



Catalog of Type Specimens
in the International Protozoan Type
Collection

LINDA COLE

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Linda Cole



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ABSTRACT

Cole, Linda. Catalog of Type Specimens in the International Protozoan Type Collection. *Smithsonian Contributions to Zoology*, number 561, 28 pages, 1994.—The International Protozoan Type Collection, which is located at the National Museum of Natural History, Smithsonian Institution, Washington, D.C., includes holotypes, paratypes, syntypes, neotypes, lectotypes and paralectotypes. As of October 1992, the collection consists of five phyla (Ciliophora, Sarcomastigophora, Apicomplexa, Microspora, and Myxozoa) composing approximately 542 species. This catalog lists types within each Phylum/Subphylum/Superclass/Class/Order/Suborder/Family/Subfamily in alphabetical order by genus and also by species. The naming authorities and year, nature of type, amount of material, catalog number, and host are given.

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Catalog of Type Specimens in the International Protozoan Type Collection

Linda Cole

Introduction

The International Protozoan Type Collection had its origin in the International Collection of Type Specimens of Species of Ciliate Protozoa, established in 1963 at the University of Illinois at Urbana. The collection in Urbana was established due to a growing concern among protozoologists for preservation of material of value, and the collection and grew despite early problems of motivation, giving up material from personal collections and cost of shipping. The entire collection was later moved from Illinois to the United States National Museum (USNM) in Washington, D.C., for a variety of reasons (Corliss, 1972). The collection is now deposited in the National Museum of Natural History (NMNH), Smithsonian Institution, Washington, D.C.

In 1972, J.O. Corliss reported that the International Protozoan Type Collection contained over 250 slides of the phylum Ciliophora representing about 125 nominal species. Since then, the Ciliophora collection has expanded to include over 400 slides representing about 300 nominal species. The collection now also includes species of the Phylum Sarcomastigophora, Apicomplexa, Microspora, and Myxozoa. The International Protozoan Type Collection belongs to all protozoologists and scientists are encouraged to borrow or donate collections as necessary.

The collection is composed of approximately 650 slides or specimens of approximately 542 species of free-living and symbiotic organisms. Approximately 90% of the collection consists of permanent microscope slide preparations. The other 10% consists of specimens in alcohol, formalin, Bouin's solution, and picric acid. The systematic order of species in the present work follows the classification of Lee, Hutner, and Bovee (1985), *An Illustrated Guide to the Protozoa*. The catalog includes species received before November 1992 with descriptions published before November 1992.

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Protozoan Species List

Phylum SARCOMASTIGOPHORA

Subphylum MASTIGOPHORA

Class PHYTOMASTIGOPHOREA

Order DINOFLAGELLIDA

Suborder DINIFERINA

Family PERIDINIIDAE

Peridinium kincaidi Wailes, 1933:1-4, syntype, USNM 22526, 1 wet lot, host: crustaceans, Unmak Island, Alaska.

Suborder SYNDININA

Family DUBOSQUELLIDAE

Dubosquella cachoni Coats, 1988:607-617, syntypes, USNM 40528 and 40529, 1 slide each, host: *Eutintinnus pectinis* (ciliate), Chesapeake Bay, Maryland.

Suborder BLASIDININA

Family APODINIDAE

Apodinium floodi McClean and Galt, 1990:213-219, syntypes, USNM 42349-42351, 1 epoxy block each, host: *Oikopleura labradoriensis* (tunicate), San Juan Island, Washington.

Family HAPLOZIDAE

Haplozoon axiothella Siebert, 1973:185-190, holotype, USNM 24311, 1 slide; paratype, USNM 24312, 1 slide.

host: *Axiothella rubrocineta* (annelid), Puget Sound, San Juan Island, Washington.

Family OODINIDAE

Oodinium cyprinodontum Lawler, 1967:67–68, holotype, USNM 23856, 1 slide; paratypes, USNM 23857–23876, 1 slide each; paratypes USNM 23877–23880, 1 wet lot each, host: *Fundulus majalis* (bony fish), York River, Gloucester Point, Gloucester County, Virginia.

Oodinium jordani McLean and Nielsen, 1989:61–66, syntypes, USNM 41713–41715, 1 epoxy block each, host: *Sagitta elegans* (annelid), San Juan Island, Washington.

Family GYMNODINIIDAE

Gymnodinium brevis Davis, 1949:67–103, syntype, USNM 23260, 1 wet lot, Venice, Florida.

Order VOLVOCIDA

Suborder VOLVOCINA

Family VOLVOCIDAE

Platydorina caudata Kofoid, 1899:419–438, holotype, USNM 7710, 1 wet specimen, host: plankton, Havana, Illinois.

Class ZOOMASTIGOPHOREA

Order TRICHOMONADIDA

Trichomitus parvus Swezy, 1915:89–94, syntype, USNM 9152, 1 slide, host: *Batrachoseps attenuatus* (amphibian), Berkeley, California.

Order DIPLOMONADIDA

Family HEXAMITIDAE

Giardia microti Kofoid and Christiansen, 1915:547–552, syntype, USNM 9151, 1 slide, host: *Microtus californicus* (rodent), California.

Hexamita nelsoni Schlicht and Mackin, 1967:35–39, holotype, USNM 23968, 1 slide; paratypes, USNM 23969–23972, 1 slide each, host: *Crassostrea virginica* (mollusk), Texas.

Order STEPHANOPOGONIDA

Family STEPHANOPOGONIDAE

Stephanopogon apogon Borror, 1965a:553–554, holotype, USNM 24183, 1 slide, Rye, New Hampshire.

Order KINETOPLASTIDA

Suborder BODONINA

Family BODONIDAE

Cryptobia eilatitica Diamont, 1990:482–489, syntype, USNM 42119, 1 slide, host: *Sparus aurata* (bony fish), Eilat, Israel.

Suborder TRYPANOSOMATINA

Family TRYPANOSOMATIDAE

Crithidia euryophthalmi McCulloch, 1917:75–88, syntype,

USNM 33680, 1 slide, host: *Euryophthalmus convivus* (insecta), San Francisco, California.

Trypanosoma hydrae Ayala, Atkinson and Vakalis, 1983:393, paratype, USNM 31427, 2 slides, host: *Nerodia fasciata confluens* (reptile), Saint Charles Parish, Louisiana.

Trypanosoma ohiocephali Pearse, 1933:180, holotype, USNM 22072, 1 slide; paratypes, USNM 22075, 3 slides, host: *Ophiocephalus striatus* (crustacean), Bangkok, Thailand.

Trypanosoma trichogaster Pearse, 1933:180, holotype, USNM 22073, 1 slide, paratype, USNM 22076, 1 slide, host: *Trichogaster trichopterus* (crustacean), Bangkok, Thailand.

Trypanosoma yaegeri Ayala, Atkinson and Vakalis, 1983:391, holotype, USNM 31891, 1 slide, host: *Agkistrodon piscivorus leucostoma* (reptile), Saint Charles Parish, Louisiana.

Order PARABASALIDA

Family COCHLOSOMIDAE

Cochlosoma picae Travis, 1938:343–351, holotype, USNM 22612, 1 slide, host: *Pica pica hudsonia* (Aves), Bliss, Idaho.

Cochlosoma turdi Travis, 1938:234–351, holotype, USNM 22613, 1 slide, host: *Turdus migratorius migratorius* (Aves), Ames, Iowa.

Subphylum OPALINATA

Class OPALINATEA

Order OPALINIDA

Cepedea baudinii Metcalf, 1923:154–155, holotype, USNM 16525, 1 slide, host: *Hyla baudinii* (amphibian), Cordova, Mexico.

Cepedea borneonensis Metcalf, 1923:159, holotype, USNM 16517, 1 slide, host: *Bufo jerboa* (amphibian), Borneo, Indonesia.

Cepedea buergeri Metcalf, 1923:145–146, holotype, USNM 16582, 1 slide, host: *Polypedates buergeri* (amphibian), Province Iga, Hondo, Japan.

Cepedea buergeri sinensis Metcalf, 1923:146–147, holotype, USNM 16589, 1 slide, host: *Bufo gargarizans* (amphibian), Hong Kong.

Cepedea cantabrigensis Metcalf, 1923:162–164, holotype, USNM 16552, 1 slide, host: *Rana cantabrigensis* (amphibian), Fort Cosmos, Alaska.

Cepedea celebensis Metcalf, 1940:502, holotype, USNM 22632, 2 slides, host: *Bufo celebensis* (amphibian), Teneboon, Celebes, Indonesia.

Cepedea ciliata Metcalf, 1940:518, holotype, USNM 22641, 2 slides, host: *Hyla fuscovaria* (amphibian), Minas Gerais, Brazil.

Cepedea dimidiata hawaiiensis Metcalf, 1923:143–144, holotype, USNM 16512, 1 slide, host: *Rana catesbiana*, (amphibian), Hawaii.

Cepedea dimidiata orientalis Metcalf, 1923:141–142, holo-

- type, USNM 16511, 1 slide, host: *Rana nigromaculata*, (amphibian), Yokomana, Japan.
- Cepedea dimidiata paraguensis* Metcalf, 1923:142–143, syntype, USNM 16526, 1 slide, host: *Hyla nassica* (amphibian), Paraguay.
- Cepedea dolichosoma* Metcalf, 1923:168, holotype, USNM 16530, 1 slide, host: *Bufo haematiticus* (amphibian), Nicaragua.
- Cepedea floridensis* Metcalf, 1923:158–159, holotype, USNM 16518, 1 slide, host: *Scaphiopus albus* (amphibian), Key West, Florida Keys, Florida.
- Cepedea formosae* Metcalf, 1923:160–161, holotype, USNM 16523, 1 slide, host: *Bufo melanostictus* (amphibian), Taiwan.
- Cepedea fujiensis* Metcalf, 1923:159–160, holotype, USNM 16522, 1 slide, host: *Bufo formosus* (amphibian), Fuji, Japan.
- Cepedea globosa* Metcalf, 1923:153–154, holotype, USNM 16524, 1 slide, host: *Phyllomedusa lemur* (amphibian), Turiaba, Costa Rica.
- Cepedea hasseltii* Metcalf, 1940:504, holotype, USNM 22633, 3 slides, host: *Leptobranchium hasseltii* (amphibian), Banten, Java Island, Indonesia.
- Cepedea hispanica* Metcalf, 1923:161–162, holotype, USNM 16510, 1 slide, host: *Rana esculenta hispanica* (amphibian), Alicante Province, Spain.
- Cepedea hosei* Metcalf, 1940:505–506, holotype, USNM 22635, 3 slides, host: *Nectophryne hosei* (amphibian), Landak River, Bornea, Indonesia.
- Cepedea lemurae* Metcalf, 1940:508–510, holotype, USNM 22637, 3 slides, host: *Polypedates rhodoscelis* (amphibian), Madagascar.
- Cepedea longa macronucleata* Metcalf, 1940:519–520, holotype, USNM 22642, 3 slides, host: *Rana vittigera* (amphibian), Guijulugan, Negros Island, Philippines.
- Cepedea luzonensis* Metcalf, 1940:514–515, holotype, USNM 22639, 1 slide, host: *Rana luzonensis* (amphibian), Benquet Province, Philippines.
- Cepedea luzonensis aponensis* Metcalf, 1940:517–518, holotype, USNM 22640, 3 slides, host: *Rana magna* (amphibian), Mount Apo, Mindanao, Philippines.
- Cepedea madagascariensis* Metcalf, 1923:149–150, holotype, USNM 16514, 1 slide, host: *Megalixalus madagascariensis*, (amphibian), Madagascar.
- Cepedea madagascariensis hyperolius* Metcalf, 1923:150, syntype, USNM 16532, 1 slide, host: *Hyperolius marmoratus* (amphibian), West Africa.
- Cepedea magna* Metcalf, 1923:150–152, holotype, USNM 16515, 1 slide, host: *Bufo latifrons* (amphibian), Cameroon, West Africa; paratype, USNM 41867, 1 slide, host: *Heleophryne natalensis* (amphibian), Tzaneen, Transvaal, South Africa; paratype, USNM 41868, 1 slide, host: *Bufo rangeri* (toad), Plettenberg Bay, South Africa; paratype, USNM 41869, 1 slide, host: *Phrynomerus bifasciatus* (amphibian); paratype, USNM 41870, 1 slide, host: *Semnodactylus wealii* (amphibian), Ladybrand, Orange Free State, South Africa; paratype, USNM 41871, 1 slide, host: *Kassina senegalensis* (amphibian), Bloemfontein, Orange Free State, South Africa; paratype, USNM 41872, 1 slide, host: *Bufo rangeri* (amphibian); paratype, USNM 41873, 1 slide, host: *Bufo gutturalis* (amphibian), Mtunzini, Natal, South Africa.
- Cepedea marginata* Amaro, 1964a:5–10, syntypes, USNM 24296–24299, 1 slide each, host: *Hyla similis cochrau* (amphibian), Manguinhos, Rio de Janeiro, Brazil.
- Cepedea mexicana* Metcalf, 1923:160, holotype, USNM 16502, 1 slide, host: *Rana pipiens* (amphibian), Mexico.
- Cepedea microhylae* Metcalf, 1940:504–505, holotype, USNM 22634, 3 slides, host: *Microhyla leucostigma* (amphibian), Borneo Island, Indonesia.
- Cepedea minor* Metcalf, 1923:147–148, holotype, USNM 16583, 1 slide, host: *Alytes obstetrican* (amphibian), France.
- Cepedea multiformis* Metcalf, 1923:164–165, holotype, USNM 16527, 1 slide, host: *Hyla albomarginata* (amphibian), Bonito, Brazil.
- Cepedea multiformis schlegelii* Metcalf, 1923:165–168, holotype, USNM 16529, 1 slide, host: *Polypedates schlegelii* (amphibian), Yokohama, Japan.
- Cepedea obovoidea* Metcalf, 1923:151–153, holotype, USNM 16516, 1 slide, host: *Bufo lentiginosus* (amphibian) Auburndale, Florida.
- Cepedea occidentalis* Metcalf, 1923:157, holotype, USNM 16505, 1 slide, host: *Rana chrysoprasina* (amphibian), Nicaragua.
- Cepedea ophis* Metcalf, 1923:170–171, holotype, USNM 16520, 1 slide, host: *Rana tigerina* (amphibian), near Sumatra, Billeton Island, Indonesia.
- Cepedea philippensis* Metcalf, 1940:513–514, holotype, USNM 22638, 5 slides, host: *Bufo philippinicus* (amphibian), Caiholo River, Ulugan Bay, Palawan, Philippines.
- Cepedea phrynomantidis* Metcalf, 1923:148–149, holotype, USNM 16513, 1 slide, host: *Phrynomantis bifasciata* (amphibian), Tana, Africa.
- Cepedea plata* Metcalf, 1940:521–522, holotype, USNM 22643, 3 slides, host: *Hyla faber* (amphibian), Rio de Janeiro, Brazil.
- Cepedea pulchra* Metcalf, 1923:155, holotype, USNM 16504, 1 slide, host: *Kaloula pulchra* (amphibian), Cochin, China.
- Cepedea pulchra japonica* Metcalf, 1923:156, holotype, USNM 16503, 1 slide, host: *Rana rugosa* (amphibian), Nara, Yamoto Province, Japan.
- Cepedea pulchra javensis* Metcalf, 1923:156–157, holotype, USNM 16623, 1 slide, host: *Bufo melanostictus* (amphibian), Buitenzorg, Java, Indonesia.
- Cepedea saharana* Metcalf, 1923:144–145, holotype, USNM 16626, 1 slide, host: *Rana esculenta ridibunda* (amphibian), Biskra, Algeria.
- Cepedea segmentata* Metcalf, 1923:171–173, holotype,

- USNM 16521, 1 slide, host: *Polypedates leucomystax* (amphibian), Sumatra, Billeton Island, Indonesia.
- Cepedea seychellensis* Metcalf, 1923:167–168, holotype, USNM 16531, 1 slide, host: *Megalixalus seychellensis* (amphibian), 1 slide, Ile Mahe, Seychelles.
- Cepedea siamensis* Metcalf, 1940:506–507, holotype, USNM 22636, 3 slides, host: *Bufo asper* (amphibian), Thailand.
- Cepedea spinifera* Metcalf, 1923:138–139, holotype, USNM 16501, 1 slide, host: *Oxyglossus lima* (amphibian), Buitenzorg, Java, Indonesia.
- Opalina asiatica* Metcalf, 1923:242, holotype, USNM 16608, 1 slide, host: *Bufo bufo asiaticus* (amphibian), Shanghai, China.
- Opalina bufoxena* Metcalf, 1923:241–243, syntype, USNM 16609, 1 slide, host: *Bufo bufo asiaticus* (amphibian), Manchuria, China.
- Opalina camerunensis* Metcalf, 1923:237–238, holotype, USNM 16601, 1 slide, host: *Hylambates rufus* (amphibian), Cameroon.
- Opalina carolinensis* Metcalf, 1923:196–197, holotype, USNM 16557, 1 slide, host: *Rana pipiens spheocephala* (amphibian), Kissimee Prairie, Florida.
- Opalina chorophili* Metcalf, 1923:213–216, holotype, USNM 16569, 1 slide, host: *Chorophilus triseriatus* (amphibian), Raleigh, North Carolina.
- Opalina copei* Metcalf, 1923:209–211, holotype, USNM 16586, 1 slide, host: *Rana copei* (amphibian), Pico Blanca, Costa Rica.
- Opalina discophyra* Metcalf, 1923:199–200, holotype, USNM 16585, 1 slide, host: *Bufo cognatus* (amphibian), Albuquerque, New Mexico.
- Opalina draytonii* Metcalf, 1923:235–236, holotype, USNM 16600, 1 slide, *Rana draytonii* (amphibian), probably San Francisco, California.
- Opalina duquesnei* Delvignier, Markus and Passmore, 1991a:133–134, paratypes, USNM 41900 and 41901, 1 slide each, host: *Chiromantis xerampelina* (amphibian), Swaziland.
- Opalina gigantea* Metcalf, 1923:241–242, holotype, USNM 16605, 1 slide, host: *Bufo compactilis* (amphibian), Texas.
- Opalina guatemalae* Metcalf, 1923:197–198, holotype, USNM 16567, 1 slide, host: *Hyla baudinii* (amphibian), Guatemala.
- Opalina helenae* Metcalf, 1923:216–217, holotype, USNM 16576, 1 slide, host: *Agalychnis helenae* (amphibian), San Carlos, Costa Rica.
- Opalina helenae phyllomedusae* Metcalf, 1923:217, holotype, USNM 16578, 1 slide, host: *Phyllomedusa degnicolor* (amphibian), Mexico.
- Opalina hylaxena* Metcalf, 1923:218–219, holotype, USNM 16573, 1 slide, host: *Hyla versicolor* (amphibian), Leland, Michigan.
- Opalina hylaxema georgiana* Metcalf, 1923:220, holotype, USNM 16574, 1 slide, host: *Hyla versicolor* (amphibian), Tate, Georgia.
- Opalina hylaxena orbiculata* Metcalf, 1923:219, holotype, USNM 16575, 1 slide, host: *Hyla versicolor* (amphibian), Woods Hole, Massachusetts.
- Opalina japonica* Metcalf, 1923:232–233, holotype, USNM 16599, 1 slide, host: *Rana japonica* (amphibian), Shikoku, Japan.
- Opalina japonica javensis* Metcalf, 1940:532–533, holotype, USNM 22647, 1 slide, host: *Nyctixalus margaritifera* (amphibian), Java Island, Indonesia.
- Opalina kennicotti* Metcalf, 1923:208–209, holotype, USNM 16551, 1 slide, host: *Rana areolata* (amphibian), Illinois.
- Opalina larvarum* Metcalf, 1923:244–246, syntype, USNM 16629, 1 slide, host: tadpoles of *Rana clamitans* (amphibian), Chester, Nova Scotia, Canada.
- Opalina malaysiae* Metcalf, 1940:530, holotype, USNM 22646, 3 slides, host: *Rana labialis* (amphibian), Trong, Thailand.
- Opalina mantellae* Metcalf, 1940:535–536, holotype, USNM 22648, 3 slides, host: *Mantella baroni* (amphibian), Madagascar.
- Opalina moreletii* Metcalf, 1923:217, holotype, USNM 16577, 1 slide, host: *Agalychnis moreletii* (amphibian), Guatemala.
- Opalina natalensis* Metcalf, 1923:234, holotype, USNM 16588, 1 slide, host: *Phrynobatrachus natalensis* (amphibian), Bahr-el-Gebel, Sudan, Africa.
- Opalina nucleolata* Metcalf, 1940:538–539, holotype, USNM 22649, 2 slides, host: *Rana chalconata* (amphibian), Buitenzorg, Java Island, Indonesia.
- Opalina nucleolata siamensis* Metcalf, 1940:539, holotype, USNM 22650, 2 slides, host: *Rana macrodon* (amphibian), Thailand.
- Opalina oblancoolata* Metcalf, 1923:221–222, holotype, USNM 16580, 1 slide, host: *Scaphiopus hammondii* (amphibian), Springerville, Arizona.
- Opalina obrigonoidea* Metcalf, 1923:177–185, holotype, USNM 16536, 1 slide, host: *Bufo fowleri* (amphibian), Woods Hole, Massachusetts.
- Opalina obrigonoidea americana* Metcalf, 1923:187–188, holotype, USNM 16584, 1 slide, host: *Bufo americanus* (amphibian), Raleigh, North Carolina.
- Opalina obrigonoidea austriaca* Metcalf, 1923:193–195, holotype, USNM 16590, 1 slide, host: *Rana pipiens austriaca* (amphibian), Tabasco, Mexico.
- Opalina obrigonoidea lata* Metcalf, 1923:190–192, holotype, USNM 16563, 1 slide, host: *Rana aurora* (amphibian), Crater Lake, Oregon.
- Opalina obrigonoidea maxima* Metcalf, 1923:188–190, holotype, USNM 16538, 1 slide, host: *Bufo boreas* (amphibian), Haines, Alaska.
- Opalina obrigonoidea orbiculata* Metcalf, 1923:192–193, holotype, USNM 16565, 1 slide, host: *Hyla cinerea* (amphibian), Maryland.
- Opalina obrigonoidea plicata* Metcalf, 1923:185, holotype,

- USNM 16562, 1 slide, host: *Rana palustris* (amphibian), Woods Hole, Massachusetts.
- Opalina oregonensis* Metcalf, 1923:208, holotype, USNM 16548, 1 slide, host: *Hyla regilla* (amphibian), Three Sisters, Oregon.
- Opalina panamiensis* Metcalf, 1923:236–237, holotype, USNM 16606, 1 slide, host: *Bufo typhonicus* (amphibian), Bahia Solada, Panama.
- Opalina pickeringi* Metcalf, 1923:200–202, holotype, USNM 16545, 1 slide, host: *Hyla pickeringii* (amphibian), Raleigh, North Carolina.
- Opalina raddei* Metcalf, 1923:240–242, holotype, USNM 16604, 1 slide, host: *Bufo raddei* (amphibian), Hei Sui, China.
- Opalina ranarum arvalis* Metcalf, 1923:230, holotype, USNM 16598, 1 slide, host: *Rana avalis* (amphibian), Austria.
- Opalina ranarum cinctoidea* Metcalf, 1923:227–228, holotype, USNM 16595, 1 slide, host: *Rana temporaria* (amphibian), Wurzburg, West Germany.
- Opalina ranarum lata* Metcalf, 1923:230–231, holotype, USNM 16603, 1 slide, host: *Bufo viridis* (amphibian), Naples, Italy.
- Opalina ranarum orbiculata* Metcalf, 1940:527–528, holotype, USNM 22644, 3 slides, host: *Rana glandulosa* (amphibian), Singapore.
- Opalina ranarum parvipalmatae* Metcalf, 1923:228–230, holotype, USNM 16596, 1 slide, host *Rana temporaria parvipalmata* (amphibian), Ariege, France.
- Opalina ranarum smithi* Metcalf, 1923:231–232, holotype, USNM 16607, 1 slide, host: *Bufo smithi* (amphibian), Kochi, Japan.
- Opalina ranarum truncata* Metcalf, 1923:224–226, holotype, USNM 16594, 1 slide, host: *Rana temporaria* (amphibian), Wurzburg, West Germany.
- Opalina rotunda* Metcalf, 1923:239, holotype, USNM 16602, 1 slide, host: *Rana erythraena* (amphibian), Cambodia.
- Opalina spiralis* Metcalf, 1923:211–213, holotype, USNM 16616, 1 slide, host: *Bufo comactilis* (amphibian), Pecos River, Texas.
- Opalina terraemariae* Metcalf, 1923:209, holotype, USNM 16568, 1 slide, host: *Hyla evittata* (amphibian), Easton, Maryland.
- Opalina triangulata* Metcalf, 1923:211–212, holotype, USNM 16610, 1 slide, host: *Bufo lentiginosus* (amphibian), Auburndale, Florida.
- Opalina virguloidea* Metcalf, 1923:203–206, holotype, USNM 16546, 1 slide, host: *Hyla exima* (amphibian), Mexico.
- Opalina virguloidea magninucleata* Metcalf, 1923:206–207, holotype, USNM 16549, 1 slide, host: *Acris gryllus* (amphibian), North Carolina.
- Opalina woodhousi* Metcalf, 1923:198–199, holotype, USNM 16539, 1 slide, host: *Bufo woodhousi* (amphibian), Utah.
- Opalina zeylonica* Metcalf, 1940:529–530, holotype, USNM 22645, 2 slides, host: *Polypedates eques* (amphibian), Bogawantalava, Ceylon.
- Protoopalina adelaidensis* Metcalf, 1923:53–54, holotype, USNM 16624, 1 slide, host: *Hylo adelaidensis* (amphibian), Margaret River, Wollongong, Australia.
- Protoopalina africana* Metcalf, 1923:60, holotype, USNM 16447, 1 slide, host: *Rana tigerina* (amphibian), Cameroon.
- Protoopalina australis* Metcalf, 1923:68–70, holotype, USNM 16619, 1 slide, host: *Hyla aurea* (amphibian), Wollongong, New South Wales, Australia.
- Protoopalina axonucleata lata* Metcalf, 1923:84–85, holotype, USNM 16622, 1 slide, host: *Rana nigromaculata* (amphibian), Shensi, China.
- Protoopalina axonucleata* Metcalf, 1923:82–84, holotype, USNM 16458, 1 slide, host: *Bufo bufo asiaticus* (amphibian), Seoul, Korea.
- Protoopalina bibronii* Metcalf, 1940:468–469, holotype, USNM 22621, 2 slides, host: *Pseudophyrne bibronii* (amphibian), Ebor, New South Wales, Australia.
- Protoopalina borneoensis* Metcalf, 1940:469, holotype, USNM 22622, 3 slides, host: *Polypedates reinwardtii* (amphibian), Borneo, Indonesia.
- Protoopalina bufonis* Metcalf, 1923:74–75, holotype, USNM 16495, 1 slide, host: *Bufo peltocephalus* (amphibian), Cuba.
- Protoopalina caudata attenuata* Metcalf, 1923:41–43, holotype, USNM 16431, 1 slide, host: *Bombina bombina* (amphibian), Wurzburg, Germany.
- Protoopalina caudata discoglossi* Metcalf, 1923:41–43, holotype, USNM 16438, 1 slide, host: *Discoglossus pictus* (amphibian), Sardinia.
- Protoopalina caudata lata* Metcalf, 1923:41, holotype, USNM 16430, 1 slide, host: *Bombina pachypa* (amphibian), Wurzburg, Germany.
- Protoopalina diplocarva* Metcalf, 1923:33–34, holotype, USNM 16428, 1 slide, host: *Eleutherodactylus leptopus* (amphibian), Wayne Harbor, Patagonia, Argentina.
- Protoopalina filiformis* Metcalf, 1923:56–58, holotype, USNM 16444; paratype, USNM 16445, 1 slide, host: *Rana tigrina* (amphibian), Kagi, Formosa.
- Protoopalina formosae* Metcalf, 1923:80–81, holotype, USNM 16456, 1 slide, host: *Bufo melanostictus* (amphibian), Kagi, Formosa.
- Protoopalina hammondii* Metcalf, 1923:76–77, holotype, USNM 16453, 1 slide, host: *Scaphiopus hammondii* (amphibian), Guanajuato, Mexico.
- Protoopalina jonesi* Delvinquier, 1987:98, syntype, USNM 38670, 38672 and 38676, 1 slide (on same slide as *P. tronchini*), host *Litoria dumerilu* (amphibian), Kenilworth, Queensland, Australia.
- Protoopalina longinucleata* Metcalf, 1923:72–73, holotype, USNM 16449, 1 slide, host: *Telmatobius jelskii* (amphibian), guamote, Ecuador.
- Protoopalina luzonensis* Metcalf, 1940:473–474, holotype, USNM 22624, 2 slides, host: *Kaloula picta* (amphibian), Luzon Island, Philippines.

- Protoopalina macrocaudata* Metcalf, 1923:49–50, holotype, USNM 16439, 1 slide, host: *Bombina orientalis* (amphibian), Korea.
- Protoopalina mexicana* Metcalf, 1923:80, holotype, USNM 16455, 1 slide, host: *Scaphiopus multiplicatus* (amphibian), Mexico.
- Protoopalina mitotica* Metcalf, 1912:79–91, holotype, USNM 16454, 1 slide, host: *Amblystoma tigrinum* (amphibian), Lincoln, Nebraska. Transferred from the genus *Opalina* to *Protoopalina* by Metcalf (1923:77–80).
- Protoopalina montana* Metcalf, 1923:54–56, holotype, USNM 16443, 1 slide, host: *Megalophrys montana* (insecta), Java, Indonesia.
- Protoopalina mossambicensis* Metcalf, 1923:73–74, holotype, USNM 16450, 1 slide, host: *Rana adspersa* (amphibian), Mozambique.
- Protoopalina nutti* Metcalf, 1923:45–48, holotype, USNM 16621, 1 slide, host: *Rana nutti* (amphibian), British East Africa.
- Protoopalina orientalis* Metcalf, 1923:48, holotype, USNM 16460, 1 slide, host: *Bombina orientalis* (amphibian), Fusan, Korea.
- Protoopalina ovoidea* Metcalf, 1923:66–67, holotype, USNM 16496, 1 slide, host: *Gastrophryne texensis* (amphibian), Brownsville, Texas.
- Protoopalina papuensis* Metcalf, 1923:34–36, holotype, USNM 16625, 1 slide, host: *Hyla dolichopsis* (amphibian), Sorong, Papua New Guinea.
- Protoopalina pelobatidis* Metcalf, 1923:38–40, holotype, USNM 16429, 1 slide, host: *Pelobates fuscus* (amphibian), Klosterneuburg, Austria.
- Protoopalina peronii* Metcalf, 1923:37–38, holotype, USNM 16620, 1 slide, host: *Limnodynastes peronii* (amphibian), Wandadian, New South Wales, Australia. Metcalf's publication (1923) incorrectly states that *Cepedea sahara* has this same USNM number; however, *C. sahara* is cataloged under USNM number 16626.
- Protoopalina quadrinucleata* Metcalf, 1923:81–82, holotype, USNM 16457, 1 slide, host: *Rana macrodon* (amphibian), Java, Indonesia.
- Protoopalina raffae* Delvinqier, 1987:99, syntype, USNM 38669, host: *Litoria latopalmata* (amphibian), Harrisville, Queensland, Australia.
- Protoopalina regularis* Metcalf, 1923:70–71, holotype, USNM 15451, 1 slide, host: *Buro regularis* (amphibian), Gold Coast, West Africa.
- Protoopalina rhinodermatos* Metcalf, 1923:71–72, holotype, USNM 16448, 1 slide, host: *Rhinoderma darwinii* (amphibian), Concepcion, Chile.
- Protoopalina scaphiopodos* Metcalf, 1923:75–76, holotype, USNM 16452, 1 slide, host: *Scaphiopus bombifrons* (amphibian), Los Animas, California.
- Protoopalina singeri* Delvinqier, 1987:99, syntype, USNM 38670, host: *Litoria fallax* (amphibian), Pinjarra Hills, Queensland, Australia.
- Protoopalina tronchini* Delvinqier, 1987:100, syntype, USNM 38672, 1 slide (on same slide as *Protoopalina jonesi*), host: *Litoria rubella* (amphibian), Kenilworth, Queensland, Australia.
- Protoopalina waterloti* Delvinqier, 1987:100, syntype, USNM 38673, 1 slide, host: *Limnodynastes ornatus* (amphibian), Harrisville, Queensland, Australia.
- Protoopalina xamachana* Metcalf, 1940:478, holotype, USNM 22625, 2 slides, host: *Eleutherodactylus luteolus* (amphibian), Jamaica.
- Protoopalina xenopodos* Metcalf, 1923:61–63, holotype, USNM 16628, 1 slide, host: *Xenopus calcaratus* (amphibian), Zaire; paratype, USNM 41902, 1 slide, host: *Xenopus muelleri* (amphibian), Swaziland; paratype, USNM 41904, 1 slide, host: *Xenopus laevis* (amphibian), Barkly-East, South Africa.
- Protoopalina xyter* Metcalf, 1923:67–68, holotype, USNM 16497, 1 slide, host: *Gastrophryne usta* (amphibian), Tehuantepec, Mexico.
- Protoopalina yunnanensis* Metcalf, 1940:479, holotype, USNM 22626, 1 slide, host: *Bombina maxima* (amphibian), Yunnan Province, China.
- Protozelleriella devilliersi* Delvinqier, 1991b:163–168, paratype, USNM 41898, 1 slide, host: *Capensibufo rosei* (amphibian), Cape Province, South Africa.
- Zelleriella antilliensis* Metcalf, 1923:119–121, holotype, USNM 16483, 1 slide, host: *Bufo marinus* (amphibian), Jamaica.
- Zelleriella antunesi quadrata* Metcalf, 1940:488–489, holotype, USNM 22629, 3 slides, host: *Bufo crucifer* (amphibian), Rio de Janeiro, Brazil.
- Zelleriella atelopodos* Metcalf, 1923:88–89, holotype, USNM 16462, 1 slide, host: *Atelopus varius* (amphibian), Pico Blanco, Costa Rica.
- Zelleriella atelopyxena* Metcalf, 1923:91–92, holotype, USNM 16465, 1 slide, host: *Atelopus varius* (amphibian), Pico Blanco, Costa Rica.
- Zelleriella atelopyxena stelzneri* Metcalf, 1923:93, holotype, USNM 16466, 1 slide, host: *Atelopus stelzneri* (amphibian), Sapucay, Paraguay.
- Zelleriella binghami* Metcalf, 1923:109–111, holotype, USNM 16479, 1 slide, host: *Eleutherodactylus binghami* (amphibian), Urubamba, Peru.
- Zelleriella boulengeri* Metcalf, 1923:101, syntype, USNM 16472, 1 slide, host: *Prostherapis boucengeri* (amphibian), Gorgona Island, Colombia.
- Zelleriella bufoxena* Metcalf, 1923:121–122, holotype, USNM 16484, 1 slide, host: *Bufo haematiticus* (amphibian), Nicaragua.
- Zelleriella camusi* Delvinqier, 1987:101, syntype, USNM 38675, 1 slide, host *Limnodynastes tasmaniensis* (amphibian), Gawler, Australia.
- Zelleriella cornucopia* Amaro, 1964c:19–21, syntype, USNM 24308, 1 slide, host: *Bufo crucifer* (amphibian), Salvador, Bahia, Brazil.

- Zelleriella couchii* Metcalf, 1923:90, holotype, USNM 16463, 1 slide, host: *Scaphiopus couchii* (amphibian), Helotes, Texas.
- Zelleriella cusconis* Metcalf, 1923:107–109, holotype, USNM 16478, 1 slide, host: *Eleutherodactylus footei* (amphibian), Cuzco, Peru.
- Zelleriella darwinii* Metcalf, 1923:106–107, holotype, USNM 16477, 1 slide, host: *Rhinoderma darwinii* (amphibian), Concepcion, Chile.
- Zelleriella devincki* Delvinquier, 1987:102, syntype, USNM 38676, 1 slide (*Protoopalina jonesi* is also on slide), host: *Limnodynastes peronii* (amphibian), Asquith, New South Wales, Australia.
- Zelleriella dubia* Metcalf, 1940:489–491, holotype, USNM 22630, 7 slides, host: *Eupemphix nana* (amphibian), Angra dos Reis, Rio de Janeiro, Brazil.
- Zelleriella engystomopsis* Metcalf, 1923:93–96, holotype, USNM 16467, 1 slide, host: *Engystomops stentor* (amphibian), Tobago Island, Panama.
- Zelleriella freitasi* Amaro, 1965:1–3, syntypes, USNM 24309 and 24310, 1 slide each, host: *Hyla fuscomarginata* (amphibian), Municipio de Arachuz, Santa Cruz, Brazil.
- Zelleriella gambieri* Delvinquier, 1991b:168–171, paratype, USNM 41888, 1 slide, host: *Tomopterna natalensis* (amphibian), Transvaal, South Africa.
- Zelleriella garlandi* Delvinquier, 1991b:171, paratype, USNM 41887, 1 slide, host: *Kassina maculata* (amphibian), Natal, South Africa.
- Zelleriella hirsuta* Metcalf, 1923:134–136, holotype, USNM 16500, 1 slide, host: *Bufo cognatus* (amphibian), Phoenix, Arizona.
- Zelleriella hoytei* Delvinquier, 1987:102, syntype, USNM 38677, 1 slide, host: *Adelotus brevis* (amphibian), Mt. Nebo, Queensland, Australia.
- Zelleriella hypopacheos* Metcalf, 1923:87–88, holotype, USNM 16461, 1 slide, host: *Hypopachus variozonus* (amphibian), Guatemala.
- Zelleriella intermedia* Metcalf, 1923:123, holotype, USNM 16486, 1 slide, host: *Bufo intermidius* (amphibian), Buanajuato, Mexico.
- Zelleriella intermedia cuneata* Metcalf, 1923:123–124, holotype, USNM 16487, 1 slide, host *Bufo valliceps* (amphibian), Brownsville, Texas.
- Zelleriella leptodactyli* Metcalf, 1923:97–98, holotype, USNM 16469, 1 slide, host: *Leptodactylus albilabis* (amphibian), Tehuantepec, Mexico.
- Zelleriella magna* Metcalf, 1923:99–101, holotype, USNM 16471, 1 slide, host: *Leptodactylus typhonius* (amphibian), Chicara, Venezuela.
- Zelleriella microcarya* Metcalf, 1923:122–123, holotype, USNM 16485, 1 slide, host: *Bufo lemur* (amphibian), Puerto Rico.
- Zelleriella opisthocarya* Metcalf, 1923:127, holotype, USNM 16492, 1 slide, host: *Bufo coniferus* (amphibian), Costa Rica.
- Zelleriella ovonucleata* Metcalf, 1940:491, holotype, USNM 22631, 2 slides, host: *Leptodactylus pentadactylus* (amphibian), Bello Horizonte, Brazil.
- Zelleriella proterocarya* Amaro, 1964b:28–30, syntypes, USNM 24306 and 24307, 1 slide each, host: *Leptodactylus podicipinus* (crustacean), Salvador, Bahia, Brazil.
- Zelleriella ranaxena* Metcalf, 1923:106, holotype, USNM 16476, 1 slide, host: *Rana draytonii* (amphibian), California.
- Zelleriella sandoni* Delvinquier, 1991b:171, paratypes, USNM 41882–41886, 1 slide each, host: *Kassina senegalensis* (amphibian), Transvaal, South Africa.
- Zelleriella scaphiopodos* Metcalf, 1923:90–91, holotype, USNM 16464, 1 slide, host: *Scaphiopus solitarius* (amphibian), Raleigh, North Carolina.
- Zelleriella telmatobii* Metcalf, 1923:131, holotype, USNM 16498, 1 slide, host: *Telmatobius jelskii* (amphibian), Blanca Island, Peru.
- Zelleriella uruguayensis* Metcalf, 1940:485–486, holotype, USNM 22627, 2 slides, host: *Bufo arrenarum* (amphibian), Montevideo, Uruguay.
- Zelleriella uruguayensis quadrata* Metcalf, 1940:486–487, holotype, USNM 22628, 3 slides, host: *Bufo crucifer* (amphibian), Rio de Janeiro, Brazil.
- Zelleriella vivieri* Delvinquier, 1987:102–103, syntype, USNM 38678, 1 slide, host: *Limnodynastes dumerilii* (amphibian), Heathcote junction, Victoria, Australia.
- Subphylum SARCODINA
 Superclass RHIZOPODEA
 Class LOBOSEA
 Subclass GYMNAMOEBIA
 Order AMOEBIDA
 Suborder TUBULINA
 Family ENTAMOEBIDAE
- Entamoeba nezuma* Orias and Noble, 1971:945–947, syntype, USNM 24110, 1 slide, host: *Nezumia bairdi* (bony fish), North Atlantic Ocean.
- Superclass ACTINOPODEA
 Class POLYCYSTINEA
 Order SPUMELLANIDA
 Suborder SPHAEROCOLLINA
 Family SPHAEROIDAE
- Collozoum caudatum* Swanberg and Anderson, 1981:1033–1047, holotype, USNM 32402, 1 wet lot, Ceara, Brazil.
- Collozoum longiforme* Swanberg and Harbison, 1980: 715–732, holotype, USNM 33675, 1 wet lot; paratypes, USNM 32401 and 32403, 1 wet lot each, Rio Grande do Norte, Brazil.
- Spongostaurus gracilis* Swanberg, Anderson, and Bennett, 1985:457, holotype, USNM 33288, 1 wet lot; paratype, USNM 33289, 1 slide, Portugal.
- Spongostaurus lobus* Swanberg, Anderson, and Bennett,

1985:457, holotype, USNM 33290, 1 slide, St. James, Barbados.

Class PHAEODAREA

Order PHAEOCALPIDA

Family CASTANELLIDEA

Castanissa brevidentata Kling, 1967:1041, holotype, USNM 23828, 1 slide; paratype, USNM 23826, 1 slide (on same slide as *Castanella thorsoni*-23797); paratypes, USNM 23827 and 23829, 1 slide each, North Pacific Ocean, north of Hawaii (27°27'00"N, 155°00'00"W).

Castanissa parvacantha Kling, 1967:1041, holotype, USNM 23820, 1 slide; paratypes, USNM 23819—1 slide, 23821—2 slides and 23822—1 slide, North Pacific Ocean, north of Hawaii (40°51'00"N, 155°00'00"W).

Circocastanea triangulata Kling, 1967:1041, holotype, USNM 23839, 1 slide, off Washington (47°30'00"N, 135°00'00"W); paratype, USNM 23840, 1 slide (on same slide as *Castanella wyvillei*-23792 and *Haekeliana irregularis*-23845), off British Columbia, Canada.

Class HELIOZOEA

Order CENTROHELIDA

Family HETEROPHYRIDAE

Cienkowskya arborescens Jones and Owen, 1973:41–56 holotype, USNM 24318, 1 slide, Mobile Bay, Alabama. Reference was not found by author.

Family ACANTHOCYSTIDAE

Pterocystis ebelii Wujek and Elsner, 1992:143–148, syntype, USNM 42836, 1 slide, Tamil Nadu, India.

Phylum APICOMPLEXA

Class PERKINASIDA

Order PERKINSORIDA

Family PERKINSIDAE

Dermocystidium marinum Mackin, Owen, and Collier, 1950:328, syntype, USNM 33658, 1 slide, host: *Crassostrea virginica* (mollusk), Louisiana.

Perkinsus atlanticus Azevedo, 1989:627–635, paratype, USNM 41601, 2 slides, host: *Ruditapes decussatus* (mollusk), Portugal.

Perkinsus olsenii Lester and Davis, 1981:181–187, syntype, USNM 30478, 3 slides, host: *Haliotis ruber* (mollusk), Port Lincoln, Australia.

Class SPOROZOASIDA

Subclass GREGARINASINA

Order EUGRAGARINORIDA

Family SELENIDIIDAE

Selenidium vivax Gunderson and Small, 1986:107–110, syntypes, USNM 30427 and 30428, 1 slide each, host: *Phascolosoma agassizii* (sipunculid), San Francisco Bay, California.

Family DIPLOCYSTIDAE

Diplocystis tipulae Sherlock, 1979:207–220, syntypes, USNM 24539–24544, 1 slide each, host: *Tipula paludosa* (insecta), Northumberland, England.

Family UROSPORIDAE

Uroporidium charletyi Dollfus, 1943:270–272, syntype, USNM 33657, 1 slide, host: *Catenotaenia dendritica* (cestode) in *Sciurus vulgaris* (rodent), France.

Pterospora demodendron Landers, 1991:55–59, syntype, USNM 42457, 1 slide, host: *Axiothella mucosa* (annelid), Bogue Banks, North Carolina.

Suborder SEPTATORINA

Superfamily POROSPORICAE

Family POROSPORIDAE

Nematopsis (Carcinoecetes) hesperus Ball, 1938:301–319, syntype, USNM 33655, 1 slide, host: *Pachygrapus cras-sipes* (crustacean), southern California.

Superfamily GREGARINICAE

Family CEPHALOIDOPHORIDAE

Cephaloidophora carpilodei Ball, 1963:323–324, syntype, USNM 23728, 1 slide, host: *Carpilodes rugatus* (crustacean), Coconut Island, Hawaii.

Cephaloidophora pinguis Ball, 1963:321, syntype, USNM 23729, 1 slide, host *Carpilodes rugatus* (crustacean), Coconut Island, Hawaii.

Family ACTINOCEPHALIDAE

Cosmetophilus vonones Cokendolpher, 1991:461–464, syntypes, USNM 42357–42360, 1 slide each, host: *Vonones sayi* (arachnid), Lake Kirby, Taylor County, Texas.

Family GREGARINIDAE

Gregarina ucae Pearse, 1933:180–181, holotype, USNM 22074, 1 slide, host: *Uca dissumieri* (crustacean), Paknam, Thailand.

Family HIRMOCYSTIDAE

Hyalospora gigantea Larsson, Bach and Gaju, 1992:119–133, syntype, USNM 43079–43083, 1 slide each, host: *Promesomachilis hispanica* (insecta), Hornachuelos, Spain.

Order NEOGREGARINORIDA

Family OPHROCYSTIDAE

Mattesia geminata Jouvenaz and Anthony, 1979:354–356, holotype, USNM 24546, 2 slides; paratype, USNM 24547, 4 slides, host: *Solenopsis geminata* (insecta), Gainesville, Florida.

Order AGAMOCOCCIDIORIDA

Family GEMMOCYSTIDAE

Gemnocystis cylindrus Upton and Peters, 1986:184–193, syntype, USNM 33662, 6 slides, host: *Dendrogyra cylindrus* (coelenterate), Gorgo City, Jamaica; syntype, USNM 33663, 3 slides, host: *Meandrina meandrites* (coelenterate), Rincon, Puerto Rico; syntype, USNM 33664, 2 slides, host: *Agaricia agaricites* (coelenterate), Discovery Bay, Jamaica; syntype, USNM 33665, 2 slides, host: *Porites* sp. (coelenterate), Gorgo City, Jamaica; syntype, USNM 33666, 3 slides, host: *Porites porites* (coelenterate), Gorgo City, Jamaica; syntype, USNM 33667, 2 slides, host: *Porites astreoides* (coelenterate), El Negro Reef, Puerto Rico.

Subclass COCCIDIASINA

Order EUCCOCCIDIORIDA

Suborder ADELEORINA

Family KLOSSIIDAE

Klossia aphodii Larsson, 1985:241–261, syntypes, USNM 34463 and 34464, 1 slide each, host: *Aphodius fimetarius* (insecta), Maryd, Sweden.

Family HAEMOGREGARINIDAE

Haemogregarina irkalukpiki Laird, 1961a:545–546, holotype, USNM 23676, 1 slide, host: *Salvelinus alpinus* (bony fish), False River, Ungava Bay, Quebec, Canada.

Hepatozoon cinereisciuri Herman and Price, 1955:49–51, holotype, USNM 23517, 1 slide, host: *Sciurus carolinensis* (rodent), Solomons, Maryland.

Hepatozoon mocassini Nadler and Miller, 1984:321–324, holotype, USNM 31201, 1 slide; paratype, USNM 31202, 5 slides, host: *Akgistrodon piscivorus leucostoma* (reptile), Louisiana.

Suborder EIMERIORINA

Family AGGREGATIDAE

Aggregata dobelli Poynton, Reimscheussel and Stoskopf, 1992:248256, syntype, USNM 42652, 1 slide, host: *Dollini martini* (mollusk), Vancouver Island, Canada.

Aggregata millerorum Poynton, Reimscheussel and Stoskopf, 1992:248–256, syntype, USNM 42651, 1 slide, host: *Octopus bimaculoides* (mollusk), Los Angeles Harbor, California.

Family EIMERIIDAE

Eimeria butkai Causey, Costa and Causey, 1951:221–235, holotype, USNM 23508, 3 slides, host: *Homo sapiens* (human), California.

Eimeria korros van Peenen, Ryan and McIntyre, 1967:1148–1150, syntype, USNM 23976, 2 slides, host: *Ptyas korros* (reptile), Quang Nam Province, Republic of Vietnam.

Eimeria modesta van Peenen, Ryan and McIntyre, 1967:1148–1150, holotype, USNM 23974, 1 slide; paratype, USNM

23975, 2 slides, host: *Tupaia glis* (rodent), Quang Nam Province, Republic of Vietnam.

Eimeria noctisauris Bovee and Telford, 1965:325–330, syntype, USNM 23735, 2 slides, host: *Klauberina riversiana keticulata* (reptile), off San Clemente Island, California.

Eimeria scoloporis Telford, 1966:237–250, syntype, USNM 23736, 1 slide, host: *Scoloporus clarki ulangeri* (reptile), near Sinaloa, Mexico.

Family CRYPTOSPORIDIIDAE

Cryptosporina brachyfila Hazard and Oldacre, 1975:104pp, holotype, USNM 24889, 1 slide; paratype, USNM 24390, 1 slide, *Piona* sp. (Hydrachnoidea-water mite), Gainesville, Florida.

Suborder HAEMOSPORINA

Family PLASMODIIDAE

Plasmodium vastator Laird, 1960:246–247, syntype, USNM 23674, 1 slide, host: *Draco volans* (reptile), Selangor, Malaya, Indonesia.

Phylum MICROSPORA

Class MICROSPORIDIDEA

Family LIPOTROPHIDAE

Burnella dimorpha Jouvenaz and Hazard, 1978:28, holotype, USNM 24511, 1 slide; paratype, USNM 24512, 4 slides, host: *Solenopsis geminata* (insecta), Gainesville, Florida.

Order PLEISTOPHORIDA

Family TUZETIIDAE

Tuzetia boeckella Milner and Mayer, 1982:174–184, holotype, USNM 33677, 1 slide; paratypes, USNM 33678 and 33679, 1 slide each, host: *Boeckella triarticulata* (crustacean), Canberra, New South Wales, Australia.

Tuzetia skuldae Larsson, 1983b:337, holotype, USNM 33264, 1 slide, host: *Ilybius fenestratus* (insecta), Vikhog, Scania, Sweden.

Tuzetia urdae Larsson, 1983b:337–338, holotype, USNM 33265, 1 slide; paratype, USNM 33266, 1 slide, host: *Baetis* sp. (insecta), Dalby, Scania, Sweden.

Tuzetia verdandiae Larsson, 1983b:338–340, holotype, USNM 33267, 1 slide; paratype, USNM 33268, 1 slide, host: *Coenagrion pulchellum* (insecta), Gardstanga, Scania, Sweden.

Alfvenia nuda Larsson, 1983b:340–344, holotype, USNM 33269, 1 slide, host: *Acanthocyclops vernalis* (crustacean), Saxtorp, Sweden.

Family GLUGEIDAE

Glugea heraldi Blasiola, 1979:493–500, syntype, USNM 24548, 1 slide, host: *Hippocampus erectus* (bony fish), Florida.

Glugea weissenbergi Sprague and Vernick, 1968:557–558,

- syntype, USNM 33654, 3 slides, host: *Apeltes quadracus* (bony fish), Solomon's Island, Maryland.
- Pleistophora lintoni* Streett and Sprague, 1974:153-156, syntype, USNM 33634, 1 slide, host: *Palaeomonetes pugio* (crustacean), Sapelo Island, Georgia.
- Pleistophora milesi* Pillai, 1974:234-237, USNM 24428, 1 slide, host: *Maorigoeldia argyropus* (insecta), Auckland, New Zealand.
- Pleistophora oncooperae* Milner and Beaton, 1978:133-140, holotype, USNM 24513, 1 slide; paratype, USNM 24514, 4 slides, host: *Oncopera alboguttata* (insecta), New South Wales, Australia.
- Janacekia adipophila* Larsson, 1992:432-440, holotype, USNM 43013, 1 slide; paratype, USNM 43104, 1 slide, host: *Ptychoptera paludosa* (insecta), Scania, Sweden.
- Janacekia undinarum* Larsson, 1983b:346-348, holotype, USNM 33270, 1 slide; paratype, USNM 33271, 1 slide, host: *Odagmia ornata* (insecta), Lund, Hojea, Sweden.
- Loma morhua* Morrison and Sprague, 1981:15-32, syntype, USNM 24556, 1 slide; syntype, USNM 24557, 1 slide, host: *Gadas morhua* (bony fish), Nova Scotia, Canada.
- Family TELOMYXIDAE
- Berwaldia singularis* Larsson, 1981a:325-342, holotype, USNM 31779, 1 slide, host: *Daphnia pulex* (Crustacean), Sweden.
- INCERTAE SEDIS
- Microsporidium lotaensis* Kettle and Piper, 1988:236-238, USNM 41480, holotype 1 slide; paratype, USNM 1 slide, host: *Aedes vigilax* (insecta), Queensland, Australia.
- Microsporidium rhabdophilia* Modin, 1981:203-211, holotype, USNM 30071, 1 slide; paratype, USNM 30072, 3 slides, host: *Oncorhynchus tshawytscha* (bony fish), Arcata, California.
- Family DUBOSCQUIIDAE
- Duboscqia aediphaga* Kettle and Piper, 1988:231-233, holotype, USNM 41478, 1 slide; paratype, USNM 41479, 1 slide, host: *Aedes vigilax* (insecta), Queensland.
- Duboscqia culicidia* Batson, holotype, USNM 38662, 1 slide; paratype, USNM 38663, 1 slide, host: *Aedes vigilax* (insecta), New Caledonia. Reference was not found by author.
- Family THELOHANIIDAE
- Chapmanium cirritus* Hazard and Oldacre, 1975: 104pp, holotype, USNM 24387, 1 slide; paratype, USNM 24388, 1 slide, host: *Corethrella brakeleyi* (insecta), Lake Charles, Louisiana.
- Chapmanium dispersus* Larsson, 1984:547-563, holotype, USNM 30425, 1 slide; paratype, USNM 30426, 1 slide, host: *Endochironomus* sp. (insecta), Scania, Sweden.
- Cylindrospora fasciculata* Larsson, 1986a:381-387, holotype, USNM 40685, 1 slide; paratype, USNM 40686, 1 slide, host: *Macropelopia* sp. (insecta), Klingavalsan, Sweden.
- Helmichia aggregata* Larsson, 1982a:355-370, holotype, USNM 31203, 1 slide; paratype, USNM 31204, 1 slide, host: *Endochironomus* sp. (insecta), Fruaid, Sweden.
- Indosporus spraguei* Weidner and Overstreet, 1974:169-186, syntype, USNM 24373, 2 slides, host: *Paleomonetes pugio* (crustacean), Ocean Springs, Mississippi.
- Napamichum aequifilum* Larsson, 1990a:152-161, holotype, USNM 42283, 1 slide; paratype, USNM 42284, 1 slide, host: *Limnochares aquatica* (Hydrachnoidea), Gardstanga, Sweden.
- Nudispora biformis* Larsson, 1990b:310-318, syntypes, USNM 42483-42484, host: *Coenagrion hastulatum* (insecta), Bokeberg, Sweden.
- Pegmatheca lamellata* Larsson, 1987:304-320, holotype, USNM 40687, 1 slide; paratype, USNM 40688, 1 slide, host: *Limnephilus* sp. (insecta), Helge River, Sweden.
- Pegmatheca simulae* Hazard and Oldacre, 1975:104pp, holotype, USNM 24402, 1 slide; paratype, USNM 24403, 1 slide, host: *Simulae tuberosum* (insecta), Hatchet Creek, Florida.
- Pilosporella chapmani* Hazard and Oldacre, 1975:104pp, holotype, USNM 24399, 1 slide, host: *Aedes triseriatus* (insecta), Lake Charles, Louisiana.
- Pilosporella fishi* Hazard and Oldacre, 1975:104pp, holotype, USNM 24400, 1 slide; paratype, USNM 24401, 1 slide, host: *Wyeomyia vanduzeei* (insecta), Vero Beach, Florida.
- Resiomeria odonatae* Larsson, 1986a:387-392, holotype, USNM 40683, 1 slide; paratype, USNM 40684, 1 slide, host: *Aeshna grandis* (insecta), Sweden.
- Tardivesicula duplicata* Larsson and Bylen, 1992:25-36, holotype, USNM 43076, 1 slide; paratypes, USNM 43077 and 43078, 1 slide each, host: *Limnephilus centralis* (insecta), Scania, Sweden.
- Thelohania butleri* Johnston, Vernick and Sprague, 1978:278-290, syntypes, USNM 24529 and 24530, 1 slide each; syntype, USNM 33660, 2 slides, host: *Pandalus jordani* (crustacean), British Columbia, Canada.
- Thelohania cambari* Sprague, 1950a:46, syntype, USNM 33636, 1 slide, host: *Cambarus bartoni fabricius* (crustacean), Georgia.
- Thelohania capillata* Larsson, 1983d:21-46, holotype, USNM 33260, 1 slide; paratype, USNM 33261, 1 slide, host: *Odagmia ornata* (insecta), Lund, Hojea, Sweden.
- Thelohania penaei* Sprague, 1950b:4, syntype, USNM 33639, 3 slides, host: *Penaeus setiferus* (crustacean), Grand Isle, Louisiana.
- Thelohania petrolisthis* Sprague, 1950b:1-8, syntype, USNM 33640, 5 slides, host: *Petrolisthes armatus* (crustacean), Barataria Bay, Louisiana.
- Thelohania reniformis* Kudo and Hetherington, 1922:129, syntype, USNM 33641, 3 slides, host: *Protopirura muris* (nematode), Illinois.

- Toxoglugea variabilis* Larsson, 1980a:17–32, holotype and paratype, USNM 30476, 2 slides, host: *Bezzia* sp. (insecta), Sweden.
- Systemostrema alba* Larsson, 1988:8–11, holotype, USNM 40679, 1 slide; paratype, USNM 40680, 1 slide, host: *Aeshna grandis* (insecta), Sjodiken, Sweden.
- Systemostrema candida* Larsson, 1988:11–13, holotype, USNM 40681, 1 slide; paratype, USNM 40682, 1 slide, host: *Libellula quadrimaculata* (insecta), Sandby Mosse, Sweden
- Systemostrema tabanae* Hazard and Oldacre, 1975:104pp, holotype, USNM 24404, 1 slide; paratype, USNM 24405, 1 slide, host: *Tabanus lineola* (insecta), Orange Lake, Florida.

Family AMBLYOSPORIDAE

- Amblyospora amphipodae* Hazard and Oldacre, 1975:104pp, holotype, USNM 24377, 1 slide; paratype, USNM 24378, 1 slide, host: *Crangonyx richmondensis* (crustacean), Trenton, Florida.
- Amblyospora callosa* Hazard and Oldacre, 1975:104, holotype, USNM 24379, 1 slide; paratype, USNM 24380, 1 slide, host *Rhyacophila fuscula* (insecta), Belchertown, Massachusetts.
- Amblyospora dyxenoides* Sweeney and Graham, 1988:53, syntypes, USNM 40226–40231, 1 slide each, host: *Culex annulirostris* (insecta), Mildura, Victoria, Australia.
- Amblyospora keenani* Hazard and Oldacre, 1975:104pp, holotype, USNM 24381, 1 slide; paratype, USNM 24382, 1 slide, host: *Aedeomyia squamipennis* (insecta), Panama.
- Amblyospora khaliulina* Hazard and Oldacre, 1975:104pp, holotype, USNM 24383, 1 slide; paratype, USNM 24384, 1 slide, host: *Aedes communis* (insecta), South Deerfield, Massachusetts.
- Amblyospora mojingensis* Hazard and Oldacre, 1975:104pp, holotype, USNM 24385, 1 slide; paratype, USNM 24386, 1 slide, host: *Anopheles eiseni* (insecta), Mojinga, Panama.
- Amblyospora pinensis* Kettle and Piper, 1988:233–236, holotype, USNM 41476, 1 slide; paratype, USNM 41477, 1 slide, host: *Culex sitiens* (insecta), Queensland, Australia.
- Amblyospora undulata* Larsson, 1982b:511–523, holotype, USNM 31929, 1 slide; paratype, USNM 31930, 1 slide, host: *Cyrnus trimaculatus* (insecta), Gardstanga, Sweden.
- Hyalinocysta chapmani* Hazard and Oldacre, 1975:104pp, holotype, USNM 24391, 1 slide; paratype, USNM 24392, 1 slide, host: *Culiseta melanura* (insecta), Kinder, Louisiana.
- Hyalinocysta expilatoria* Larsson, 1983c:348–356, holotype, USNM 33279, 1 slide, host: *Odagmia ornata* (insecta), Klingavalsan, Sweden.
- Parathelohania africana* Hazard and Oldacre, 1975:104pp, holotype, USNM 24393, 1 slide; paratype, USNM 24394, 1 slide, host: *Anopheles pretoriensis* (insecta), Kaduna, Nigeria.
- Parathelohania chagrasensis* Hazard and Oldacre, 1975:104pp, holotype, USNM 24395, 1 slide; paratype, USNM 24396, 1 slide, host: *Aedeomyia squamipennis* (insecta), Chagras River, Panama.
- Parathelohania octolagenella* Hazard and Oldacre, 1975:104pp, holotype, USNM 24397, 1 slide; paratype, USNM 24398, 1 slide, host: *Anopheles pretoriensis* (insecta), Kaduna, Nigeria.

Family ABELSPORIDAE

- Abelspora portucalensis* Azevedo, 1987:83–92, holotype, USNM 38722, 2 slides, host: *Carcinus maenas* (crustacean), Portugal.

Family GURLEYIDAE

- Episeptum inversum* Larsson, 1986b:257–279, holotype and paratype, USNM 34461, 1 slide; paratype, USNM 34462, 1 slide, host: *Holocentropus picicornis* (insecta), vikhong, Sweden.

Order NOSEMATIDIDA

Family NOSEMATIDAE

- Nosema aedis* Kudo, 1930:23–38, syntype, USNM 33642, 8 slides, host: *Aedes aegypti* (insecta), Puerto Rico.
- Nosema baetis* Kudo, 1921:171–176, syntype, USNM 33643, 1 slide, host: *Baetis* sp. (insecta), Urbana, Illinois.
- Nosema campoletidis* Brooks, 1972:77–94, holotype, USNM 24164, 1 slide; paratypes, USNM 24165 and 24166, 1 slide each, host: *Campoletis sonorensis* (insecta), Clayton, North Carolina.
- Nosema cardiochilis* Brooks, 1972:77–94, holotype, USNM 24167, 1 slide; paratypes, USNM 24168–24172, 1 slide each, host: *Cardiochiles nigriceps* (insecta), Clayton, North Carolina.
- Nosema connori* Sprague, 1974:400–403, syntype, USNM 33644, 2 slides, host: *Homo sapiens* (human), U.S.
- Nosema cyclopsis* Kudo, 1921:137–143, syntype, USNM 33645, 4 slides, host: *Cyclops fuscus* (crustacean), Spring Valley, New York.
- Nosema dollfusi* Sprague, 1964:381–385, syntype, USNM 33646, 1 slide, host: *Bucephalus cuculus* (trematode), Chesapeake Bay, Maryland.
- Nosema juli* Wilson, 1971:1279, syntypes, USNM 24279–24282, 1 slide each, host: *Diploiuulus longineusis caeruleocin*, Ithaca, New York.
- Nosema loxagrotidis* Helms and Wedberg, 1976:383–384, holotype, USNM 24491, 20 slides, host: *Loxagrotis albicosta* (insecta), Benkelman, Nebraska.
- Nosema michaelis* Sprague, 1970:422, syntype, USNM 33648, 2 slides, host: *Callinectes sapidus* (crustacean), Solomons Island, Maryland.
- Nosema nelsoni* Sprague, 1950b:1–8, syntype, UNM 33647, 3 slides, host: *Penaes aztecus* (crustacean), Louisiana.

- Nosema notabilis* Kudo, 1941:133, syntype, USNM 33649, 10 slides, host: *Spaerospora polymorpha*, Solomons Island, Maryland.
- Nosema rivulogammari* Larsson, 1983a:307, holotype, USNM 33262, 1 slide; paratype, USNM 33263, 1 slide, host: *Rivulogammarus pulex* (crustacean), Klingavalsan, Sweden.
- Nosema termitis* Kudo, 1943:265–276, syntype, USNM 33650, 7 slides, host: *Reteculitermes flavipes* (insecta), Urbana, Illinois.
- Nosema tractabile* Larsson, 1981b:407–422, holotype, USNM 31892, 1 slide; paratype, USNM 31893, 1 slide, host: *Helobdella stagnalis* (annelid), Sweden.
- Nosema transitellae* Kellan, Hoffman and Collier, 1978:289–296, holotype, USNM 24516, 1 slide; paratype, USNM 24517, 3 slides, host: *Parameyelots transitella* (insecta), Fresno, California.
- Plistophora cargo* Sprague, 1966:196–199, syntype, USNM 33632, 4 slides, host: *Callinectes sapidus* (crustacean), Solomons Island, Maryland.
- Plistophora kudo* Sprague and Ramsey, 1941:132–133, syntype, USNM 33633, 5 slides, host: *Blatta orientalis* (insecta), U.S.

Family FORMICIDAE

- Vairimorpha invictae* Jouvenaz and Ellis, 1986, paratypes, USNM 34480, 2 slides, host: *Solenopsis invicta* (insecta), Cuiaba, Brazil.

Order MINISPORIDA

Family BUXTEHUDEIDAE

- Buxtehudea scaniae* Larsson, 1980b:85–101, holotype and paratype, USNM 30477, 1 slide, host: *Petrobius brevistylus* (insecta), Sweden.

Family BACILLIDIIDAE

- Bacillidium filiferum* Larsson, 1989a:345–355, holotype, USNM 42286, 1 slide; paratypes, USNM 42285 and 42287, 1 slide each, host: *Pelosclex ferox* (annelid), Vikhog, Sweden.
- Jirovecia involuta* Larsson, 1989b:172–181, holotype, USNM 42289, 1 slide; paratype, USNM 42288, 1 slide, host: *Limnodrilus hoffmeisteri* (annelid), Esarp, Scania, Sweden.
- Rectispora reticulata* Larsson, 1990c:55–64, holotype, USNM 42485, 1 slide; paratype, USNM 42486, host: *Pomatothrix hammoniensis* (annelid), Esarp, Sweden.

Family CHYTRIDIOPSISIDAE

- Nolleria pulicis* Beard, Butler and Becnel, 1990:90–99, syntype, USNM 41851, host: *Ctenocephalides felis* (insecta), Gainesville.

Phylum HAPLOSPORA

Class HAPLOSPOREA

Order HAPLOSPORIDA

Family HAPLOSPORIDAE

- Haplosporidium comatulae* La Haye, Holland and McLean, 1985:514, holotype, USNM 33080, 1 slide, host: *Oligometra serripinna* (echinoderm), Lizard Island, Queensland, Australia.
- Minchinia armoricana* Van Banning, 1978:199–206, paratype USNM 24515, 8 slides, host: *Ostrea edulis* (mollusk), Zeeland, Netherlands.
- Minchinia louisiana* Sprague, 1963:267–274, syntype, USNM 33656, 2 slides, host: *Panopeus herbstii* (crustacean), Grand Isle, Louisiana.

Phylum MYXOZOA

Class MYXOSPOREA

Order BIVALVULIDA

Suborder VARIISPORINA

Family MYXIDIIDAE

- Myxidium iwamotoi* Moser, Noble, and Lee, 1976:685, syntype, USNM 24434, 1 slide, host: *Coryphaenoides caradinus* (bony fish), Delaware.
- Myxidium macrourium* Moser, Noble and Lee, 1976:688, syntype, USNM 24433, 2 slides, host: *Bathygadus melanobranchus* (bony fish), French Guiana.
- Myxidium mindanaoensis* Hine, 1980:264, syntype, USNM 30057, 7 slides, host: *Anguilla bicolor pacifica* (bony fish), Mindanao Island, Philippines.
- Myxidium pearcyi* Moser, Noble and Lee, 1976:688, syntype, USNM 24435, 3 slides, host: *Coelorinchus macrohir* (bony fish), Japan.
- Zschokkella embiotociddis* Moser and Haldorson, 1976:1403–1405, syntype, USNM 24445, 3 slides, host: *Damalichthys vacca* (bony fish), California.
- Zschokkella kudo* Moser and Noble, 1977d:97, syntype, USNM 24443, 3 slides, host: *Macrourus berglax* (bony fish), Newfoundland, Canada.
- Zschokkella heronensis* Moser, Kent and Dennis, 1989:5, syntype, USNM 39319, 1 slide, host: *Choerodon venustus* (bony fish), Heron Island, Queensland, Australia.
- Zschokkella meglitschi* Moser and Noble, 1977d:100, syntype, USNM 24442, 6 slides, host: *Colorinchus chilensis* (bony fish), Chile.
- Zschokkella microcapsula* Moser and Noble, 1977d:100, syntype, USNM 24441, 3 slides, host: *Colorinchus velifer* (bony fish), South China Sea.

Family SPHAEROMYXIDAE

- Sphaeromyxa intermediata* Moser and Noble, 1977b:96, syntype, USNM 24440, 3 slides, host: *Malacocephalus occidentalis* (bony fish), Colombia.
- Sphaeromyxa lomi* Moser and Noble, 1977b:95, syntype,

USNM 24439, 3 slides, host: *Malacocephalus occidentalis* (bony fish), Borneo, Indonesia. Journal incorrectly lists catalog number as 24437.

Family SINUOLINEIDAE

Davisia anoplopoma Moser and Noble, 1977a:691, syntype, USNM 24408, 1 slide, host: *Anoplopoma fimbria* (annelid), California.

Davisia pectoralis Moser and Noble, 1977a:693, syntype, USNM 24407, 1 slide, host: *Coryphaenoides pectoralis* (bony fish), California.

Davisia reginae Love and Moser, 1976:982, syntype, USNM 24444, 4 slides, host: *Sebastes serranoides* (bony fish), California.

Myxoproteus minutus Moser and Noble, 1977c:253, syntype, USNM 24438, 1 slide, host: *Coelorinchus occa* (bony fish), Lesser Antilles.

Myxoproteus rosenblatti Moser and Noble, 1977c:253, syntype, USNM 24437, 2 slides, host: *Coryphaenoides accrolepis* (bony fish), Oregon.

Family CERTAOMYXIDAE

Chloromyxum kabatai Moser and Noble, 1977e:162, syntype, USNM 24454, 1 slide, host: *Coryphaenoides acrolepis* (bony fish), Oregon.

Chloromyxum noblei Moser, Kent and Dennis, 1989:11–12, syntype, USNM 39311, 1 slide, host: *Hemisicyllium ocellatum* (bony fish), Heron Island, Queensland, Australia.

Family COMYXIDAE

Ceratomyxa anoplopoma Moser and Noble, 1976:1535–1537, syntype, USNM 24430, 1 slide, host: *Anoplopoma fimbria* (annelid), California.

Ceratomyxa asymmetrica Moser and Noble, 1976a:1535–1537, syntype, USNM 24429, 2 slides, host: *Coryphaenoides cinereus* (bony fish), Alaska.

Ceratomyxa coryphaenoida Moser and Noble, 1976a:1535–1537, syntype, USNM 24431, 2 slides, host: *Coryphaenoides cinereus* (bony fish), British Columbia, Canada.

Ceratomyxa rohdei Moser, Kent and Dennis, 1989:9–10, syntype, USNM 39318, host: *Scorpaenopsis gibbosus* (bony fish), Heron Island, Queensland, Australia.

Ceratomyxa sebasta Moser, Love and Jenson, 1976:691, syntype, USNM 24446, 1 slide, host: *Sebastes serranoides* (bony fish), California.

Ceratomyxa sprentii Moser, Kent and Dennis, 1989:8–9, syntype, USNM 39312, 1 slide, host: *Platycephalis bosschei* (bony fish), Heron Island, Queensland, Australia.

Leptothecca armature Yoshino and Moser, 1974:655–659, syntype, USNM 24370; syntype, USNM 24371, host: *Coryphaenoides pectoralis* (bony fish), California.

Leptothecca beveridgei Moser, Kent and Dennis, 1989:7–8, syntype, USNM 39314, 1 slide, host: *Scorpaenopsis gib-*

bosus (bony fish), Heron Island, Queensland, Australia.

Leptothecca minuta Moser and Noble, 1976b:490, syntype, USNM 24432, 1 slide, host: *Coelorinchus occa* (bony fish), Lesser Antilles.

Leptothecca sebasta Moser, Love and Jenson, 1976:690, syntype, USNM 24447, 3 slides, host: *Sebastes serranoides* (bony fish), California.

Suborder PLATYSPORINA

Family MYXOBOLIDAE

Henneguya lagodon Hall and Iversen, 1967:274–279, holotype, USNM 23757, 1 wet lot, Buttonwood Canal, Everglades National Park, Florida.

Henneguya ocellata Iversen and Yokel, 1963:449–453, syntype, USNM 23696, 1 wet lot, host: *Sciaenops ocellatus* (bony fish), Everglades, National Park, Florida.

Henneguya sebasta Moser and Love, 1975:481, syntype, USNM 24406, 2 slides, host: *Sebastes serranoides* (bony fish), California.

Henneguya texana Joy, holotype, USNM 24121, 1 slide, host: *Pagonias cromis*, Clear Lake, Texas. Reference was not found by author.

Myxobolus abyssus Yoshino and Moser, 1974:655–659, syntype, USNM 24368; syntype, USNM 24369, host: *Corphaenoides abyssorum* (bony fish), California.

Myxobolus cephalis Iversen, Chitty, and Van Meter, 1971:82–84, syntype, USNM 24109, 1 wet lot, host: *Mugil cephalus* (bony fish), Bottonwood Canal, Florida.

Myxobolus dechtiari Cone and Anderson, 1977:661, syntype, USNM 24493, 2 slides, host: *Lepomis gibbosus* (bony fish), Ryan Lake, Ontario.

Myxobolus lairdi Moser and Noble, 1977b:92, syntype, USNM 24436, 2 slides, host: *Coryphaenoides rupestris* (bony fish), Norway.

Myxobolus magnaspherus Cone and Anderson, 1977:661, syntype, USNM 24494, 2 slides, host: *Lepomis gibbosus* (bony fish), Ryan Lake, Ontario.

Myxobolus uvuliferis Cone and Anderson, 1977:660, syntype, USNM 24492, 2 slides, host: *Lepomis gibbosus* (bony fish), Ryan Lake, Ontario.

Order MULTIVALVULIDA

Family KUDONIDAE

Kudoa branchiata Joy, 1962:264–265, holotype, USNM 24122, 1 slide, host: *Leiostomus xanthurus*, Clear Lake, Texas.

Kudoa crumena Iversen and Van Meter, 1967:268–273, holotype, USNM 23748, 1 wet lot, host: *Scomberomorus maculatus* (bony fish), Biscayne Bay, Florida.

Kudoa sp. Bunton and Poynton, 1991:589–594, syntype, USNM 42650, 1 slide, *Morone american* (bony fish), Chesapeake Bay, Maryland.

Family TRILOSPORIDAE

Unicapsula seriolae Lester, 1982:584–587, holotype, USNM 30367, 1 slide; paratypes, USNM 30368 and 30369, 1 slide each, host: *Seriola lalandi* (bony fish), Queensland, Australia.

Family PENTACAPSULIDAE

Pentacapsula muscularis Cheung, Nigrelli, and Ruggieri, 1983:393–395, syntypes, USNM 31426, 2 slides, host: *Chaetodon collare* (bony fish), Philippines.

Class PARAMYXEA

Marteilioides branchialis Anderson and Lester, 1992:502–508, syntype, USNM 42686, 1 slide, host: *Saccostrea commercialis* (mollusk), Sydney, Australia.

Phylum CILIOPHORA

Subphylum POSTCILIODESMATOPHORA

Class KARYORELICTEA

Order PROTOSTOMATIDA

Family TRACHELOCERCIDAE

Tracheloraphis angustivittatus Borror, 1973:554–558, holotype, USNM 24184, 1 slide; paratype, USNM 24185, 1 slide, Rye, New Hampshire.

Class SPIROTRICHEA

Subclass HETEROTRICHIA

Order HETEROTRICHIDA

Family BLEPHARISMIDAE

Blepharisma giesei Hirshfield, Isquith and Bhandary, 1965:142, holotype, USNM 24253, 1 slide; paratype, USNM 24254, 1 slide, Norwich, Connecticut.

Blepharisma intermedium Bhandary, 1962:437, lectotype, USNM 24255, 1 slide; paralectotype, USNM 24256, 1 slide, Bangalore, India.

Blepharisma melana Borror, 1963:502, holotype, USNM 24257, 1 slide; paratype, USNM 24258, 1 slide, Alligator Harbor, Florida.

Blepharisma seculum Isquith, Repak and Hirshfield, 1965:615–618, holotype, USNM 24259, 1 slide; paratype, USNM 24327, 1 slide, Parkville, Maryland.

Blepharisma seshachari Bhandary, 1962:436–437, lectotype, USNM 24260, 1 slide; paralectotypes, USNM 24261 and 24262, 1 slide each, Bangalore, India.

Blepharisma trinodatum Hirshfield, Isquith and Bhandary, 1965:141, holotype, USNM 24263, 1 slide; paratypes, USNM 24264, 24265 and 24325, 1 slide each, Quincy, Massachusetts.

Blepharisma tropicum Hirshfield, Isquith and Bhandary, 1965:142, lectotype, USNM 24266, 1 slide; paralectotypes, USNM 24267 and 24326, 1 slide each, New Delhi, India.

Blepharisma wardsi Hirshfield, Isquith and Bhandary,

1965:141, holotype, USNM 24268, 1 slide; paratypes, USNM 24269 and 24270, 1 slide each, near Rochester, New York.

Family NYCTOTHERIDAE

Gullmarella faurei Fenchel, 1964c:311–318, holotype, USNM 24175, 1 slide; paratypes, USNM 24176 and 24177, 1 slide each, host: *Syndosmya nibda*, Sweden.

Paracichlidotherus leeuwenhoekii Grim, 1992:153–156, holotype, USNM 42838, 1 slide, host: *Zebrasonia scopas* (bony fish), Lizard Island, Australia.

Vestibulongum corlissi Grim, 1988:227–230, holotype, USNM 40171, 1 slide, host: *Acanthurus xanthopterus* (bony fish), Durban, Natal, South Africa.

Subclass CHOREOTRICHIA

Order CHOREOTRICHIA

Family DICTYOCYSTIDAE

Dictyocysta seshaiyai Krishnamurthy and Santhanam, 1975:181, paratype, USNM 24411, 1 slide, Tamil Nadu, India.

Order OLIGOTRICHIDA

Family STROMBIDIIDAE

Laboea strobila (Lohmann, 1908) Montagnes, 1988:265, neotype, USNM 39705, 1 slide, Woods Hole, Massachusetts.

Strombidium acutum (Leegard, 1915) Montagnes, 1988:265, neotype, USNM 39704, 1 slide, Perch Pond, Massachusetts.

Strombidium capitatum (Leegard, 1915) Montagnes, Stoeker, and Small, 1988:191, neotype, USNM 39701, 1 slide, Perch Pond, Massachusetts.

Strombidium chlorophilum Montagnes, Lynn, Stoeker, and Small, 1988:193, holotype, USNM 39703, 1 slide, Salt Pond, Massachusetts.

Strombidium conicum (Lohman, 1908) Montagnes, 1988:191, neotype, USNM 39702, 1 slide, Long Island, New York.

Strombidium inclinatum Montagnes, Taylor and Lynn, 1990:318–323, syntype, USNM 42120, 1 slide, Limfjorden, Denmark.

Subclass STICHOTRICHIA

Order STICHOTRICHIDA

Suborder SPORADOTRICHINA

Family OXYTRICHIDAE

Oxytricha stenocephala Borror, 1963:465–534, holotype, USNM 24276, 1 slide, Alligator Harbor, Florida.

Suborder STICHOTRICHINA

Family UROSTYLIDAE

Paraholosticha polychaeta Borror, 1966:418–421, holotype, USNM 24277, 1 slide, Rye, Odiornes Point, New Hampshire.

Class LITOSTOMATEA
 Subclass HAPTORIA
 Order HAPTORIDA

Lepidotrachelophyllum fornicis Nicholls and Lynn 1984:413–419, USNM 31205, 1 slide, White Lake, Ontario, Canada.

Order PLEUROSOMATIDA
 Family AMPHILEPTIDAE

Hemiophrys baltica Fenchel, 1965b:281–303, holotype, USNM 24178, 1 slide; paratype, USNM 24179, 1 slide, host: *Gammurus duebeni* (crustacean), Asko, Sweden.

Loxophyllum chaetonotum Borror, 1965a:550–565, holotype, USNM 24180, 1 slide, Odiornes Point, New Hampshire.

Subclass TRICHOSTOMATIA
 Order VESTIBULIFERA

Family BALANTIDIIDAE

Balantidium acanthuri Grim, 1989:157–160, holotype, USNM 41215, 1 slide, host: *Acanthurus xanthopterus* (bony fish), Natal, Durban, South Africa.

Balantidium bacteriophorus Fenchel, 1980:23, syntype USNM 24545, 2 slides, host: *Chelonia mydas* (reptile), Nicaragua.

Balantidium prionurium Grim, 1985:587–588, holotype, USNM 33562, 1 slide, host: *Prionurus punctatus* (bony fish), Baja, California.

Balantidium zebrascopi Grim, 1992:150–152, holotype, USNM 42837, 1 slide, host: *Zebrasonia scopas* (bony fish), Lizard Island, Australia.

Subphylum CYRTOPHORA

Class PHYLLOPHARYNGEA
 Subclass PHYLLOPHARYNGIA
 Order CYRTOPHORIDA
 Suborder HYPOCOMATINA
 Family HYPOCOMA

Parahypocoma rhamphisokarya Burreson, 1973:517–522, holotype, USNM 24322, 1 slide; paratype, USNM 24323, 1 slide, host: *Pyura haustor* (tunicate), Friday Harbor, Washington.

Order RHYNCHODIDA
 Suborder ANCISTROCOMINA
 Family ANCISTROCOMIDAE

Ancistrocoma dissimilis Kozloff, 1946d:195–197, lectotype, USNM 24156, 1 slide; paralectotype, USNM 24157, 1 slide, host: *Pholadidea penita* (mollusk), Moss Beach, California.

Ancistrocoma thorsoni Fenchel, 1965a:114–115, holotype, USNM 24192, 1 slide, host: *Abra nitida* (mollusk), Gullmarfjord, Sweden.

Colligocineta affinis Kozloff, 1976:623, holotype, USNM 24448, 1 slide; paratype, USNM 24449, 1 slide, host: *Sabella pavonina* (annelid), Devon, England.

Colligocineta finleyi Kozloff, 1976:625, holotype, USNM

24450, 1 slide; paratype, USNM 24451, 1 slide, host: *Sabella pavonin* (annelid), Devon, England.

Colligocineta furax Kozloff, 1965a:333–334, lectotype, USNM 24145, 1 slide; paralectotypes, USNM 24146 and 24147, 1 slide each, host: *Laonome kroyeri*, Orcas Island, Massacre Bay, Washington.

Colligocineta scololepidis Kozloff, 1976:626, holotype, USNM 24452, 1 slide; paratype, USNM 24453, 1 slide, host: *Scolecoclepis fuliginosa* (annelid), Finistere, France.

Hypocomagalma pholadidis Kozloff, 1946d:197–199, lectotype, USNM 24158, 1 slide; paralectotype, USNM 24159, 1 slide, host: *Pholadidea penita* (mollusk), Moss Beach, California.

Hypocomella (Heterocineta) fluminocolae Kozloff, 1946c:204–207, lectotype, USNM 24162, 1 slide; paralectotype, USNM 24163, 1 slide, host: *Fluminicola virens* (mollusk), Portland, Oregon.

Hypocomella (Heterocineta) goniobasidis Kozloff, 1946:202–204, lectotype, USNM 24160, 1 slide; paralectotype, USNM 24161, 1 slide, host: *Goniobasis plicifera silicula* (mollusk), Portland, Oregon.

Hypocomella katharinae Kozloff, 1961:60–63, lectotype, USNM 24140, 1 slide; paralectotype, USNM 24141, 1 slide, host: *Katherina tunicata* (mollusk), Cape Arago, Oregon.

Hypocomella (Heterocineta) phoronopsidis Kozloff, 1945b:180–183, lectotype, USNM 24129, 1 slide; paralectotype, USNM 24130, 1 slide, host: *Phoronopsis vividis* (annelid), Tamales Bay, California.

Hypocomides astartae Fenchel, 1965:122–123, holotype, USNM 24213, 1 slide; paratype, USNM 24214, 1 slide, host: *Astarte montaugi* (mollusk), Gullmarfjord, Sweden.

Hypocomides botulae Kozloff, 1946c:203–205, lectotype, USNM 24148, 1 slide; paralectotype, USNM 24149, 1 slide, host: *Botula californiensis* (mollusk), Moss Beach, California.

Hypocomides elsinoi Fenchel: 1965:121, holotype, USNM 24215, 1 slide, host: *Musculus niger* (mollusk), Helsinguor, Sweden.

Hypocomides kelliae Kozloff, 1946c:207–208, lectotype, USNM 24152, 1 slide; paralectotype, USNM 24153, 1 slide, host: *Kellia laperousii* (mollusk), Moss Beach, California.

Hypocomides parva Kozloff, 1946c:205–207, lectotype, USNM 24150, 1 slide; paralectotype, USNM 24151, 1 slide, host: *Botula californiensis* (mollusk), Moss Beach, California.

Hypocomina tegularum Kozloff, 1946:1–7, lectotype, USNM 24127, 1 slide; paralectotype, USNM 24128, 1 slide, host: *Tegula brunnea* (mollusk), Carmel Bay, California.

Ignotocoma sabellarum Kozloff, 1961:62–63, lectotype, USNM 24142, 1 slide; paralectotypes, USNM 24143 and 24144, 1 slide each, host: *Schizobranchia insignis* (annelid), Carlestone, Oregon.

Insignocoma venusta Kozloff, 1946:208–210, lectotype, USNM 24154, 1 slide; paralectotype, USNM 24155, 1 slide,

host: *Botula californiensis* (mollusk), Moss Beach, California.

Family SPHENOPHRYIDAE

Lwoffia cilifera Kozloff, 1955:283–289, lectotype, USNM 24131, 1 slide; paralectotype, USNM 24132, 1 slide, host: *Brachidontes recurvus* (annelid), Caloosahatchee River, Florida.

Subclass CHONOTRICHIA

Order CRYPTOGEMMIDA

Family ISOCHONIDAE

Trichochona lecythoides Mohr, 1948:1–21, syntype, USNM 22728, 1 slide, host: *Amphithoe* sp. (crustacean), Redondo Beach, Los Angeles, California.

INCERTAE SEDIS

Silenella ovoidea Fenchel, 1965b:281, holotype, USNM 24181, 1 slide; paratype, USNM 24182, 1 slide, host: *Gammarus duebeni* (crustacean), Asko, Sweden.

Subclass SUCTORIA

Order ENDOGENIDA

Family PHALACROCLEPTIDAE

Phalacroleptes verruciformis Kozloff, 1966:202–210, syntypes, USNM 23751–23753, 1 slide each, host: *Schizobranchia insignis* (annelid), San Juan Island, Mitchell Bay, Washington.

Order EXOGENIDA

Family RHABDOPHRYIDAE

Dendrosomides lucicutiae Bowman, 1977:695–702, holotype, USNM 24412, 1 wet lot, South Carolina; paratypes: USNM 24413, 24416, 24417, 24418, 24419, and 24424, 1 wet lot each, from Florida; USNM 24414, 24415, and 24423, 1 wet lot each, from North Carolina; USNM 24421, 24422, 24425, and 24426, 1 wet lot each, from South Carolina; USNM 24420, 1 wet lot, from Georgia and USNM 24427, 1 wet lot from the Madeira Islands, host: *Lucicutia gausssae* (insecta).

Family URNULIDAE

Paracineteta metridiae Sherman and Schaner, 1965:618–625, syntypes, USNM 23732, 1 slide and 23733, 1 wet lot, host: *Metridia lucens* (crustacean), Maine.

Class NASSOPHOREA

Subclass NASSOPHORIA

Order PENICULIDA

Suborder PARAMECIINA

Family PARAMECIIDAE

Paramecium sonneborni Aufderheide, Daggett and Nerad 1983:128–131, holotype, USNM 31926, 1 slide, Texas.

Subclass HYPOTRICHIA

Order EUPLOTIDA

Suborder EUPLOTINA

Family EUPLOTIDAE

Diophrys oligothrix Borror, 1965:559–561, holotype, USNM 24271, 1 slide, near Odiomes Point, New Hampshire.

Diophrys peloetes Borror, 1965b:63–64, holotype, USNM 24272, 1 slide, near Odiomes Point, New Hampshire.

Euplotes neapolitanus Wichterman, 1964:362–370, holotype, USNM 24273, 1 slide; paratypes, USNM 24274 and 24275, 1 slide each, Gulf of Naples, Italy.

Family URONCHIIDAE

Uronychia bivalvorum Fenchel, 1965a:71–174, holotype, USNM 24278, 1 slide, host: *Thyasira sarsi* (mollusk), Gullmarj, Sweden.

Class OLIGOHYMENOPHOREA

Subclass HYMENOSTOMATIA

Order HYMENOSTOMATIDA

Suborder TETRAHYMENINA

Family GLAUCOMIDAE

Epenardia myriophylli Penard, 1922:331pp, neotype, USNM 24208, 1 slide, Paris, France. Designated a neotype by Corliss, 1971a:354–356.

Glaucoma chattoni Corliss, 1959:1–24, syntype, USNM 24209 and 24210, 1 slide each, host: ciliates, France.

Glaucoma dragescui Corliss, 1971:350, lectotype, USNM 24211, 1 slide, paralectotype, USNM 24212, 1 slide, host: ciliates, France.

Glaucoma vorax Kidder, Lilly and Claff, 1940:9–23, neotype, USNM 24119, 1 slide, Paris France. Designated a neotype under the name *Tetrahymena vorax* by Corliss, 1971:249.

Family TETRAHYMENIDAE

Lambornella clarki (Keilin, 1921) Corliss, 1979:257, neotype, USNM 24490, 1 slide, host: *Aedes sierrensis* (insecta), Fresno County, California.

Lambornella stegomyiae (Keilin, 1921) Clamp, 1971:216–224, neotype, USNM 24117, 1 slide, host: *Stegomyia scutellaris* (insecta), Transvaal, South Africa. Designated a neotype by Corliss, 1971:248.

Tetrahymena chironomi Corliss, 1960a:111–153, lectotype, USNM 24113, 1 slide, host: *Chironomus plumosus* (insecta), Paris, France. Designated a lectotype by Corliss, 1971:246.

Tetrahymena corlissi Thompson, 1955:12, neotype, USNM 24116, 1 slide, host: *Bufo* larva (amphibian), Syracuse, New York. Designated a neotype by Corliss, 1971:247–248.

Tetrahymena dimorpha Batson, 1983b:345–363, paratypes, USNM 32216–32218, 1 slide each, host: *Simulium equinum* (insecta), Surrey, England.

Tetrahymena limacis (Warren, 1932:1–53), neotype, USNM

- 24115, 1 slide, host: *Deroceras reticulatum* (mollusk), Urbana, Illinois. Designated a neotype by Corliss, 1971:247. Transferred to this genus by Corliss, 1971:247.
- Tetrahymena paravorax* Corliss, 1957:13, lectotype, USNM 24120, 1 slide, host: fresh water organisms, Panama. Designated a lectotype by Corliss, 1971:249–250.
- Tetrahymena patula* (Ehrenberg, 1830:1–108), neotype, USNM 24118, 1 slide, host: *Colpidium campylum* (ciliate), France. Designated a neotype by Corliss, 1971:248–249. Transferred from the genus *Leucophrys* to the genus *Tetrahymena* by Corliss, 1951:11.
- Tetrahymena pyriformis* (Ehrenberg, 1930:1–108), neotype, USNM 24111, 1 slide, host: *Chironomia* (insecta), New York City, New York. Designated a neotype by Corliss, 1971:245. Transferred from the genus *Leucophrys* to the genus *Tetrahymena* by Corliss, 1953.
- Tetrahymena rostrata* (Kahl, 1926:197–438), neotype, USNM 24114, 1 slide, host: *Chironomia* (insecta), Paris, France. Designated a neotype by Corliss, 1971:246. Transferred from genus *Paraglaucoma* to genus *Tetrahymena* by Corliss, 1952:399–402.
- Tetrahymena rotunda* Lynn, Molloy, and LeBrun, 1981:134–141, holotype, USNM 31074, 1 slide, host: *Simulium tuberosum* (insecta), Payne Brook, New York.
- Tetrahymena setifera* Holz and Corliss, 1956:112–118, lectotype, USNM 24112, 1 slide, host: pond water organisms, Jamesville, New York. Designated a lectotype by Corliss, 1971:245.
- Tetrahymena sialidos* Batson, 1985, 1985:123–144, paratype, USNM 33143, 1 slide, host: *Sialis lutaria* (insecta), Wales.
- Hirsutusporos austrosimulii* Batson, 1983a:263–280, holotype, USNM 32394, 1 slide; paratype, USNM 32395, 1 slide, host: *Austrosimulium* sp. (insecta), New Zealand.

Suborder OPHRYOGLENINA

Family ICHTHYOPHTHIRIIDAE

- Ichthyosporidium* sp. Schwartz, 1963:181–186, syntype, USNM 33659, 1 slide, host: *Leiostomus xanthurus* (mollusk), Chincoteague Bay, Maryland

Family OPHRYOGLENIDAE

- Ophryoglena bacterocaryon* Savoie, holotype, USNM 24218, 1 slide; paratype, USNM 24219 and 24220, 1 slide each, host: *Chironomus* (insecta), France. Reference was not found by author.
- Ophryoglena faurei* Savoie, 1962b:427–434, holotype, USNM 24221, 1 slide; paratypes, USNM 24222 and 24223, 1 slide each, host: *Chironomus* (insecta), France.
- Ophryoglena hypertrophica* Savoie, 1961:324–334, holotype, USNM 24224, 1 slide, host: *Chironomus* (insecta), France.

- Ophryoglena mugardi* Savoie, 1962a:296–303, holotype, USNM 24225, 1 slide, host: *Chironomus* (insecta), France.

Order SCUTICOCILIATIDA

Suborder PHILASTERINA

Family THIGMOPHRYIDAE

- Thigmophrya annella* Fenchel, 1965:88–90, holotype, USNM 24233, 1 slide; paratypes, USNM 24234 and 24235, 1 slide each, *Malacobdella grossa* (mollusk), Gullmarfjord, Sweden.
- Thigmophrya saxicavae* Fenchel, 1964b:113–121, holotype, USNM 24236, 1 slide; paratype, USNM 24237, 1 slide, host: *Saxicavae arctica* (mollusk), Gullmarfjord, Sweden.
- Cochliophilus depressus* Kozloff, 1945a:95–102, lectotype, USNM 24123, 1 slide; paralectotype, USNM 24124, 1 slide, host: *Phytia setifer* (mollusk), San Francisco Bay, Berkeley, California.
- Cochliophilus minor* Kozloff, 1945:95–102, lectotype, USNM 24125, 1 slide; paralectotype, USNM 24126, 1 slide, host: *Phytia setifer* (mollusk), San Francisco Bay, Berkeley, California.

Family LOXOCEPHALIDAE

- Paratetrahymena wassi* Thompson, 1963:126–135, holotype, USNM 24227, 1 slide, host: unknown organisms from bottom sediment, York River, Gloucester Point, Virginia.

Family PSEUDOCOHNILEMBIDAE

- Pseudocohnilembus persalinus* Evans and Thompson, 1964:344–352, holotype, USNM 24230, 1 slide; paratypes, USNM 24231 and 24232, 1 slide each, Great Salt Lake, Utah.

Family URONEMATIDAE

- Uronema parva* Czapik, 1968:226–227, holotype, USNM 24238, 1 slide, Russia.

Family ENTORHIPIDIIDAE

- Entorhipidium echini* Lynch, 1929:31–39, syntype, USNM 22067, 1 slide, host: *Strongylocentrotus* (echinoderm), Pacific Grove, California.
- Entorhipidium multimicronucleatum* Lynch, 1929:43–47, syntypes, USNM 22068, 2 slides, host: *Strongylocentrotus* (echinoderm), Pacific Grove, California.
- Entorhipidium pilatum* Lynch, 1929:40–43, syntype, USNM 22069, 1 slide, host: *Strongylocentrotus* (echinoderm), Pacific Grove, California.
- Entorhipidium tenue* Lynch, 1929:39–40, syntype, USNM 22070, 1 slide, host: *Strongylocentrotus* (echinoderm), Pacific Grove, California.

Family PARANOPHRYIDAE

- Paranophrys marina* Thompson and Berger, 1965:527–531,

holotype, USNM 24226, 1 slide, host: hydroids, Northeast Pacific Ocean.

Family PARAURONEMATIDAE

Miamiensis avidus Thompson and Moewus, 1964:378–281, holotype, USNM 24216, 1 slide; paratype, USNM 24217, 1 slide, host: bony fishes, Miami, Florida.

Suborder PLEURONEMATINA

Family CYCLIDIIDAE

Cyclidium marinum Borrer, 1963:495, holotype, USNM 24206, 1 slide; paratype, USNM 24207, 1 slide, Alligator Harbor, Florida.

Family CONCHOPHTHRIDAE

Conchophthirus caryoclada Kidder, 1933:175–178, lectotype, USNM 24204, 1 slide; paralectotype, USNM 24205, 1 slide.

Family PENICULISTOMATIDAE

Mytilophilus pacificae Antipa and Dolan, 1985:360–368, holotype, USNM 33318, 1 slide; paratype, USNM 33319, host: *Mytilus californianus* (mollusk), Pigeon Point, California.

Suborder THIGMOTRICHINA

Family ANCISTRIDAE

Ancistrum abraram Fenchel, 1965:94–96, holotype, USNM 24193, 1 slide, host: *Abra nitida* (mollusk), Gullmarfjord, Sweden.

Ancistrum caudatum Fenchel, 1964:114–118, holotype, USNM 24194, 1 slide, host: *Musculus niger* (mollusk), Oresund Strait, Sweden.

Ancistrum crassum Fenchel, 1965:92–94, holotype, USNM 24195, 1 slide; paratype, USNM 24196, 1 slide, host: *Venerupis pullastra* (mollusk), Gullmarfjord, Sweden.

Ancistrum nuculae Fenchel, 1965a:94, holotype, USNM 24197, 1 slide, host: *Nucula turgida* (mollusk), Gullmarfjord, Sweden.

Ancistrum venerupis Fenchel: 1965:94, holotype, USNM 24198, 1 slide; paratypes, USNM 24199 and 24200, 1 slide each, host: *Venerupis aurea* (mollusk), Gullmarfjord, Sweden.

Ancistrumina nucellae Khan, 1970:39, holotype, USNM 24201, 1 slide; paratypes, USNM 24202 and 24203, 1 slide each, host: *Nucella lapillus* (mollusk), Gower, South Wales.

Trachiloides trivialis Fenchel, 1965b:281, holotype, USNM 24186, 1 slide, host: *Gammarus duebeni* (crustacean), Asko, Sweden.

Family HYSTEROCINETIDAE

Craticuloscuta escobari Kozloff, 1965b:335–339, lectotype, USNM 24136, 1 slide; paralectotype, USNM 24137, 1 slide,

host: *Drilocrius breymanni* (annelid), Bitaco, Colombia.

Epicharcotyle kyburzi Kozloff, 1965b:335–339, lectotype, USNM 24138, 1 slide; paralectotype, USNM 24139, 1 slide, host: *Drilocrius breymanni* (annelid), Bitaco, Colombia.

Family HEMISPEIRIDAE

Proboveria thyasirae Fenchel, 1965:103–105, holotype, USNM 24228, 1 slide, host: *Thyasira sarsi* (mollusk), Gullmarfjord, Sweden.

Proboveria triangularis Fenchel, 1965:105, holotype, USNM 24229, 1 slide, host: *Thyasira* sp. (mollusk), Gullmarfjord, Sweden.

Family HYSTEROCINETIDAE

Ptychostomum campelomae Kozloff, 1960:41–50, lectotype, USNM 24133, 1 slide; paralectotypes, USNM 24134 and 24135, 1 slide each, host: *Campeloma geniculum* (mollusk), Swift Creek, North Carolina.

Subclass PERITRICHIA

Order SESSILIDA

Family ELLOBIOPHRYIDAE

Ellobiophrya conviva Clamp, 1982:149–156, syntype, USNM 32214, 2 slides; paratype, USNM 32215, 2 slides, host: *Bugula neritina* (bryozoa), Carteret County, North Carolina.

Thalassomyces albatrossi Wing, 1975:175, holotype, USNM 24366 1 slide; holotype, USNM 33676, 1 wet lot, host: *Stilomysis major*, Yonghae, South Korea.

Order PERITRICHIA

Family LAGENOPHRYIDAE

Lagenophrys aegleae (Mouchet-Bennati, 1932) Clamp, 1988a:164–169, neotype, USNM 40919, 1 slide, host: *Aegla* sp. (crustacean), Parana, Brazil.

Lagenophrys antichthos Clamp, 1988b:164–169, holotype, USNM 40920, 1 slide; paratypes, USNM 40921, 2 slides, USNM 40922, 1 slide, host: *Parastacus pugnax* and *Parastacus nicoleti* (crustaceans), Valdivia, Chile.

Lagenophrys callinectes Couch, 1967:204–211, holotype, USNM 24239, 1 slide; paratype, USNM 24240, 1 slide, host: *Callinectes sapidus* (crustacean), Chesapeake Bay, Maryland.

Lagenophrys dennisi Clamp, 1987:383–385, holotype, USNM 40928, 1 slide; paratype, USNM 40929, 2 slides, host: *Orconectes illinoiensis* (crustacean), Hillsboro, Missouri.

Lagenophrys discoidea Kellicott, 1887:187–190, neotype, USNM 42309, 1 slide, host: *Cardona elliptica* (crustacean), Ontario, Canada. Designated a neotype by Clamp, 1990a:10–15.

Lagenophrys foxi Clamp, 1987:387, holotype, USNM 40935, 1 slide; paratype, USNM 40936, 2 slides, host: *Gammarus pseudolimnaeus* (crustacean), Hurricane Creek, Missouri.

Lagenophrys incompta Clamp, 1987:385–386, holotype,

- USNM 40930, 1 slide; paratype, USNM 40931, 2 slides, host: *Orconectes illinoiensis* (crustacean), Hillboro, Missouri.
- Lagenophrys johnsoni* Clamp, 1990c:121–128, holotype, USNM 42301, 1 slide; paratypes, USNM 42302 and 42303, 1 slide each, host: *Gammarus daiberi* (crustacean), Columbia, North Carolina; paratype, USNM 42304, 1 slide, host: *Gammarus fasciatus* (crustacean), Brielle, New Jersey; paratype, USNM 42305, 1 slide, host: *Gammarus fasciatus* (crustacean), Oswego County, New York.
- Lagenophrys labiata* (Stokes, 1887:35–40), neotypes, USNM 42316 and 42317, 1 slide each, host: *Gammarus fasciatus* (crustacean), Brielle, New Jersey. Designated a neotype by Clamp, 1990a:4–10.
- Lagenophrys lenticula* (Kellicott, 1885:110–124), neotype, USNM 42123, 2 slides, host: *Hyatella azteca* (crustacean), Corunna, Michigan. Designated a neotype by Clamp, 1991:358–359.
- Lagenophrys limnorhae* Clamp, 1988:12–16, holotype, USNM 39508, 1 slide; paratype, USNM 39509, 1 slide, host: *Limnoria tripunctata* (crustacean), Topsail Beach, North Carolina.
- Lagenophrys lunatus* Imamura, 1940:267–270, neotypes, USNM 42328 and 42329, 1 slide each, host: *Palaemon paucidens* (crustacean), Sapporo, Hokkaido, Japan. Designated a neotype by Clamp, 1990b:596–604.
- Lagenophrys metopauliadis* Corliss and Brough, 1965:73–80, holotype, USNM 24241, 1 slide; paratype, USNM 24242, 1 slide, host: *Metopaulias depressus* (crustacean), Jamaica.
- Lagenophrys missouriensis* Clamp, 1987:387–390, holotype, USNM 40937, 1 slide; paratype, USNM 40938, 1 slide, host: *Gammarus pseudolimnaeus* (crustacean), Hurricane Creek, Missouri.
- Lagenophrys oregonensis* Clamp, 1987:386–387, holotype, USNM 40932, 1 slide; paratypes, USNM 40933 and 40934, 1 slide each, host: *Pacifastacus leniusculus* (crustacean), Eddyville, Oregon.
- Lagenophrys patina* (Stokes, 1887:244–255), neotype, USNM 42701, 2 slides, host: *Hyalella azteca* (crustacean), Mercer County, New Jersey. Designated a neotype by Clamp, 1990a:15–21.
- Lagenophrys stygia* Clamp, 1990:21–25, holotype, USNM 42306, 1 slide; paratype, USNM 42307, 1 slide, host: *Baetris mucronatus* (crustacean), Fithian, Illinois; paratype, USNM 42308, 1 slide, host: *Baetris mucronatus* (crustacean), Taylorville, Illinois.
- Family OPERCULARIIDAE
- Operculigera asymmetrica* Clamp, 1991:366, holotype, USNM 42687, 1 slide, host: *Parastacus pugnax* (crustacean), Concepcion, Chile; paratype, USNM 42689, 1 slide, paratype, USNM 42691, 2 slides, host: *Parastacus pugnax* (crustacean), Talcahuano, Concepcion, Chile.
- Operculigera insolita* Clamp, 1991:366–367, holotype, USNM 42692, 1 slide, host: *Parastacus pugnax* (crustacean), Talcahuano, Concepcion, Chile; paratype, USNM 42693, 1 slide, host: *Parastacus pugnax* (crustacean), Puren, Malleco, Chile.
- Operculigera obstipa* Clamp, 1991:367–370, holotype, USNM 42694, 1 slide; paratype, USNM 42695, 1 slide, host: *Metaphreatoicus australis* (crustacean), Mt. Kosciusko, New South Wales, Australia.
- Operculigera seticola* Clamp, 1991:370, holotype, USNM 42688, 1 slide; paratype, USNM 42690, 1 slide, host: *Parastacus pugnax* (crustacean), Concepcion, Concepcion, Chile.
- Operculigera taura* Clamp, 1991:370–371, holotype, USNM 42696, 1 slide; paratype, USNM 42697, 2 slides, host: *Parastacus pugnax* (crustacean), Concepcion, Concepcion, Chile.
- Setonophrys lingulata* (Kane, 1965:109–122), neotype, USNM 42680, 2 slides, host: *Cherax destructor* (crustacean), Craigieburn, Victoria, Australia. Designated a neotype by Clamp, 1991:362–364.
- Setonophrys seticola* (Kane:1965:109–122), neotype, USNM 42684, 1 slide, host: *Geocharax falcata* (crustacean), Grampian Mountains, Victoria, Australia. Designated a neotype by Clamp, 1991:364–365.
- Setonophrys tricorniculata* Clamp, 1991:365, holotype, USNM 42685, 1 slide, host: *Geocharax falcata* (crustacean), Grampian Mountains, Victoria, Australia.
- Order MOBILIDA
Family TRICHODINIDAE
- Trichodina decipiens* Laird, 1961a:840–843, holotype, USNM 23680, 1 slide; paratype, USNM 23681, 1 slide, host: *Artedius fenestralis* (bony fish), Nanaimo, British Columbia, Canada.
- Trichodina heterodontata* Duncan, 1977:77, holotype, USNM 24485, 1 slide; paratypes, USNM 24486 and 24487, 1 slide each, host: *Tilapia mossambica*, *Tilapia zilli*, and *Trichogaster trichopterus* (bony fish), Philippines.
- Trichodina polaridiae* Fenchel, 1965a:134, holotype, USNM 24243, 1 slide; paratypes, USNM 24244 and 24245, 1 slide each, host: *Cardium namarcki* (mollusk), Asko, Sweden.
- Trichodina polycirra* Lom, 1961:173, lectotype, USNM 24246, 1 slide, host: *Rutilus rutilus* (bony fish), Bohemia, Czechoslovakia.
- Trichodina vancouverense* Laird, 1961a:839–840, holotype, USNM 23678, 1 slide; paratype, USNM 23679, 1 slide, host: *Artedius fenestralis* (bony fish), Nanaimo, British Columbia.
- Trichodinella carpi* Duncan, 1977:79–81, holotype, USNM 24488, 1 slide, host: *Cyprinus carpio* (bony fish), Philippines.
- Trichodinella sphaeronuclea* Lom, 1959:251, lectotype,

USNM 24247, 1 slide, host: *Limax cinereoniger* (mollusk), Polynesia.

Trichodinella tilapae Duncan, 1977:81, holotype, USNM 24484, 1 slide, host: *Tilapia zilli* (bony fish), Philippines.

Tripartiella copiosa Lom, 1959:253, lectotype, USNM 24248, 1 slide, host: *Gobio gobio* (bony fish), Czechoslovakia.

Family URCEOLARIIDAE

Urceolaria elongata Fenchel, 1965:131, holotype, USNM 24249, 1 slide, host: *Nuclana pernula* (mollusk), Oresund, Sweden.

Urceolaria karyodactyla Laird, 1961b:827-831, syntype, USNM 23677, 1 slide, host: *Ischnochiton ruber* (mollusk), Saint Andrews, New Brunswick, Canada.

Urceolaria spinicola Beers, 1964:430-435, holotype, USNM 24250, 1 slide; paratypes, USNM 24251 and 24252, 1 slide each, host: *Strongylocentrotus droebachiensis* (echinoderm), Mt. Desert Island, Maine.

Family USCONOPHRYIDAE

Usconophrys aperta (Plate, 1889:135-198), neotype, USNM 42698, 2 slides, host: *Asellus aquaticus* (crustacean), Bretagne, Finistere, France. Designated a neotype by Clamp, 1991:374-375.

Subclass ASTOMATIA

Order ASTOMATIDA

Family ANOPLOPHRYIDAE

Anoplophrya marylandensis Conklin, 1930:176-181, holotype, USNM 22066, 1 slide, host: *Lumbricus terrestris* (annelid), Baltimore, Maryland.

Family HAPTOPHRYIDA

Cepedietta gigantea DePuytorac, 1963:173-210, neotype, USNM 24187, 1 slide, host: *Discoglossus pictus* (amphibian), Tunisia. Designated a neotype by Corliss, 1965:8.

Cepedietta plethodonis De Puytorac, 1963:173-210, lectotype, USNM 24188, 1 slide, paralectotype, USNM 24189, 1 slide,

host: *Discoglossus pictus* (amphibian), Tunisia. Designated a lectotype and paralectotype by Corliss, 1965:8.

Haptophyra planarium (von Siebold, 1839:56) Stein, 1867, neotype, USNM 24190, 1 slide, host: *Planaria torva* (annelid), Klatovy, Czechoslovakia. Designated a neotype by Corliss, 1965:7.

Subclass APOSTOMATIA

Order APOSTOMATIDA

Suborder APOSTOMATINA

Family FOETTINGERIIDAE

Jeppsia calani Jepps 1937:589, lectotype, USNM 24191, 1 slide, host: *Calanus finmarchicus* (crustacean), Clyde Sea, Scotland. Designated a lectotype and transferred from *Chattonella* to the present genus by Corliss 1960b:275.

Terebrospira chattoni Bradbury, Clamp and Lyon, 1974:678-686, holotype, USNM 24374 1 slide; paratypes, USNM 24375 and 24376 1 slide each, host: *Paleomonetes pugio holthuis* (crustacean), South Creek, Beaufort County, North Carolina.

Order PILISUCTORIDA

Family CONIDOPHRYIDAE

Askoella janssoni Fenchel, 1965:292, holotype, USNM 24173, 1 slide; paratype, USNM 24174, 1 slide, host: *Gammarus duebeni* (crustacean), Asko, Sweden.

INCERTAE SEDIS

Lechriopyla mystax Lynch, 1930:307-350, syntypes, USNM 22527, 3 slides, host: *Strongylocentrotus franciscanus* (echinoderm), Pacific Grove, California.

Class COLPODEA

Order COLPODIDA

Family COLPIDAE

Colpoda spiralis Novotny, Lynn, and Evans, 1977:364-369, holotype and paratype, USNM 24489, 3 slides, New Mexico.

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