4). It is a pity that it is very time consuming to research homonymy because names are dispersed over eight issues of the "Nomenclator Zoologicus" (NEAVE 1939 [LB0751, LB0752], 1940 [LB0753, LB0754], 1950 [LB0755]; EDWARDS & HOPWOOD 1966 [LB0756], EDWARDS & 1993 [LB0758], EDWARDS & VEVERS 1975 [LB0757]). Since 1978 the Zoological Record, which started at 1865, superseded the "Nomenclator Zoologicus" and now by means of the compac disc version it is much easier to search for a taxon. However, it is nearly impossible to be complete in the coverage of new names, as already stated by WATERHOUSE (1912 [LB0947, LB0948]) in compiling "names not included in previous nomenclators". I found that about 10-20% of genus-group names and publication sources have been omitted in nomenclators. These percentages are rather usual (cp. MINELLI 1995 [EV4412: 94]), but may underline the importance of group



specialized catalogues, apart from the fact that availability had often remained unchecked.

A less frequent source of trouble results from well meant replacement of a name which, however, was not truly a homonym and thus did not require replacement, or was indeed a homonym but had already been replaced by an earlier worker. Also junior homonyms for which junior synonyms are available need not be replaced by new names. All unnecessarily proposed names fall as synonyms of the nomenclaturally correct names. But they serve as a source of confusion and as a continuing threat, even though an illegitimate one, to the stability of the proper generic names for the ciliates involved (cp. CORLISS 1960 [COR036: 271]).

Matters of orthography are quite underestimated in ciliatological literature. In numerous cases incorrect original spellings involved diacritical, accents or other similar marks that are not allowed in the usually Latin or latinized zoological names (Arts. 27, 32.5; Code; see chapters 2, 3.2.1). In general, these are just to be dropped in correction, leaving the vowel, or consonant, in a purely latinized form. For example, "Pérezella" (e.g. in KAHL 1934 [KAH017: 172]) becomes *Perezella*, *Hoplitophrya* "géorgévitchi" becomes *H. georgevitchi*. The German umlaut is a special case. If a name is based on a German word and published before 1985, the umlaut is deleted and an "e" is inserted after the vowel (Art. 32.5.2; Code). This affects a number of names in the protozoological literature in general; for instance, all those at familial, generic, or specific levels composed in honor of BÜTSCHLI, LIEBERKÜHN, and MÜLLER. However, "Nüchterleinella", published after 1985, became *Nuchterleinella*. Note that in all these cases the emended name prevails credited to the original author (see also chapter 1.3.2.2).

The frequent lack of attempt at accuracy in subsequent citation of names wasted a lot of time, because about 400 orthographic variants had to be checked. This was particularly tiresome if spellings are quite remote from the original, e.g. "Aadayiella", "Apiretta", "Graterella", "Grumberella", "Hetteria", "Keratona", "Puraropeltus", "Stylometra" (use Appendix 4 to locate them). Incorrect subsequent spellings are strictly speaking unavailable names, however, may be listed in synonymies for bibliographic and historical reasons, as was done with generic misspellings in the classic book of CORLISS (1979 [COR085]). Unfortunately, such incorrect spellings, e.g. *Tetrahymenia* or *Leucopera*, have even been placed on the "Official Index of Rejected and Invalid Generic Names in Zoology", while others have been enhanced to unjustified emendations, e.g. *Tetrahymen* or *Leucophrys* (I.C.Z.N. 1970 [CI1520: 34, 35]; see Appendix 3). The complicated nomenclatural availability of scientific names, also addressed in chapter 1.3.2.8, should give rise to a greater deal of care in spelling. Here incorrect spellings are weeded out to get a more realistic proportion of generic synonyms in ciliates.

The placement of a synonymous generic name in the location reserved by law (Art. 6; Code) for the subgeneric name (if one exists) is, unfortunately, a habit not only found, for example in KAHL'S works, but until recently in CAREY (1992 [LB0008]).

### 3.1.2 The Indispensable Principle of Typification

The principle of typification means that each nominal taxon in the family, genus or species groups has actually or potentially a name-bearing type. The fixation of the name-bearing type of a nominal taxon provides the objective standard of reference for

the application of the name it bears (Art. 61.1; Code). In other words, the basis of any biological classification are in practice individuals. Typification links the concept of a species to concrete specimens, the concept of a genus to a definite species, and that of a family to a definite genus.

Ciliate nomenclature is considerably affected by the type concept, because numerous taxa had not been or are not typified unequivocally at present (see chapters 1.3.2.6, 3.1.3, 3.1.4, 3.4). To a minor extent there have been "objective reasons" for this longstanding unawareness: The first "International Code of Zoological Nomenclature" under the title "Règles Internationales" was published in 1905, but a complete revision of Article 30 of the "Règles" with a great improvement in its provisions on the type species of genera was only provided by the Boston Meeting of the International Commission on Zoological Nomenclature in 1907 published in the Proceedings of the Seventh International Congress of Zoology (cp. RICHTER 1948 [AEB135: 21]; MELVILLE 1995 [LB1078: 33]). However, the second edition of the International Code was only published in 1961 (cp. I.C.Z.N. 1961 [E02445]), in the meantime additional rulings were mainly treated in the "Bulletin of Zoological Nomenclature" (since 1943) and as "Opinions and Declarations of the International Commission of Zoological Nomenclature" (cp. HEMMING 1958 [LB1029]). Thus, it was not easy to become familiar with all the dispersed rules.

Fortunately in this particular respect, most ciliate genera were monotypic, viz. based on a single species, when established, thus typification had been automatically (Art. 68.3; Code). However, 56% of type species were not designated originally, which is required if there are more congeneric species (Arts. 68, 69; Code). This omission became nomenclaturally relevant according to Article 13.3 of the Code after 1930, consequently some 60 genus-group names in ciliates have been or are at present unavailable causing considerable instability in authorship and dating (see chapters 3.1.3, 3.1.4, 3.4). More than two dozen subsequent designations have also to be done for genera established before 1930; they are supplemented with "no type species" in Appendix 1. The care needed in analyzing the included species is exemplified by *Morgania* KAHL 1934: Because of two included species neither designated as type, it would appear that KAHL'S generic name is unavailable (Art. 13.3; Code), but the species name *M. caryoclada* was only conditionally proposed; consequently there was only one available included species and this is type by monotypy (and the genus name is available from 1934). Thus, the provisions for the species eligible for type fixation have to be taken into consideration (Arts. 67.2, 69.2; Code).

Another obstacle is the misidentification of a type species, because according to the Code a senior synonym of the type species should not be cited as such (Art. 67.1.2 and example to Rec. 67B; Code). This results in a conflicting practical situation, when the "name carrier" or voucher of for instance *Strombidinopsis*, viz. *S. gyrans* is synonymized with *Tintinnidium semiciliatum*. In the meantime several species have been described, but in fact the genus is without type species. The Code is rather complicated and not concise in this matter, because – contrary to Article 67.1.2 mentioned above – Article 65.2.3. states that "by the discovery that the type genus was, when established, based on a type species then misidentified, the author may fix as the type species a nominal species as prescribed in Article 70.3 (i.e. the species that will, in his or her judgement, best serve stability and universality). If the threat cannot be overcome by the fixation of a type species under the provisions of Articles 11.10, 67.9, 67.13, and 70.3 the case is to be referred to the Commission for a ruling" (see

chapter 3.4). In Appendix 1 such misidentifications are supplemented with "by synonymy".

### 3.1.3 Taxonomic and Nomenclatural Authorship

One of the principal sources of confusion in past publications has been the mixture of the two interrelated but separate problems of taxonomy and nomenclature (see also 3.1.1). The nomenclatural author first published a name in a way that satisfies the criteria of availability (Art. 50.1; Code), whereas one to many taxonomists may contribute to the knowledge of a specific taxon by discovering it, describing different populations or improving its characterization by different methods. This somewhat "unfair" distinction has accompanied us from the very beginning, when HILL investigated and named *Paramecium*, but MÜLLER is credited as nomenclatural author, who simultaneously contributed to taxonomy. The distinction is obviously difficult to understand, because for instance JANKOWSKI (1997 [CI1611: 327]) rejected and incorrectly named the consequence of a changed authorship "WENZEL'S principle". However, WENZEL has "only" made available according to Article 13.3 of the Code some of the genera not typified by KAHL after 1930, therefore WENZEL became the nomenclatural author. At generic level it would be possible to cite both the taxonomic and nomenclatural author of a genus, as for instance "*Tucolesca* (TUCOLESCO, 1962) LOM in CORLISS, 1979" in WARREN (1988 [CI1431: 149]), which means that TUCOLESCO discovered the genus, but erected a homonym replaced by LOM in CORLISS. However, this mode would complicate and considerably extend citations, thus it was not followed in the present paper (see also CORLISS 1979 [COR085: 202] concerning the family level).

A further source of discrepancies in authorship are the person responsible for a name (Art. 50.1, Rec. 51E; Code), for instance BÜTSCHLI published the generic name *Gastronauta* based on notices of ENGELMANN, thus the correct authorship is ENGELMANN in BÜTSCHLI. This also concerns EHRENBERG in HEMPRICH & EHRENBERG (1831 [EHR031]; see also STAFLEU & COWAN 1976 [LB0908: 729]), BANINA in BANINA et al. (1984 [AEB550]), or different authors in CORLISS (1979 [COR085]). On the other hand, collaborators of a multi-authored work who have not had such direct responsibility for the name should not automatically be included as authors of the name (Rec. 50A; Code). Specifically, BORY'S contributions to the "Encyclopédie Méthodique" are signed unequivocally thus it is not recommended to cite the editors of the volume (cp. 1824 [PR1086]), as it was recently done for *Oxytricha*. The same principle has usually been applied for instance to taxa of BÜTSCHLI (not cited in BRONN), KAHL (not in GRIME & WAGLER or in DAHL), FOISSNER (not in COOMBS et al.) or SMALL & LYNN (not in LEE et al.).

Another problem concerning responsibility are later editions of standard literature, e.g. GMELIN (1790 [E01008]) edited LINNE'S "Systema naturae", MILNE-EDWARDS (1851 [E00678]) CUVIER'S "Le règne animal", and DESHAYES & MILNE EDWARDS (1836 [E00723]) LAMARCK'S "Histoire naturelle des animaux sans vertèbres". In these cases the editors have been considered responsible for naming, while names in the "Animalcula infusoria" (1786 [E00405]) are credited to MÜLLER, although the work was posthumously edited by FABRICIUS.

One of the most frustrating obstacles during the compilation had been the numerous absent or incomplete references, particularly to basionyms of type species. Apart from

perhaps exaggerated space restrictions of publishers, authors even don't cite own older papers (cp. *Hexotricha*, *Pachystomos*). Such ignorance of or failure to survey and cite properly the literature unnecessarily multiplies the labour of a more conscientious subsequent worker (see already CORLISS 1962 [COR115: 60]).

Articles 50 and 51, and parts of others, are concerned with the proper manner of citing the authorship of a zoological name. The authorship of emendations is also addressed in chapter 1.3.2.2. Although such citations are optional, since they do not form a part of the official name of a taxon, it is highly recommended (Rec. 51A, Appendix B; Code) that every zoological paper involving names of animals (generic or below) should include citation of the authors and dates "at least once" in the publication.

### 3.1.4 Obstacles in Dating

Many discrepancies have been found in dating of names, on the one hand they reflect failures of authors, for instance to recognize important dates of nomenclature or to consult the original sources, but on the other hand many names cannot be easily dated on the basis of information found in the publication itself. To solve particular priority problems, one may spend an inordinate amount of time researching the date of two or a few publications (see also ESCHMEYER 1990 [LB0980: 651]). In any case, Articles 21 and 22 of the Code deal with the date of publications. Frequent sources of discrepancies in dating are treated in some detail below (see already CORLISS 1957 [COR023: 132], 1962 [COR039: 320], 1977 [COR189: 112]):

(1) Ignorance of exact dates or specified periods of time of nomenclatural importance, e.g. the "year zero" 1758 of zoological nomenclature, when ascribing *Paramecium* to HILL 1752, but most important the 1 January 1931 requiring the designation of a type species to establish a valid genus. In other words, each new generic name must be accompanied by the definite designation of one of the included species as the type species (Art. 13; cp. chapters 1.3.2.6, 3.1.2). Otherwise the new generic name has no status in zoological nomenclature and, strictly speaking, should not be recognized at all by subsequent workers. There has been considerable laxity in publications of the past 70 years with regard to this mandatory provision.

Note that every names published after 1999, including new replacement names (nomina nova), must be explicitly indicated as intentionally new (Art. 16.1; Code). Likewise important is that every new specific and subspecific name published after 1999 must be accompanied in the original publication by the explicit fixation of a holotype, or syntypes, for the nominal taxon, and, where the holotype or syntypes are extant specimens, by a statement of intent that they will be (or are) deposited in a collection and a statement indicating the name and location of that collection (Art. 16.4; Rec. 16C; Code).

(2) An author quite often published a generic name in two or more papers of different date, each of which indicates the name as new. Such republication is a bothersome source of errors for later workers who are unaware that a supposed first publication which they have in hand is not actually the originally one. Although the names were separately published, they are identical and therefore definable as homonyms; at the same time they are objective synonyms. The earlier year must be cited in any correct listing of the full names, except it concerns unpublished or naked names according to Articles 11, 12, and 13 of the Code. The obstacle of republication burdens ciliatology from the beginning, viz. excessively by BORY, who was cited with the years 1824,

1826 or 1827 for his contributions to the "Encyclopédie Méthodique" (already lamented by EHRENBURG 1834 [EHR004: 1218]), but also by DUJARDIN and more or less recent authors, for instance FAURÉ-FREMIET and ESTEBAN & FINLAY (1994 [Z06245]). Unfortunately, in nomenclators documentation is rather sparsely concerning this respect, e.g. the nomina nuda of SCHEWIAKOFF (1892 [E00092]) are included in the "Nomenclator Zoologicus" (NEAVE 1939 [LB0751], 1939 [LB0752], 1940 [LB0753], 1940 [LB0754]), but the full paper of SCHEWIAKOFF (1893 [PR1037: 49]) was not recorded.

(3) In many early scientific societies, papers were read at meetings first, but published sometimes later, and a common mistake is to interpret the date on which a paper was read as the publication date. This concerns numerous papers of EHRENBURG and STEIN (for details see chapter 4.2).

(4) A further common wrong assumption is that all of a volume for a given year was published in that year. Frequently a journal has quarterly "parts" or issues; not infrequently, however, the last issue for a year is not published by the end of the year, but appears early in the succeeding year (carrying the date of the previous year on the cover). For many publications which could not be dated on the basis of information found in the book or journal itself, use has been made of other sources, for instance the "Nomenclator Zoologicus" and the work on "Taxonomic literature" of STAFLEU & COWAN (1976 [LB0908]). In the references chapter 4.2, one may find many of these date sources listed in brackets with individual references.

To avoid such discrepancies "an editor or publisher should state the day of publication of a work, and of each component part of a serial publication, and of any work issued in parts. In a volume made up of parts brought out separately, the day of publication of each part, and the exact pages, plates, maps, etc. that constitute it, should be specified" (Rec. 21C; Code). Separates should contain a complete bibliographic citation of the original work including its date of publication (Rec. 21E; Code).

(5) If separate parts of a work were actually published at different known times then these dates are to be used and not the range given as such (Art. 21.5; Code). This mainly concerns the treatises of CLAPARÈDE & LACHMANN (1858 [E00117], 1859 [E00118], 1861 [E02071]), FROMENTEL (1874-1876, [E00689] 1874: p. I-VIII+1-88, 1875: p. 89-192, 1876: p. 193-364), KENT (1881 [E00073]: p. 433-720; 1882 [E00074]: p. 721-913), BÜTSCHLI (1887-1889, [LB0896] 1887: p. 1089-1280; 1888: p. 1281-1584; 1889: p. 1585-2035), and KAHL (1930-35: 1930 [KAH008]: p. 1-180, 1931 [KAH012]: p. 181-398, 1932 [KAH014]: p. 399-650, 1935 [KAH019]: p. 651-886). Misleading dates often occur when plates and text are published separately and at different dates, e.g. those of the "Symbolae physicae" in 1828 and 1831, respectively (cp. HEMPRICH & EHRENBURG 1831 [EHR031]).

(6) In former times separates had sometimes been provided to the author in advance of publication, and if it can be shown that the separates were distributed earlier, the date of that distribution is the publication date (Art. 21.8; Code), for instance EHRENBURG (1830 [EHR001], 1831 [EHR002], [1834] [EHR003], 1835 [EHR005]) and GRANDORI & GRANDORI (1934 [BM0390]). Note that after 1999 the advance distribution of separates no longer advance the date of publication of the work, whereas preprints imprinted with their own date of publication are allowed (Art. 21.8; Code). Consequently, an editor or publisher should ensure that each separate contains

a complete bibliographic citation of the original work (including its date of publication) and has the same pagination as that work (Rec. 21E; Code).

### 3.1.5 Ambiguous Publications

A work is to be regarded as published for the purposes of zoological nomenclature if it complies with the requirements of Article 8 and is not excluded by the provisions of Article 9 of the Code. Basically it has to be published in hard copy, publicly available, and produced in sufficient copies.

Ciliate names are to a certain degree affected by discrepancies in accepting abstracts and doctoral theses (dissertations). Abstracts of articles, papers, posters, texts of lectures, and similar material are excluded when issued primarily to participants at meetings, symposia, colloquia or congresses (Art. 9.9). Doctoral or diploma theses (dissertations) are not specifically mentioned, but they usually do not fulfill the criteria of a public, permanent scientific record, obtainability, and numerous identical, durable copies (Art. 8.1; Code). However, these provisions are either ignored or interpreted differently not only by ciliatologists but also in nomenclators and the Zoological Record. For instance, several names although strictly speaking contained in an unpublished work, have been recorded in the nomenclators or the Zoological Record, e.g. *Protobalantidium* (ABÉ 1927 [E00411]), *Cryptocaryon* (BROWN 1951 [E00191]), *Operculigera* (KANE 1969 [E00255]), and *Spirocorys* (WOLSKA 1969 [E00381]). The abstract on *Plesiostrichopus* of FAURÉ-FREMIET (1964 [CI1544]) was included, while the full paper (cp. 1965 [E00203]) was not. The (doctoral) thesis, e.g. of GROLIÈRE 1976, was recorded in the Zoological Record (CD-version), while those of DRAGESCO (1958) [E00554], BAUER (1978 [E00402]), DEROUX (1978 [E00493]), HEMBERGER (1982 [CI1207]), and NGASSAM (1983 [E02229]) were not.

In several cases both, the abstract and the often differently authored and dated full paper were included in nomenclators, particularly by EDWARDS & TOBIAS (1993 [LB0758]); ROQUE & PUYTORAC (1966 [CI1551] / 1968 [CI1430]); PUYTORAC & DRAGESCO (1968 [E00609]) / PUYTORAC & DRAGESCO (1969 [CI1234]), PUYTORAC (1969 [E00086]); GROLIÈRE et al. (1978 [E00809]) / GROLIÈRE et al. 1980 [E00565]). Partially considered as available are names of JANKOWSKI (1967 [CI1569], 1975 [E00250]).

On the other hand, names and publications neither recorded in the Zoological Record nor the nomenclators and in my opinion unpublished, have been considered as available by later authors, e.g. *Repoma* of NOVOTNY (1970 [E00033]), *Dissothigma* or *Enigmotoma* of JANKOWSKI (1976 [CI1412]), and *Naxella*, *Rhinakis*, and *Zosterograptus* of FRYD-VERSAVEL et al. (1980 [E00560]).

In addition to the theses cited above, the following papers should in my opinion be considered as unpublished according to Articles 8 and 9 of the Code: PUYTORAC & DRAGESCO (1968 [E00609]); DAS et al. (1969 [E00543: 256]); BANINA (1976 [E00176]); JANKOWSKI (1976 [CI1411, CI1412], 1986 [CI1574, CI1571, CI1570]).

To minimize these ambiguities in future, I cite two recommendations of the Code concerning wide dissemination (1) and inclusion of disclaimers (2): (1) Authors have a responsibility to ensure that new scientific names, nomenclatural acts, and information likely to affect nomenclature are made widely known. This responsibility is most easily discharged by publication in appropriate scientific journals or well-known monographic series and by ensuring that new names proposed by them are

entered into the Zoological Record. This is most easily achieved by sending a copy of the work to the Zoological Record, published by BIOSIS U.K. (Rec. 8A). (2) Editors and publishers should avoid including new names and the information that might appear to make the names available, or new nomenclatural acts, in works that are not issued for public and permanent scientific record (such as pre-symposium abstracts, or notices of papers to be delivered at a meeting). They should ensure that such documents contain a disclaimer (see Art. 8.2), so that new names published for the first time therein do not enter zoological nomenclature unintentionally and pre-empt intended publication in another work (Rec. 8E.)

Only two publications concerning ciliate generic names have been regulated by the I.C.Z.N. (Art. 81.1; Code): SCOPOLI'S (1777 [E01000]) "Introductio ad Historiam Naturalem" was accepted for nomenclatural purposes and placed on the Official List, while OKEN'S (1815 [E00133]) "Lehrbuch der Naturgeschichte", Volume 3 (Zoology), is rejected for nomenclatural purposes because the author did not apply the principles of binominal nomenclature, and the work is placed on the Official Index (cp. I.C.Z.N. 1956 [EV0812]; MELVILLE & SMITH 1987 [EV0797: 316, 319]). This however remains without effect on ciliate genera: *Encheleis* SCOPOLI 1777 is an invalid superfluous substitute name, whereas *Stentor* OKEN 1815 has been conserved.

### 3.2 Practical Advice to the Formation and Treatment of Names

The concept of having no two scientific names spelled identically in zoology, i.e. the principle of homonym, will become increasingly important as taxonomic information is computerized and electronic literature searches become widespread; such searches will also be aided if the names are unique.

The "International Code of Zoological Nomenclature" (I.C.Z.N. 1999 [LB1077]) gives many detailed requirements concerning the formation of names and the emendation (correction) of names originally formed improperly (Arts. 25-34; Code). Some basic rules are so often violated that they are repeated here: It is suggested in the Code (Rec. 25B, 30B, Appendix B; Code) that in forming a new scientific name, an author should state its derivation (etymology), and in the case of a genus-group name its gender for agreeing adjectival endings of specific names and determining the spelling of the family-group name based on the genus. The Code moreover recommends to authors that all new names are brought to the attention of the Zoological Record by sending separates.

It is however not always easy to use the Code and the formal system of naming animals appears sometimes tiresome, confusing, and even exasperating to the working ciliatologist (including myself). So, the information below is designed to help in the formation of correct scientific names.

#### 3.2.1 Orthography and Derivation of Names

Scientific names of organisms are words treated grammatically as Latin regardless of their origin. When generic or specific names are formed from two words of Latin or Greek, any Greek words are first latinized, i.e. the word is transliterated into the Latin alphabet. When two words are to be joined, the Latin ending of the preceding word is dropped. If the second word begins with a vowel, the two words are simply concatenated. For instance, *fuscus* and *azureus* can be combined to give *fuscazureus*.

However, if the second word begins with a consonant, a connecting vowel is required. That connecting vowel should be an *-i-* if the first word is Latin, and an *-o-* if the first word is Greek, e.g. *Cavichona* and *Ascobius*, respectively.

Most ciliate names that are not derived from ancient Greek or Latin words, are derived from some modern language. If modern names contain letters not included in the Latin alphabet they must be latinized. The first step is to remove diacritical and other marks as follows (Arts. 11.2, 27; Code): 1) ä, ö, and ü become ae, oe, and ue, respectively; 2) è, é, and ê become e; 3) ø, æ, and å become oe, ae, and aa respectively; 4) ß becomes ss. Often, taxonomic names are based on modern personal names or place names (see below).

The name of a genus is a substantive, or an adjective used as a substantive, in the singular number and written with an initial capital letter. The name is treated as a Latin substantive. Generic names derived from personal names are formed by latinizing the personal names either directly or as a diminutive by adding an *-a*, *-ia* or *-ella*, e.g. *Geleia*, *Tucolesca*, *Buetschlia*, *Anigsteinia*, *Bardeliella*, *Buetschliella*.

The name of a species may be

(1) an adjective or participle that agrees in gender with the noun (genus name) it modifies. The two most common kinds of Latin adjectives, which are gender specific, have the endings *-us*, *-a*, *-um* and *-is*, *-is*, *-e* for masculine, feminine or neuter gender, respectively.

(2) a substantive (noun) in apposition. This requires the nominative case. An example of a noun in apposition is "the Conquerer" in "William the Conquerer" (as "William, called the Conquerer." Note that the noun in apposition must refer directly to the species, not to its source or a character of the species: *Trachelolophos gigas* (*Trachelolophos*, the giant) is correct, whereas *Carchesium polypina* (*Carchesium*, the polyp) is not correct and is corrected to *Carchesium polypinum* (*Carchesium* of or from a polyp).

(3) a substantive (noun) indicating possession, in the genitive case, e.g., *Prorodonopsis coli* (*Prorodonopsis* of the colon).

A species-group name formed from a personal name may also be either a noun in the genitive case, which implies "of" the person, or a noun in apposition (in the nominative case), or an adjective, which implies "pertaining to" or "belonging to" the person (Art. 31.1; Code). A species-group name, if a noun in the genitive case (see Article 11.9.1.3) formed directly from a modern personal name, is to be formed by adding to the stem of that name *-i* if the personal name is that of a man, e.g. *Afrothrix darbyshirei*, *Amplectellopsis biedermani*, *Ancystropodium maupasi*, and *-ae* if of a woman (Art. 31.1.2; Code), e.g. *Acaryophrya helenae*, *Anglasia magdalenae*. A noun in apposition is for example *Paradiophrys irmgard*, such usage should however be avoided (Rec. 31A; Code).

Specific names derived from names of localities are used to indicate the place of origin or occurrence of organisms. They are constructed by adding to the locality's name the Latin suffix that means "from": *-ensis* (masculine or feminine) or *-ense* (neuter) in agreement with the gender of the genus name, e.g. *Beckmania baikalensis*, *Chilophrya utahensis* and *Metastomum ochridense*, *Spetazon australiense*, respectively. Only if the name of the locality ends on *-a* or *-e*, these vowels are



dropped before the addition of -ensis/-ense. Examples: *Bryophrya bavariensis* (from Bavaria). If a regular Latin adjective exists for a place name, it can be used as an adjectival specific name. For instance: *europaeus* (-a, -um; corresponding to masculine, feminine, neuter gender), *africanus*, *asiaticus*, *americanus*, *austriacus*, *italicus*, *romanus* (Rome), *germanicus*, *britannicus*, *gallicus*, *polonicus*, *hungaricus*, *graecus*, *hispanicus*, *rhenanus* (Rhine), *bavaricus*, *bohemicus*, *mediterraneus*, etc.

It is desirable to avoid unnecessary complicated names, recall that *Ichthyophthirius* is understandably shortened to the vernacular common name "Ichthy". Likewise, it may lead to some confusion if two ciliate names are very similar, but taxonomically different, for instance *Cothurnopsis* ENTZ 1884 and *Cothurniopsis* STOKES 1893 or *Paractedectoma* SMALL & LYNN 1985 and *Paractedoctema* SONG & WILBERT 2000.

The next step is to select the proper ending of the name. The rules are different for generic (and subgeneric) names, which are used in the form of substantives (nouns), than for species (and subspecies) names, which are used as modifiers of their genus name.

### 3.2.2 Gender of Names

The gender of genus-group names is discussed in Article 30 of the Code; this subject is important in that species names under certain circumstances must agree in gender with the genus.

Generic or subgeneric names which are modern compounds from two or more Latin or Greek words take the gender of the last component of the compound word. A genus name that ends in a latinized Greek word takes the gender normally appropriate to the Latin termination. The generic or subgeneric names formed from personal names are always feminine in gender, no matter whether the person is a man or a woman.

Numerous examples given in Article 30.1 serve to fix the gender of a number of suffixes. But some words are variable in gender and have to be treated as masculine (Art. 30.1.4.2; Code), unless the author establishing the genus name stated that it is feminine or treated it as feminine (as judged by the combination with the species). What is even more distressing is that there is no handy set of easy rules which will reveal gender. For nouns, only standard Greek or Latin dictionaries can resolve the problem. Beware, a genus ending in -us is not necessarily masculine, nor is -a necessarily feminine. As an example *Blepharisma* is neuter, so *B. hyalinum* is correct, not *B. hyalina*. It is however not safe that all nouns ending in "-ma" are neuter, although many, perhaps most, of them are. Here again, one must look it up!

A species name – if it is a Latin adjective or participle in the nominative singular – must agree in gender with the generic name with which it is at any time combined, and its termination must be changed according to Latin inflection (Art. 31.2; Code). In other words, if an adjectival species name is first described in a masculine genus, the species name will be, for example, *acuminatus* (tapered). If the species is then classified in a feminine genus, the name changes to *acuminata*, and if it is put into a neuter genus, the name becomes *acuminatum*. The respective endings for the second important declension are for instance *intestinalis* (masculine, feminine) and *intestinalis* (neuter). For adjectives, one must therefore know to what declension the adjectives belongs, before the ending will help. To make matters worse, some adjectives will have the same form (in the nominative at least) for all three genders,

Latin *impar* (unequal) for example. If the species name is not a Latin or latinized word, it is to be treated as undeclinable and the original spelling is to be preserved regardless of the gender of the genus (Art. 31.2.3; Code).

Since gender is only given by few authors, I provide them for available and valid generic names (Appendix 1).

### 3.3 Some Results Worthy of Notice

The formal nomenclatural history of ciliatology spans 233 years between 1767 and 2000. With respect to zoological nomenclature, which started at 1758, there are 82 years without a single generic name established, mostly falling in the eighteenth and nineteenth century, only two years, namely 1916 and 1944, are concerned in the twentieth century. Thus, publication activities on a basic category of ciliate research are concentrated in only 151 years.

In the nineteenth century maximum numbers of valid genera were established in 1859 (24), in 1893 (13), in 1841 (11), and in 1881 (10); in the twentieth century peaks were in 1978 (47), in 1985 (42), and in 1973 (39). Interestingly the numbers of newly established valid genera was the same, viz. 168, in the periods 1911 to 1940 and 1941 to 1970, but increased to 249 in the past thirty years indicating that many ciliate taxa remain to be discovered (cp. FOISSNER 1998 [FOI421], 1999 [FOI430], 2000 [FOI463]).

In sum 439 persons (only referring to the senior author) have created 2083 available and 123 unavailable (omitting about 400 misspellings) generic names in 1058 publications. However, about one third of these primary references include only unavailable or invalid taxa, while the 1484 valid genera are originally described in 753 publications.

Maxima of publications (as senior authors) establishing valid generic names have been produced by FOISSNER (50), JANKOWSKI (35), and CHATTON (25); between 10 and 20 papers have been published by PUYTORAC (17), KAHL (13), FAURÉ-FREMIET (12), RAABE (12), and STOKES (11).

The highest number of new generic names per publication was created by JANKOWSKI in 1981, viz. 28, and by CORLISS in 1960, viz. 26. However, the vast majority, viz. 71%, of publications embraces a single new generic name, about 14% two, and 14% between three and 20.

The largest numbers of valid generic names have been created (as senior author) by JANKOWSKI (201), FOISSNER (99), and KAHL (57). The corresponding values on invalid genera are JANKOWSKI (142), KAHL (33), and DUJARDIN (23), all other produced less than 20.

2701 names are treated in this compilation, but 495 are excluded from the main part (chapter 2) for various reasons, e.g. because they are vernacular names, incorrect subsequent spellings or misclassified ciliates.

2206 taxa are listed alphabetically in the main part (chapter 2) including 123 (= 5.6%) unavailable names, which are however partially in current use: 11 names have been very likely not intended to be used as new genus, viz. "Actinia", "Diplagiotricha", "Hydranthosoma", "Meleagris", "Pseudodileptus", "Pseudospathidium",

"Rhabdophorellopsis", "Spirotricha", "Styx", "Trachelina", "Vorticellida". 112 generic names are nomenclaturally unavailable according to Articles 1.3.7, 9.9, 12.1, 13.1 or 13.3 of the Code. These may be validated, viz. be reinstated as new genus to avoid an inflation of names. About 70 of the unavailable nomina nuda have been already validated, but may cause further instability, because many authors are not aware of the difference between nomenclatural and taxonomic author (see chapter 3.1.3).

Of the 2083 available genera, 1484 are considered as valid (including 41 subgenera), whereas 28.7%, viz. 599 (excluding the numerous republished taxa), names are treated as invalid. Only 20% of all entries are without any comment.

18 junior homonyms were established within the ciliates, about 200 concerned non-ciliates, of these about 160 names have been replaced and are thus objective synonyms. 33 junior homonyms are not replaced because they are considered as subjectiv synonyms; three are very likely nomina oblita. If these genera are resurrected, new names are necessary. About 400 names are considered as junior subjective synonyms, thus the taxonomical synonymy rate of ciliate genera is about 19%, while the nomenclatural rate is about 10%. Recall that we cannot sum up these and the values below because a taxon may be simultaneously a junior homonym and synonym and/or moreover considered as nomen dubium or nomen oblitum by later authors.

27 names are suggested as nomina dubia, viz. *Arachnidiopsis* PENARD 1918, *Ballodora* DOGIEL & FURSENKO 1921, *Campbelliella* RADOIČIĆ 1959, *Choanostoma* WANG 1931, *Ciliospina* LEEGAARD 1915, *Cinetoconia* RENAULT & ROCHE 1898, *Daturella* KOFOID & CAMPBELL 1929, *Euploia* LOHMANN 1920, *Hadziina* RADOIČIĆ 1969, *Halterioforma* HORVÁTH 1956, *Hemistomiosphaera* NOWAK 1968, *Isselina* CÉPÈDE 1910, *Mastigostephanus* LEVANDER 1894, *Mastigothrix* POCHE 1913, *Mycodinium* AWERINZEW 1916, *Octocirrus* MADHAVA RAO 1928, *Parastomiosphaera* NOWAK 1968, *Patelloides* LEISCHNER 1959, *Proboscidium* MEUNIER 1910, *Quasillagilis* BUSCH 1920, *Rondacineta* JANKOWSKI 1978, *Sigalasia* DELPHY 1938, *Syringopharynx* COLLIN 1915, *Tricodon* DUMAS 1930, *Triodonta* BORY 1824, *Trichogaster* STERKI 1878, *Zetella* RADOIČIĆ 1965.

149 names are probably nomina oblita, 11 of them not recorded in CORLISS (1979 [COR085]), viz. *Acinetactis* STOKES 1886, *Apionidium* PERTY 1852, *Colobidium* PERTY 1852, *Dendrophrya* SAND 1896, *Heliocometes* SAND 1899, *Mesotricha* KENT 1882, *Pistillarina* DUMAS 1929, *Planariola* DUJARDIN 1841, *Siagontherium* PERTY 1852, *Stephanidina* EICHWALD 1852, *Stomophyllum* BÜTSCHLI 1889.

The data on 1443 unambiguous, i.e. nomenclaturally available and taxonomically valid, ciliate genera are summarized in Appendix 1. This compilation may facilitate an overview on a basic taxonomic category of ciliatology, because it lists (1) the type species of genera, which are the "backbone" of all higher categories; moreover a lack of designation or synonymy is mentioned (chapter 3.4); (2) original and often combining authorship of the type species (but note that reference to basionyms was often fragmentary); (3) the gender of the generic name for combining adjectival specific names; (4) the quality of the genus description deduced from redescrptions of the type species or all congeneric species, and the number of records in the Zoological Record, which are shown in column five. Column four roughly indicates the main habitats.

The vast majority of ciliate genera has feminine gender, viz. 65%, neuter are 19%, and masculine 16%. 21% of the genera can be considered as excellently and 35% as well described. Thus, a large proportion, viz. 44%, of genera is poorly known. This is also reflected by the Zoological Record where 26% of the genera have not a single record since 1978, i.e. for more than 20 years; 68% have 2-10 records, while only 6% have more. Eight of the 1443 valid genera are recorded more than hundred times: *Dileptus*, *Vorticella*, *Colpoda*, *Ichthyophthirius*, *Stylonychia*, and *Euplotes*. *Paramecium*, the most popularly known ciliate, and *Tetrahymena* are the generic "flagships" of ciliates exceeding more than 2000 records. Most ciliate genera, viz. 58%, occur in marine or freshwater habitats, 29% are (mostly endo)symbiotic, 7% are likely autochthonous soil inhabitants, and 6% have fossil records. The last value is quite doubtful, because many microfossils cannot be assigned unequivocally to a certain protistan phylum (GRÜN personal communication). 28 valid genera have no type species at present and about 39% of type species had been described in another generic combination, viz. were transferred later.

The subgenus is perhaps a notably neglected rank in ciliatology, because only 21 (= 1.4%) are nominotypical subgenera, i.e. contain the type species of the nominal genus. Their subgenera, viz. 41, mostly tintinnids are listed in Appendix 2.

13 ciliate genera have been placed on the Official List of Generic Names in Zoology, while 20 have been included on the Official Index of Rejected and Invalid Generic Names in Zoology. About 25 specific names have been treated by the International Commission on Zoological Nomenclature (see Appendix 3).

67% of the genera have been monotypic (one species only; either fixed originally or automatically) at the time of their original description. This value is rather similar to those found by CORLISS (1960 [COR036: 273], 1977 [COR189: 110]). About 44% were designated by original designation, only 5% had been subsequently fixed.

The maximum number of basionyms has been found in *Acineta*, where 32 species became type species of other genera; the next are *Tintinnus* with 27, and *Trichoda* with 16 species.

The favorite of specific names concerning type species is "terricola", which can be found in 13 genera; "intestinalis" in 9, "marina", "pelagica", and "vorax" in 8 each, "gracilis" and "viridis" in 7 each, and "acuminata" and "elegans" in 6 each. About 14.5% of specific names occur in 2-3 genera, while 85.5% are unique.

Maximum numbers of incorrect subsequent spellings have been found for *Stylonychia*, viz. 16, *Cyttarocylis* (12), and *Onychodromus* (12).

Seven different authorships have been recorded for *Discocephalus*.

### 3.4 Summary of Nomenclatural Matters

The following 16 new generic names are introduced to replace junior homonyms (with substituted name to the right): *Arachnodinella* / *Arachnodinium* VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1987; *Borzaites* GRÜN & BLAU / *Borzaiella* GRÜN & BLAU 1996; *Causella* / *Causia* KOSHEVOJ 1987; *Cubanites* / *Cubanella* POP 1997; *Cylindriconella* / *Cylindrella* POP 1997; *Helellophrya* / *Helella* KACZANOWSKI 1961; *Hsiungella* IMAI / *Hsiungia* IMAI 1988; *Kotinia* OBOLKINA / *Alexandria* OBOLKINA

1995; *Microcetella* / *Microcetus* ORPIN & MATHIESEN 1986; *Ollella* / *Olla* KOSHEVOJ 1987; *Parametopidium* / *Parametopus* GROLIÈRE, PUYTORAC & GRAIN 1980; *Protospirella* / *Protospira* RAABE 1968; *Pterodiniella* / *Pterodinium* LATTEUR & DARTEVELLE 1971; *Racovitzaiella* / *Racovitzaia* TUCOLESCO 1962; *Rhabdothoracella* / *Rhabdothorax* LATTEUR & BOUSEZ 1970; *Rossielella* / *Rossiella* MAKARIEVA 1979.

Five nomina nuda according to Article 13.3 of the Code, viz. *Akidodes* LOM, *Albaretia* AFFA'A, *Biggaria*, *Mesanophrys* SMALL & LYNN, and *Pallitrichodina* VAN AS & BASSON, are validated herein by designating a the type species.

The following species are newly combined in the present paper according to Articles 13.3 or 61.4 of the Code: *Akidodes symmetricus* (LOM 1959) LOM, *Albaretia terroni* (AFFA'A 1986) AFFA'A, *Arachnodinella noveni* (VAN HOVEN, GILCHRIST & HAMILTON-AT 1987), *Biggaria bermudensis* (BIGGAR & WENRICH 1932), *Borzaites atava* (GRÜN & BLAU 1996) GRÜN & BLAU, *Causella shtekhovicensis* (KOSHEVOJ 1987), *Cubanites cristobalensis* (FURRAZOLA-BERMÚDEZ 1965), *Cylindriconeella insueta* (REHÁNEK 1986), *Helellophrya rhizodrili* (KACZANOWSKI 1961), *Hsiungella triciliata* (HSIUNG 1932) IMAI, *Kotinia arcuata* (OBOLKINA 1995) OBOLKINA, *Mesanophrys carcini* (GROLIÈRE & LEGLISE 1977) SMALL & LYNN, *Microcetella lappus* (ORPIN & MATHIESEN 1986), *Ollella karlovensis* (KOSHEVOJ 1987), *Pallitrichodina rogenae* (VAN AS & BASSON 1993) VAN AS & BASSON, *Parametopidium circumlabens* (BIGGAR & WENRICH 1932), *Protospirella mazurica* (RAABE 1968), *Pterodiniella microlithovorax* (LATTEUR & DARTEVELLE 1971), *Racovitzaiella paradoxa* (TUCOLESCO 1962), *Rhabdothoracella macrostegon* (LATTEUR & BOUSEZ 1970), *Rossielella tintinnabulum* (MAKARIEVA 1979).

The gender ending of 47 specific names has been corrected: *Actinorhabdos trichocystifera*, *Allantosoma intestinale*, *Allosphaerium convexum*, *Anthacineta craterella*, *Baikalothigma viride*, *Brandtiella palliata*, *Buschiella subantarctica*, *Coelothigma canale*, *Condylostoma patense*, *Coniculostomum monilatum*, *Cossothigma dubium*, *Curimostoma renale*, *Dissothigma saprophilum*, *Fenchelia crassa*, *Holocoma primigenia*, *Lecanodiscus longus*, *Microchoanostoma enigmaticum*, *Monilicaryon monilatum*, *Monintranstylum rotundum*, *Monodontophrya longissima*, *Mylestoma bipartitum*, *Ophryocephalus capitatus*, *Ophryoglena citrea*, *Opisthostomatella bengalensis*, *Palmarella salina*, *Papillorhabdos multinucleata*, *Paraclathrostoma marinum*, *Parazoothamnium stenoticum*, *Pedohymena australiensis*, *Pelagovasicola cinctus*, *Physalophrya spumosa*, *Predurostyla arenaria*, *Procondylostoma ancestrale*, *Protohallia uncinata*, *Pseudomonilicaryon gracile*, *Rossonophrys vasta*, *Schizactinia multiramosa*, *Stenotricha arenicola*, *Stylocometes digitatus*, *Stylophryodendron roscoffense*, *Talitrochilodon hyalinus*, *Telotrochidium crateriforme*, *Trochochilodon flavus*, *Uronema marinum*, *Urosoma caudatum*, *Urostrongylum contortum*, *Velistoma echinometre*.

For 28 genera established before 1930 and currently used, type species remain to be designated to my knowledge: *Anoplodinium*, *Anoplophrya*, *Baikalophrya*, *Campanella*, *Chromidina*, *Collinia*, *Cometodendron*, *Enchelyodon*, *Endosphaera*, *Ephelota*, *Laboea*, *Lagotia*, *Licnophora*, *Litosolenius*, *Lohmanniella*, *Meseres*, *Microregma*, *Opalinopsis*, *Parafolliculina*, *Pelatractus*, *Phialina*, *Pseuduronema*, *Pyxicola*, *Radiophrya*, *Rhabdostyla*, *Sonderia*, *Strombidinopsis*, *Stylophrya*.

For 20 genera no type species was designated after 1931, thus they are unavailable nomina nuda according to Article 13.3 of the Code. Although some of them are in current use, they need to be validated in the course of a genus revision. At best they are reinstated as new genus to avoid an inflation of names: "Atriofolliculina", "Balanonema", "Branchioecetes", "Diafolliculina", "Folliculinopsis", "Halofolliculina", "Lubetiella", "Magnifolliculina", "Metaradiophrya", "Nathella", "Orthotrochilia", "Parablepharisma", "Paracoelophrya", "Paralembus", "Parasonderia", "Paratintinnina", "Pseudocarchesium", "Spelaeonecta", "Splitofolliculina", "Trochilioides". About 90 names do not fulfill the criteria of publication or availability, mainly they are without description (Arts. 9, 12, 13; Code).

Note that 29 generic names unavailable due to Article 13.3 of the Code have been validated by later authors, thus authorship changed as follows:

*Albaretia* AFFA'A in AESCHT 2001 instead of AFFA'A 1986

*Akidodes* LOM in AESCHT 2001 instead of LOM 1959

*Bakuella* JANKOWSKI 1979 instead of AGAMALIEV & ALEKPEROV 1976

*Balladynella* JANKOWSKI 1979 instead of STILLER 1974

*Biggaria* AESCHT 2001 instead of KAHL 1934

*Bryophrya* WENZEL 1953 instead of KAHL 1931

*Chlamydonella* PETZ, SONG & WILBERT 1995 instead of DEROUX 1970

*Corynophrya* CURDS 1987 instead of KAHL 1934

*Favelloides* THALMANN 1942 instead of COLOM 1939

*Geleia* FOISSNER 1998 instead of KAHL 1933

*Haplocaulus* WARREN 1988 instead of PRECHT 1935

*Klonostricha* JANKOWSKI 1979 instead of VUXANOVICI 1962

*Lynchella* JANKOWSKI 1968 instead of KAHL 1933

*Manuelophrya* JANKOWSKI 1997 instead of MATTHES 1988

*Mesanophrys* SMALL & LYNN in AESCHT 2001 instead of SMALL & LYNN 1985

*Micrundella* LOEBLICH & TAPPAN 1968 instead of BUSCH 1949

*Monintranstylum* JANKOWSKI 1993 instead of BANINA 1977

*Myoschiston* JANKOWSKI 1985 instead of PRECHT 1935

*Nassulopsis* FOISSNER, BERGER & KOHMANN 1994 instead of FAURÉ-FREMIET 1959

*Orbopercularia* GUHL 1979 instead of LUST 1950

*Pallitrichodina* VAN AS & BASSON in AESCHT 2001 instead of VAN AS & BASSON 1993

*Paraholosticha* WENZEL 1953 instead of KAHL 1932

*Platynematum* FOISSNER, BERGER & KOHMANN 1994 instead of KAHL 1931

*Protospathidium* FOISSNER 1984 instead of DRAGESCO & DRAGESCO-KERNÉIS 1979

*Remanella* FOISSNER 1996 instead of KAHL 1933

*Rostrophrya* FOISSNER 1993 instead of NJINÉ 1979

*Trachelostyla* BORROR 1972 instead of KAHL 1932

*Tripartiella* RAABE 1963 instead of LOM 1959 erledigt

*Urocyclon* SONG & WILBERT 2001 instead of SMALL & LYNN 1985

Typification needs further investigations due to a synonymization of the type species either (1) with a congeneric species possibly not eligible for type fixation or (2) a

species of another genus leaving the original species without type. Genera of the first category mentioned are *Cohnilembus*, *Dexiotricha*, *Epiclintes*, *Heliophrya*, *Histiculus*, *Juxtaradiophrya*, *Kahlilembus*, *Lepidotrachelophyllum*, *Metopus*, *Obertrumia*, *Opisthotrichum*, *Pleuronema*, *Pseudocohnilembus*, *Trichodinella*, *Uroleptus*, *Urosoma*, *Vampyrophrya*; those of the second are *Diophrys*, *Lernaeophrya*, *Periacineta*, *Psammomitra*, *Scopulata*, *Strombidinopsis*, *Testudinicola*, *Urospinula*.

The nomenclatural status of the following genera in current use has to be clarified at best by the International Commission on Zoological Nomenclature due to probably unused senior homonyms: *Enchelydium*, *Opisthonecta*, and *Urceolaria*.

Reversal of precedence was suggested, but not formally requested of the Commission for five generic names according to Article 23.9 of the Code (unused senior name to the right): either in the former literature, viz. for *Askenasia* BLOCHMANN 1895 / *Stephanidina* EICHWALD 1852 and *Cohnilembus* KAHL 1933 / *Sparotricha* ENTZ 1879, or in the present paper, viz. for *Conidophrys* CHATTON & LWOFF 1934 / *Mycodinium* AWERINTSEV 1916, *Litonotus* WRZEŚNIEWSKI 1870 / *Gastrotricha* WRZEŚNIEWSKI 1866, and *Stylonychia* EHRENBERG 1830 / *Mystacodella* BORY 1824.

24 names are objective synonyms – often unrecognized – due to the same name-bearing type (Art. 61.3.3; Code; valid senior name to the left):

*Abathostoma* BERGER 1994 = *Echinocyclus* JANKOWSKI 1980

*Craspedonotus* KAHL 1926 = *Craspedonotana* STRAND 1928 = *Homalozoon* STOKES 1890

*Cyrtostomum* STEIN 1859 = *Frontonia* EHRENBERG 1838

*Digitiphrya* FRAIPONT 1878 = *Stylocometes* STEIN 1867

*Digitophrya* MATTHES 1988 = *Parastylophrya* JANKOWSKI 1978

*Epiorella* KOFOID & CAMPBELL 1939 = *Epiocyloides* HADA 1938

*Epitokophrya* JANKOWSKI 1978 = *Tokophrya* BÜTSCHLI 1889

*Eriocharon* ITO & IMAI 2000 = *Protocaviella* KOPPERI 1935

*Fiorentinus* JANKOWSKI 1986 = *Holophryoides* GASSOVSKY 1919

*Heterostrombidium* SONG 1999 = *Thigmostrombidium* JANKOWSKI 1978

*Laurosticha* JANKOWSKI 1979 = *Coniculostomum* NJINÉ 1979

*Leptoglena* GRASSÉ & BOISSEZON 1929 = *Protobalantidium* ABÉ 1927

*Metaxystomium* BERGER 1994 = *Velistoma* JANKOWSKI 1980

*Mimeticus* SMALL & LYNN 1985 = *Pleurofragma* JANKOWSKI 1976

*Mugardia* SMALL & LYNN 1985 = *Anophryoides* PUYTORAC & GROLIÈRE 1979

*Oldesloeria* FOISSNER 1983 = *Mimeticus* SMALL & LYNN 1985 = *Pleurofragma* JANKOWSKI 1976

*Patschia* SMALL & LYNN 1985 = *Urotrichopsis* FOISSNER 1983 = *Dissothigma* JANKOWSKI 1976

*Platophrya* GÖNNERT 1935 = *Heliophrya* SAEDELEER & TELLIER 1930

*Pseudoprorodon* BLOCHMANN 1895 = *Prorodon* EHRENBERG [1834]

*Stemacineta* JANKOWSKI 1978 = *Paracineta* COLLIN 1911

*Tapetofolliculina* ANDREWS & NELSON in HADŽI 1951 = *Pseudoparafolliculina* ANDREWS & NELSON 1942

### **3.5 Acknowledgements**

Original literature needed to proof the generic names comes from several sources. The reprint library of Wilhelm ("Willi") FOISSNER in Salzburg contains about 80% of the literature used. I express my deepest gratitude to Willi for the generosity to give me full access to his collection, but also for stimulating my interest in ciliates, and for his continuous attention throughout the work.

Thanks to Dr. Helmuth SATTMANN and Ms. SAFAR of the "Naturhistorisches Museum" and to the library staff of the "Nationalbibliothek" in Vienna. I also wish to acknowledge Waltraud FAISSNER and Franz WALZER in the library of the "Oberösterreichisches Landesmuseum", who assisted with interlibrary loans.

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## **4. Annotated Bibliography**

### **4.1 Introductory Remarks**

This section includes all literature cited. For every work a complete citation is provided as accurately as possible: all authors, their initials, full title of paper, volume number of the journal, editor(s) of books, first and end pages of the article itself, and plates if numbered separately, because they are often omitted in interlibrary loans. In contrast to an increasing number of publications, abstracts, and doctoral or diploma theses (dissertations) are included and simultaneously disclaimed in the References section, because of the nature of the present paper. Rather seldom is such a complete reference list seen in print today, allegedly for economic reasons; yet students, teachers, and researchers alike can be discouragingly frustrated (as I often was) in any conscientious attempt to use literature lists from which essential parts of the citations may be missing (see already. CORLISS 1972 [COR066: 121]).

References are arranged alphabetically by surname of the first author. References by a single author precede multi-authored works by the same senior author, regardless of date. Works by the same set of authors are listed chronologically, beginning with the earliest.

#### **4.1.1 Authorship**

Author names are standardized to facilitate computer retrieval. This particularly concerns the following names, because cyrillic characters are transliterated in very different ways: BELOKRYIS (= BIELOKRYIS), GAJEWSKAJA (= GAJEVSKAJA, GAJEWSKAYA), GASSOVSKY (= GASSOWSKY), JANKOWSKI (= YANKOVSKIY, YANKOVSKIJ). If an author's name normally has a diacritical mark, it is added to all citations of that author, for example NJINÉ has published both as NJINE and NJINÉ. Chinese names are given as they might be in an English language journal; typically



there is a family name plus two given names, and the two given names are often written together or hyphenated; SONG is given here as W.-B. SONG, although in the actual article his name may be given as WEIBO SONG, SONG WEI-BO, SONG W.-b., or SONG W. B. All names with "Da", "De", etc. are entered in one form; CUNHA da or PUYTORAC de, for example, published as PUYTORAC and as DE PUYTORAC. Likewise author's initials have been standardized, to obtain a date-ordered printout. For example, GILL published as T. GILL and T. N. GILL, and these are treated as authored by T. N. GILL, although both initials may not appear in some of his publications. Instead of the lengthy BORY de SAINT-VINCENT, I adopted the truncated name "BORY" from the botanical literature (cp. STAFLEU & COWAN 1976 [LB0908]).

#### **4.1.2 Date of Publication**

The year following the author(s) is considered as relevant, further date(s) may be found next to the volume number. Discrepancies in publication dates are frequently commented in square brackets (item 4.1.6).

#### **4.1.3 Reference Code**

Each reference has a unique six-figured code, composed of letters and numerals. This code is given in brackets and corresponds to the entry of a combination field in literature and classificatory relational databases maintained at the Upper Austrian Museum. The reference codes moreover refer to unavailable publications, partially seen in libraries outside Linz, and the reprints housed either in the collection of the Upper Austrian Museum and / or that of Wilhelm FOISSNER in Salzburg (his signatures are also included in the database).

#### **4.1.4 Title**

The title and subtitle, if present of the publication is given as published with the article; not the title as given, for example, in a table of contents (which sometimes differs). Scientific names are italicized and author names capitalized even though, because of constraints in type style, they may not have been so treated in the title as published. Titles in Hungarian, Czech, Slavic, Japanese, and Chinese are frequently also given in English, French or German. Vernacular names, such as cilies, ciliates, ciliated protozoa, are consequently written with a small initial letter.

#### **4.1.5 Journal Citations**

Journal abbreviations in general follow the fourth edition of the "World List of Scientific Periodicals", published by Butterworths, London, in 1963-1965 or the "Serial Sources for the BIOSIS Data Base" of the BioScience Information Service. Numbers of volumes, parts, and plates are given in arabic figures, the latter separated by a colon from page numbers. If a foreign word (e.g., Tab., tome, fascicle; Hrs.) corresponds to an English word, I give the English equivalent abbreviation, e.g. Pl. for plate(s) and ed(s).

#### **4.1.6 Note(s)**

Information in square brackets includes the original language of the article if not clear from the title, sources for information on the date of publication, or dates of appearance of parts of the work if it was published in sections. The entry "Not seen" indicates that the work or article has not yet been examined, usually because it was not available by interlibrary loan. The primary references introducing new generic

names are marked: two asteriks (\*\*) indicate papers including mainly valid genera, while the hash (#) indicates papers including only unavailable or invalid generic names.

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## 5. Appendices

### Appendix 1. List of Valid Type Species Including Gender of Generic Names and Some Remarks

Nomenclaturally available and taxonomically valid ciliate genera including the type species with the correct (and eventually combining) authorship, the gender of the genus, the quality of description including congeneric species (\* poor; \*\* incomplete, i.e. either life aspect or infraciliature insufficiently described; \*\*\* excellent, i.e. original description(s) and/or redescription(s) include morphometry and appropriate figures from life and silver prepared specimens; cp. FOISSNER 1998 [FOI421]), the main habitats, and the number of records concerning the genus in the Zoological Record (CD-version; years 1978-2000). Subgenera are excluded (see Appendix 2). Note that many original combinations are incompletely cited and their original descriptions could not be checked first-hand. Moreover, note that combining authors have not necessarily named the genus.

Taxon	Gender	Qual.	Hab.	ZR
<i>Acanthodiphrya almae</i> PUYTORAC & DRAGESCO 1969	f.	*	symb.	0
<i>Acanthophrya inermis</i> (STEIN 1859) HEIDENREICH 1935	f.	*	symb.	0
<i>Acanthostomella norvegica</i> (DADAY 1887) JÖRGENSEN 1927	f.	*	aqu.	2
<i>Acaryophrya helenae</i> ANDRÉ 1915	f.	**	aqu.-terr.	3
<i>Acineria incurvata</i> DUJARDIN 1841	f.	***	aqu.-terr.	3
<i>Acineta tuberosa</i> EHRENBERG [1834]	f.	***	aqu.	8
<i>Acinetides varians</i> SWARCZEWSKY 1928	m.	**	aqu.-symb.	2
<i>Acinetopsis rara</i> ROBIN 1879	f.	*	aqu.	2
<i>Acropisthium mutabile</i> PERTY 1852	n.	***	aqu.-terr.	2
<i>Actinichona gaucho</i> JANKOWSKI 1973	f.	**	aqu.-symb.	0
<i>Actinobolina radians</i> (STEIN 1867) STRAND 1928	f.	**	aqu.-terr.	2
<i>Actinobranthium salparum</i> (ENTZ 1884) JANKOWSKI 1967	n.	*	aqu.	1
<i>Actinocyathula cidaris</i> (KENT 1882) CORLISS 1960	f.	*	aqu.	1
<i>Actinorhabdos trichocystifera</i> FOISSNER 1984	f.	***	aqu.	2
<i>Aduncuperistomatus tejerai</i> AMARO & SENA 1967	m.	**	symb.	0
<i>Afrothrix darbyshirei</i> FOISSNER 1999	f.	***	terr.	1
<i>Agnathodysteria littoralis</i> DEROUX 1976	f.	**	aqu.	0
<i>Akidodes symmetricus</i> (LOM 1959) LOM (present paper)	m.	**	symb.	1
<i>Albaretia terroni</i> (AFFA'A 1986) AFFA'A (present paper)	f.	*	symb.	1
<i>Albatrossiella filigera</i> (LAACKMANN 1910) KOFOID & CAMPBELL 1929	f.	*	aqu.	1
<i>Allantosoma intestinale</i> GASOVSKY 1919	n.	**	symb.	1
<i>Allantoxena biseriale</i> (STRELKOW 1939) JANKOWSKI 1978	f.	*	aqu.	2
<i>Alloiozona triozona</i> HSIUNG 1930	f.	*	symb.	0
<i>Allospiraerium convexum</i> KIDDER & SUMMERS 1935	n.	*	symb.	1
<i>Allotricha mollis</i> STERKI 1878	f.	***	aqu.	2
<i>Almophrya almae</i> PUYTORAC & DRAGESCO 1969	f.	*	symb.	3
<i>Ambiphrya miri</i> RAABE 1952	f.	**	symb.	12

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Amieta prolifera</i> NGASSAM & GRAIN 1998	f.	*	symb.	1
<i>Amphibothrella enigmatica</i> GRANDORI & GRANDORI 1934	f.	*	terr.	0
<i>Amphileptiscus shii</i> SONG & BRADBURY 1998	m.	***	aqu.	1
<i>Amphileptus cygnus</i> EHRENBERG 1830	m.	**	aqu.	18
<i>Amphisiella marioni</i> GOURRET & ROESER 1888	f.	**	aqu.-terr.	27
<i>Amphisiellides atypicus</i> (HEMBERGER 1985) FOISSNER 1988	m.	**	terr.	4
<i>Amphorellina subacuta</i> COLOM 1948	f.	*	foss.	1
<i>Amphorellopsis acuta</i> (SCHMIDT 1901) KOFOID & CAMPBELL 1929	f.	*	aqu.	2
<i>Amphorides amphora</i> (CLAPARÈDE & LACHMANN 1858) STRAND 1928	f.	*	aqu.	5
<i>Amplectella collaria</i> (BRANDT 1906) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Amplectelopsis biedermanni</i> KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Ampullacula ampulla</i> (FIORENTINI 1890) HSIUNG 1930	f.	*	symb.	1
<i>Ampullofolliculina lageniformis</i> HADZI 1951	f.	*	aqu.	0
<i>Amylophorus rochalimai</i> PEREIRA & ALMEIDA 1942	m.	*	symb.	0
<i>Anacharon gracilis</i> ITO & IMAI 2000	m.	*	symb.	0
<i>Ancistrella choanomphali</i> CHEISSIN 1931	f.	**	symb.	1
<i>Ancistrocoma pelseneeri</i> CHATTON & LWOFF 1926	f.	***	symb.	1
<i>Ancistrospira veneris</i> CHATTON & LWOFF 1926	f.	**	symb.	0
<i>Ancistrum mytili</i> (QUENNERSTEDT 1867) MAUPAS 1883	n.	**	symb.	1
<i>Ancistrumina ovata</i> (CHEISSIN 1931) RAABE 1959	f.	**	symb.	3
<i>Ancystropodium maupasi</i> FAURÉ-FREMIET 1907	n.	*	aqu.	1
<i>Andreula antedonis</i> (ANDRÉ 1910) KAHL 1934	f.	*	symb.	0
<i>Anglasia magdalenae</i> DELPHY 1936	f.	*	symb.	0
<i>Anigsteinia clarissima</i> ISQUITH 1968	f.	**	aqu.	3
<i>Anisocomides zyrpaeae</i> CHATTON & LWOFF 1950	m.	**	symb.	0
<i>Annelophrya sphaeronucleata</i> (GEORGÉVITCH 1948) LOM 1959	f.	**	symb.	1
<i>Anophrys sarcophaga</i> COHN 1866	f.	*	symb.	8
<i>Anoplocladium</i> DOGIEL 1927; no type species	n.	*	symb.	1
<i>Anoplophrya</i> STEIN 1860; no type species	f.	**	symb.	7
<i>Anoplophryopsis ovata</i> PUYTORAC 1954	f.	**	symb.	2
<i>Anthacineta craterella</i> (COLLIN) JANKOWSKI 1978	f.	*	aqu.-symb.	1
<i>Anthochloe prosperinae</i> JOSEPH 1882	f.	*	aqu.	0
<i>Anthonyella hoplites</i> (ROSSOLIMO 1926) DELPHY 1936	f.	*	symb.	0
<i>Anthurceolaria karyolobia</i> (HIRSHFIELD) JANKOWSKI 1980	f.	**	aqu.	1
<i>Antipia spiralis</i> LEPSI 1927	f.	*	aqu.	0
<i>Apiosoma piscicola</i> BLANCHARD 1885	n.	**	symb.	7
<i>Apoamphisiella tihanyiensis</i> (GÉLLERT & TAMÁS 1958) FOISSNER 1997	f.	***	aqu.-terr.	1
<i>Apobryophyllum terricola</i> FOISSNER 1998	n.	***	terr.	1
<i>Apocolpoda africana</i> FOISSNER 1993	f.	***	terr.	1
<i>Apocryptopharynx hippocampoides</i> FOISSNER 1996	m.	***	aqu.	1
<i>Apsiktrata gracilis</i> (PENARD 1922) FOISSNER, BERGER & KOHMANN 1994	f.	***	aqu.	1
<i>Arachnodinella noveni</i> (VAN HOVEN, GILCHRIST & HAMILTON-AT 1987) (present paper)	f.	*	symb.	1
<i>Archinassula muscicola</i> KAHL 1935	f.	*	terr.	0

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Arcodiscophrya heraldica</i> JANKOWSKI 1981	f.	**	aqu.	1
<i>Arcosoma discorniger</i> (HSIUNG 1930) JANKOWSKI 1967	n.	*	aqu.	2
<i>Arcuospathidium cultriforme</i> (PENARD 1922) FOISSNER 1984	n.	***	terr.	5
<i>Aristerostoma minutum</i> KAHL 1926	n.	*	aqu.	3
<i>Armiacineta seticola</i> JANKOWSKI 1982	f.	**	aqu.-symb.	1
<i>Armichona gibbosa</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Ascampbelliella urceolata</i> (OSTENFELD 1899) CORLISS 1960	f.	*	aqu.	2
<i>Ascobius lentus</i> HENNEGUY 1884	m.	***	aqu.	1
<i>Ascophrys odor</i> CAMPILLO & DEROUX 1974	f.	***	symb.	1
<i>Askenasia volvox</i> (EICHWALD 1852) KAHL 1930	f.	***	aqu.	2
<i>Askoella janssoni</i> FENCHEL 1965	f.	**	symb.	1
<i>Aspidisca lynceus</i> (MÜLLER 1773) EHRENBERG 1830	f.	***	aqu.-terr.	6
<i>Astylozoon fallax</i> ENGELMANN 1862	n.	*	aqu.	4
<i>Atelepithites misellum</i> DEROUX 1976	n.	*	aqu.	0
<i>Atopochilodon arenifer</i> KAHL 1933	m.	*	aqu.-symb.	0
<i>Atopodinium fibulatum</i> KAHL 1932	n.	*	aqu.-symb.	0
<i>Atractos contortus</i> VÖRÖSVÁRY 1950	m.	*	aqu.	3
<i>Aubertianella keiji</i> SZECHURA 1969	f.	*	foss.	3
<i>Aulofolliculina labyrinthica</i> HADZI 1951	f.	*	aqu.	0
<i>Aurichona armata</i> JANKOWSKI 1973	f.	**	aqu.-symb.	0
<i>Australana kaneis</i> JANKOWSKI 1986	f.	**	aqu.	1
<i>Australocirrus oscitans</i> BLATTERER & FOISSNER 1988	m.	***	terr.	1
<i>Australothrix australis</i> BLATTERER & FOISSNER 1988	f.	***	terr.	1
<i>Avelia martinicensis</i> (NOUZARÈDE 1975) NOUZARÈDE 1977	f.	**	aqu.	3
<i>Avestina acuta</i> (BUIKAMP 1977) JANKOWSKI 1980	f.	**	terr.	3
<i>Azerella calva</i> ALEKPEROV 1985	f.	**	aqu.	1
<i>Baikalaster pelagicus</i> JANKOWSKI 1986	m.	*	aqu.	1
<i>Baikalocoleps quadratus</i> OBOLKINA 1995	m.	*	aqu.	1
<i>Baikalodendron angustatum</i> SWARCZEWSKY 1928	n.	*	aqu.-symb.	0
<i>Baikalonis foissneri</i> JANKOWSKI 1982	m.	*	aqu.	2
<i>Baikalophrya</i> SWARCZEWSKY 1928; no type species	f.	*	aqu.-symb.	2
<i>Baikalotheca cratera</i> (SWARCZEWSKY 1930) JANKOWSKI 1985	f.	*	aqu.-symb.	1
<i>Baikalothigma viride</i> JANKOWSKI 1982	n.	**	aqu.-symb.	1
<i>Bakuella marina</i> (AGAMALIEV & ALEKPEROV 1976) JANKOWSKI 1979	f.	**	aqu.-terr.	3
<i>Balanion comatum</i> WULFF 1919	n.	***	aqu.	10
<i>Balantidioides muscicola</i> (PENARD 1922) PENARD in KAHL 1930	m.	**	aqu.-symb.	2
<i>Balantidium pellucidum</i> EBERHARD 1862	n.	***	aqu.	1
<i>Balantidium entozoon</i> (EHRENBERG 1838) CLAPARÈDE & LACHMANN 1858	n.	***	symb.	3
<i>Balladyna parvula</i> KOWALEWSKI 1882	f.	*	aqu.	6
<i>Banyulsella viridis</i> DRAGESCO 1954	f.	**	aqu.	2
<i>Baranella gracilis</i> NAGY 1989	f.	**	foss.	1
<i>Bardeliella pulchra</i> FOISSNER 1984	f.	***	terr.	1
<i>Batiola izhivacensis</i> KOSHEVOJ 1987	f.	*	foss.	1
<i>Baznosanuia nana</i> TUCOLESCO 1962	f.	*	aqu.	0



Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Beckmania baikalensis</i> JANKOWSKI 1982	f.	*	aqu.-symb.	1
<i>Beersena limax</i> (DEROUX 1978) JANKOWSKI 1989	f.	*	aqu.	1
<i>Belonophrya pelagica</i> ANDRÉ 1914	f.	***	aqu.	2
<i>Benthontophrys fluviatilis</i> FOISSNER & GSCHWIND 1998	f.	***	aqu.	1
<i>Berounkella major</i> KOSHEVOJ 1987	f.	*	foss.	1
<i>Bertolinella intestinalis</i> CARPANO 1941	f.	*	symb.	0
<i>Bezedniella prima</i> STLOUKAL & MATIS 1994	f.	*	aqu.	1
<i>Biconvexellina expressa</i> KONENKOVA 1999	f.	*	foss.	1
<i>Bicoronella costaricana</i> FOISSNER 1995	f.	***	terr.	0
<i>Biggaria bermudensis</i> (BIGGAR & WENRICH 1932) (present paper)	f.	*	symb.	6
<i>Bignotella batiformis</i> (KEIJ 1969) WILLEMS 1975	f.	*	foss.	4
<i>Bipalmatum salinum</i> GAJEVSKAJA 1924	n.	*	aqu.	0
<i>Birojima terricola</i> BERGER & FOISSNER 1989	f.	***	terr.	0
<i>Bitricha oblata</i> CAMEROUN, O'DONOGHUE & ADLARD 2000	f.	*	symb.	0
<i>Bizonula parva</i> (LEPSI 1926) CORLISS 1960	f.	*	symb.	0
<i>Blepharisma persicinum</i> PERTY 1849	n.	***	aqu.-terr.	2
<i>Blepharocodon appendiculatus</i> BUNDLE 1895	m.	**	symb.	0
<i>Blepharoconus hemiciliatus</i> GASSOVSKY 1919	m.	*	symb.	5
<i>Blepharocorys uncinata</i> (FIORENTINI 1890) BUNDLE 1895	f.	**	symb.	2
<i>Blepharomonas mollis</i> KOPPERI 1937	f.	*	symb.	0
<i>Blepharoplanum leporis</i> KOPPERI 1937	n.	*	symb.	0
<i>Blepharoprosthium pireum</i> BUNDLE 1895	n.	**	symb.	1
<i>Blepharosphaera intestinalis</i> BUNDLE 1895	f.	**	symb.	1
<i>Blepharostoma glaucoma</i> SCHEWIAKOFF 1892	n.	*	aqu.	0
<i>Blepharozoum zonatum</i> GASSOVSKY 1919	n.	*	symb.	1
<i>Bonetocardiella conoidea</i> (BONET 1956) DUFOUR 1968	f.	**	foss.	2
<i>Borziella terekensis</i> MAKARIEVA 1979	f.	*	foss.	2
<i>Borzaites atava</i> (GRÜN & BLAU 1996) GRÜN & BLAU (present paper)	f.	***	foss.	1
<i>Borziella slovenica</i> (BORZA 1969) POP 1997	f.	**	foss.	1
<i>Bothrostoma undulans</i> STOKES 1887	n.	**	aqu.	2
<i>Botticula ringueleti</i> DIONI 1972	f.	*	aqu.	0
<i>Boveria subcylindrica</i> STEVENS 1901	f.	**	symb.	7
<i>Bozasella rhinocerotis</i> BUISSON 1923	f.	*	symb.	0
<i>Brachonella contorta</i> (LEVANDER 1894) JANKOWSKI 1964	f.	**	aqu.-terr.	9
<i>Brachyosoma brachypoda</i> (STOKES 1885) BATISSE 1975	n.	*	aqu.	3
<i>Brandtiella palliata</i> (BRANDT 1906) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Bresslaua vorax</i> KAHL 1931	f.	***	terr.	2
<i>Bresslauides australis</i> BLATTERER & FOISSNER 1988	m.	***	terr.	2
<i>Brooklynella hostilis</i> LOM & NIGRELLI 1970	f.	***	symb.	4
<i>Bryometopus pseudochilodon</i> KAHL 1932	n.	***	terr.	1
<i>Bryophrya bavariensis</i> (KAHL 1931) WENZEL 1953	f.	***	terr.	1
<i>Bryophyllum loxophylliforme</i> KAHL 1931	n.	**	terr.	6
<i>Buchneriella criodriili</i> HEIDENREICH 1935	f.	*	symb.	0
<i>Buetschlia parva</i> SCHUBERG 1888	f.	**	symb.	2
<i>Buetschliella opheliae</i> AWERINZEW 1908	f.	**	symb.	2

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Buetschliellopsis enchytrei</i> PUYTORAC 1954	f.	*	symb.	1
<i>Buissonella tapiri</i> CUNHA & MUNIZ 1925	f.	*	symb.	1
<i>Bundleia postciliata</i> (BUNDLE 1895) CUNHA & MUNIZ 1928	f.	*	symb.	2
<i>Bursaopsis striata</i> (DADAY 1887) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Bursaria truncatella</i> MÜLLER 1773	f.	***	aqu.-terr.	36
<i>Bursaridium schewiakowii</i> LAUTERBORN 1894	n.	*	aqu.	9
<i>Bursellopsis spumosa</i> (SCHMIDT 1920) CORLISS 1960	f.	**	aqu.	1
<i>Bursostoma bursaria</i> VÖRÖSVÁRY 1950	n.	***	aqu.	1
<i>Buschiella subantarctica</i> (BUSCH 1948) CORLISS 1960	f.	*	aqu.	0
<i>Buxtonella sulcata</i> JAMESON 1926	f.	**	symb.	4
<i>Cadosina fusca</i> WANNER 1940	f.	*	foss.	6
<i>Cadosinopsis andrusovi</i> SCHEIBER 1967	f.	*	foss.	1
<i>Caenomorpha medusala</i> PERTY 1852	f.	***	aqu.	17
<i>Calcisphaerula innominata</i> BONET 1956	f.	*	foss.	1
<i>Caliperia longipes</i> LAIRD 1953	f.	*	symb.	3
<i>Caloscolex camelinus</i> DOGIEL 1926	m.	**	symb.	0
<i>Calospira minkiewiczzi</i> CHATTON & LWOFF 1935	f.	*	symb.	1
<i>Calpionella alpina</i> LORENZ 1902	f.	*	foss.	1
<i>Calpionellites darderi</i> (COLOM 1934) COLOM 1948	m.	*	foss.	1
<i>Calpionelloides irregularis</i> COLOM 1984	m.	*	foss.	1
<i>Calpionellopsella maldonadoi</i> TREJO 1975	f.	*	foss.	1
<i>Calpionellopsites conicus</i> NAGY 1986	m.	**	foss.	1
<i>Calypotricha pleuronemoides</i> PHILLIPS 1882	f.	*	aqu.	1
<i>Campanella</i> GOLDFUSS 1820; no type species	f.	**	aqu.	5
<i>Campylodinium ovumrajae</i> (DOGIEL 1926) JANKOWSKI 1975	n.	*	aqu.	1
<i>Canthariella brevis</i> KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Carchesium polypinum</i> (LINNAEUS 1758) EHRENBERG 1831	n.	***	aqu.	17
<i>Cardiostomatella vermiformis</i> (KAHL 1928) CORLISS 1960	f.	*	aqu.	3
<i>Carinichona globulus</i> JANKOWSKI 1973	f.	*	aqu.-symb.	1
<i>Carinoposthium caudatum</i> (CUNHA) JANKOWSKI 1980	n.	*	aqu.	1
<i>Carpistomiosphaera borzai</i> NOWAK 1968	f.	*	foss.	3
<i>Caryotricha convexa</i> KAHL 1932	f.	**	aqu.	0
<i>Caspionella bergeri</i> (AGAMALIEV) JANKOWSKI 1980	f.	*	aqu.	1
<i>Causella shtekhovicensis</i> (KOSHEVOJ 1987) (present paper)	f.	*	foss.	1
<i>Cavichona cincinnata</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Celeritia globosa</i> TUCOLESCO 1962	f.	*	aqu.	0
<i>Cepedella hepatica</i> POYARKOFF 1909	f.	*	symb.	0
<i>Cepedieta gigantea</i> (MAUPAS 1879) CORLISS, PUYTORAC & LOM 1965	f.	*	symb.	6
<i>Ceratochona cimex</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Certesioquadrinucleata</i> FABRE-DOMERGUE 1885	f.	***	aqu.	1
<i>Chaenea vorax</i> QUENNERSTEDT 1867	f.	**	aqu.-terr.	11
<i>Chaetospira muelleri</i> LACHMANN 1856	f.	***	aqu.	2
<i>Chanostoma margaritifera</i> DADAY 1884	n.	*	aqu.	0
<i>Charonina ventriculi</i> (JAMESON 1925) STRAND 1928	f.	**	symb.	1
<i>Charonnautes equi</i> (HSIUNG 1930) STRELKOW 1939	m.	**	symb.	1

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Chattonidium setense</i> VILLENEUVE 1937	n.	*	aqu.	0
<i>Cheissinia baicalensis</i> (CHEISSIN 1931) CHATTON & LWOFF 1949	f.	**	ymb.	0
<i>Cheissiniophrya knoepffleri</i> PUYTORAC & DRAGESCO 1969	f.	*	ymb.	0
<i>Chervurtskella kolskiensis</i> KOSHEVOJ 1987	f.	*	foss.	1
<i>Chilenophrys allendei</i> JANKOWSKI 1986	f.	*	aqu.	1
<i>Chilodina silesiaca</i> SRÁMEK-HUŠEK 1957	f.	*	aqu.	1
<i>Chilodochona quennerstedti</i> WALLENGREN 1895	f.	*	aqu.-ymb.	1
<i>Chilodonatella minuta</i> DRAGESCO 1966	f.	***	aqu.	1
<i>Chilodonella uncinata</i> (EHRENBERG 1838) STRAND 1928	f.	***	aqu.-terr.	12
<i>Chilodontopsis depressa</i> (PERTY 1852) BLOCHMANN 1895	f.	***	aqu.	2
<i>Chilophrya utahensis</i> (PACK 1919) KAHL 1930	f.	**	aqu.-terr.	1
<i>Chitinoidella boneti</i> DOBEN 1963	f.	*	foss.	7
<i>Chitonella chesapeakeensis</i> SMALL & LYNN 1985	f.	*	aqu.	1
<i>Chlamydodon mnemosyne</i> EHRENBERG 1835	m.	***	aqu.	1
<i>Chlamydonella pseudochilodon</i> (DEROUX 1970) PETZ, SONG & WILBERT 1995	f.	**	aqu.-terr.	1
<i>Chlamydonellopsis plurivacuolata</i> BLATTERER & FOISSNER 1990	f.	***	aqu.	2
<i>Chlamydonyx paucidentatus</i> DEROUX 1976	m.	*	aqu.	0
<i>Choanophrya infundibulifera</i> (HARTOG 1881) HARTOG 1902	f.	*	ymb.	5
<i>Chonosaurus rex</i> JANKOWSKI 1973	m.	*	aqu.-ymb.	1
<i>Chromidina</i> GONDER 1905; no type species	f.	*	ymb.	1
<i>Cichlidotherus meanjae</i> AFFA'A 1989	m.	**	ymb.	1
<i>Ciliofaurea arenicola</i> (DRAGESCO 1954) DRAGESCO 1960	f.	*	aqu.	1
<i>Cinetochilum margaritaceum</i> (EHRENBERG 1831) PERTY 1849	n.	***	aqu.-terr.	2
<i>Cinetozona pyriformis</i> OLMO, TELLEZ & ESTEBAN 1998	f.	***	aqu.	1
<i>Circinella arenicola</i> FOISSNER 1994	f.	***	terr.	2
<i>Circodinium minimum</i> (GASSOVSKI 1918) WOLSKA 1971	n.	**	ymb.	1
<i>Cirranter mobilis</i> (PENARD 1922) JANKOWSKI 1964	m.	***	aqu.	1
<i>Cirrophrya haptica</i> GELLÉRT 1950	f.	**	terr.	3
<i>Cladotricha koltzowi</i> GAJEWSKAJA 1926	f.	**	aqu.-terr.	7
<i>Claretinella helenae</i> KEIJ 1974	f.	*	aqu.	0
<i>Clathrostoma viminale</i> PENARD 1922	n.	*	aqu.	2
<i>Clausilocola apostropha</i> LOM 1959	f.	*	ymb.	2
<i>Claustrofolliculina clausa</i> HADZI 1951	f.	*	aqu.	0
<i>Clevea melchersi</i> BALECH 1948	f.	*	aqu.	0
<i>Clevelandella panesthiae</i> (KIDDER 1937) KIDDER 1938	f.	**	ymb.	0
<i>Climacocylis scalarius</i> (BRANDT 1906) JÖRGENSEN 1924	m.	*	aqu.	0
<i>Climacostomum virens</i> (EHRENBERG 1833) STEIN 1859	n.	***	aqu.	24
<i>Clistolagenophrys primitiva</i> (SWARCZEWSKY 1930) CLAMP 1991	f.	**	aqu.-ymb.	1
<i>Cochliatoxum periahtum</i> GASSOVSKY 1919	n.	**	ymb.	1
<i>Cochliodomus oncomelaniae</i> (TCHANG 1957) RAABE 1971	f.	**	ymb.	0
<i>Cochliophilus depressus</i> KOZLOFF 1945	m.	**	ymb.	0
<i>Codonaria cristellula</i> (FOL 1884) KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Codonella galea</i> HAECKEL 1873	f.	**	aqu.-foss.	18
<i>Codonellopsis orthoceras</i> (HAECKEL 1873) JÖRGENSEN 1924	f.	**	aqu.	13
<i>Codonopsis ollula</i> (BRANDT 1906) KOFOID & CAMPBELL 1939	f.	*	aqu.	0

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Coelophrya roquei</i> PUYTORAC & DRAGESCO 1969	f.	*	ymb.	0
<i>Coelosomides marina</i> (ANIGSTEIN 1912) STRAND 1928	f.	*	aqu.	1
<i>Coelothigma canale</i> (KATASHIMA 1952) PUYTORAC 1969	n.	**	ymb.	0
<i>Cohnilembus verminus</i> (MÜLLER 1786) KAHL 1933 by synonymy	m.	**	aqu.	11
<i>Coleps hirtus</i> (MÜLLER 1786) NITZSCH 1827	m.	***	aqu.	15
<i>Colligocineta furax</i> KOZLOFF 1965	f.	**	ymb.	0
<i>Collinia</i> CÉPÈDE 1910; no type species	f.	*	ymb.	5
<i>Collinina gondii</i> (CHATTON & PÉRARD 1919) CHATTON & PÉRARD 1924	f.	*	aqu.-ymb.	0
<i>Colomiella mexicana</i> BONET 1956	f.	*	foss.	2
<i>Colomisphaera minutissima</i> (COLOM 1935) NOWAK 1968	f.	*	foss.	6
<i>Colpidium colpoda</i> (LOSANA 1829) STEIN 1860	n.	***	aqu.	77
<i>Colpoda cucullus</i> MÜLLER 1773	f.	***	aqu.-terr.	171
<i>Colpodidium caudatum</i> WILBERT 1982	n.	***	terr.	1
<i>Cometodendron</i> SWARCZEWSKY 1928; no type species	n.	*	aqu.-ymb.	1
<i>Committosphaera sublapidosa</i> REHANEK 1985	f.	*	foss.	1
<i>Composomella psammobia</i> SMALL & LYNN 1985	f.	*	aqu.	1
<i>Conchacineta constricta</i> (COLLIN) JANKOWSKI 1978	f.	*	aqu.-ymb.	1
<i>Conchophrys davidoffi</i> CHATTON 1911	f.	*	ymb.	0
<i>Conchophthirus anodontae</i> (EHRENBERG 1838) STEIN 1861	m.	**	ymb.	6
<i>Conchophyllum caryoclada</i> (KIDDER 1933) RAABE 1936	n.	**	ymb.	0
<i>Conchoscutum inversum</i> RAABE 1947	n.	**	ymb.	0
<i>Conchostoma longissimum</i> FAURÉ-FREMIET 1963	n.	*	aqu.	1
<i>Condylostoma patense</i> BORY 1824	n.	**	aqu.-terr.	27
<i>Condylostomides grolieri</i> SILVA NETO 1994	m.	***	aqu.	1
<i>Coniculostomum monilatum</i> (DRAGESCO & NJINÉ 1971) NJINÉ 1979	n.	**	aqu.	5
<i>Conidophrys pilisuctor</i> CHATTON & LWOFF 1934	f.	*	ymb.	5
<i>Conocladium umbellatum</i> (STEIN) SCHRÖDER 1914	n.	*	ymb.	0
<i>Contophrya chachoni</i> PUYTORAC & DRAGESCO 1969	f.	*	ymb.	0
<i>Copemetopus subsalsus</i> VILLENEUVE-BRACHON 1940	m.	*	aqu.	1
<i>Corallocolpoda pacifica</i> ALEKPEROV 1991	f.	***	terr.	3
<i>Coriplites terricola</i> FOISSNER 1988	m.	***	terr.	1
<i>Corlisseta anivica</i> JANKOWSKI 1986	f.	**	aqu.-ymb.	1
<i>Corlissia picta</i> (DRAGESCO 1954) DRAGESCO 1954	f.	**	aqu.	1
<i>Corlissiella criodrili</i> (HEIDENREICH 1935) PUYTORAC 1960	f.	**	ymb.	0
<i>Coronochona pectinata</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	0
<i>Coronothigma gigas</i> (PUYTORAC) JANKOWSKI 1980	n.	*	aqu.	1
<i>Corticocolpoda kaneshiroae</i> FOISSNER 1993	f.	***	terr.	1
<i>Corynophrya lyngbyi</i> (EHRENBERG 1833) CURDS 1987	f.	*	ymb.	5
<i>Cosmocolpoda naschbergeri</i> FOISSNER 1993	f.	***	terr.	2
<i>Cossothigma dubium</i> (DRAGESCO 1954) JANKOWSKI 1978	n.	*	aqu.	1
<i>Cotensicoma manticola</i> JANKOWSKI 1982	f.	**	aqu.-ymb.	1
<i>Cotensita commensalis</i> JANKOWSKI 1982	f.	*	aqu.-ymb.	1
<i>Cothurnia imberis</i> EHRENBERG 1831	f.	**	aqu.-terr.	27
<i>Cothurniopsis valvata</i> STOKES 1893	f.	**	aqu.-terr.	1
<i>Cothurniopsis astaci</i> (STEIN) ENTZ 1884	f.	*	aqu.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Cotylothigma rhynchelmis</i> (HEIDENREICH 1935) RAABE 1949	n.	**	ymb.	0
<i>Coxiella laciniosa</i> (BRANDT 1906) BRANDT 1907	f.	*	aqu.-foss.	5
<i>Coxiellina berriasiensis</i> COLOM 1948	f.	*	foss.	0
<i>Cranotheridium taeniatum</i> SCHEWIAKOFF 1893	n.	*	aqu.	1
<i>Craspedomyoschiston sphaeromae</i> PRECHT 1935	n.	*	aqu.-ymb.	0
<i>Crassicalpionella conica</i> NAGY 1989	f.	*	foss.	1
<i>Crassichona insolita</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	0
<i>Crassicollaria brevis</i> REMANE 1962	f.	**	foss.	10
<i>Crateristoma kindi</i> JANKOWSKI 1967	n.	*	aqu.	0
<i>Craticuloscuta escobari</i> KOZLOFF 1965	f.	**	ymb.	1
<i>Crebricoma carinata</i> (RAABE 1934) KOZLOFF 1946	f.	**	ymb.	1
<i>Crevicometes murmanicus</i> JANKOWSKI 1981	m.	*	aqu.-ymb.	1
<i>Cricundella tridivisa</i> (BRANDT 1906) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Cristichona pacifica</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	1
<i>Cristigera pleuronemoides</i> ROUX 1899	f.	***	aqu.	1
<i>Crobylura pelagica</i> ANDRÉ 1914	f.	*	aqu.	0
<i>Crustocadosina semiradiata</i> REHANEK 1985	f.	*	foss.	1
<i>Cryptacineta operata</i> (SWARCZEWSKI) JANKOWSKI 1978	f.	*	aqu.-ymb.	1
<i>Cryptocaryon irritans</i> BROWN 1951	n.	**	ymb.	69
<i>Cryptochilidium cuenoti</i> (FIORENTINI 1898) SCHOUTEDEN 1906	n.	*	ymb.	3
<i>Cryptochilum griseolum</i> (PERTY 1852) MAUPAS 1883	n.	*	aqu.	1
<i>Cryptolembus gongi</i> GUNDERSON 1985	m.	**	ymb.	1
<i>Cryptonyctus chabaudi</i> (ALBARET) JANKOWSKI 1978	m.	*	aqu.	1
<i>Cryptopharynx setigerus</i> KAHL 1928	m.	***	aqu.	4
<i>Cryptophrya obtecta</i> (SWARCZEWSKY 1928) JANKOWSKI 1973	f.	*	aqu.-ymb.	1
<i>Cryptostomina caliphyllae</i> (FEDELE 1927) FEDELE 1938	f.	*	ymb.	0
<i>Ctedoctema acanthocryptum</i> STOKES 1884	n.	***	aqu.	1
<i>Ctenochona ternipara</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	0
<i>Cubanites cristobalensis</i> (FURRAZOLA-BERMÚDEZ 1965) (present paper)	m.	**	foss.	1
<i>Cucumophrya leptomesochrae</i> KUNZ 1936	f.	*	aqu.	0
<i>Cucurbella vivax</i> THURSTON & GRAIN 1971	f.	**	ymb.	1
<i>Cunhaia curvata</i> HASSELMANN 1924	f.	*	ymb.	1
<i>Cunhamunizia batissei</i> ITO & IMAI 2000	f.	*	ymb.	0
<i>Curimostoma renale</i> (KAY 1946) KOZLOFF 1954	n.	**	ymb.	0
<i>Curviperistomatus ochoterenai</i> (SHOUTEN 1938) AMARO & SENA 1967	m.	*	ymb.	0
<i>Cyamichona mysticeti</i> JANKOWSKI 1971	f.	*	aqu.-ymb.	2
<i>Cyathodinium conicum</i> CUNHA 1914	n.	**	ymb.	0
<i>Cyathopercularia laccobii</i> (MATTHES & GUHL 1972) JANKOWSKI 1980	f.	*	aqu.	2
<i>Cyclidium glaucoma</i> MÜLLER 1773	n.	***	aqu.-terr.	15
<i>Cyclodonta bipartita</i> (STOKES 1885) MATTHES 1958	f.	*	aqu.	3
<i>Cyclophrya magna</i> GÖNNERT 1935	f.	*	aqu.	3
<i>Cycloposthium bipalmatum</i> (FIORENTINI 1890) BUNDLE 1895	n.	*	ymb.	9
<i>Cyclotrichium cyclokaryon</i> MEUNIER 1910	n.	*	aqu.	9
<i>Cylindriconella insueta</i> (REHÁNEK 1986) (present paper)	f.	**	aqu.	0

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Cymatocylis drygalskii</i> (LAACKMANN 1907) LAACKMANN 1910	m.	*	aqu.	5
<i>Cyrtocaryum halosydnae</i> FAURÉ-FREMIET & MUGARD 1949	n.	**	ymb.	1
<i>Cyrtohymena muscorum</i> (KAHL 1932) FOISSNER 1989	f.	***	terr.	2
<i>Cyrtolophosis mucicola</i> STOKES 1885	f.	***	aqu.-terr.	3
<i>Cyrtophoron isagogicum</i> DEROUX 1975	n.	**	aqu.	1
<i>Cyrtostrombidium longisomum</i> LYNN & GILRON 1993	n.	**	aqu.	1
<i>Cytharoides balechi</i> TUFFRAU 1975	m.	*	aqu.	1
<i>Cyttarocylis cassis</i> (HAECKEL 1873) FOL 1881	m.	*	aqu.	2
<i>Dactylochlamys pisciformis</i> LAUTERBORN 1901	m.	*	aqu.	0
<i>Dactylostoma collinii</i> (GAJEWSKAJA 1929) JANKOWSKI 1967	n.	*	aqu.	1
<i>Dadayiella ganymedes</i> (ENTZ 1884) KOFOID & CAMPBELL 1929	f.	**	aqu.	1
<i>Dapedophrya flexilis</i> (PENARD 1922) FOISSNER 1995	f.	***	terr.	1
<i>Dasytricha ruminantium</i> SCHUBERG 1888	f.	***	ymb.	44
<i>Daturellina zetica</i> RADOIČIĆ 1959	f.	*	foss.	0
<i>Daurotheca variabilis</i> (KELLICOTT 1883) JANKOWSKI 1986	f.	*	aqu.	2
<i>Deflandronella veracruzana</i> (TREJO 1972) TREJO 1975	f.	*	foss.	0
<i>Delamurea loricata</i> NAIDENOVA 1978	f.	**	ymb.	2
<i>Dellochus mucicola</i> (DELPHY 1938) CORLISS 1960	m.	*	aqu.	0
<i>Delphyella filum</i> (CLAPARÈDE 1861) PUYTORAC 1969	f.	**	ymb.	1
<i>Deltacineta seticola</i> JANKOWSKI 1981	f.	*	aqu.	2
<i>Deltopylum rhabdoides</i> FAURÉ-FREMIET & MUGARD 1946	n.	**	ymb.	1
<i>Dendrocometes paradoxus</i> STEIN 1852	m.	**	aqu.-ymb.	2
<i>Dendrocometides priscus</i> SWARCZEWSKY 1928	m.	*	aqu.-ymb.	0
<i>Dendrosoma radians</i> EHRENBERG 1837	n.	**	aqu.	2
<i>Dendrosomides paguri</i> COLLIN 1905	m.	*	aqu.-ymb.	3
<i>Dentacineta campanuliformis</i> (COLLIN 1909) JANKOWSKI 1978	f.	*	aqu.-ymb.	3
<i>Dentacinetides collini</i> BATISSE 1992	m.	**	aqu.	1
<i>Dentichona marginata</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	1
<i>Desmophrya contorta</i> RAABE 1933	f.	*	ymb.	0
<i>Deviata abbrevescens</i> EIGNER 1995	f.	***	aqu.-terr.	1
<i>Dexiostoma campylum</i> (STOKES 1886) JANKOWSKI 1967	n.	***	aqu.	5
<i>Dexiotricha granulosa</i> (KENT 1881) FOISSNER, BERGER & KOHMANN 1994 by synonymy	f.	***	aqu.	4
<i>Dexiotrichides centralis</i> (STOKES 1885) KAHL 1931	m.	**	aqu.	1
<i>Diaxonella trimarginata</i> JANKOWSKI 1979	f.	*	aqu.	1
<i>Dichilum cuneiforme</i> SCHEWIAKOFF 1893	n.	**	aqu.	0
<i>Dicloepella borealis</i> EICHER 1965	f.	*	foss.	0
<i>Dicoelophrya callistes</i> PUYTORAC & DRAGESCO 1969	f.	**	ymb.	0
<i>Dicontophrya grassei</i> PUYTORAC & DRAGESCO 1969	f.	**	ymb.	0
<i>Dictyocysta elegans</i> EHRENBERG 1854	f.	**	aqu.	6
<i>Didesmis quadrata</i> FIORENTINI 1890	f.	**	ymb.	2
<i>Didieria ohioensis</i> SMALL & LYNN 1985	f.	**	aqu.	1
<i>Didinium nasutum</i> (MÜLLER 1773) STEIN 1859	n.	***	aqu.-terr.	70
<i>Dileptus anser</i> (MÜLLER 1773) DUJARDIN 1841	m.	***	aqu.-terr.	103
<i>Dilleria sushilii</i> (RAY 1932) EARL 1973	f.	*	ymb.	0
<i>Dimacrocarion amphileptoides</i> (KAHL 1931) JANKOWSKI 1967	n.	***	terr.	0

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Dimorphocothurnia nebaliae</i> (DONS 1928) JANKOWSKI 1985	f.	*	aqu.	0
<i>Diophryopsis histrix</i> (BUDDENBROCK 1920) HILL & BORROR 1992	f.	**	aqu.	1
<i>Diophrys appendiculata</i> (EHRENBERG 1838) LEVANDER 1894 by synonym	f.	***	aqu.	5
<i>Dipartiella simplex</i> (RAABE 1959) STEIN 1961	f.	**	symb.	1
<i>Diplites telmatobius</i> FOISSNER 1998	m.	***	terr.	1
<i>Diplodinium dentatum</i> (STEIN 1858) SCHUBERG 1888	n.	***	symb.	2
<i>Diplogmus contrax</i> MANSFELD 1923	m.	*	aqu.	0
<i>Diploplastron affine</i> (DOGIEL & FEDOROWA 1925) KOFOID & MACLENNAN 1932	n.	**	symb.	8
<i>Discacinetia micraster</i> (PENARD 1914) JANKOWSKI 1981	f.	*	aqu.	1
<i>Discephelota gigantea</i> (NOBLE 1929) JANKOWSKI 1981	f.	*	aqu.	1
<i>Discocephalus rotatorius</i> EHRENBERG in HEMPRICH & EHRENBERG 1831	m.	**	aqu.	7
<i>Discomorphella pectinata</i> (LEVANDER 1893) CORLISS 1960	f.	***	aqu.	1
<i>Discophrya speciosa</i> LACHMANN 1859	f.	**	aqu.	32
<i>Discophryson liberus</i> JANKOWSKI 1985	m.	*	aqu.	0
<i>Discosomatella tenella</i> (SWARCZEWSKY 1928) CORLISS 1960	f.	*	aqu.-symb.	0
<i>Discotheca cupulata</i> (FAURÉ-FREMIET 1948) JANKOWSKI 1967	f.	*	aqu.-symb.	1
<i>Discotricha papillifera</i> TUFFRAU 1954	f.	**	aqu.	1
<i>Discozoon undulans</i> VUXANOVICI 1960	n.	*	aqu.	0
<i>Disematostoma buetschlii</i> LAUTERBORN 1894	n.	***	aqu.	2
<i>Dissothigma saprophilum</i> (KAHL 1930) JANKOWSKI 1976	n.	*	aqu.	1
<i>Ditoxum funinucleum</i> GASSOVSKY 1919	n.	*	symb.	0
<i>Dobeniella cubensis</i> (FURRAZOLA-BERMÚDEZ 1965) POP 1997	f.	**	foss.	1
<i>Dogielella sphaerii</i> POLJANSKY 1925	f.	*	symb.	0
<i>Dragescoa mirabilis</i> JANKOWSKI 1974	f.	*	aqu.	2
<i>Drepanomonas dentata</i> FRESENIUS 1858	f.	**	aqu.-terr.	1
<i>Drilocinetia libyodrili</i> (PUYTORAC 1958) RAABE 1972	f.	**	symb.	1
<i>Durandella helentappani</i> DRAGASTAN 1972	f.	*	foss.	1
<i>Durchioniella brasili</i> (LEGER & DUBOSC 1894) PUYTORAC 1954	f.	**	symb.	0
<i>Dysteria armata</i> HUXLEY 1857	f.	*	aqu.	6
<i>Dysterioides sessilina</i> MATTHES 1950	f.	*	aqu.-symb.	1
<i>Echinichona regina</i> JANKOWSKI 1973	f.	*	aqu.-symb.	1
<i>Echinocyclidium stercoris</i> (POWERS 1935) JANKOWSKI 1980	n.	*	aqu.	2
<i>Echinofolliculina mortenseni</i> DONS 1934	f.	*	aqu.	0
<i>Echinophrya horrida</i> SWARCZEWSKY 1928	f.	*	aqu.-symb.	0
<i>Echinosociella striatus</i> BERGER in SMALL & LYNN 1985	f.	**	symb.	1
<i>Echinostrombidium symbioticum</i> (JANKOWSKI 1974) JANKOWSKI 1978	n.	*	aqu.	1
<i>Eilymophrys gemmans</i> (BRESSLAU 1922) CORLISS 1979	f.	*	aqu.	1
<i>Electostoma vastum</i> (BOCK 1952) JANKOWSKI 1979	n.	*	aqu.	1
<i>Elephantophilus zeta</i> KOFOID 1935	m.	*	symb.	0
<i>Elitarcon harmothois</i> JANKOWSKI 1981	m.	*	aqu.	2
<i>Elliptothigma limnodrili</i> MEIER 1954	n.	**	symb.	0
<i>Ellobiophrya donacis</i> CHATTON & LWOFF 1923	f.	**	aqu.-symb.	3
<i>Elytroplastron bubali</i> KOFOID & MACLENNAN 1932	n.	***	symb.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Eminothigma kozloffii</i> (PUYTORAC 1968) JANKOWSKI in CORLISS 1979	n.	*	aqu.	1
<i>Enchelydium fusidens</i> KAHL 1930	n.	*	aqu.	3
<i>Enchelyodon</i> CLAPARÈDE & LACHMANN 1859; no type species	m.	**	aqu.-terr.	16
<i>Enchelyomorpha vermicularis</i> (SMITH 1899) KAHL 1930	f.	***	aqu.-terr.	4
<i>Enchelyotricha binucleata</i> FOISSNER 1987	f.	***	terr.	1
<i>Enchelys farcimen</i> MÜLLER 1773	f.	**	aqu.-terr.	19
<i>Endoralium loxodontae</i> ELOFF & HOVEN 1980	n.	**	symb.	1
<i>Endosphaera</i> ENGELMANN 1876; no type species	f.	*	aqu.-symb.	7
<i>Enerthecoma properans</i> JAROCKI 1935	f.	*	symb.	1
<i>Engelmanniella mobilis</i> (ENGELMANN 1862) FOISSNER 1982	f.	***	aqu.-terr.	3
<i>Enoploplastron triloricaatum</i> (DOGIEL 1925) KOFOID & MACLENNAN 1932	n.	***	symb.	1
<i>Enterophrya elongata</i> HASSELMANN 1918	f.	**	symb.	1
<i>Entodinium bursa</i> STEIN 1859	n.	***	symb.	8
<i>Entodiscoides echini</i> SONG, WARREN & WILBERT 1996	m.	***	symb.	1
<i>Entodiscus borealis</i> (HENTSCHEL 1924) MADSEN 1931	m.	*	symb.	4
<i>Entorhipidium echini</i> LYNCH 1929	n.	*	symb.	1
<i>Entziella asellicola</i> STILLER 1951	f.	**	symb.	1
<i>Eodinium lobatum</i> KOFOID & MACLENNAN 1932	n.	**	symb.	1
<i>Eometopus simplex</i> SMALL & LYNN 1985	n.	*	aqu.	1
<i>Epaxella mirabilis</i> (ROUX 1899) CORLISS 1960	f.	*	aqu.	2
<i>Epenardia myriophylli</i> (PENARD 1922) CORLISS 1971	f.	***	aqu.	1
<i>Ephelota</i> WRIGHT 1858; no type species	f.	**	symb.	19
<i>Epicancella nervosa</i> (CLEVE 1900) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Epicarchesium granulatum</i> (KELLCOTT 1887) JANKOWSKI 1985	n.	***	aqu.	1
<i>Epicharocotyle kyburzi</i> KOZLOFF 1965	f.	**	symb.	1
<i>Epiclintes felis</i> (MÜLLER 1786) CAREY & TATCHELL 1983	m.	***	aqu.	6
<i>Epicranella prismatica</i> KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Epidinium ecaudatum</i> (FIORENTINI 1889) CRAWLEY 1923	n.	***	symb.	15
<i>Epifolliculina diaphana</i> HADZI 1951	f.	*	aqu.	0
<i>Epimecophrya cylindrica</i> KAHL 1933	f.	**	aqu.	0
<i>Epiplastron africanum</i> (DOGIEL 1925) KOFOID & MACLENNAN 1933	n.	***	symb.	0
<i>Epirocylis acuminata</i> (DADAY 1887) JÖRGENSEN 1924	f.	**	aqu.	0
<i>Epirocylis reticulata</i> (OSTENFELD & SCHMIDT 1902) HADA 1938	f.	*	aqu.	1
<i>Epirhabdonella coronata</i> KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Epispathidium regium</i> FOISSNER 1984	n.	***	terr.	1
<i>Epistylis plicatilis</i> EHRENBERG 1830	m.	***	aqu.-terr.	8
<i>Erastophrya chattoni</i> FAURÉ-FREMIET 1943	f.	**	symb.	3
<i>Eremoplastron rostratum</i> (FIORENTINI 1889) KOFOID & MACLENNAN 1932	n.	**	symb.	6
<i>Eriochona horrida</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Erniella filiformis</i> FOISSNER 1987	f.	***	terr.	1
<i>Eschaneustyla brachytone</i> STOKES 1886	f.	***	terr.	1
<i>Espejoia obtusa</i> BÜRGER 1908	f.	*	aqu.	3
<i>Eudiplodinium maggii</i> (FIORENTINI 1889) DOGIEL 1927	n.	***	symb.	40
<i>Eudrilophrya complanata</i> PUYTORAC 1969	f.	**	symb.	0



Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Eufolliculina moebiusi</i> (KAHL 1932) HADZI 1951	f.	***	aqu.	1
<i>Euplotaspis cionaecola</i> CHATTON & SÉGUÉLA 1936	f.	**	symb.	2
<i>Euplotes charon</i> (EHRENBERG 1830) EHRENBERG in HEMPRICH & EHRENBERG 1831	m.	***	aqu.-terr.	630
<i>Euplotidium agitatum</i> NOLAND 1937	n.	*	aqu.	1
<i>Euplotoides patella</i> (MÜLLER 1773) BORROR & HILL 1995	m.	***	aqu.	1
<i>Euplotopsis affinis</i> (DUJARDIN 1841) BORROR & HILL 1995	f.	***	aqu.	1
<i>Eurychilum actinae</i> ANDRÉ 1910	n.	*	symb.	0
<i>Eurychona vitrea</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Eutintinnus birictus</i> (KOFOID & CAMPBELL 1929) KOFOID & CAMPBELL 1939	m.	**	aqu.	15
<i>Fabrea salina</i> HENNEGUY 1890	f.	**	aqu.	39
<i>Falconyctus indicus</i> (RAO) JANKOWSKI 1978	m.	*	aqu.-symb.	1
<i>Favella ehrenbergi</i> (CLAPARÈDE & LACHMANN 1858) JÖRGENSEN 1924	f.	*	aqu.	1
<i>Favelloides balearicus</i> (COLOM 1939) THALMANN 1942	m.	*	foss.	0
<i>Fenchelia crassa</i> (FENCHEL 1965) RAABE 1970	f.	**	symb.	1
<i>Filichona paradoxa</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Flectacineta livadiana</i> (MERESCHKOWSKI) JANKOWSKI 1978	f.	*	aqu.	1
<i>Flectichona crenata</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Foettingeria actiniarum</i> (CLAPARÈDE 1863) CAULLERY & MESNIL 1903	f.	***	symb.	3
<i>Foissnerella physonica</i> JANKOWSKI 1986	f.	*	aqu.	1
<i>Foissnerides heliophagus</i> SONG & WILBERT 1989	m.	***	aqu.	1
<i>Foliacella propatula</i> MAKARIEVA 1979	f.	**	foss.	1
<i>Folliculina ampulla</i> (MÜLLER 1786) LAMARCK 1816	f.	**	aqu.	8
<i>Fragmocirrus espeletiae</i> FOISSNER 2000	m.	***	terr.	0
<i>Frontonia leucas</i> (EHRENBERG 1833) EHRENBERG 1838	f.	***	aqu.-terr.	13
<i>Fundenia complanata</i> VUXANOVICI 1962	f.	*	aqu.	0
<i>Fungiphrya strobili</i> FOISSNER 1999	f.	***	terr.	1
<i>Furgasonia tricirrata</i> (GELEI 1932) JANKOWSKI 1964	f.	**	aqu.-terr.	10
<i>Furssenkoiella caucasia</i> MAKARIEVA 1979	f.	**	foss.	2
<i>Fuscheria nodosa</i> FOISSNER 1983	f.	***	aqu.-terr.	1
<i>Gajewskajophrya melosirae</i> (GAJEWSKAYA 1933) MATTHES 1988	f.	**	aqu.	1
<i>Gajewskiella macrostoma</i> OBOLKINA 1989	f.	**	aqu.	1
<i>Gargarius gargarius</i> CHATTON & LWOFF 1934	m.	**	symb.	1
<i>Gassovskiella galea</i> (GASSOVSKY 1918) GRAIN 1994	f.	*	symb.	1
<i>Gastrocirrhus intermedius</i> LEPSI 1928	m.	**	aqu.	3
<i>Gastronauta membranaceus</i> ENGELMANN in BÜTSCHLI 1889	m.	***	aqu.-terr.	3
<i>Gastrostyla steinii</i> ENGELMANN 1862	f.	***	aqu.-terr.	8
<i>Geimania jaboti</i> (CARINI 1938) ALBARET 1975	f.	*	symb.	0
<i>Geleia fossata</i> (KAHL 1933) FOISSNER 1998	f.	***	aqu.	2
<i>Gellertia heterotricha</i> (DRAGESCO 1960) DRAGESCO 1999	f.	***	aqu.	1
<i>Georgevitchiella aculeata</i> (GEORGÉVITCH 1941) PUYTORAC 1957	f.	*	symb.	0
<i>Gerda glans</i> CLAPARÈDE & LACHMANN 1858	f.	**	aqu.-symb.	6
<i>Gigantothrix herzogi</i> FOISSNER 1999	f.	***	terr.	1
<i>Glaucoma scintillans</i> (MÜLLER 1786) EHRENBERG 1830	f.	***	aqu.-terr.	10

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Glaucomella sagitta</i> (KAHL 1926) GROLIÈRE 1977	f.	**	aqu.	0
<i>Glauconema trihymene</i> THOMPSON 1966	n.	**	aqu.	2
<i>Goniocoma macomae</i> (CHATTON & LWOFF 1926) CHATTON & LWOFF 1950	f.	**	aqu.-symb.	0
<i>Gonostomum affine</i> (STEIN 1859) STERKI 1878	n.	***	aqu.-terr.	6
<i>Gonzeella coloniaris</i> KUFFERATH 1953	f.	*	aqu.	0
<i>Gorillophilus thoracatus</i> IMAI, IKEDA, COLLET & BONHOMME 1991	m.	***	symb.	1
<i>Grainis dizoon</i> JANKOWSKI 1997	m.	*	symb.	1
<i>Grandoria aculeata</i> (GRANDORI & GRANDORI 1934) CORLISS 1960	f.	*	terr.	1
<i>Grossglockneria acuta</i> FOISSNER 1980	f.	***	terr.	7
<i>Gruberella oviformis</i> (GRUBER 1884) CORLISS 1960	f.	*	aqu.	1
<i>Gruberia uninucleata</i> KAHL 1932	f.	**	aqu.	1
<i>Gullmarella faurei</i> FENCHEL 1964	f.	**	symb.	1
<i>Gymnodinioides inkystans</i> MINKIEWICZ 1912	m.	*	symb.	3
<i>Gymnozoum viviparum</i> MEUNIER 1910	n.	*	aqu.	1
<i>Hackenberglia langae</i> FOISSNER 1997	f.	***	aqu.	1
<i>Haematophagus megapiere</i> WOODCOCK & LODGE 1920	m.	*	symb.	0
<i>Halteria grandinella</i> (MÜLLER 1773) DUJARDIN 1841	f.	***	aqu.-terr.	16
<i>Haplocaulus furcellariae</i> (PRECHT 1935) WARREN 1988	m.	**	aqu.-terr.	1
<i>Haptophrya planariarum</i> (SIEBOLD 1839) STEIN 1867	f.	**	symb.	2
<i>Haptophryopsis pheretimae</i> PUYTORAC 1971	f.	**	symb.	1
<i>Harmocoma rostellum</i> (DEROUX 1976) JANKOWSKI 1980	f.	*	aqu.	1
<i>Hartmannula acrobates</i> (ENTZ 1884) POCHE 1913	f.	*	aqu.	0
<i>Hartmannulopsis dysteriana</i> DEROUX & DRAGESCO 1968	f.	**	aqu.	0
<i>Hastarcon islandicus</i> JANKOWSKI 1981	m.	*	aqu.	1
<i>Hastatella radians</i> ERLANGER 1890	f.	***	aqu.-terr.	0
<i>Hausmanniella discoidea</i> (GELLÉRT 1956) FOISSNER 1984	f.	**	terr.	3
<i>Helellophrya rhizodrili</i> (KACZANOWSKI 1961) (present paper)	f.	*	symb.	0
<i>Helicoproration gigas</i> (KAHL 1933) FAURÉ-FREMIET 1950	m.	**	aqu.	2
<i>Helicostoma oblongum</i> COHN 1866	n.	*	aqu.	5
<i>Helicostomella subulata</i> (EHRENBERG 1834) JÖRGENSEN 1924	f.	**	aqu.	19
<i>Helicozoster indicus</i> LATTEUR 1967	m.	*	symb.	2
<i>Heliochona sessilis</i> PLATE 1889	f.	*	aqu.-symb.	1
<i>Heliophrya rotunda</i> (HENTSCHEL 1916) MATTHES 1954 by synonymy	f.	*	aqu.	7
<i>Heliotheca caepula</i> (PENARD 1920) JANKOWSKI 1978	f.	*	aqu.	1
<i>Hemiamphisiella terricola</i> FOISSNER 1988	f.	***	terr.	2
<i>Hemicycliostyla sphagni</i> STOKES 1886	f.	*	aqu.	1
<i>Hemigastrostyla stenocephala</i> (BORROR 1963) SONG & WILBERT 1997	f.	*	aqu.	2
<i>Hemiholosticha viridis</i> GELEI 1954	f.	**	aqu.	1
<i>Heminotus caudatus</i> KAHL 1933	m.	**	aqu.	1
<i>Hemiprorodon gymnoposthium</i> STRELKOW 1939	m.	*	symb.	1
<i>Hemisincirra kahli</i> (BUIKAMP 1977) HEMBERGER in FOISSNER 1984	f.	**	terr.	9
<i>Hemipeira asteriasi</i> FABRE-DOMERGUE 1888	f.	**	symb.	1
<i>Hemitrichodina robusta</i> BASSON & VAN AS 1989	f.	**	symb.	1
<i>Herpetophrya astoma</i> SIEDLECKI 1902	f.	*	symb.	0

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Herpinella enigmatica</i> PUYTORAC 1954	f.	**	symb.	2
<i>Heterochona crinita</i> JANKOWSKI 1972	f.	*	aqu.-symb.	0
<i>Heterocinetopsis reichenowi</i> JAROCKI 1935	f.	**	symb.	1
<i>Heteropolaria horizontalis</i> (CHATTON 1936) FOISSNER & SCHUBERT 1977	f.	***	symb.	1
<i>Hexotricha globosa</i> CONN in CONN & EDMONDSON 1918	f.	*	aqu.	1
<i>Hippocomos loricatus</i> CZAPIK & JORDAN 1977	m.	**	aqu.	1
<i>Histiobalantium agile</i> STOKES 1886	n.	**	aqu.	13
<i>Histiculus histrio</i> (MÜLLER 1773) CORLISS 1960 by synonymy	m.	***	aqu.-terr.	42
<i>Holocoma primigenia</i> CHATTON & LWOFF 1950	f.	**	symb.	1
<i>Holophrya ovum</i> EHRENBERG 1831	f.	**	aqu.-terr.	1
<i>Holophryoides ovalis</i> (FIORENTINI 1890) GASSOVSKY 1919	m.	*	symb.	1
<i>Holophryozoon bovi</i> JIROVEC 1933	n.	*	symb.	1
<i>Holosticha kessleri</i> WRZEŚNIEWSKI 1877	f.	**	aqu.-terr.	2
<i>Holostichides chardezi</i> FOISSNER 1987	m.	***	terr.	1
<i>Homalogastra setosa</i> KAHL 1926	f.	**	aqu.-terr.	1
<i>Homalozoon vermiculare</i> (STOKES 1887) STOKES 1890	n.	***	aqu.	17
<i>Hoplitophrya secans</i> (STEIN 1859) STEIN 1860	f.	**	symb.	2
<i>Horocontus arcuatus</i> DEROUX 1976	m.	*	aqu.	0
<i>Hovasseiella polydora</i> PUYTORAC 1955	f.	**	symb.	0
<i>Hsiungella triciliata</i> (HSIUNG 1932) IMAI (present paper)	f.	***	symb.	0
<i>Hyalophysa chattoni</i> BRADBURY 1966	f.	***	symb.	12
<i>Hydrochoerella intestinalis</i> CUNHA & MUNIZ 1925	f.	*	symb.	2
<i>Hyloplotes appendiculatus</i> BUTSCHINSKY 1897	m.	*	aqu.	0
<i>Hypocoma parasitica</i> GRUBER 1884	f.	*	symb.	3
<i>Hypocomagalma dreissenae</i> JAROCKI & RAABE 1932	f.	***	symb.	1
<i>Hypocomatidium sphaerii</i> JAROCKI & RAABE 1932	n.	**	symb.	0
<i>Hypocomella cardii</i> (CHATTON & LWOFF 1922) CHATTON & LWOFF 1924	f.	**	symb.	0
<i>Hypocomidium modiolariae</i> CHATTON & LWOFF 1922	m.	**	symb.	0
<i>Hypocomidium fabius</i> RAABE 1938	n.	**	symb.	0
<i>Hypocomina patellarum</i> (LICHTENSTEIN 1921) CHATTON & LWOFF 1924	f.	**	symb.	1
<i>Hypotrichidium conicum</i> ILOWAISKY 1921	n.	***	aqu.	2
<i>Hysterocineta paludinarum</i> (STEIN 1861) DIESING 1866	f.	**	aqu.-symb.	1
<i>Hysterocinetoides intermedius</i> NGASSAM in PUYTORAC 1994	m.	*	symb.	0
<i>Hysterophrya enigmatica</i> PUYTORAC, GROLIÈRE & GRAIN 1979	f.	**	symb.	1
<i>Ichthyonyctus schulmani</i> (KY 1971) JANKOWSKI 1974	m.	*	symb.	0
<i>Ichthyophthirius multifiliis</i> FOUQUET 1876	m.	***	symb.	208
<i>Idiocolpoda pelobia</i> FOISSNER 1993	f.	***	terr.	1
<i>Ignotocoma sabellarum</i> KOZLOFF 1961	f.	**	symb.	0
<i>Ileonema dispar</i> STOKES 1884	n.	*	aqu.	0
<i>Ilsiella venusta</i> FOISSNER 1987	f.	***	terr.	1
<i>Indonyctus marina</i> (SANTHAKUMARI & NAIR) JANKOWSKI 1978	m.	**	symb.	3
<i>Inermichona patella</i> JANKOWSKI 1971	f.	*	aqu.-symb.	1
<i>Inferostoma jankowskii</i> KY 1971	n.	**	symb.	0
<i>Infundibulorium cameli</i> BOZHENKO 1925	n.	*	symb.	1

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Inocardion orbularius</i> (LAPPARENT 1918) MASTERS & SCOTT 1978	m.	**	foss.	1
<i>Insignicoma venusta</i> KOZLOFF 1946	f.	**	ymb.	1
<i>Intoshellina maupasi</i> CÉPÈDE 1910	f.	*	ymb.	0
<i>Intranstylum contrahens</i> FAURÉ-FREMIET 1904	n.	*	aqu.	1
<i>Inversochoa peregra</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	1
<i>Isochoa rotundata</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	1
<i>Isochonopsis kergueleni</i> BATISSE & CRUMEYROLLE 1988	f.	**	ymb.	1
<i>Isocomides mytili</i> (CHATTON & LWOFF 1922) CHATTON & LWOFF 1950	m.	**	ymb.	1
<i>Isocyclidium globosum</i> ESTEBAN, FINLAY & EMBLEY 1993	n.	***	aqu.	2
<i>Isopodarcon multicapitatum</i> (KENT 1882) JANKOWSKI 1981	n.	*	aqu.-ymb.	1
<i>Isotricha intestinalis</i> STEIN 1859	f.	***	ymb.	5
<i>Jaocorlissia dragescui</i> (CORLISS 1971) SMALL & LYNN 1985	f.	*	aqu.	1
<i>Jaroschia sumptuosa</i> FOISSNER 1993	f.	***	terr.	1
<i>Jeppsia calani</i> (JEPPS 1937) CORLISS 1960	f.	*	aqu.	0
<i>Jirovecella hegemonis</i> LOM 1957	f.	**	ymb.	1
<i>Juxtamesnilella deronis</i> PUYTORAC 1969	f.	**	ymb.	1
<i>Juxtaradiophrya elongata</i> (DELPHY 1922) PUYTORAC 1957 by synonymy	f.	**	ymb.	1
<i>Kahliella leptocirra</i> TUCOLESCO 1962	f.	*	aqu.	1
<i>Kahliella acrobates</i> (HORVÁTH 1932) CORLISS 1960	f.	**	terr.	1
<i>Kahlilembus attenuatus</i> (SMITH 1897) FOISSNER, BERGER & KOHMANN 1994 by synonymy	m.	***	aqu.-terr.	2
<i>Kalometopia perronni</i> BRAMY 1962	f.	**	aqu.-terr.	1
<i>Kejvia asymmetrica</i> KOSHEVOJ 1987	f.	**	foss.	1
<i>Kentrochona nebaliae</i> ROMPEL 1894	f.	*	aqu.-ymb.	1
<i>Kentrochonopsis multipara</i> DOFLEIN 1897	f.	*	aqu.	0
<i>Kentrophoros fasciolatus</i> SAUERBREY 1928	m.	*	aqu.	1
<i>Kentrophyllum antarcticum</i> PETZ, SONG & WILBERT 1995	n.	***	aqu.	1
<i>Kerona pediculus</i> (MÜLLER 1773) BLOCHMANN 1886	f.	***	aqu.	16
<i>Keronella gracilis</i> WIACKOWSKI 1985	f.	***	terr.	1
<i>Keronopsis helluo</i> PENARD 1922	f.	**	terr.	21
<i>Kiitricha marina</i> NOZAWA 1941	f.	*	aqu.	1
<i>Klonostricha horrida</i> (VUXANOVICI 1962) JANKOWSKI 1979	f.	*	aqu.	1
<i>Kofoidella eleutheriae</i> CÉPÈDE 1910	f.	*	ymb.	3
<i>Kopperia intestinalis</i> (KOPPERI 1935) CORLISS 1960	f.	*	ymb.	0
<i>Kotinia arcuata</i> (OBOLKINA 1995) OBOLKINA (present paper)	f.	**	aqu.	0
<i>Kovalevaia sulcata</i> (KOVALEVA 1966) FOISSNER 1997	f.	***	aqu.	1
<i>Kozloffia catenula</i> PUYTORAC 1969	f.	***	ymb.	1
<i>Kozloffiiella phoronopsidis</i> (KOZLOFF 1945) RAABE 1970	f.	**	ymb.	0
<i>Krassnigia auxiliaris</i> FOISSNER 1987	f.	***	terr.	0
<i>Kreyella muscicola</i> KAHL 1931	f.	*	terr.	2
<i>Kuehneltiella terricola</i> FOISSNER 1990	f.	***	terr.	1
<i>Kuklikophrya dragescoi</i> NJINÉ 1979	f.	**	aqu.-terr.	3
<i>Kyaroikeus cetarius</i> SNIEZEK, COATS & SMALL 1995	m.	***	ymb.	2
<i>Kysthothigma bacteriophilum</i> (MIYASHITA 1933) RAABE 1949	n.	**	ymb.	0

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Laackmanniella naviculaefera</i> (LAACKMANN 1907) KOFOID & CAMPBELL 1929	f.	***	aqu.	4
<i>Laboea</i> LOHMANN 1908; no type species	f.	**	aqu.	16
<i>Lacazea ovalis</i> DRAGESCO 1960	f.	*	aqu.	1
<i>Lacerus pespelicani</i> (PENARD 1922) JANKOWSKI 1967	m.	*	aqu.	0
<i>Lachmannella recurva</i> (CLAPARÈDE & LACHMANN 1859) CÉPÈDE 1910	f.	**	symb.	1
<i>Lacrymaria olor</i> (MÜLLER 1786) BORY 1824	f.	***	aqu.-terr.	1
<i>Lagenophrys vaginicola</i> STEIN 1852	f.	**	aqu.	38
<i>Lagotia</i> WRIGHT 1857; no type species	f.	*	aqu.	1
<i>Lagynophrya mutans</i> KAHL 1927	f.	**	aqu.-terr.	1
<i>Lagynurus pumilo</i> MANSFELD 1923	m.	*	aqu.	0
<i>Lagynus elegans</i> (ENGELMANN 1862) QUENNERSTEDT 1867	m.	***	aqu.	2
<i>Lambornella stegomyiae</i> KEILIN 1921	f.	*	symb.	2
<i>Lamtostyla lamottei</i> BUITKAMP 1977	f.	**	terr.	5
<i>Larvulina variabilis</i> PENARD 1922	f.	*	aqu.	0
<i>Latifolliculina incolorea</i> HADZI 1951	f.	*	aqu.	0
<i>Latteuria polyfaria</i> TIMOSHENKO & IMAI 1997	f.	***	symb.	1
<i>Laurentiella macrostoma</i> (DRAGESCO 1966) DRAGESCO & NJINÉ 1971	f.	**	aqu.-terr.	18
<i>Lavierella africana</i> BUISSON 1923	f.	*	symb.	1
<i>Lecanodiscus longus</i> (SWARCZEWSKY 1928) JANKOWSKI 1973	m.	*	aqu.-symb.	1
<i>Lecanophrya drosera</i> KAHL 1934	f.	*	aqu.	0
<i>Lecanophryella paraleptastaci</i> DOVGAL 1985	f.	**	symb.	1
<i>Lechriopyla mystax</i> LYNCH 1930	f.	***	symb.	3
<i>Leegaardiella sol</i> LYNN & MONTAGNES 1988	f.	**	aqu.	1
<i>Legendrea loyezae</i> FAURÉ-FREMIET 1908	f.	**	aqu.	1
<i>Lembadion bullinum</i> (MÜLLER 1786) PERTY 1849	n.	***	aqu.	15
<i>Lembadionella pusilla</i> KAHL 1933	f.	**	aqu.	0
<i>Lepidotrachelophyllum lineare</i> (LEPSI 1960) FOISSNER 1994 by synonymy	n.	**	aqu.	1
<i>Leptotintinnus pellucidus</i> (CLEVE 1899) JØRGENSEN 1901	m.	**	aqu.	3
<i>Leptopharynx costatus</i> MERMOD 1914	m.	***	aqu.-terr.	3
<i>Levanderella rodentium</i> KOPPERI 1937	f.	*	symb.	0
<i>Licnophora</i> CLAPARÈDE 1867; no type species	f.	**	symb.	9
<i>Liliimorpha viridis</i> GAJEWSKAJA 1928	f.	**	aqu.	0
<i>Limnoricus ceter</i> JANKOWSKI 1981	m.	*	aqu.	1
<i>Limnostrombidium viride</i> (STEIN 1867) KRÄINER 1995	n.	***	aqu.	3
<i>Linostomella vorticella</i> (EHRENBERG 1833) AESCHT in FOISSNER, BERGER & SCHAUMBURG 1999	f.	***	aqu.-terr.	1
<i>Lissacineta cothurnioides</i> (COLLIN 1909) JANKOWSKI 1978	f.	*	aqu.-symb.	2
<i>Lissostrombidium turcicum</i> (HOVASSE) JANKOWSKI 1978	n.	*	aqu.	1
<i>Listarcon angarensis</i> JANKOWSKI 1982	m.	*	symb.	1
<i>Litacineta gracilis</i> (WAILES) JANKOWSKI 1978	f.	*	aqu.	1
<i>Litonotus cygnus</i> (MÜLLER 1773) FOISSNER, BERGER, BLATTERER & KOHMANN 1995 by synonymy	m.	***	aqu.-terr.	4
<i>Litosolenius</i> STOKES 1893; no type species	m.	*	aqu.	0
<i>Lobochona limnorae</i> DONS 1941	f.	*	aqu.-symb.	0

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Lohmanniella</i> LEEGAARD 1915; no type species	f.	**	aqu.	13
<i>Lomiella bergeri</i> PUYTORAC & RAKOTOARIVÉLO 1965	f.	**	ymb.	0
<i>Longicollaria dobeni</i> (BORZA 1966) POP 1997	f.	***	foss.	1
<i>Longifragma obliqua</i> (KAHL 1926) FOISSNER 1984	f.	***	aqu.	1
<i>Longitricha flava</i> GAJEWSKAJA 1933	f.	*	aqu.	1
<i>Lopezoterenia torpens</i> (KAHL 1931) FOISSNER 1997	f.	***	aqu.	0
<i>Lophophorina capronata</i> PENARD 1922	f.	**	aqu.	0
<i>Lorenziella hungarica</i> KNAUER & NAGY 1964	f.	*	foss.	2
<i>Lorenziellites venustus</i> NAGY 1986	m.	**	foss.	1
<i>Lorenziellopsis arcuata</i> NAGY 1989	f.	**	foss.	1
<i>Loricophrya parva</i> (SCHULZ 1932) MATTHES 1956	f.	**	aqu.	3
<i>Loxocephalus luridus</i> EBERHARD 1862	m.	***	aqu.	1
<i>Loxodes rostrum</i> EHRENBERG 1830	m.	**	aqu.	2
<i>Loxophyllum meleagris</i> (MÜLLER 1773) DUJARDIN 1841	n.	***	aqu.	1
<i>Ludio parvulus</i> PENARD 1922	m.	*	aqu.	1
<i>Luminella punctata</i> (WAILES 1925) KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Luxiella mitra</i> LECAL 1953	f.	*	aqu.	0
<i>Luxophrya limbata</i> (MAUPAS) JANKOWSKI 1978	f.	*	aqu.	1
<i>Lwoffia cilifera</i> KOZLOFF 1955	f.	**	ymb.	0
<i>Lynchella gradata</i> (KAHL 1933) JANKOWSKI 1968	f.	**	aqu.	1
<i>Lynchellodon lynchelliformis</i> (BORROR 1972) JANKOWSKI 1980	m.	*	aqu.	1
<i>Macrocoleps caudatus</i> OBOLKINA 1995	m.	**	aqu.	1
<i>Macropodinium moiri</i> DEHORITY 1996	n.	***	ymb.	1
<i>Madsenia indomita</i> (MADSEN 1931) KAHL 1934	f.	*	ymb.	0
<i>Magnalembus oceanicus</i> SMALL & LYNN 1985	m.	**	aqu.	1
<i>Malacophrys rotans</i> KAHL 1926	f.	**	aqu.	2
<i>Mantoscyphidia littorinae</i> (ISSEL 1918) JANKOWSKI 1980	f.	**	ymb.	10
<i>Manuelophrya hannaе</i> (GUHL 1985) JANKOWSKI 1997	f.	**	ymb.	2
<i>Marginotricha grandis</i> (DRAGESCO 1954) JANKOWSKI 1978	f.	*	aqu.	2
<i>Marinecta pelagica</i> (DADAY 1888) JANKOWSKI 1973	f.	*	aqu.	1
<i>Marituja pelagica</i> GAJEWSKAJA 1928	f.	**	aqu.	4
<i>Maryna socialis</i> GRUBER 1879	f.	**	aqu.-terr.	1
<i>Maupasella nova</i> CÉPÉDE 1910	f.	**	ymb.	7
<i>Megadinium aethiopicum</i> LATTEUR & DUFÉY 1967	n.	*	ymb.	0
<i>Meiostoma georhychi</i> SANDON 1941	n.	*	ymb.	0
<i>Membranicola tamari</i> FOISSNER, BERGER & SCHAUMBURG 1999	f.	***	aqu.	1
<i>Mesanophrys carcini</i> (GROLIÈRE & LEGLISE 1977) SMALL & LYNN (present paper)	f.	**	aqu.	5
<i>Meseres</i> SCHEWIAKOFF 1892; no type species	m.	**	aqu.	3
<i>Mesnilella clavata</i> (LEIDY 1855) CÉPÉDE 1910	f.	*	ymb.	1
<i>Mesodinium acarus</i> (STEIN 1867) STEIN 1863 [sic]	n.	**	aqu.	2
<i>Mesogymnus interruptus</i> BERGER 1994	m.	**	ymb.	1
<i>Mesolembus fecalis</i> SMALL & LYNN 1985	m.	**	ymb.	1
<i>Mesothamnium hiketes</i> (PRECHT 1935) JANKOWSKI 1985	n.	*	aqu.-ymb.	1
<i>Metabakuella perbella</i> (ALEKPEROV & MAMAMEVA 1988) ALEKPEROV 1989	f.	*	aqu.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Metacineta mystacina</i> (EHRENBERG 1831) BÜTSCHLI 1889	f.	***	aqu.-terr.	4
<i>Metaclelandella termitis</i> UTTANGI & DESAI 1963	f.	**	ymb.	0
<i>Metacollinia luciensis</i> (POISSON 1921) JANKOWSKI 1980	f.	*	aqu.	1
<i>Metacylis mediterraneus</i> (MERESCHKOWSKY 1880) JÖRGENSEN 1924	m.	**	aqu.	3
<i>Metacystis truncata</i> COHN 1866	f.	*	aqu.	1
<i>Metadinium medium</i> AWERINZEW & MUTAFOWA 1914	n.	**	ymb.	1
<i>Metafolliculina nordgardi</i> DONS 1924	f.	**	aqu.	1
<i>Metanophrys durchoni</i> PUYTORAC, GROLIÈRE, ROQUE & DETCHEVA 1974	f.	**	ymb.	6
<i>Metanyctotherus congoi</i> (TUZET, MANIER & JOLIVET 1957) ALBARET 1970	m.	**	ymb.	2
<i>Metaphrya sagittae</i> IKEDA 1917	f.	*	ymb.	3
<i>Metapychostrum nucleogigas</i> NGASSAM & GRAIN 1997	n.	**	ymb.	1
<i>Metaracoelophrya intermedia</i> PUYTORAC & DRAGESCO 1969	f.	**	ymb.	0
<i>Metasicuophora petteri</i> ALBARET 1973	f.	**	ymb.	1
<i>Metastomum ochridense</i> GEORGÉVITCH 1941	n.	**	ymb.	0
<i>Metastrombidium sonnifer</i> JANKOWSKI 1980	n.	*	aqu.	2
<i>Metephelota coronata</i> WILLIS 1945	f.	*	aqu.	0
<i>Metopus es</i> (MÜLLER 1786) KAHL 1932 by synonymy	n.	**	aqu.-terr.	41
<i>Miamiensis avidus</i> THOMPSON & MOEWUS 1964	m.	**	ymb.	7
<i>Microcardiosoma multiseta</i> VUXANOVICI 1963	n.	*	aqu.	0
<i>Microcetella lappus</i> (ORPIN & MATHIESEN 1986) (present paper)	f.	*	ymb.	1
<i>Microchoanostoma enigmaticum</i> VUXANOVICI 1963	n.	*	aqu.	0
<i>Microdiaphanosoma arcuatum</i> (GRANDORI & GRANDORI 1934) WENZEL 1953	n.	***	terr.	1
<i>Micromidas hians</i> DELPHY 1938	m.	*	aqu.	0
<i>Micronyctus madagascari</i> (TUZET & MANIER 1954) JANKOWSKI 1978	m.	*	aqu.	1
<i>Microregma</i> KAHL 1930; no type species	n.	*	aqu.	0
<i>Microspiretta plankticola</i> (GELEI 1944) JANKOWSKI 1975	f.	*	aqu.	2
<i>Microthorax pusillus</i> ENGELMANN 1862	m.	***	aqu.-terr.	2
<i>Microxysma acutum</i> DEROUX 1976	n.	**	aqu.	0
<i>Micruncus complanatus</i> DELPHY 1938	m.	*	aqu.	0
<i>Micrundella membranata</i> (BUSCH 1948) LOEBLICH & TAPPAN 1968	f.	*	aqu.	0
<i>Mimophrya elegans</i> PUYTORAC 1969	f.	**	ymb.	0
<i>Miracineta saifulae</i> (MERESCHKOWSKY 1877) JANKOWSKI 1981	f.	*	aqu.	1
<i>Mirodysteria aplanata</i> KAHL 1933	f.	**	aqu.	0
<i>Mirofolliculina limnorae</i> (GIARD 1883) DONS 1928	f.	*	aqu.	0
<i>Mistarcon parasitica</i> (NOZAWA 1939) JANKOWSKI 1997	f.	*	ymb.	1
<i>Mixtophrya catenula</i> PUYTORAC 1969	f.	**	ymb.	1
<i>Monilicaryon monilatum</i> (STOKES 1886) JANKOWSKI 1967	n.	***	aqu.	2
<i>Monintranstylum rotundum</i> (BANINA 1977) JANKOWSKI 1993	n.	*	aqu.	1
<i>Monochilum frontatum</i> SCHEWIAKOFF 1893	n.	**	aqu.	0
<i>Monodinium balbianii</i> FABRE-DOMERGUE 1888	n.	***	aqu.-terr.	7
<i>Monodontophrya longissima</i> VEJDOVSKÝ 1892	f.	*	aqu.-ymb.	0
<i>Monoposthium acanthum</i> THURSTON & NOIROT-TIMOTHÉE 1973	n.	**	ymb.	1
<i>Mrazekiella costata</i> KIJENSKIJ 1926	f.	*	ymb.	0

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Mucophrya pelagica</i> GAJEWSKAJA 1928	f.	***	aqu.	2
<i>Mucotrichidium hospes</i> (EHRENBERG 1831) FOISSNER, OLEKSIV & MÜLLER 1990	n.	***	aqu.	1
<i>Multifasciculatum elegans</i> GOODRICH & JAHN 1943	n.	***	symb.	2
<i>Muniziella cunhai</i> FONSECA 1939	f.	*	symb.	1
<i>Musajevella minima</i> ALEKPEROV 1984	f.	**	aqu.	2
<i>Muscipula sebastiani</i> GUHL & GUHL 1993	f.	**	aqu.	1
<i>Mycterothrix tuamotuensis</i> (BALBIANI 1887) KAHL 1931	f.	**	aqu.-terr.	1
<i>Mykophagophrys terricola</i> (FOISSNER 1985) FOISSNER 1995	f.	***	terr.	1
<i>Mylestoma bipartitum</i> (GOURRET & ROESER 1886) KAHL 1928	n.	**	aqu.	0
<i>Myoschiston duplicatum</i> (PRECHT 1935) JANKOWSKI 1985	n.	*	aqu.-symb.	1
<i>Myoscyphidia hyalina</i> (BIEGEL 1954) JANKOWSKI 1985	f.	*	aqu.	1
<i>Myriokaryon lieberkuehnii</i> (BÜTSCHLI 1889) JANKOWSKI 1973	n.	*	aqu.	0
<i>Mytilophilus pacificae</i> ANTIPA & DOLAN 1985	m.	**	symb.	3
<i>Myxophthirus anomalocardiae</i> SILVA NETO 1992	m.	***	symb.	2
<i>Myxophyllum steenstruppi</i> (STEIN 1861) RAABE 1934	n.	**	symb.	3
<i>Nannocladinella epitheca</i> DEFLANDRE & DEUNFF 1957	f.	*	foss.	0
<i>Nannophrya truncata</i> KAHL 1933	f.	**	aqu.	0
<i>Nassula flava</i> (CLAPARÈDE & LACHMANN 1859) EHRENBERG [1834]	f.	**	aqu.-terr.	32
<i>Nassulopsis elegans</i> (EHRENBERG 1833) FOISSNER, BERGER & KOHMANN 1994	f.	***	aqu.	7
<i>Naxella lateritia</i> (CLAPARÈDE & LACHMANN 1859) FRYD-VERSABEL, IFTODE & DEROUX 1980	f.	*	aqu.	2
<i>Nematacineta rotunda</i> (ALLGEN 1950) JANKOWSKI 1978	f.	*	aqu.	1
<i>Nemertodendron prenanti</i> (DUBOSQ 1925) JANKOWSKI 1978	n.	*	aqu.	1
<i>Neobursaridium gigas</i> BALECH 1941	n.	**	aqu.	1
<i>Neogeneia hortualis</i> EIGNER 1995	f.	***	terr.	2
<i>Neonyctotherus dragescoi</i> AFFA'A 1983	m.	**	symb.	1
<i>Nicollella ctenodactyli</i> CHATTON & PÉRARD 1919	f.	**	symb.	0
<i>Niemarshallia aperta</i> (MARSHALL 1934) CORLISS 1960	f.	*	aqu.	0
<i>Nipponarcon setarium</i> JANKOWSKI 1981	m.	*	aqu.	1
<i>Nivaliella plana</i> FOISSNER 1980	f.	***	terr.	2
<i>Njinella prolifera</i> NGASSAM 1983	f.	**	symb.	1
<i>Nolaclusilis bicornis</i> SNYDER & BROWNLEE 1991	m.	**	aqu.	1
<i>Notocephalus parvulus</i> (CORLISS & SNYDER 1986) PETZ, SONG & WILBERT 1995	m.	***	aqu.	1
<i>Notohymena rubescens</i> BLATTERER & FOISSNER 1988	f.	***	aqu.-terr.	3
<i>Notoxoma parabryophryides</i> FOISSNER 1993	n.	***	terr.	1
<i>Novistrombidium testaceum</i> (ANIGSTEIN 1914) SONG & BRADBURY 1998	n.	**	aqu.	1
<i>Nuchterleinella corneliae</i> MATTHES 1990	f.	*	aqu.-symb.	2
<i>Nucleocorbula adherens</i> SANTHAKUMARI & NAIR 1970	f.	*	symb.	2
<i>Nyctositum amieti</i> AFFA'A 1979	n.	**	symb.	1
<i>Nyctotheroides cordiformis</i> (EHRENBERG 1838) GRASSÉ 1928	m.	**	symb.	2
<i>Nyctotherus velox</i> LEIDY 1849	m.	**	symb.	1
<i>Obertrumia aurea</i> (EHRENBERG 1833) FOISSNER 1987 by synonymy	f.	***	aqu.-terr.	3
<i>Ochoterenaiia appendiculata</i> CHAVARRIA 1933	f.	***	symb.	1
<i>Ochridanus ocellatus</i> GEORGÉVITCH 1941	m.	**	symb.	0



Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Odontochlamys gouraudi</i> CERTES 1891	m.	***	terr.	1
<i>Odontophorella serrulata</i> KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Oenophorachona ectenolaemus</i> MATSUDO & MOHR 1968	f.	*	aqu.-symb.	0
<i>Ogimotoa trichoradiata</i> ITO & IMAI 2000	f.	*	symb.	0
<i>Ogimotopsis campanulata</i> ITO & IMAI 2000	f.	**	symb.	0
<i>Olgella priori</i> KOSHEVOJ 1987	f.	**	foss.	1
<i>Oligoisotricha bubali</i> (DOGIEL 1928) IMAI 1981	f.	***	symb.	4
<i>Ollella karlovensis</i> (KOSHEVOJ 1987) (present paper)	f.	*	foss.	1
<i>Oncosonderia tubigula</i> (KAHL 1930) JANKOWSKI 1980	f.	*	aqu.	1
<i>Onychodromopsis flexilis</i> STOKES 1887	f.	***	aqu.-terr.	1
<i>Onychodromus grandis</i> STEIN 1859	m.	**	aqu.	4
<i>Opalinopsis</i> FOETTINGER 1881; no type species	f.	*	symb.	0
<i>Opercularia articulata</i> GOLDFUSS 1820	f.	**	aqu.-terr.	43
<i>Operculariella parasitica</i> STAMMER 1948	f.	*	aqu.-symb.	1
<i>Operculigera montanea</i> KANE 1969	f.	**	symb.	3
<i>Ophiuraespira weilli</i> CHATTON & LWOFF 1930	f.	**	symb.	0
<i>Ophiurephelota tenax</i> JANKOWSKI 1981	f.	*	aqu.	2
<i>Ophrydium versatile</i> (MÜLLER 1786) BORY 1824	n.	***	aqu.	14
<i>Ophryocephalus capitatus</i> WAILES 1925	m.	*	aqu.	0
<i>Ophryodendron abietinum</i> CLAPARÈDE & LACHMANN 1859	n.	**	symb.	4
<i>Ophryoglena citrea</i> EHRENBERG 1831	f.	**	symb.	19
<i>Ophryoscolex inermis</i> STEIN 1859	m.	***	symb.	16
<i>Opisthodon niemeccensis</i> STEIN 1859	m.	**	aqu.	2
<i>Opisthonecta henneguyi</i> FAURÉ-FREMIET 1906	f.	***	aqu.-terr.	6
<i>Opisthostomatella bengalensis</i> (GHOSH 1928) CORLISS 1960	f.	*	aqu.	1
<i>Opisthotrichum janus</i> (DOGIEL 1923) DOGIEL 1927 by synonymy	n.	**	symb.	1
<i>Orbopercularia berberina</i> (LINNAEUS 1767) GUHL 1979	f.	**	symb.	16
<i>Orbopyxidiella stammeri</i> (LUST 1950) GUHL 1979	f.	*	aqu.	6
<i>Orcavia spelea</i> TUCOLESCO 1962	f.	*	aqu.	0
<i>Orchitophrya stellarum</i> CÈPÈDE 1907	f.	**	symb.	6
<i>Ormosella cornucopia</i> KOFOID & CAMPBELL 1929	f.	*	aqu.	1
<i>Orsomia manganoti</i> BAER 1952	f.	*	symb.	0
<i>Orthoamphisiella stramenticola</i> EIGNER & FOISSNER 1991	f.	***	terr.	3
<i>Orthodonella hamatus</i> (GRUBER 1884) BHATIA 1936	f.	*	aqu.	1
<i>Orthokreyella schiffmanni</i> FOISSNER 1984	f.	***	terr.	1
<i>Orthurceolaria elongata</i> (FENCHEL 1965) JANKOWSKI 1980	f.	*	symb.	1
<i>Ostracodinium dentatum</i> (FORENTINI 1889) DOGIEL 1927	n.	***	symb.	14
<i>Ovalorhabdos sapropelica</i> FOISSNER 1984	f.	*	aqu.	1
<i>Ovolembus caroni</i> SMALL & LYNN 1985	m.	**	aqu.	1
<i>Oxychonina multifida</i> (JANKOWSKI 1973) CORLISS 1979	f.	*	aqu.	1
<i>Oxytricha granulifera</i> FOISSNER & ADAM 1983	f.	***	aqu.-terr.	6
<i>Pachyfolliculina gunneri</i> (DONS 1927) HADZI 1951	f.	*	aqu.	0
<i>Pachystomos olisthus</i> (RUDZINSKA 1948) RUDZINSKA 1952	m.	*	symb.	0
<i>Pallitrichodina rogenae</i> (VAN AS & BASSON 1993) VAN AS & BASSON (present paper)	f.	**	symb.	1
<i>Palmarella salina</i> (GAJEWSKAJA 1925) JANKOWSKI 1975	f.	*	aqu.	2

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Papillorhabdos multinucleata</i> FOISSNER 1984	f.	***	aqu.-terr.	1
<i>Parablaste clavata</i> CRAGIN 1889	f.	*	aqu.	0
<i>Parabryophrya penardi</i> (KAHL 1931) FOISSNER 1985	f.	***	terr.	1
<i>Parabundleia ruminantium</i> IMAI & OGIMOTO 1983	f.	***	ymb.	1
<i>Parachilonella lygiae</i> DRAGESCO 1966	f.	**	aqu.	0
<i>Parachitinoidea cuvillieri</i> TREJO 1972	f.	*	foss.	1
<i>Paracichlidotherus leeuwenhoekii</i> GRIM 1992	m.	**	ymb.	2
<i>Paracineta patula</i> (CLAPARÈDE & LACHMANN 1861) COLLIN 1911	f.	**	aqu.-terr.	1
<i>Paraclathrostoma marinum</i> SMALL & LYNN 1985	n.	**	aqu.	1
<i>Paraclelandia brevis</i> KIDDER 1937	f.	**	ymb.	0
<i>Paracollinia branchiarum</i> (STEIN) JANKOWSKI 1980	f.	*	aqu.	1
<i>Paracolpidium truncatum</i> (STOKES 1885) GANNER & FOISSNER 1989	n.	***	aqu.	2
<i>Paracondylostoma setigerum</i> FOISSNER 1980	n.	***	aqu.	1
<i>Paractedectoma minuta</i> SMALL & LYNN 1985	f.	**	aqu.	0
<i>Paractedoctema acruosa</i> SONG & WILBERT 2000	n.	*	ymb.	0
<i>Paracunhamunizia calocoma</i> ITO & IMAI 2000	f.	*	ymb.	0
<i>Paracyclidium rhabdotectum</i> (POWERS 1935) GROLIÈRE, PUYTORAC & GRAIN 1980	n.	**	aqu.	1
<i>Paracycloposthium hydrochoeri</i> (CUNHA 1915) GRAIN 1994	n.	*	ymb.	1
<i>Paradexiotricha puytoraci</i> GROLIÈRE 1975	f.	**	aqu.	0
<i>Paradileptus flagellatus</i> (ROUSSELET 1890) WENRICH 1929	m.	**	aqu.	3
<i>Paradiophrys irmgard</i> (MANSFELD 1923) JANKOWSKI 1978	f.	**	aqu.	1
<i>Paraenchelys spiralis</i> FOISSNER 1983	m.	***	aqu.-terr.	1
<i>Paraeuplotes tortugensis</i> WICHTERMANN 1942	m.	*	ymb.	0
<i>Parafavella denticulata</i> (EHRENBERG 1840) KOFOID & CAMPBELL 1929	f.	**	aqu.	4
<i>Parafavelloides ruesti</i> DEFLANDRE & DEFLANDRE 1949	m.	*	foss.	0
<i>Parafolliculina</i> DONS 1914; no type species	f.	*	aqu.	0
<i>Parafurgasonia sorex</i> (PENARD 1922) FOISSNER & ADAM 1981	f.	***	terr.	1
<i>Paragastrostyla lanceolata</i> HEMBERGER 1985	f.	**	terr.	1
<i>Paraglaucoma rostrata</i> KAHL 1926	f.	**	aqu.	1
<i>Paraholosticha herbicola</i> (KAHL 1932) WENZEL 1953	f.	*	aqu.	1
<i>Parahypocoma collini</i> CHATTON & LWOFF 1939	f.	**	ymb.	0
<i>Paraisotricha colpoidea</i> FIORENTINI 1890	f.	***	ymb.	0
<i>Paraisotrichopsis composita</i> GASOVSKY 1919	f.	*	ymb.	0
<i>Parakahiella macrostoma</i> (FOISSNER 1982) BERGER, FOISSNER & ADAM 1985	f.	***	terr.	2
<i>Paralagenophrys singularis</i> (KELLICOTT 1887) CLAMP 1987	f.	**	aqu.	1
<i>Paraloxocephalus coatsi</i> SMALL & LYNN 1985	m.	**	aqu.	1
<i>Paramecium aurelia</i> MÜLLER 1773	n.	***	aqu.	2065
<i>Parametopidium circumlabens</i> (BIGGAR & WENRICH 1932) (PRESENT PAPER)	n.	*	ymb.	0
<i>Paramitrella caudatus</i> (BULLINGTON 1940) JANKOWSKI 1978	f.	*	aqu.	1
<i>Paramphisiella acuta</i> (FOISSNER 1982) FOISSNER 1988	f.	***	aqu.-terr.	1
<i>Paranassula microstoma</i> (CLAPARÈDE & LACHMANN 1859) KAHL 1931	f.	**	aqu.	1
<i>Paranophrys marina</i> THOMPSON & BERGER 1965	f.	**	ymb.	21
<i>Paranoplophrya vivipari</i> ROHRBACH 1936	f.	*	ymb.	0

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Paraoxychona inversa</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Parapetalotricha meridiana</i> HADA 1970	f.	*	aqu.	0
<i>Paraphilaster echini</i> GROLIÈRE, PUYTORAC & GRAIN 1978	m.	**	symb.	2
<i>Paraplagiopyla kiboko</i> THURSTON & GRAIN 1971	f.	**	symb.	1
<i>Parapodophrya soliformis</i> (LAUTERBORN 1908) KAHL 1931	f.	***	aqu.	2
<i>Paraprorodon morgani</i> (KAHL 1930) FOISSNER 1983	m.	***	aqu.	1
<i>Parapytchostomum almae</i> NGASSAM, PUYTORAC & GRAIN 1994	n.	**	symb.	1
<i>Parapyxicola ligiae</i> (CUENOT 1891) JANKOWSKI 1985	f.	*	aqu.	1
<i>Pararaabena dentata</i> WOLSKA 1968	f.	**	symb.	0
<i>Parasicuophora mantellae</i> ALBARET 1968	f.	**	symb.	3
<i>Paraspathidium trichostomum</i> NOLAND 1937	n.	*	aqu.	2
<i>Parastentor tentaculatus</i> VUXANOVICI 1961	m.	*	aqu.	0
<i>Parastrongylidium martini</i> FLEURY & FRYD-VERSAVEL 1985	n.	*	aqu.	1
<i>Parastylonychia plouneouri</i> DRAGESCO 1963	f.	*	aqu.	2
<i>Parastylophrya tumidis</i> (GAJEWSKAJA 1933) JANKOWSKI 1978	f.	*	aqu.	1
<i>Paratetrahymena wassi</i> THOMPSON 1963	f.	**	symb.	1
<i>Paratrichodina globonuclea</i> LOM 1963	f.	**	symb.	17
<i>Paratrochilia chilodontoides</i> KAHL 1933	f.	**	aqu.	0
<i>Parauronema virginianum</i> THOMPSON 1967	n.	**	aqu.	1
<i>Paraurostyla weissei</i> (STEIN 1859) BORROR 1972	f.	***	aqu.-terr.	62
<i>Paraurotricha discolor</i> (KAHL 1930) FOISSNER 1983	f.	***	aqu.	1
<i>Paravorticella terebellae</i> (FAURÉ-FREMIET 1920) KAHL 1933	f.	**	symb.	1
<i>Parazoothamnium stenoticum</i> PIESIK 1975	n.	**	aqu.	1
<i>Parducia orbis</i> (FAURÉ-FREMIET 1950) DRAGESCO 1999	f.	***	aqu.	0
<i>Parentocirrus hortualis</i> VOB 1997	m.	***	aqu.	2
<i>Parentodinium africanum</i> THURSTON & NOIROT-TIMOTHÉE 1973	n.	**	symb.	2
<i>Parhypocoma collini</i> CHATTON & LWOFF 1939	f.	**	symb.	0
<i>Parurosoma dubium</i> GELEI 1954	n.	**	aqu.	2
<i>Pattersoniella vitiphila</i> FOISSNER 1987	f.	***	terr.	2
<i>Pebrilla paguri</i> GIARD 1888	f.	*	aqu.	1
<i>Pectenita golikowi</i> JANKOWSKI 1973	f.	*	symb.	0
<i>Pediostomum diedrum</i> (FAURÉ-FREMIET 1924) KAHL 1932	n.	**	aqu.	1
<i>Pedohymena australiensis</i> FOISSNER 1995	f.	***	terr.	1
<i>Pelagacineta interrupta</i> (SCHRÖDER) JANKOWSKI 1978	f.	*	aqu.	1
<i>Pelagodileptus tracheloides</i> (ZACHARIAS 1894) FOISSNER, BERGER & SCHAUMBURG 1999	m.	***	aqu.	1
<i>Pelagohalteria viridis</i> (FROMNTEL 1876) FOISSNER, SKOGSTAD & PRATT 1988	f.	***	aqu.	1
<i>Pelagolacrymaria moserae</i> FOISSNER, BERGER & SCHAUMBURG 1999	f.	***	aqu.	1
<i>Pelagostrobilidium neptuni</i> (MONTAGNES & TAYLOR 1994) PETZ, SONG & WILBERT 1995	n.	***	aqu.	1
<i>Pelagostrombidium mirabile</i> (PENARD 1916) KRAINER 1991	n.	***	aqu.	2
<i>Pelagothrix chlorelligera</i> FOISSNER, BERGER & SCHAUMBURG 1999	f.	***	aqu.	1
<i>Pelagotrichidium faurei</i> (TUFFRAU 1972) JANKOWSKI 1978	n.	**	aqu.-terr.	1
<i>Pelagovasicola cinctus</i> (VOIGT 1901) JANKOWSKI 1980	m.	***	aqu.	2
<i>Pelagovorticella mayeri</i> (FAURÉ-FREMIET 1920) JANKOWSKI 1980	f.	**	aqu.	1

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Pelatractus</i> KAHL 1930; no type species	m.	*	aqu.	0
<i>Pelecypophrya tapetis</i> CHATTON & LWOFF 1922	f.	**	symb.	1
<i>Pelodinium reniforme</i> LAUTERBORN 1908	n.	*	aqu.	0
<i>Penardiella interrupta</i> (PENARD 1922) KAHL 1930	f.	**	aqu.	0
<i>Peniculistoma mytili</i> (MORGAN 1925) JANKOWSKI 1964	n.	**	symb.	2
<i>Pentahymena corticicola</i> FOISSNER 1994	f.	***	terr.	1
<i>Perezella pelagica</i> CÉPÈDE 1910	f.	*	symb.	0
<i>Pericaryon cesticola</i> CHATTON 1911	n.	*	aqu.	0
<i>Peridion gigas</i> VUXANOVICI 1962	n.	*	aqu.	0
<i>Peridionella truncata</i> VUXANOVICI 1963	f.	*	aqu.	0
<i>Peridiscophrya japonica</i> NOZAWA 1938	f.	*	aqu.	1
<i>Perifolliculina roestensis</i> (DONS 1931) HADZI 1951	f.	*	aqu.	0
<i>Periholosticha lanceolata</i> HEMBERGER 1985	f.	**	terr.	1
<i>Perisincirra kahli</i> (GROLIÈRE 1975) JANKOWSKI 1978	f.	*	aqu.	1
<i>Perispira ovum</i> STEIN 1859	f.	**	aqu.	2
<i>Peristrombidium latum</i> (KAHL 1932) JANKOWSKI 1978	n.	*	aqu.	1
<i>Peritromus emmae</i> STEIN 1863	m.	**	aqu.	5
<i>Perseia dogieli</i> ROSSOLIMO 1926	f.	*	symb.	0
<i>Pescozoon euplotes</i> (DRAGESCO 1960) JANKOWSKI 1978	f.	*	aqu.	1
<i>Petalotricha ampulla</i> (FOL 1881) KENT 1881	f.	*	aqu.	0
<i>Phacodinium muscorum</i> PROWAZEK 1900	n.	**	aqu.-terr.	6
<i>Phalacrocleptes verruciformis</i> KOZLOFF 1966	m.	**	symb.	0
<i>Phalodinium digitalis</i> VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1987	n.	**	symb.	1
<i>Phascalodon vorticella</i> STEIN 1859	m.	**	aqu.	4
<i>Phialina</i> BORY 1824; no type species	f.	**	aqu.-terr.	7
<i>Phialinides australis</i> FOISSNER 1988	m.	***	terr.	1
<i>Philaster digitiformis</i> FABRE-DOMERGUE 1885	m.	**	aqu.	1
<i>Philasterides armata</i> (KAHL 1926) KAHL 1931	f.	***	aqu.	2
<i>Phoretophrya nebaliae</i> CHATTON, LWOFF & LWOFF 1930	f.	**	symb.	2
<i>Phorophrya insidiosa</i> CHATTON, LWOFF & LWOFF 1930	f.	**	symb.	0
<i>Phyllacineta jolyi</i> (MAUPAS 1881) JANKOWSKI 1978	f.	*	aqu.	1
<i>Phyllochona vexillata</i> JANKOWSKI 1972	f.	*	aqu.-symb.	0
<i>Phyllotrichum striatum</i> ENGELMANN in BÜTSCHLI 1889	n.	*	aqu.	0
<i>Physalophrya spumosa</i> (PENARD 1922) KAHL 1931	f.	*	aqu.	0
<i>Physanter thermalis</i> (ROQUE 1966) JANKOWSKI 1975	m.	*	aqu.	1
<i>Physochona australis</i> BATISSE & CRUMEYROLLE 1988	f.	**	aqu.-symb.	1
<i>Piesika gammari</i> (PIESIK 1975) WARREN 1988	f.	**	symb.	1
<i>Pinchatia chaetophorae</i> (PENARD 1922) SHIBUYA 1931	f.	*	aqu.	0
<i>Pingius minutus</i> HSIUNG 1932	m.	*	symb.	1
<i>Pithites vorax</i> DEROUX & DRAGESCO 1968	m.	**	aqu.	0
<i>Pithothorax processus</i> KAHL 1926	m.	*	aqu.	0
<i>Placus striatus</i> COHN 1866	m.	*	aqu.	2
<i>Plagiocampa mutabilis</i> SCHEWIAKOFF 1893	f.	**	aqu.-terr.	13
<i>Plagiopogon coleps</i> (EHRENBERG 1831) STEIN 1859	n.	**	aqu.	1
<i>Plagiopyla nasuta</i> STEIN 1860	f.	***	aqu.	7

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Plagiopyliella pacifica</i> POLJANSKY 1951	f.	***	ymb.	1
<i>Plagiospira crinita</i> ISSEL 1903	f.	**	ymb.	0
<i>Plagiotoma lumbrici</i> (SCHRANK 1803) DUJARDIN 1841	f.	***	ymb.	2
<i>Planeticovorticella finleyi</i> CLAMP & COATS 2000	f.	*	aqu.	0
<i>Planicoleps psammophilus</i> DRAGESCO & DRAGESCO-KERNÉIS 1991	m.	**	aqu.	1
<i>Planifolliculina cumbens</i> HADZI 1951	f.	*	aqu.	0
<i>Platycola decumbens</i> (EHRENBERG 1830) KENT 1882	f.	**	aqu.-terr.	3
<i>Platyfolliculina sahrhageana</i> HADZI 1938	f.	*	aqu.	0
<i>Platynematum sociale</i> (PENARD 1922) FOISSNER, BERGER & KOHMANN	n.	***	aqu.	2
<i>Platyophrya vorax</i> KAHL 1926	f.	***	aqu.-terr.	5
<i>Platyophryides latus</i> (KAHL 1930) FOISSNER 1987	m.	***	terr.	2
<i>Pleochona coronata</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	1
<i>Plesiotrichopus natans</i> FAURÉ-FREMIET 1965	m.	**	aqu.	0
<i>Pleurochilidium strigilatum</i> STEIN 1860	n.	*	aqu.	0
<i>Pleurocoptes hydractiniae</i> WALLENGREN 1896	m.	**	ymb.	1
<i>Pleurofragma mimeticus</i> (KAHL 1930) JANKOWSKI 1976	f.	*	aqu.	1
<i>Pleuronema crassum</i> DUJARDIN 1841 by synonymy	n.	**	aqu.	25
<i>Pleurophryodendron reversum</i> (COLLIN) JANKOWSKI 1978	n.	*	aqu.-ymb.	1
<i>Pleurolites australis</i> FOISSNER 1988	m.	***	terr.	1
<i>Pleurolitoides smithi</i> FOISSNER 1996	m.	***	terr.	1
<i>Pleurotricha lanceolata</i> (EHRENBERG 1835) STEIN 1859	f.	**	aqu.	6
<i>Podocyathus diadema</i> KENT 1882	m.	*	ymb.	1
<i>Podophrya fixa</i> (MÜLLER 1786) EHRENBERG [1834]	f.	**	aqu.-terr.	2
<i>Polycycla discophora</i> POLJANSKY 1951	f.	**	ymb.	0
<i>Polydiniella mysorea</i> (KOFOID 1935) CORLISS 1960	f.	*	ymb.	0
<i>Polymorphella ampulla</i> (DOGIEL 1929) CORLISS 1960	f.	*	ymb.	2
<i>Polyplastron multivesiculatum</i> (DOGIEL & FEDOROWA 1925) DOGIEL 1927	n.	***	ymb.	37
<i>Polyspira delagei</i> MINKIEWICZ 1912	f.	*	ymb.	1
<i>Pompholyxia sipunculi</i> FABRE-DOMERGUE 1886	f.	*	aqu.	0
<i>Ponturostyla enigmatica</i> (DRAGESCO & DRAGESCO-KERNEIS 1986) JANKOWSKI 1989	f.	*	aqu.	1
<i>Poroecus apiculatus</i> (CLEVE 1899) CLEVE 1902	m.	*	aqu.	1
<i>Potomacus pottsi</i> THOMPSON 1966	m.	***	aqu.	3
<i>Pottsiocles infusoriorum</i> (CHATTON & LWOFF 1927) CORLISS 1960	n.	*	ymb.	4
<i>Praecalpionellites murgeanui</i> (POP 1974) POP 1986	m.	**	foss.	1
<i>Praecalpionellopsis gemeriensis</i> BORZA 1971	f.	**	foss.	1
<i>Praecolomiella trejoi</i> BORZA 1979	f.	**	foss.	1
<i>Praethecacineta inclusa</i> (MEUNIER) MATTHES 1956	f.	*	aqu.-ymb.	2
<i>Praetintinnopsella andrusovi</i> BORZA 1969	f.	*	foss.	1
<i>Predurostyla arenaria</i> (SPIEGEL 1926) JANKOWSKI 1978	f.	*	aqu.	1
<i>Preptychostomum almae</i> PUYTORAC 1969	n.	**	ymb.	1
<i>Priscofolliculina pulchra</i> DEFLANDRE & DEUNFF 1957	f.	*	foss.	0
<i>Proamphorella quinquealata</i> (LAACKMANN 1907) KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Proboveria loripedis</i> CHATTON & LWOFF 1936	f.	**	ymb.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Proclausilocola complanata</i> LOM 1959	f.	**	symb.	1
<i>Procondylostoma ancestrale</i> (VILLENEUVE-BRACHON 1940) JANKOWSKI 1979	n.	*	aqu.	1
<i>Prodiscocephalus minimus</i> (DRAGESCO 1968) JANKOWSKI 1979	m.	*	aqu.	1
<i>Prodiscophrya collini</i> (ROOT 1914) KORMOS 1935	f.	***	aqu.	2
<i>Prolicnophora setifera</i> (MASKELL 1886) JANKOWSKI 1978	f.	*	aqu.	1
<i>Proluxophrya vorticelloides</i> (FRAIPONT 1878) JANKOWSKI 1978	f.	*	aqu.	1
<i>Pronyctotherus dragescoi</i> ALBARET & NJINÉ 1976	m.	**	symb.	0
<i>Proplectella claparedii</i> (ENTZ 1885) KOFOID & CAMPBELL 1929	f.	*	aqu.	1
<i>Proptychostomum commune</i> NGASSAM & GRAIN 1997	n.	**	symb.	1
<i>Propyogocirrus adhaerens</i> MANSFELD 1923	m.	*	aqu.	0
<i>Propyxidium cothurnoides</i> (KENT 1881) CORLISS 1979	n.	*	aqu.	1
<i>Prorodon niveus</i> EHRENBERG [1834]	m.	**	aqu.	1
<i>Prorodonopsis coli</i> GASOVSKY 1919	f.	*	symb.	1
<i>Prosicuphthora basoglui</i> PUYTORAC & OKTEM 1967	f.	**	symb.	7
<i>Prosteliella phialia</i> (KOFOID & CAMPBELL 1929) KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Protanoplophrya stomata</i> MIYASHITA 1929	f.	**	symb.	0
<i>Protocaviella acuminata</i> (CUNHA 1915) KOPPERI 1935	f.	*	symb.	2
<i>Protocruzia pigerrima</i> (COHN 1866) FARIA, CUNHA & PINTO 1922	f.	*	aqu.	1
<i>Protocyclidium terrenum</i> ALEKPEROV 1993	n.	**	terr.	1
<i>Protocymatocylis subrotundata</i> (LAACKMANN 1910) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Protohallia uncinata</i> (CUNHA & MUNIZ 1925) CUNHA & MUNIZ 1927	f.	*	symb.	0
<i>Protoisotricha agricolaegrestis</i> KOPPERI 1935	f.	*	symb.	2
<i>Protolutzia hydrochoeri</i> CUNHA & MUNIZ 1925	f.	*	symb.	0
<i>Protophrya ovicola</i> KOFOID 1903	f.	*	symb.	1
<i>Protophryopsis dautzenbergi</i> (CHATTON & LWOFF 1926) RAABE 1959	f.	*	symb.	0
<i>Proptychostomum simplex</i> (ANDRÉ 1915) RAABE 1949	n.	**	symb.	1
<i>Protoradiophryopsis ochridensis</i> GEORGÉVITCH 1950	f.	*	symb.	0
<i>Protorhabdonella simplex</i> (CLEVE 1900) JÖRGENSEN 1924	f.	**	aqu.	2
<i>Protospathidium muscicola</i> (DRAGESCO & DRAGESCO-KERNÉIS 1979) FOISSNER 1984	n.	***	terr.	2
<i>Protospirella mazurica</i> (RAABE 1968) (present paper)	f.	*	symb.	0
<i>Prototapirella intestinalis</i> CUNHA 1918	f.	**	symb.	2
<i>Prototrachelocerca fasciolata</i> (SAUERBREY 1928) FOISSNER 1996	f.	***	aqu.	1
<i>Prototravassosia costai</i> ARTIGAS & UNTI 1938	f.	**	symb.	0
<i>Psammocephalus borrori</i> WICKLOW 1982	m.	**	aqu.	2
<i>Pseudarcella rhumbleri</i> SPANDEL 1909	f.	***	foss.	3
<i>Pseudoamphileptus macrostoma</i> (CHEN 1955) FOISSNER 1983	m.	***	aqu.	1
<i>Pseudoamphisiella lacazei</i> (MAUPAS 1883) SONG 1996	f.	**	aqu.	2
<i>Pseudobakuella salinarum</i> (MIHAILOWITSCH & WILBERT 1990) ALEKPEROV 1992	f.	**	aqu.	1
<i>Pseudoblepharisma tenuis</i> (KAHL 1926) KAHL 1927	n.	*	aqu.	1
<i>Pseudobuetschlia bovis</i> (JIROVEC 1933) JIROVEC 1933	f.	*	symb.	0
<i>Pseudochilonopsis piscatoris</i> (BLOCHMANN 1895) FOISSNER 1979	f.	***	aqu.-terr.	3
<i>Pseudochlamydonella rheophila</i> BUITKAMP, SONG & WILBERT 1989	f.	***	aqu.	2

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Pseudocinetochilum pulchellum</i> OBOLKINA 1995	n.	*	aqu.	1
<i>Pseudocohnilembus pusillus</i> (QUENNERSTEDT 1869) FOISSNER & WILBERT 1981 by synonymy	m.	***	aqu.-terr.	3
<i>Pseudocorynophrya multitentaculata</i> SMALL & LYNN 1985	f.	**	aqu.	1
<i>Pseudocyclidium marylandi</i> SMALL & LYNN 1985	n.	**	aqu.	0
<i>Pseudocyrtolophosis alpestris</i> FOISSNER 1980	m.	***	terr.	3
<i>Pseudoentodinium elephantis</i> WOLSKA 1986	n.	**	symb.	1
<i>Pseudofolliculina arctica</i> DONS 1914	f.	*	aqu.	0
<i>Pseudogemma fraiponti</i> COLLIN 1909	f.	*	symb.	3
<i>Pseudogemmides globosa</i> KORMOS 1935	f.	*	symb.	0
<i>Pseudoglaucoma muscorum</i> (KAHL 1931) WENZEL 1953	n.	**	terr.	1
<i>Pseudohaplocaulus nicoleae</i> (PRECHT 1935) WARREN 1988	m.	**	aqu.-symb.	1
<i>Pseudoholophrya terricola</i> BERGER, FOISSNER & ADAM 1984	f.	***	terr.	1
<i>Pseudokahliella marina</i> (FOISSNER, ADAM & FOISSNER 1982) BERGER, FOISSNER & ADAM 1985	f.	***	aqu.	1
<i>Pseudokeronopsis rubra</i> (EHRENBERG 1838) BORROR & WICKLOW 1983	f.	***	aqu.	3
<i>Pseudokreyella terricola</i> FOISSNER 1985	f.	***	terr.	1
<i>Pseudometacylis ornata</i> BALECH 1968	f.	*	aqu.	0
<i>Pseudomicrothorax agilis</i> MERMED 1914	m.	***	aqu.-terr.	2
<i>Pseudomonilicaryon gracile</i> (KAHL 1931) FOISSNER 1997	n.	***	aqu.	1
<i>Pseudoparafolliculina portitor</i> ANDREWS & NELSON 1942	f.	*	aqu.	0
<i>Pseudoplagiopyla sinistra</i> SMALL & LYNN 1985	f.	**	aqu.	1
<i>Pseudoplatynematum loricatum</i> BOCK 1952	n.	*	aqu.	1
<i>Pseudoplatyophrya nana</i> (KAHL 1926) FOISSNER 1980	f.	***	terr.	1
<i>Pseudostrombidium planctonicum</i> HORVÁTH 1933	n.	***	aqu.	2
<i>Pseudothuricola dyonisii</i> (PENARD 1914) KAHL 1935	m.	**	terr.	2
<i>Pseudotrachelocerca trepida</i> (KAHL 1928) SONG 1990	f.	*	aqu.	3
<i>Pseudouroleptus caudatus</i> HEMBERGER 1985	m.	**	terr.	4
<i>Pseudourostyla cristata</i> (JERKA-DZIADOSZ 1964) BORROR 1972	f.	**	aqu.-terr.	13
<i>Pseudovorticella monilata</i> (TATEM 1870) FOISSNER & SCHIFFMANN 1974	f.	***	aqu.-terr.	1
<i>Pseuduronema</i> HOARE 1927; no type species	n.	*	symb.	0
<i>Psilotricha acuminata</i> STEIN 1859	f.	**	aqu.-terr.	2
<i>Psilotrix ovalis</i> GOURRET & ROESER 1888	f.	*	aqu.	1
<i>Pterochona pacifica</i> JANKOWSKI 1973	f.	*	aqu.-symb.	1
<i>Pterodiniella microlithovorax</i> (LATTEUR & DARTEVELLE 1971) (present paper)	f.	*	aqu.-symb.	0
<i>Ptychocylis urnula</i> (CLAPARÈDE & LACHMANN 1858) BRANDT 1896	f.	**	aqu.	4
<i>Ptychostomum saenuridis</i> STEIN 1860	n.	**	symb.	3
<i>Ptyssostoma thalassemae</i> HENTSCHEL 1927	n.	*	symb.	0
<i>Pusilloburius labiatus</i> (KAHL 1931) CORLISS 1979	m.	*	aqu.	1
<i>Puytoraciella dipryophryis</i> NJINÉ 1979	f.	**	aqu.	2
<i>Pycnothrix monocystoides</i> SCHUBOTZ 1909	f.	**	symb.	1
<i>Pygmotheroides njinei</i> AFFA'A 1980	m.	**	symb.	2
<i>Pyxicola</i> KENT 1882; no type species	f.	**	aqu.	10
<i>Raabella helensis</i> CHATTON & LWOFF 1950	f.	**	symb.	0
<i>Raabellocineta elongata</i> PUYTORAC, GROLIÈRE & GRAIN 1979	f.	**	symb.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Raabena bella</i> WOLSKA 1967	f.	**	ymb.	0
<i>Racovitzaiella paradoxa</i> (TUCOLESCO 1962) (present paper)	f.	*	foss.	0
<i>Radiophrya</i> ROSSOLIMO 1926; no type species	f.	*	ymb.	0
<i>Radiophryoides komareki</i> LOM 1956	m.	**	ymb.	2
<i>Radiophryopsis acanthostephanos</i> GEORGÉVITCH 1941	f.	**	ymb.	0
<i>Rectiperistomatus coralli</i> AMARO & SENA 1967	m.	*	ymb.	0
<i>Recurviperistomatus uianchoi</i> AMARO & SENA 1967	m.	*	aqu.	0
<i>Reichenowella nigricans</i> KAHL 1932	f.	**	aqu.	0
<i>Remanella multinucleata</i> (KAHL 1933) FOISSNER 1996	f.	***	aqu.	4
<i>Remanellina eocenica</i> TAPPAN & LOEBLICH 1968	f.	*	foss.	0
<i>Remaniella cadischiana</i> (COLOM 1948) CATALANO 1965	f.	**	foss.	2
<i>Reticulowoodruffia terricola</i> FOISSNER 1993	f.	***	terr.	1
<i>Rhabdoaskenasia minima</i> KRAINER & FOISSNER 1990	f.	***	aqu.	1
<i>Rhabdonella spiralis</i> (FOL 1881) BRANDT 1906	f.	*	aqu.	1
<i>Rhabdonelloides inesperatta</i> COLOM 1939	f.	*	foss.	1
<i>Rhabdonellopsis apophysata</i> (CLEVE 1900) KOFOID & CAMPBELL 1929	f.	**	aqu.	1
<i>Rhabdophrya trimorpha</i> CHATTON & COLLIN 1910	f.	**	ymb.	1
<i>Rhabdosella octogenata</i> KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Rhabdostyla</i> KENT 1881; no type species	f.	**	aqu.-terr.	16
<i>Rhabdothoracella macrostegon</i> (LATTEUR & BOUSEZ 1970) (present paper)	f.	*	ymb.	0
<i>Rhagadostoma completum</i> KAHL 1926	n.	**	aqu.	3
<i>Rhinodisculus cristatus</i> MANSFELD 1923	m.	*	aqu.	0
<i>Rhinozeta rhinozeta</i> VAN HOVEN, GILCHRIST & HAMILTON-ATTWELL 1988	f.	**	ymb.	1
<i>Rhizobranchium morchellii</i> (TREGOUBOFF 1916) JANKOWSKI 1981	n.	*	aqu.	1
<i>Rhizocaryum concavum</i> CAULLERY & MESNIL 1907	n.	*	ymb.	2
<i>Rhizochona armata</i> JANKOWSKI 1973	f.	*	aqu.-ymb.	0
<i>Rhizodomus tagatzi</i> STRELKOW & WIRKETIS 1950	f.	*	aqu.	0
<i>Rhizotricha beckeri</i> (HSIUNG 1930) WOLSKA 1964	f.	**	ymb.	0
<i>Rhopalophrya acuta</i> KAHL 1926	f.	**	aqu.-terr.	0
<i>Rhyncheta cyclosum</i> ZENKER 1866	f.	**	ymb.	2
<i>Rhynchocoma hyperparasitica</i> (CHATTON & LWOFF 1939) JANKOWSKI 1975	f.	*	aqu.	1
<i>Rhynchodinium paradocum</i> CUNHA & PENIDO 1927	n.	*	ymb.	0
<i>Rhynchophrya palpans</i> COLLIN 1909	f.	*	aqu.-ymb.	0
<i>Rhyposophrya aplanata</i> KAHL 1933	f.	*	ymb.	0
<i>Riboscyphidia scorpaenae</i> (FABRE-DOMERGUE 1888) JANKOWSKI 1980	f.	*	aqu.	2
<i>Rigchostoma membranatum</i> VUXANOVICI 1963	n.	*	aqu.	1
<i>Rigidocortex octonucleatus</i> (FOISSNER 1988) BERGER 1999	m.	***	aqu.	1
<i>Rimacineta falcata</i> JANKOWSKI 1981	f.	*	aqu.	1
<i>Rimaleptus binucleatus</i> (KAHL 1931) FOISSNER 1984	m.	**	aqu.	1
<i>Rimostrombidium velox</i> (FAURÉ-FREMIET 1924) JANKOWSKI 1978	n.	*	aqu.	9
<i>Rondosomides lucicutiae</i> (BOWMAN 1977) JANKOWSKI 1981	m.	*	aqu.	1
<i>Rossielella tintinnubulum</i> (MAKARIEVA 1979) (present paper)	f.	**	foss.	2
<i>Rossonophrys vasta</i> JANKOWSKI 1989	f.	*	ymb.	1



Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Rostraphrya camerounensis</i> (NJINÉ 1979) FOISSNER 1993	f.	***	terr.	3
<i>Rostraphryides africana</i> FOISSNER 1987	f.	***	terr.	1
<i>Rovinjella spheromae</i> MATTHES 1972	f.	*	aqu.-symb.	0
<i>Rubioxytricha haematoplasma</i> (BLATTERER & FOISSNER 1990) BERGER 1999	f.	***	aqu.	0
<i>Rugaecaulis conchili</i> (STOKES) LOM & PUYTORAC 1994	m.	*	aqu.	1
<i>Ruthiella gammari</i> SCHÖDEL 1983	f.	**	symb.	1
<i>Sagittaria poligonalis</i> GRANDORI & GRANDORI 1934	f.	**	terr.	3
<i>Salpingacantha undata</i> (JÖRGENSEN 1899) KOFOID & CAMPBELL 1929	f.	*	aqu.	1
<i>Salpingella acuminata</i> (CLAPARÈDE & LACHMANN 1858) JÖRGENSEN 1924	f.	**	aqu.	1
<i>Salpingellina levantina</i> COLOM 1948	f.	*	foss.	0
<i>Salpingelloides costatus</i> (LAACKMANN 1910) CAMPBELL 1942	m.	*	aqu.	0
<i>Saprodinium dentatum</i> (LAUTERBORN 1901) LAUTERBORN 1908	n.	***	aqu.	2
<i>Saragassephelota buetschliana</i> (ISHIKAWA 1896) JANKOWSKI 1981	f.	*	aqu.	0
<i>Sathrophilus agitatus</i> (STOKES 1887) CORLISS 1960	m.	**	aqu.-terr.	1
<i>Savroniella rugosa</i> BELOKRYSS 1995	f.	***	foss.	1
<i>Scalpratella angustioris</i> MAKARIEVA 1979	f.	**	foss.	1
<i>Scaphiododon navicula</i> (MÜLLER 1786) STEIN 1859	m.	*	aqu.	2
<i>Schedotrochilia disjuncta</i> DEROUX 1976	f.	**	aqu.	1
<i>Schistophrya aplanata</i> KAHL 1933	f.	**	aqu.	0
<i>Schizactinia multiramosa</i> (WETZEL 1953) JANKOWSKI 1967	f.	*	aqu.	0
<i>Schizocalyptra magna</i> DRAGESCO 1968	f.	**	aqu.	1
<i>Schizocaryum dogieli</i> POLJANSKY & GOLIKOWA 1957	n.	***	symb.	2
<i>Sciurula intestinalis</i> (KOPPERI 1935) CORLISS 1960	f.	*	symb.	0
<i>Scyphidia rugosa</i> DUJARDIN 1841	f.	**	aqu.	36
<i>Scyphidiella dentata</i> (MATTHES & GUHL 1972) GUHL 1979	f.	*	aqu.	1
<i>Segmentochona spiralis</i> (BONNIER in GIARD 1894) JANKOWSKI 1989	f.	*	aqu.-symb.	1
<i>Semiacineta swarczewskyi</i> (COLLIN) JANKOWSKI 1978	f.	*	aqu.-symb.	1
<i>Semiboveria stevensae</i> (ISSEL 1903) RAABE 1970	f.	**	symb.	0
<i>Semichitinoidea sujkowskii</i> NOWAK 1978	f.	**	foss.	1
<i>Semiplatyophrya foissneri</i> WILBERT & KAHAN 1986	f.	***	terr.	1
<i>Semitrichodina sphaeronuclea</i> (LOM 1956) KAZUBSKI 1958	f.	**	symb.	4
<i>Seravinella pectinata</i> ALEKPEROV & MAMAJEVA 1992	f.	**	aqu.	1
<i>Serpentichona anthus</i> JANKOWSKI 1973	f.	*	aqu.-symb.	0
<i>Sertumia tekirghiolica</i> TUCOLESCO 1962	f.	*	aqu.	0
<i>Setarcon pedicellatum</i> (HINCKS 1873) JANKOWSKI 1981	n.	*	aqu.-symb.	1
<i>Setonophrys seticola</i> (KANE 1965) JANKOWSKI 1986	f.	***	aqu.	1
<i>Severonis spongiarum</i> JANKOWSKI 1981	m.	*	aqu.	1
<i>Shellephelota branchialis</i> JANKOWSKI 1981	f.	*	aqu.	2
<i>Shellositon branchialis</i> JANKOWSKI 1993	m.	*	symb.	2
<i>Sibiracineta endemica</i> JANKOWSKI 1982	f.	*	symb.	1
<i>Sicuophora xenopi</i> PUYTORAC & GRAIN 1968	f.	**	symb.	3
<i>Sigmaperistomatus crossodactyli</i> AMARO & SENA 1967	m.	*	symb.	0
<i>Sigmocineta nordica</i> JANKOWSKI 1967	f.	*	aqu.	0
<i>Sigmophrya eudrili</i> PUYTORAC 1971	f.	**	symb.	0

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Sikorops woronowiczae</i> FOISSNER 1999	m.	***	terr.	1
<i>Silenella ovoidea</i> FENCHEL 1965	f.	**	symb.	1
<i>Siroloxyphyllum utriculariae</i> (PENARD 1922) FOISSNER & LEIPE 1995	n.	***	aqu.	1
<i>Solenophrya crassa</i> CLAPARÈDE & LACHMANN 1859	f.	**	aqu.-terr.	3
<i>Sonderia</i> KAHL 1928; no type species	f.	*	aqu.	5
<i>Sonderiella scandens</i> (KAHL 1926) KAHL 1928	f.	**	aqu.	0
<i>Sopianella longa</i> NAGY 1989	f.	**	foss.	1
<i>Sorogena stoianovitchae</i> BRADBURY & OLIVE 1980	f.	***	terr.	7
<i>Sparsacineta complanata</i> (GRUBER) JANKOWSKI 1978	f.	*	aqu.	1
<i>Spasmotoma viride</i> KAHL 1927	n.	**	aqu.	0
<i>Spathiododes hyalina</i> KAHL 1926	f.	**	aqu.	0
<i>Spathiodoides sulcata</i> BRODSKY 1925	f.	*	aqu.	0
<i>Spathidiosus bursa</i> GAJEWSKAJA 1933	m.	*	aqu.	0
<i>Spathidium hyalinum</i> DUJARDIN 1841	n.	**	aqu.-terr.	34
<i>Spelaeophrya troglocaridis</i> STAMMER 1935	f.	*	symb.	2
<i>Speleocyphidia husmanni</i> (LÜPKES 1974) JANKOWSKI 1980	f.	*	aqu.	1
<i>Spetazon australiense</i> FOISSNER 1994	n.	***	terr.	1
<i>Sphaerobactrum warduae</i> SCHMIDT 1920	n.	*	aqu.	0
<i>Sphaerophrya pusilla</i> CLAPARÈDE & LACHMANN 1859	f.	**	aqu.-terr.	8
<i>Sphenophrya dosinia</i> CHATTON & LWOFF 1921	f.	**	symb.	1
<i>Sphenostomella vernalis</i> (GROLIER & DRAGESCO 1985) JANKOWSKI 1980	f.	*	aqu.	1
<i>Spherasuctans emeriti</i> PUYTORAC 1952	m.	**	symb.	0
<i>Spinarcella crenella</i> KEIJ 1969	f.	**	foss.	0
<i>Spinarcon antennaris</i> JANKOWSKI 1981	m.	*	symb.	1
<i>Spinichona horrida</i> JANKOWSKI 1973	f.	*	aqu.-symb.	1
<i>Spinivorticella echina</i> (KING 1931) JANKOWSKI 1993	f.	*	aqu.	1
<i>Spinophenia multituba</i> SZCZECURA 1969	f.	*	foss.	1
<i>Spirobuetschliella chattoni</i> HOVASSE 1950	f.	*	symb.	1
<i>Spirochona gemmipara</i> STEIN 1852	f.	**	aqu.-symb.	6
<i>Spirocorys indicus</i> WOLSKA 1969	m.	*	symb.	0
<i>Spirocystomellites dilatatus</i> COLOM 1988	m.	*	foss.	1
<i>Spirodinium equi</i> FIORENTINI 1890	n.	*	symb.	6
<i>Spirofilopsis tubicolanatans</i> (GELEI 1944) CORLISS 1960	f.	*	terr.	2
<i>Spiroperistomatus macropharyngeus</i> AMARO & SENA 1967	m.	*	symb.	0
<i>Spirophrya subparasitica</i> CHATTON & LWOFF 1924	f.	*	symb.	1
<i>Spirostomum ambiguum</i> (MÜLLER 1786) EHRENBERG [1834]	n.	**	aqu.	64
<i>Spirostrombidium sauerbreyae</i> (KAHL 1932) JANKOWSKI 1978	n.	*	aqu.	1
<i>Spiroxystonella scandens</i> (BRANDT 1906) KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Spiroxystonellites saetosus</i> KNAUER 1969	m.	*	foss.	1
<i>Spirozona caudata</i> KAHL 1926	f.	**	aqu.	1
<i>Spongiarcon variabilis</i> (GRUBER 1884) JANKOWSKI 1980	m.	*	aqu.	1
<i>Stammeridium kahli</i> (WENZEL 1953) WENZEL 1969	n.	***	terr.	1
<i>Staurophrya elegans</i> ZACHARIAS 1893	f.	**	aqu.	1
<i>Steenstrupiella steenstrupii</i> (CLAPARÈDE & LACHMANN 1858) KOFOID & CAMPBELL 1929	f.	*	aqu.	2

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Stegochilum fusiforme</i> SCHEWIAKOFF 1893	n.	**	aqu.-terr.	2
<i>Stegotricha enterikos</i> BOWER & MEYER 1993	f.	**	symb.	1
<i>Steinella uncinata</i> (SCHULTZE 1851) CÉPÈDE 1910	f.	*	symb.	1
<i>Steinia platystoma</i> (EHRENBERG 1831) DIESING 1866	f.	**	aqu.-terr.	1
<i>Stelidiella stelidium</i> (BIEDERMANN 1893) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Stenosemella ventricosa</i> (CLAPARÈDE & LACHMANN 1858) JÖRGENSEN 1924	f.	**	aqu.	4
<i>Stenosemellopsis hispanica</i> (COLOM 1939) COLOM 1948	f.	*	foss.	1
<i>Stenotricha arenicola</i> (DRAGESCO 1954) JANKOWSKI 1978	f.	*	aqu.	1
<i>Stentofollicullina tubicola</i> HADZI 1938	f.	*	aqu.	0
<i>Stentor muelleri</i> (EHRENBERG 1831) OKEN 1815	m.	***	aqu.	1
<i>Stentoropsis barbi</i> DOGIEL & BYCHOWSKY 1934	f.	*	symb.	0
<i>Stephanopogon colpoda</i> ENTZ 1884	n.	*	aqu.	1
<i>Sterkiella cavicola</i> (KAHL 1935) FOISSNER, BLATTERER, BERGER & KOHMANN 1991	f.	**	aqu.-terr.	10
<i>Stichotricha secunda</i> PERTY 1849	f.	**	aqu.-terr.	3
<i>Stokesia vernalis</i> WENRICH 1929	f.	**	aqu.	6
<i>Stomatophrya singularis</i> KAHL 1933	f.	**	aqu.	0
<i>Stomiosphaera moluccana</i> WANNER 1940	f.	**	foss.	1
<i>Strobilidium adherens</i> SCHEWIAKOFF 1893	n.	**	aqu.	58
<i>Strombidinopsis</i> KENT 1881; no type species	f.	**	aqu.	20
<i>Strombidium sulcatum</i> CLAPARÈDE & LACHMANN 1859	n.	**	aqu.	1
<i>Strongylidium crassum</i> STERKI 1878	n.	*	aqu.-terr.	9
<i>Sturiella oblonga</i> BORZA 1981	f.	*	foss.	1
<i>Stylarcon truncatus</i> (DONS 1915) JANKOWSKI 1981	m.	*	aqu.	1
<i>Stylicauda platensis</i> (CUNHA & FONSECA 1917) BALECH 1951	f.	*	aqu.	0
<i>Stylochona coronata</i> KENT 1881	f.	*	aqu.-symb.	1
<i>Stylocometes digitatus</i> (STEIN 1859) STEIN 1867	m.	**	aqu.	2
<i>Stylogemma wailesi</i> (KAHL 1934) JANKOWSKI 1981	f.	*	aqu.	1
<i>Stylonychia mytilus</i> (MÜLLER 1773) EHRENBERG 1830	f.	***	aqu.-terr.	252
<i>Stylophrya</i> SWARCZEWSKY 1928; no type species	f.	*	aqu.-symb.	0
<i>Stylophryodendron roscoffense</i> (BATISSE & DRAGESCO 1967) JANKOWSKI 1978	n.	*	aqu.	1
<i>Stylostoma forrestii</i> MILNE 1886	n.	*	aqu.	1
<i>Suctorella ciliata</i> FRENZEL 1892	f.	*	aqu.	0
<i>Sulcigera comosa</i> GAJEWSKAJA 1928	f.	*	aqu.	1
<i>Sulcoarcus pellucidulus</i> HSIUNG 1935	m.	*	symb.	1
<i>Sulfonecta uniserialis</i> (LEVINE 1894) JANKOWSKI 1978	f.	*	aqu.	1
<i>Sultanophrys arabica</i> FOISSNER & AL-RASHEID 1999	f.	***	aqu.	2
<i>Supraspathidium teres</i> (STOKES 1886) FOISSNER & DIDIER 1981	n.	***	aqu.	1
<i>Swedmarkia arenicola</i> DRAGESCO 1954	f.	**	aqu.	1
<i>Syllarcon draconematis</i> JANKOWSKI 1981	m.	*	aqu.	1
<i>Syncilancistrumina elegantissima</i> KNIGHT & THORNE 1982	f.	***	symb.	1
<i>Synhymenia heterovesiculata</i> (GELEI 1939) JANKOWSKI 1968	f.	*	aqu.	1
<i>Synophrya hypertrophica</i> CHATTON & LWOFF 1926	f.	**	symb.	2
<i>Systylis hoffi</i> BRESSLAU 1919	m.	**	aqu.	3
<i>Tachyblaston ephelotensis</i> MARTIN 1909	m.	*	aqu.	0

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Tachysoma pellationellum</i> (MÜLLER 1773) BORROR 1972	n.	***	aqu.-terr.	3
<i>Taeniocineta eiseniae</i> (BEERS 1938) RAABE 1972	f.	**	ymb.	0
<i>Taliaferria clarki</i> HEGNER & REES 1933	f.	*	ymb.	0
<i>Talitrochilodon hyalinus</i> (KIDDER & SUMMERS 1952) JANKOWSKI 1980	m.	*	aqu.	1
<i>Talizona flexilis</i> (KELLCOTT 1887) JANKOWSKI 1981	f.	*	aqu.	1
<i>Tanystomium gracile</i> BERGER 1994	n.	**	ymb.	2
<i>Tauriella lomi</i> NAIDENOVA 1985	f.	**	ymb.	1
<i>Tectohymena terricola</i> FOISSNER 1993	f.	***	terr.	1
<i>Telamodinium onyx</i> LATTEUR & DUFÉY 1967	n.	*	ymb.	0
<i>Telostomatella ferroi</i> (GRANDORI 1935) FOISSNER 1985	f.	*	terr.	1
<i>Telotrochidium crateriforme</i> (MÜLLER 1773) KENT 1881	n.	**	aqu.-terr.	3
<i>Teratodinium sphaeredon</i> LATTEUR & DUFÉY 1967	n.	*	ymb.	0
<i>Terebrospira lenticularis</i> (DEBAISIEUX 1957) DEBAISIEUX 1960	f.	*	ymb.	1
<i>Teretrichodina balakrishnia</i> (SANTHAKUMARI & NAIR) JANKOWSKI 1980	f.	*	aqu.	1
<i>Termitophrya africana</i> NOIROT & NOIROT-TIMOTHÉE 1959	f.	**	ymb.	1
<i>Terricirra viridis</i> (FOISSNER 1982) BERGER & FOISSNER 1989	f.	***	terr.	1
<i>Territricha stramenticola</i> BERGER & FOISSNER 1988	f.	***	terr.	1
<i>Tetrahymena pyriformis</i> (EHRENBERG 1830) LWOFF 1947 by synonymy	f.	***	aqu.-terr.	2854
<i>Tetratoxum unifasciculatum</i> (FIORENTINI 1890) GASOVSKY 1919	n.	***	ymb.	2
<i>Teuthophrys trisulcata</i> CHATTON & BEAUCHAMP 1923	f.	***	aqu.	3
<i>Thalassicineta euchaetae</i> (SEWELL 1951) JANKOWSKI 1981	f.	*	aqu.	0
<i>Thalassiomastix atlantica</i> BUSCH 1923	f.	*	aqu.	0
<i>Thalassochona gambelli</i> JANKOWSKI 1971	f.	*	aqu.-ymb.	2
<i>Thaumatophrya troid</i> (CLAPARÈDE & LACHMANN 1859) COLLIN 1912	f.	*	aqu.-ymb.	0
<i>Thecacineta calix</i> (SCHRÖDER 1907) COLLIN 1912	f.	*	aqu.-ymb.	1
<i>Thigmocoma acuminata</i> KAZUBSKI 1958	f.	***	ymb.	0
<i>Thigmogaster pardus</i> DEROUX 1976	f.	**	aqu.	9
<i>Thigmokeronopsis jahodai</i> WICKLOW 1981	f.	**	aqu.	1
<i>Thigmophrya bivalviorum</i> CHATTON & LWOFF 1923	f.	**	ymb.	1
<i>Thigmostrombidium calkinsi</i> (FAURÉ-FREMIET 1932) JANKOWSKI 1978	n.	*	aqu.	1
<i>Thigmozoon fencheli</i> SANTHAKUMARI & NAIR 1973	n.	*	ymb.	2
<i>Thisarcon conicum</i> (SCHRÖDER 1907) JANKOWSKI 1981	n.	*	aqu.	0
<i>Thoracodinium vorax</i> LATTEUR 1958	n.	*	ymb.	0
<i>Thuricola valvata</i> (WRIGHT 1838) KENT 1881	f.	**	aqu.-terr.	1
<i>Thurstonia kaczanowskii</i> PUYTORAC 1969	f.	**	ymb.	1
<i>Thylakidium truncatum</i> SCHEWIAKOFF 1893	n.	**	aqu.-terr.	4
<i>Thyrophylax vorax</i> (STRELKOW 1959) LYNN & BERGER 1973	m.	**	ymb.	1
<i>Thysanomorpha bellerophon</i> (PENARD 1914) JANKOWSKI 1967	f.	*	aqu.	0
<i>Tiarina fusus</i> (CLAPARÈDE & LACHMANN 1859) BERGH 1881	f.	*	aqu.	2
<i>Tiarinella gracilis</i> OBOLKINA 1995	f.	**	aqu.	1
<i>Tintinnidium fluviatile</i> (STEIN 1863) KENT 1881	n.	***	aqu.	12
<i>Tintinnoidella praecursa</i> ELICKI 1994	f.	**	foss.	1

Taxon (Appendix I continued)	Gender	Qual.	Hab.	ZR
<i>Tintinnopsella carpathica</i> (MURGEANU & FILIPESCU 1933) COLOM 1948	f.	*	foss.	5
<i>Tintinnopsis beroidea</i> STEIN 1867	f.	*	aqu.-foss.	7
<i>Tintinnus inquilinus</i> (MÜLLER 1776) SCHRANK 1803	m.	**	aqu.	1
<i>Tokophrya quadripartita</i> (CLAPARÈDE & LACHMANN 1859) BÜTSCHLI 1889	f.	***	aqu.-terr.	12
<i>Tokophryella carchesii</i> (CLAPARÈDE & LACHMANN 1859) JANKOWSKI 1973	f.	*	aqu.	0
<i>Tokophryona pelagica</i> JANKOWSKI 1982	f.	*	aqu.-symb.	1
<i>Tokophryopsis gigantea</i> SWARCZEWSKY 1928	f.	*	aqu.-symb.	2
<i>Tontonia appendiculariformis</i> FAURÉ-FREMIET 1914	f.	**	aqu.	4
<i>Toxochona mirabilis</i> JANKOWSKI 1972	f.	*	aqu.-symb.	0
<i>Toxodinium vorax</i> (CUNHA & MUNIZ 1926) CUNHA 1938	n.	*	symb.	0
<i>Trachelius stylatus</i> SCHRANK 1803	m.	**	aqu.	5
<i>Trachelocerca sagitta</i> (MÜLLER 1786) EHRENBERG 1840	f.	***	aqu.	21
<i>Trachelochaeta bryophila</i> ŠRÁMEK-HUŠEK 1954	f.	**	aqu.-terr.	2
<i>Trachelolophos gigas</i> FOISSNER & DRAGESCO 1996	m.	***	aqu.	1
<i>Trachelophyllum apiculatum</i> (PERTY 1852) CLAPARÈDE & LACHMANN 1859	n.	***	aqu.-terr.	2
<i>Tracheloraphis phoenicopterus</i> (COHN 1866) DRAGESCO 1960	f.	**	aqu.	5
<i>Trachelostyla pediculiformis</i> (COHN 1866) BORROR 1972	f.	**	aqu.-terr.	8
<i>Trachelotractus entzi</i> (KAHL 1927) FOISSNER 1997	m.	***	aqu.	1
<i>Traumatiphthora punctata</i> CHATTON & LWOFF 1931	f.	**	symb.	1
<i>Trematosoma bocqueti</i> (GUILCHER 1950) BATISSE 1973	n.	**	aqu.	0
<i>Triacola ostracodarum</i> WEITSCHAT & GUHL 1994	m.	***	foss.	1
<i>Triadinium caudatum</i> FIORENTINI 1890	n.	***	symb.	3
<i>Triadopercularia spitzbergensis</i> WEITSCHAT & GUHL 1994	f.	***	foss.	1
<i>Tricaudalia brumpti</i> BUISSON 1923	f.	*	symb.	0
<i>Trichochona lecythoides</i> MOHR 1948	f.	*	aqu.-symb.	1
<i>Trichodina pediculus</i> (MÜLLER 1773) EHRENBERG 1830	f.	***	aqu.-symb.	15
<i>Trichodinella crassii</i> (DOGIEL 1940) HAIDER 1964 by synonymy	f.	**	symb.	8
<i>Trichodoxa genitalis</i> SIRGEL 1983	f.	*	symb.	1
<i>Trichophrya epistylidis</i> CLAPARÈDE & LACHMANN 1859	f.	**	symb.	34
<i>Trichopodiella dysteria</i> (CLAPARÈDE & LACHMANN 1859) CORLISS 1960	f.	*	aqu.	1
<i>Trichospira dextrorsa</i> ROUX 1899	f.	**	aqu.	0
<i>Trichototaxis stagnatilis</i> STOKES 1891	f.	*	aqu.	1
<i>Tricoronella pulchra</i> BLATTERER & FOISSNER 1988	f.	***	terr.	1
<i>Trifascicularia cycloposthium</i> STRELKOW 1931	f.	*	symb.	0
<i>Trihymena terricola</i> FOISSNER 1988	f.	***	terr.	1
<i>Trimyema compressum</i> LACKEY 1925	n.	***	aqu.	1
<i>Trinacineta diaptomi</i> (KELLCOTT 1885) JANKOWSKI 1981	f.	*	aqu.	1
<i>Tripalmaria dogieli</i> GASSOVSKY 1919	f.	***	symb.	5
<i>Tripartiella copiosa</i> (LOM 1959) RAABE 1963	f.	**	symb.	39
<i>Triplumaria hamertoni</i> HOARE 1937	f.	*	symb.	3
<i>Trithigmostoma cucullus</i> (MÜLLER 1786) JANKOWSKI 1967	n.	***	aqu.-terr.	31
<i>Trochilia sigmoides</i> DUJARDIN 1841	f.	**	aqu.	8
<i>Trochiliopsis opaca</i> PENARD 1922	f.	**	aqu.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Trochochilodon flavus</i> DEROUX 1976	m.	**	aqu.	0
<i>Troglodytella abrossarti</i> BRUMPT & JOYEUX 1912	f.	**	symb.	3
<i>Trophogemma poljanskyi</i> JANKOWSKI 1970	f.	*	aqu.-symb.	1
<i>Tropidoatractus acuminatus</i> LEVANDER 1894	m.	***	aqu.	1
<i>Trypanococcus rotiferorum</i> STEIN in ZACHARIAS 1885	m.	*	aqu.	2
<i>Tucolesca mirabilis</i> (TUCOLESCO 1962) LOM in CORLISS 1979	f.	*	aqu.	1
<i>Tundrella abnormis</i> KOSHEVOJ 1987	f.	*	foss.	1
<i>Tunicophrya sessilis</i> (COLLIN 1912) JANKOWSKI 1973	f.	*	aqu.-symb.	1
<i>Turaniella vitrea</i> (BRODSKY 1925) CORLISS 1960	f.	*	aqu.	2
<i>Tythocorys coronula</i> TAPPAN & LOEBLICH 1968	f.	*	foss.	0
<i>Uncinata gigantea</i> BULLINGTON 1940	f.	*	aqu.	1
<i>Undella hyalina</i> DADAY 1887	f.	*	aqu.	3
<i>Undellopsis marsupialis</i> (BRANDT 1906) KOFOID & CAMPBELL 1929	f.	*	aqu.	0
<i>Urceolaria mitra</i> (SIEBOLD 1850) STEIN 1867	f.	*	aqu.	6
<i>Urliella terricola</i> FOISSNER 1989	f.	***	terr.	1
<i>Urnulla epistylidis</i> CLAPARÈDE & LACHMANN 1857	f.	*	aqu.	2
<i>Urocentrum turbo</i> (MÜLLER 1786) NITZSCH 1827	n.	***	aqu.	6
<i>Urochaenia ichthyoides</i> SAVI 1913	f.	*	aqu.	0
<i>Urocyclon chesapeakeensis</i> (SMALL & LYNN 1985) SONG & WILBERT 2000	n.	**	aqu.	4
<i>Uroleptoides kihni</i> WENZEL 1953	f.	*	aqu.-terr.	2
<i>Uroleptopsis citrina</i> KAHL 1932	f.	**	aqu.	1
<i>Uroleptus gallina</i> (MÜLLER 1786) FOISSNER, BLATTERER, BERGER & KOHMANN 1991 by synonymy	m.	**	aqu.-terr.	29
<i>Uronema marinum</i> DUJARDIN 1841	n.	**	aqu.-terr.	1
<i>Uronemopsis kenti</i> (KAHL 1926) KAHL 1931	f.	**	aqu.	0
<i>Uronychia transfuga</i> (MÜLLER 1776) STEIN 1859	f.	***	aqu.	6
<i>Uropedalium pyriforme</i> KAHL 1928	n.	**	aqu.	1
<i>Uropogon urai</i> ITO & IMAI 2000	n.	**	symb.	0
<i>Urosoma caudatum</i> (EHRENBERG 1833) BERGER 1999 by synonymy	n.	**	aqu.-terr.	1
<i>Urosomoida agilis</i> (ENGELMANN 1862) HEMBERGER in FOISSNER 1982	f.	***	aqu.-terr.	10
<i>Urostrongylum contortum</i> (KAHL 1928) KAHL 1932	n.	**	aqu.	2
<i>Urostyla grandis</i> EHRENBERG 1830	f.	***	aqu.-terr.	7
<i>Urotricha farcta</i> CLAPARÈDE & LACHMANN 1859	f.	***	aqu.-terr.	1
<i>Urozona buetschlii</i> SCHEWIAKOFF 1889	f.	***	aqu.	1
<i>Usconophrys aperta</i> (PLATE 1889) JANKOWSKI 1985	f.	***	aqu.	1
<i>Uvelinus puerneri</i> (NENNINGER 1948) JANKOWSKI 1985	m.	*	aqu.	1
<i>Vaginicola crystallina</i> (EHRENBERG 1830) EHRENBERG 1838 by synonymy	f.	**	aqu.-terr.	1
<i>Valletofolliculina bicornis</i> ANDREWS 1953	f.	*	aqu.	0
<i>Vampyrophrya pelagica</i> (CHATTON & LWOFF 1930) CHATTON & LWOFF 1931 by synonymy	f.	***	symb.	1
<i>Vasichona paguri</i> JANKOWSKI 1972	f.	*	aqu.-symb.	1
<i>Vasicola ciliata</i> TATEM 1869	f.	*	aqu.	6
<i>Vauchomia nephritica</i> MUELLER 1938	f.	**	symb.	1
<i>Vautrinella lapparenti</i> CUVILLIER & SACAL 1963	f.	*	foss.	0
<i>Velavella mica</i> KOSHEVOJ 1987	f.	**	foss.	1

Taxon (Appendix 1 continued)	Gender	Qual.	Hab.	ZR
<i>Velistoma echinometre</i> (BIGGAR & WENRICH 1932) JANKOWSKI 1980	n.	*	aqu.	1
<i>Veracineta tisbei</i> (GUILCHER) JANKOWSKI 1978	f.	*	aqu.	1
<i>Vesonyctus vachoni</i> (ALBARET) JANKOWSKI 1978	m.	*	aqu.	1
<i>Vestibulongum corlissi</i> GRIM 1988	n.	***	symb.	1
<i>Vinarcon asteris</i> JANKOWSKI 1981	m.	*	aqu.	2
<i>Vorticella convallaria</i> (LINNAEUS 1758) LINNAEUS 1767	f.	***	aqu.-terr.	148
<i>Vostonica tenax</i> JANKOWSKI 1994	f.	*	symb.	1
<i>Wailesia apiculata</i> (WAILES 1925) KOFOID & CAMPBELL 1939	f.	*	aqu.	0
<i>Wallackia schiffmanni</i> FOISSNER 1976	f.	***	aqu.-terr.	1
<i>Wangiella dicollaria</i> NIE 1934	f.	*	aqu.	0
<i>Wolskana tokarensis</i> ITO, IMAI, OGIMOTOT & NAKAHARA 1996	f.	***	symb.	1
<i>Woodruffia rostrata</i> KAHL 1931	f.	***	aqu.-terr.	2
<i>Woodruffides terricola</i> FOISSNER 1987	m.	***	terr.	1
<i>Xystonella treforti</i> (DADAY 1887) BRANDT 1906	f.	*	aqu.	2
<i>Xystonellopsis paradoxa</i> (CLEVE 1900) JÖRGENSEN 1924	f.	**	aqu.	1
<i>Yvonniellina campanula</i> (LE CALVEZ 1959) TAPPAN & LOEBLICH 1968	f.	*	foss.	3
<i>Zonotrichium discoides</i> MEUNIER 1910	n.	*	aqu.	0
<i>Zoothamnium ovifera</i> (MODEER 1790) BORY 1824	n.	***	aqu.	64
<i>Zoothamnopsis mengi</i> SONG 1997	f.	**	aqu.	1
<i>Zosterodasys agamalievi</i> DEROUX 1978	m.	***	aqu.	3

## Appendix 2. List of Subgenera in Optional Current Usage

### 1. *Apiosoma* (*Apiosoma*) BLANCHARD 1885

- Apiosoma* (*Amoebapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Baculiapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Campanuliapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Coniapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Cylindrapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Dolioliapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Extensiscopula* BANINA in BANINA et al. 1984)
- Apiosoma* (*Miniapium* BANINA in BANINA et al. 1984)
- Apiosoma* (*Poteriapium* BANINA in BANINA et al. 1984)

### 2. *Aspidisca* (*Aspidisca*) EHRENBERG 1830

- Aspidisca* (*Dimaspidisca* JANKOWSKI 1979)
- Aspidisca* (*Netaspidisca* JANKOWSKI 1978)

### 3. *Brachonella* (*Brachonella*) JANKOWSKI 1964

- Brachonella* (*Atopospira* JANKOWSKI 1964)

### 4. *Bundleia* (*Bundleia*) CUNHA & MUNIZ 1928

- Bundleia* (*Chlamydobundleia* STRELKOW 1939)
- Bundleia* (*Fibrillobundleia* STRELKOW 1939)

### 5. *Climacocylis* (*Climacocylis*) JÖRGENSEN 1924

- Climacocylis* (*Proclimacocylis* KOFOID & CAMPBELL 1939)

6. ***Codonellopsis* (*Codonellopsis*)** JÖRGENSEN 1924  
*Codonellopsis* (*Codonelloides* KOFOID & CAMPBELL 1939)
7. ***Coxliella* (*Coxliella*)** BRANDT 1906  
*Coxliella* (*Protocochliella* JÖRGENSEN 1924)
8. ***Cyathodinium* (*Cyathodinium*)** CUNHA 1914  
*Cyathodinium* (*Paracyathodinium* CUNHA & FREITAS 1944)
9. ***Cycloposthium* (*Cycloposthium*)** BUNDLE 1895  
*Cycloposthium* (*Denticycloposthium* STRELKOW 1939)  
*Cycloposthium* (*Dicycloposthium* STRELKOW 1939)
10. ***Diophrys* (*Diophrys*)** DUJARDIN 1841  
*Diophrys* (*Epidiophrys* JANKOWSKI 1979)  
*Diophrys* (*Monilidiophrys* JANKOWSKI 1979)  
*Diophrys* (*Polydiophrys* JANKOWSKI 1979)
11. ***Euplotes* (*Euplotes*)** EHRENBERG in HEMPRICH & EHRENBERG 1828  
*Euplotes* (*Moneuplotes* JANKOWSKI 1978)
12. ***Eutintinnus* (*Eutintinnus*)** KOFOID & CAMPBELL 1939  
*Eutintinnus* (*Ceratotintinnus* KOFOID & CAMPBELL 1939)  
*Eutintinnus* (*Odontotintinnus* KOFOID & CAMPBELL 1939)
13. ***Gastrocirrhus* (*Gastrocirrhus*)** LEPSI 1928  
*Gastrocirrhus* (*Spongiocirrhus* JANKOWSKI 1979)
14. ***Paradiophrys* (*Paradiophrys*)** JANKOWSKI 1978  
*Paradiophrys* (*Lacifer* JANKOWSKI 1979)
15. ***Protorhabdonella* (*Protorhabdonella*)** JÖRGENSEN 1924  
*Protorhabdonella* (*Eurhabdonella* KOFOID & CAMPBELL 1939)
16. ***Tintinnopsis* (*Tintinnopsis*)** STEIN 1867  
*Tintinnopsis* (*Paratintinnopsis* HADA 1964)
17. ***Tokophrya* (*Tokophrya*)** BÜTSCHLI 1889  
*Tokophrya* (*Brachyosoma* BATISSE 1975)
18. ***Undella* (*Undella*)** DADAY 1887  
*Undella* (*Parundella* JÖRGENSEN 1924)
19. ***Undellopsis* (*Undellopsis*)** KOFOID & CAMPBELL 1929  
*Undellopsis* (*Undellicricos* KOFOID & CAMPBELL 1929)
20. ***Xystonella* (*Xystonella*)** BRANDT 1906  
*Xystonella* (*Proxystonella* KOFOID & CAMPBELL 1939)
21. ***Xystonellopsis* (*Xystonellopsis*)** JÖRGENSEN 1924  
*Xystonellopsis* (*Euxystonellopsis* KOFOID & CAMPBELL 1939)  
*Xystonellopsis* (*Macroxystonellopsis* KOFOID & CAMPBELL 1939)  
*Xystonellopsis* (*Paraxystonellopsis* KOFOID & CAMPBELL 1939)  
*Xystonellopsis* (*Parundellopsis* KOFOID & CAMPBELL 1939)  
*Xystonellopsis* (*Protoxystonellopsis* KOFOID & CAMPBELL 1939)  
*Xystonellopsis* (*Proxystonellopsis* KOFOID & CAMPBELL 1939)  
*Xystonellopsis* (*Xystonelloides* KOFOID & CAMPBELL 1939)



### Appendix 3. Ciliate Names Treated by the International Commission

A compilation of names on the Official Lists and Official Indexes was published by MELVILLE & SMITH (1987 [EV0797]).

#### Ciliates on the Official List of Generic Names in Zoology

Name No.	Genus	Opinion	Reference
998	<i>Stentor</i> OKEN 1815	418	I.C.Z.N. 1956 [CI1451: 46]
non	<i>Acineta</i> EHRENBERG [1834]	1778	I.C.Z.N. 1994 [CI1522: 268]
1907	<i>Balantidium</i> CLAPARÈDE & LACHMANN 1858	915	I.C.Z.N. 1970 [CI1520: 33]
1908	<i>Colpidium</i> STEIN 1860	915	I.C.Z.N. 1970 [CI1520: 33]
1909	<i>Colpoda</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 33]
non	<i>Diplodinium</i> SCHUBERG 1888	202	I.C.Z.N. 1954 [CI1561: 284]
1910	<i>Enchelys</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 34]
1911	<i>Glaucoma</i> EHRENBERG 1830	915	I.C.Z.N. 1970 [CI1520: 34]
1912	<i>Tetrahymena</i> FURGASON 1940	915	I.C.Z.N. 1970 [CI1520: 34]
non	<i>Tokophrya</i> BÜTSCHLI 1889	1778	I.C.Z.N. 1994 [CI1522: 268]
1921	<i>Leprotintinnus</i> JÖRGENSEN 1900	926	I.C.Z.N. 1970 [CI1605: 89]
1920	<i>Tintinnidium</i> KENT 1881	926	I.C.Z.N. 1970 [CI1605: 89]
1919	<i>Tintinnus</i> SCHRANK 1803	926	I.C.Z.N. 1970 [CI1605: 89]

#### Ciliates on the Official Index of Rejected and Invalid Generic Names in Zoology

Name No.	Genus	Opinion	Reference
441	<i>Ecclissa</i> SCHRANK 1803	418	I.C.Z.N. 1956 [CI1451: 45]
440	<i>Eclissa</i> MODEER 1790	418	I.C.Z.N. 1956 [CI1451: 45]
442	<i>Linza</i> SCHRANK 1802	418	I.C.Z.N. 1956 [CI1451: 45]
444	<i>Tubaria</i> THIENEMANN 1828	418	I.C.Z.N. 1956 [CI1451: 46]
445	<i>Stentorella</i> REICHENBACH 1828	418	I.C.Z.N. 1956 [CI1451: 47]
1968	<i>Enchelis</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 34]
1969	<i>Kolpoda</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 34]
1970	<i>Leptoglena</i> GRASSÉ & BOISSEZON 1929	915	I.C.Z.N. 1970 [CI1520: 34]
1971	<i>Leucopera</i> GMELIN 1790	915	I.C.Z.N. 1970 [CI1520: 34]
1972	<i>Leucophrus</i> EHRENBERG 1838	915	I.C.Z.N. 1970 [CI1520: 34]
1973	<i>Leucophrys</i> EHRENBERG 1830	915	I.C.Z.N. 1970 [CI1520: 34]
1974	<i>Paraglaucoma</i> WARREN 1932	915	I.C.Z.N. 1970 [CI1520: 34]
1975	<i>Protobalantidium</i> ABÉ 1927	915	I.C.Z.N. 1970 [CI1520: 35]
1976	<i>Ptyxidium</i> PERTY 1852	915	I.C.Z.N. 1970 [CI1520: 35]
1977	<i>Saprophilus</i> STOKES 1887	915	I.C.Z.N. 1970 [CI1520: 35]
1978	<i>Tetrahymen</i> MAST & PACE 1946	915	I.C.Z.N. 1970 [CI1520: 35]
1979	<i>Tetrahymenia</i> MUGARD 1949	915	I.C.Z.N. 1970 [CI1520: 35]
1980	<i>Turchiniella</i> GRASSÉ & BOISSEZON 1929	915	I.C.Z.N. 1970 [CI1520: 35]
non	<i>Volverella</i> BORY [1827]	1778	I.C.Z.N. 1994 [CI1522: 268]
non	<i>Schizopus</i> CLAPARÈDE & LACHMANN 1858	1727	I.C.Z.N. 1993 [E02121: 174]

### Ciliates on the Official List of Specific Names in Zoology

Name No.	Species	Opinion	Reference
non	<i>Diplodinium dentatum</i> (STEIN 1858)	202	I.C.Z.N. 1954 [CI1561: 284]
733	<i>Stentor muelleri</i> EHRENBERG 1831	418	I.C.Z.N. 1956 [CI1451: 47]
1390	<i>Bursaria truncatella</i> MÜLLER 1773	104	I.C.Z.N. 1957 [PR1156: 268]
2388	<i>Balantidium entozoon</i> (EHRENBERG 1838)	915	I.C.Z.N. 1970 [CI1520: 34]
2389	<i>Colpidium colpoda</i> (LOSANA 1829)	915	I.C.Z.N. 1970 [CI1520: 34]
2390	<i>Colpoda cucullus</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 34]
2391	<i>Enchelys farcimen</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 34]
2392	<i>Glaucoma scintillans</i> EHRENBERG 1830	915	I.C.Z.N. 1970 [CI1520: 34]
2393	<i>Tetrahymena pyriformis</i> (EHRENBERG 1830)	915	I.C.Z.N. 1970 [CI1520: 34]
2394	<i>Leucophrys patula</i> EHRENBERG 1830	915	I.C.Z.N. 1970 [CI1520: 34]
2408	<i>Tintinnus inquilina</i> (MÜLLER 1776)	926	I.C.Z.N. 1970 [CI1605: 89]
2409	<i>Tintinnidium fluviatilis</i> (STEIN 1863)	926	I.C.Z.N. 1970 [CI1605: 89]
2410	<i>Leprotintinnus pellucidus</i> (CLEVE 1899)	926	I.C.Z.N. 1970 [CI1605: 89]
non	<i>Acineta tuberosa</i> EHRENBERG [1834]	1778	I.C.Z.N. 1994 [CI1522: 268]
non	<i>Tokophrya quadripartita</i> (CLAPARÈDE & LACHMANN 1859)	1778	I.C.Z.N. 1994 [CI1522: 268]
non	<i>Strombidion caudatum</i> FROMENTEL 1876	1955	I.C.Z.N. 2000 [Z06642: 177]

### Ciliates on the Official Index of Rejected and Invalid Specific Names in Zoology

Name No.	Species	Opinion	Reference
314	<i>Stentor solitarius</i> OKEN 1815	418	I.C.Z.N. 1956 [CI1451: 47]
932	<i>Paramaecium [sic] kolpoda</i> LOSANA 1829	915	I.C.Z.N. 1970 [CI1520: 35]
933	<i>Enchelis ovulum</i> MÜLLER 1773	915	I.C.Z.N. 1970 [CI1520: 35]
934	<i>Trichoda patula</i> MÜLLER 1786	915	I.C.Z.N. 1970 [CI1520: 35]
935	<i>(Tetrahymena) piriformis</i>	915	I.C.Z.N. 1970 [CI1520: 35]
936	<i>Kolpoda pirum</i> MÜLLER 1786	915	I.C.Z.N. 1970 [CI1520: 35]
937	<i>Trichoda pyrum</i> EHRENBERG 1830	915	I.C.Z.N. 1970 [CI1520: 35]
non	<i>Brachionus tuberosus</i> PALLAS 1766	1778	I.C.Z.N. 1994 [CI1522: 268]
non	<i>Volverella astoma</i> BORY 1824	1778	I.C.Z.N. 1994 [CI1522: 268]
non	<i>Vorticella tuberosa</i> (MÜLLER 1786)	1778	I.C.Z.N. 1994 [CI1522: 268]

## Appendix 4. Index of Generic Names

Although genera are arranged alphabetically in the main part, an index is provided to facilitate detailed research on synonymy and change in combinations of type species. Bonafide (nomenclaturally available and taxonomically valid) generic names are in **boldface italics** print; invalid generic names are given in *italics*. Non-ciliate taxa are given in *italics*, but put in parentheses. Unavailable vernacular names or nomina nuda appear in a "regular" style of print.

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