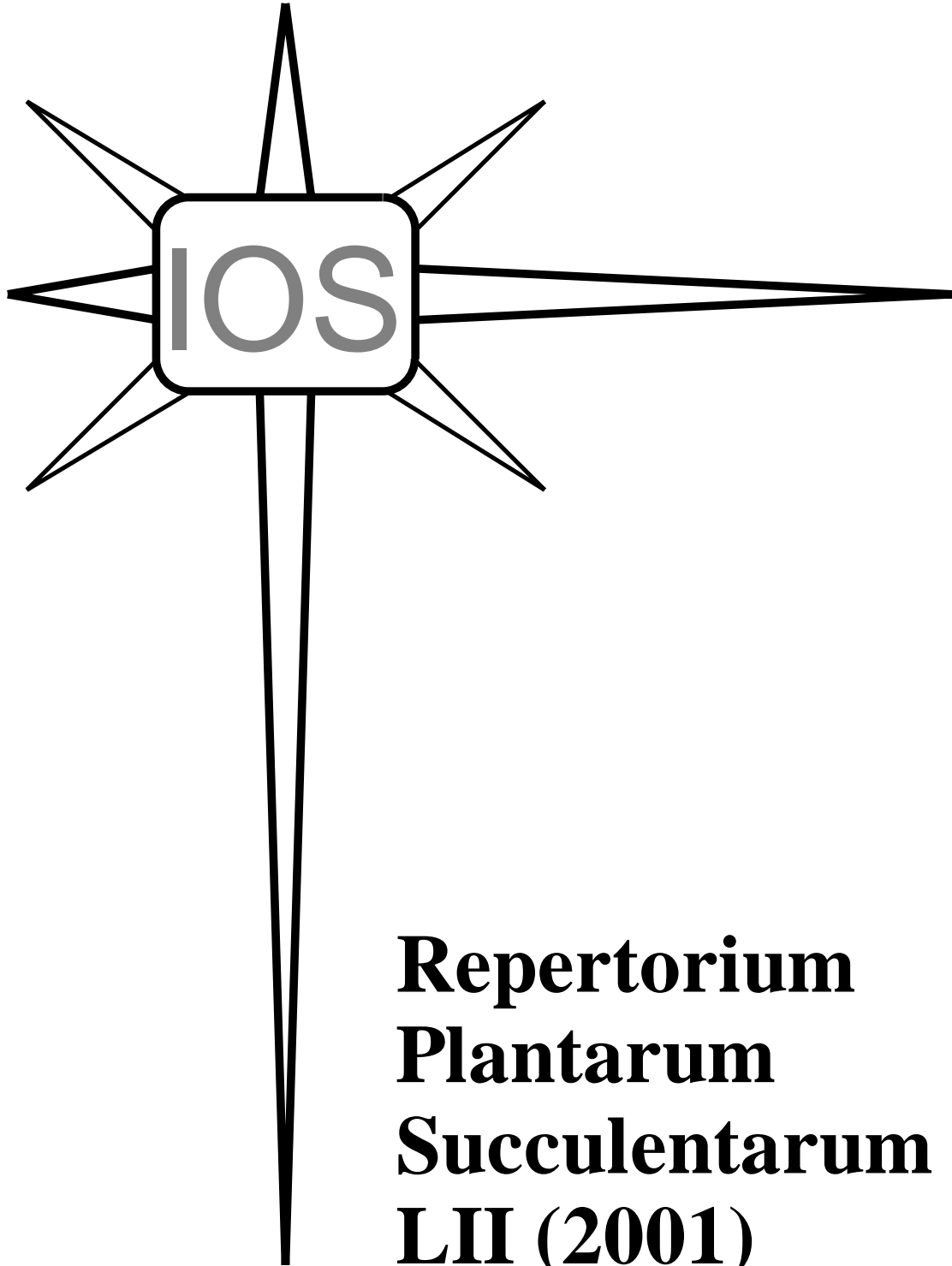


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**Repertorium  
Plantarum  
Succulentarum  
LII (2001)**

# Repertorium Plantarum Succulentarum LII (2001)

*Index nominum novarum plantarum succulentarum anno MMI editorum  
nec non bibliographia taxonomica ab U. Egli et D. C. Zappi  
compositus.*

International Organization for Succulent Plant Study  
Internationale Organisation für Sukkulentenforschung

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### Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in **bold face** type, accompanied by an indication of the nomenclatural type (name or specimen dependent on rank), followed by the herbarium acronyms of the herbaria where the holotype and possible isotypes are said to be deposited (first acronym for holotype), according to Index Herbariorum, ed. 8 and supplements as published in Taxon. Invalid, illegitimate, or incorrect names are given in *italic* type face. In either case a full bibliographic reference is given. For new combinations, the basionym is also listed. For invalid, illegitimate or incorrect names, the articles of the ICBN which have been contravened are indicated in brackets (note that the numbering of some regularly cited articles has changed in the Tokyo (1994) edition of ICBN).
- The compilers would like to point out that they do not accept any names that might be inadvertently validated in this volume of RPS.
- Bibliographic details of papers dealing only with the description of one or two new taxa are not repeated in the bibliographic section.
- Abbreviations for periodicals are those suggested in 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995')) for specialized periodicals, or those of Bibliographia Periodicorum Huntianum (including Supplement) for most other periodicals.

### Konventionen im Zusammenhang mit dem Repertorium Plantarum Succulentarum

- Das Repertorium Plantarum Succulentarum ist eine jährlich herausgegebene Zusammenstellung neuer Namen für sukkulente Pflanzen und der relevanten systematischen Literatur. Neue Namen, die nach der Drucklegung der Ausgabe des betreffenden Jahres bekannt werden, erscheinen in der nächsten erreichbaren Ausgabe. Spezialisierte Zeitschriften werden umfassend durchgesehen, soweit sie in den Bibliotheken von Z und ZSS vorhanden sind oder den Herausgebern privat vorliegen. Die Herausgeber bitten alle Autoren dringend, Separata relevanter Publikationen zur Verfügung zu stellen, vor allem wenn es sich um Beiträge in schwer zugänglichen Serien handelt.
- Gültig veröffentlichte Namen werden in **Fettschrift** wiedergegeben unter Angabe des nomenklatorischen Typs (Name oder Belegexemplar je nach Rangstufe; gefolgt von den Herbarabkürzungen [entsprechend Index Herbariorum, ed. 8, und in Taxon publizierten Supplementen] der publizierten Hinterlegungsorte für Holotyp [1. Abkürzung] und Isotypen). Ungültige, illegitime oder falsch angewandte Namen erscheinen in *Kursivschrift* unter Angabe (in Klammer) derjenigen Artikel des ICBN, die verletzt worden sind. In allen Fällen folgen die kompletten bibliographischen Angaben. Für Umkombinationen wird auch das Basionym angegeben. Dabei ist zu beachten, dass die Nummerierung einiger häufig zitiert Artikel mit dem Erscheinen der Tokyo-Version (1994) des ICBN geändert hat.
- Die Herausgeber weisen mit aller Deutlichkeit darauf hin, dass sie keinen Namen anerkennen, der zufälligerweise in dieser Ausgabe des RPS validiert worden sein könnte.
- Beiträge, welche nur Beschreibungen eines oder zweier Taxa enthalten, werden in der bibliographischen Liste nicht separat aufgeführt.
- Die Abkürzungen für spezialisierte Sukkulente-Zeitschriften richten sich nach 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995')), für allgemeine botanische Zeitschriften in der Regel nach Bibliographia Periodicorum Huntianum und Supplement.

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### **Compilers' Preface**

A special word of thanks goes to Katherine Challis from the Index Kewensis team at the Royal Botanic Gardens Kew, for stimulating discussions on tricky nomenclatural problems, of which there were quite a few in the past year.

As in previous years, Reto Nyffeler has lent his helping hand and provided access to numerous references from non-specialist botanical periodicals. Detlev Metzinger has kindly assisted with the interpretation of some infrageneric names in *Gymnocalycium*. The help of both these colleagues as well as that of David R. Hunt is greatly acknowledged.

### **Vorwort der Herausgeber**

Ein spezielles Dankeschön geht an Katherine Challis vom Index Kewensis-Team an den Royal Botanic Gardens Kew für beflügelnde Diskussionen schwieriger Nomenklaturprobleme. Solche Probleme gab es im Berichtsjahr mehr als genug.

Wie in früheren Jahren hat Reto Nyffeler uns zahlreiche Literaturhinweise aus allgemeinen botanischen Zeitschriften zugänglich gemacht. Detlev Metzinger hat uns freundlicherweise bei der Interpretation einiger infragenerischer Namen von *Gymnocalycium* geholfen. Beiden diesen Kollegen sowie auch David R. Hunt gebührt unser Dank.

### Corrections to previous volumes

- The name *Echinocereus engelmannii* ssp. *variegatus* was erroneously given as correct in RPS 51. Since a taxon having priority at subspecific rank was included as synonym, the name is, however, incorrect under Art. 11.4 and 52.3.
- The name *Parodia slabaiana* is not formed in accordance with Art. 60.11 and must be corrected to *P. slabana*.
- The name *Thelocactus* ser. *Bicolores* (Kladiwa) Doweld, reported as validly published in RPS 50, is invalid under Art. 36.1 since the basionym is itself invalid under Art. 36.1.
- The name *Euphorbia decaryi* 'Purple Knight' was published for a primary hybrid between *E. decaryi* and *E. cylindrifolia*. The correct name is therefore *Euphorbia* 'Purple Knight'.
- The name *Euphorbia gossypina* ssp. *mangulensis* S. Carter was incorrectly given as "var. *mangulensis*" in RPS 51.

### Korrekturen zu früheren Bänden

- Der Name *Echinocereus engelmannii* ssp. *variegatus* wurde in RPS 51 irrtümlicherweise als korrekt aufgelistet. Da in der Synonymie ein Taxon mit Priorität auf der Ebene der Unterart genannt wird, ist der Name jedoch unter Art. 11.4 and 52.3 nicht korrekt.
- Der Name *Parodia slabaiana* ist nicht gemäss Art. 60.11 gebildet und muss zu *P. slabana* korrigiert werden.
- Der Name *Thelocactus* ser. *Bicolores* (Kladiwa) Doweld wird in RPS 50 als gültig publiziert betrachtet, ist aber unter Art. 36.1 ungültig, da bereits das Basionym unter Art. 36.1 ungültig ist.
- Der Name *Euphorbia decaryi* 'Purple Knight' wurde für eine Primärhybride zwischen *E. decaryi* und *E. cylindrifolia* publiziert. Der korrekte Name lautet deshalb *Euphorbia* 'Purple Knight'.
- Der Name *Euphorbia gossypina* ssp. *mangulensis* S. Carter wurde in RPS 51 fälschlich als "var. *mangulensis*" wiedergegeben.

## NOMINA NOVA

## AGAVACEAE

- Agave xajoensis** W. C. Hodgson, Novon 11(4): 414-415, ill., 2001. Typus: *Hodgson et al.* 4478 (DES, ORPI). [= *A. deserti* var. *simplex* × *A. schottii* var. *schottii*.]
- Agave bicolor** (Solano & García-Mendoza) Thiede & Egli, Kakt. and Sukk. 52(6): 166, 2001. Basionym: *Polianthes bicolor*.
- Agave deserti** var. **pringlei** (Engelmann ex Orcutt) W. C. Hodgson & Reveal, Novon 11(4): 413, 2001. Basionym: *Agave pringlei*. [Bracket author erroneously given as "Gentry".]
- Agave deserti** var. **simplex** (Gentry) W. C. Hodgson & Reveal, Novon 11(4): 413, 2001. Basionym: *Agave deserti* ssp. *simplex*.
- Agave fusca** (Ravenna) Thiede & Egli, Kakt. and Sukk. 52(6): 166, 2001. Basionym: *Manfreda fusca*.
- Agave phillipsiana** W. C. Hodgson, Novon 11(4): 410-411, ill., 2001. Typus: *Hodgson* 11861 (DES, GCNP, MO [photo]).
- Agave polianthes** Thiede & Egli, Kakt. and Sukk. 52(6): 166, 2001. [*Nom. nov. pro Polianthes tuberosa* Linné 1753 (*non Agave tuberosa* Miller 1768).]
- Agave virginica** ssp. **lata** (Shinners) Thiede & Egli, Kakt. and Sukk. 52(6): 167, 2001. Basionym: *Agave lata*.
- Furcraea martinezii** García-Mendoza & L. de la Rosa, Bol. Soc. Bot. México No. 66: 121-123, ill., 2001. Typus: *García-Mendoza et de la Rosa* 6526 (MEXU etc.). [Dated 2000, publ. spring 2001.]
- Furcraea parmentieri** (Roezl ex Ortgies) García-Mendoza, Bol. Soc. Bot. México No. 66: 115, ill. (p. 116), 2001. Basionym: *Yucca parmentieri*. [Dated 2000, publ. spring 2001.]
- Hesperoyucca newberryi** (McKelvey) Clary, Sida 19(4): 845, 2001. Basionym: *Yucca newberryi*.
- Hesperoyucca peninsularis** (McKelvey) Clary, Sida 19(4): 845, 2001. Basionym: *Yucca peninsularis*.
- Yucca* Ser. *Filamentosae* Hochstätter, Kaktusblüte 2001: 7, 2001. *Nom. inval.* (Art. 37.5).
- Yucca baccata** ssp. **thornberi** (McKelvey) Hochstätter, Succulenta 80(4): 172, 2001. Basionym: *Yucca thornberi*.
- Yucca baccata** ssp. **vespertina** (McKelvey) Hochstätter, Succulenta 80(4): 170, ill. (p. 171), 2001. Basionym: *Yucca baccata* var. *vespertina*.
- Yucca brevifolia** ssp. **herbertii** (Munz) Hochstätter, Succulenta 80(6): 267-268, ill. (p. 266), 2001. Basionym: *Yucca brevifolia* fa. *herbertii*. [The name given as basionym is itself a combination, but the correct basionym name is given under further synonyms with a complete reference.]

- Yucca brevifolia** ssp. **jaegeriana** (McKelvey) Hochstätter, Succulenta 80(6): 267, ill., 2001. Basionym: *Yucca brevifolia* var. *jaegeriana*.
- Yucca filamentosa** ssp. **concava** (Haworth) Hochstätter, Kaktusblüte 2001: 11, 2001. Basionym: *Yucca concava*.
- Yucca filamentosa** ssp. **smalliana** (Fernald) Hochstätter, Kaktusblüte 2001: 10, 2001. Basionym: *Yucca smalliana*.

## AIZOACEAE

- Aizoanthemum hispanicum** (Linné) H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 29, ill. (t. I: [5]), 2001. Basionym: *Aizoon hispanicum*. [Dated 2002, received Nov. 2001.]
- Aizoanthemum rehmannii** (Schinz) H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 29, ill. (t. I: [6]), 2001. Basionym: *Mesembryanthemum rehmannii*. [Dated 2002, received Nov. 2001.]
- Amphibolia laevis** (Aiton) H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 38, ill. (t. III: [5]), 2001. Basionym: *Mesembryanthemum laeve*. [Dated 2002, received Nov. 2001.]
- Antimima aristulata** (Sonder) Chesselet & G. F. Smith, Bradleya 19: 123, ill. (p. 122), 2001. Basionym: *Mesembryanthemum aristulatum*.
- Antimima insidens** (L. Bolus) Chesselet, Aloe 38(1-2): 17, 2001. Basionym: *Ruschia insidens*.
- Aptenia geniculiflora** (Linné) L. Bittrich ex Gerbaulet, in H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 67, ill. (t. XII: [3]), 2001. Basionym: *Mesembryanthemum geniculiflorum*. [Name first cited (as "in preparation") in Bot. Jahrb. Syst. 119: 197, 1997. Dated 2002, received Nov. 2001.]
- Aptenia haeckeliana** (A. Berger) Bittrich ex Gerbaulet, in H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 68, ill. (t. XII: [4]), 2001. Basionym: *Mesembryanthemum haeckelianum*. [Dated 2002, received Nov. 2001.]
- Astridia lutata** (L. Bolus) Friedrich ex H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 83, ill. (t. XV: [8]), 2001. Basionym: *Astridia velutina* var. *lutata*. [Dated 2002, received Nov. 2001. Name first used by Friedrich in sched. (M).]
- Chasmatophyllum stanleyi** (L. Bolus) H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 116, ill. (t. XXIV: [8]), 2001. Basionym: *Mesembryanthemum stanleyi*. [Dated 2002, received Nov. 2001.]
- Cheiridopsis minor** (L. Bolus) H. E. K. Hartmann, Ill. Handb. Succ. Pl. Aizoaceae A-E, 123, 2001. Basionym: *Cheiridopsis meyeri* var. *minor*. [Dated 2002, received Nov. 2001.]

- Cheiridopsis namaquensis** (Sonder) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 124, ill. (t. XXVI: [2]), 2001. Basionym: *Mesembryanthemum namaquense*. [Dated 2002, received Nov. 2001.]
- Conophytum brunneum** S. A. Hammer, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 145, 2001. Typus: *Hammer 2593* (BOL). [Dated 2002, received Nov. 2001. Repeated in New Views Gen. Conophytum, 93, ill. (p. 77), 2002, but type here given as 'Hammer & Bruyns 2592'.]
- Conophytum ectypum** ssp. *sulcatum* (L. Bolus) S. A. Hammer, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 149, 2001. Basionym: *Conophytum sulcatum*. [Dated 2002, received Nov. 2001.]
- Conophytum jucundum** ssp. *marlothii* (N. E. Brown) S. A. Hammer, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 154, 2001. Basionym: *Conophytum marlothii*. [Dated 2002, received Nov. 2001.]
- Conophytum mirabile** A. R. Mitchell & S. A. Hammer, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 159, 2001. Typus: *Hammer 2604* (BOL). [Name first mentioned (as nude name) by S. A. Hammer, Genus Conophytum, 251, 1993. Dated 2002, received Nov. 2001.]
- Conophytum stephanii** ssp. *helmutii* (Lavis) S. A. Hammer, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 168, 2001. Basionym: *Conophytum helmutii*. [Dated 2002, received Nov. 2001.]
- Conophytum subterraneum** Smale & T. Jacobs, Bradleya 19: 15-17, ill., 2001. Typus: *Desmet et Smale 3186* (BOL).
- Corpuscularia angustifolia** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 176, 2001. Basionym: *Delosperma angustifolium*. [Dated 2002, received Nov. 2001.]
- Corpuscularia angustipetala** (Lavis) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 176, 2001. Basionym: *Delosperma angustipetalum*. [Dated 2002, received Nov. 2001.]
- Corpuscularia appressa** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 176, 2001. Basionym: *Delosperma appressum*. [Dated 2002, received Nov. 2001.]
- Corpuscularia britteniae** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 177, ill. (t. XXXIII: [7]), 2001. Basionym: *Delosperma britteniae*. [Dated 2002, received Nov. 2001.]
- Corpuscularia gracilis** H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 177, ill. (t. XXXIII: [8]), 2001. Based on *Hall 102/59*. *Nom. illeg.* (Art. 52.1). [Dated 2002, received Nov. 2001. Published as new combination but to be treated as *nom. nov. pro Delosperma gracile* L. Bolus 1961 (*non* L. Bolus 1958) according to Art. 58.1 Ex. 1 (ICBN 2000). The name is illegitimate, however, since the replacement name *D. gracillimum* L. Bolus 1964 should have been taken up.]
- Deilanthe hilmarii** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 183, ill. (t. XXXIV: [7]), 2001. Basionym: *Cheiridopsis hilmarii*. [Dated 2002, received Nov. 2001.]
- Delosperma cronemeyerianum** (A. Berger) H. Jacobsen *ex* H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 191, 2001. Basionym: *Mesembryanthemum cronemeyerianum*. [Dated 2002, received Nov. 2001. Name first used invalidly by H. Jacobsen, Handb. Succ. Pl. 3: 1096, 1960.]
- Delosperma gautengense** H. E. K. Hartmann, Aloe 38(1-2): 6-7, ill., 2001. Typus: *Hartmann 33805* (HBG, BOL, PRE).
- Delosperma invalidum** (N. E. Brown) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 197, 2001. Basionym: *Mesembryanthemum invalidum*. [Dated 2002, received Nov. 2001.]
- Delosperma purpureum** H. E. K. Hartmann, Aloe 38(1-2): 10-11, ill., 2001. Typus: *Hartmann 33808* (HBG).
- Drosanthemum longipes** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae A-E, 241, 2001. Basionym: *Delosperma longipes*. [Dated 2002, received Nov. 2001.]
- Gibbaeum haaglenii** H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 38, 2001. Typus: [lecto – icono]: Beitr. Sukk.-kunde -pflege 1938, ill. p. 90 [Lectotype designated by H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 38, 2001, for the replaced synonym.]. *Nom. illeg.* (Art. 52.1). [Dated 2002, received Nov. 2001. *Nom. nov. pro Gibbaeum haagei* Schwantes 1938, incorrectly treated as illegitimate name by H. E. K. Hartmann, l.c.]
- Gibbaeum nuciforme** (Haworth) Glen & H. E. K. Hartmann, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 40, ill. (t. III: [2]), 2001. Basionym: *Mesembryanthemum nuciforme*. [Dated 2002, received Nov. 2001. Name first mentioned by S. A. Hammer, Genus Conophytum, 253, 1993.]
- Jordaaniella spongiosa** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 69, ill. (t. X: [2]), 2001. Basionym: *Mesembryanthemum spongiosum*. [Dated 2002, received Nov. 2001.]
- Lithops herrei** cv. **Splendido** Piccione, Cact. Succ. J. (US) 73(2): 76, ill., 2001. [A selection obtained in cultivation.]
- Lithops otzeniana** cv. **Ceský Granát** Pavelka, Kaktusy 37(1): 28, ill., 2001. [A horticultural selection.]
- Malephora ochracea** (A. Berger) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 140, 2001. Basionym: *Mesembryanthemum ochraceum*. [Dated 2002, received Nov. 2001.]
- Malephora smithii** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 141, ill. (t. XV: [6]), 2001. Basionym: *Hymenocyclus smithii*. [Dated 2002, received Nov. 2001.]
- Mesembryanthemum eurystigmatum** Gerbaulet, in H. E. K. Hartmann, III. Handb. Succ. Pl. Ai-

- zoaceae F-Z, 148, ill. (t. XVI: [6]), 2001. Typus: *Anonymus* s.n. in *BOL* 18999 (BOL). [Dated 2002, received Nov. 2001. *Nom. nov. pro Cryophytum clavatum* L. Bolus 1929 (*non* Haworth 1794).]
- Meyerophytum globosum** (L. Bolus) Ihlenfeldt, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 170, ill. (t. XVIII: [6]), 2001. Basionym: *Conophyllum globosum*. [Dated 2002, received Nov. 2001.]
- Peersia vanheerdei** (L. Bolus) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 202, ill. (t. XXIV: [6]), 2001. Basionym: *Rhinophyllum vanheerdei*. [Dated 2002, received Nov. 2001.]
- Trichodiadema introrsum** (Haworth *ex* Hooker) Niesler, in H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 344, ill. (t. XLVII: [6]), 2001. Basionym: *Mesembryanthemum introrsum*. [Dated 2002, received Nov. 2001. First published invalidly (Art. 33.2) in *Bradleya* 15: 13, 1997.]
- Zaleya camillei** (Cordemoy) H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 352, 2001. Basionym: *Trianthema camillei*. [Dated 2002, received Nov. 2001. Sphalm. 'camillii'.]
- Zaleya redimita** (Melville) Bhandari, Fl. Indian Desert, 185, 1978. Basionym: *Trianthema redimita*. [Repeated by H. E. K. Hartmann, III. Handb. Succ. Pl. Aizoaceae F-Z, 353, 2001 ('2002').]
- ALOACEAE**
- Aloe** cv. **Badeel** D. M. Cumming *ex* D. M. Cumming, *Haworthiad* 15(2): 46, ill. (p. 45), 2001. [Parentage unknown, including *Aloe descoingsii* and *A. deltoideodonta*.]
- Aloe hazeliana** var. **howmanii** (Reynolds) S. Carter, in Exell & al., *Fl. Zambes.* 12(3): 61, 2001. Basionym: *Aloe howmanii*.
- Aloe lolwensis** L. E. Newton, *Cact. Succ. J. (US)* 73(3): 156-157, ill., 2001. Typus: *Hartmann et Newton* 28585 (EA) [Holotype erroneously cited for K in *IHSP* 1: 149, 2001.].
- Gasteria pendulifolia** van Jaarsveld, *Cact. Succ. J. (US)* 73(2): 68-70, ill., 2001. Typus: *van Jaarsveld et al.* 9838 (NBG).
- Gasteria polita** van Jaarsveld, *Cact. Succ. J. (US)* 73(3): 127-129, ill., 2001. Typus: *van Jaarsveld et Kok* 13742 (NBG).
- Haworthia** cv. **Moori Nosono** hort. *ex* Mays, *Alsterworthia Internat.* 1(1): 4-5, fig. 27 (p. 9), 2001. [A variegated *H. cymbiformis* form of unknown origin. Also published in Russian in *Kaktus Klub* 2001(4-5): 28.]
- Haworthia bronkhorstii** M. Hayashi, *Haworthiad* 15(1): 16, fig. 3 (p. 9), 2001. Typus: *Hayashi* 96/4 (Res. Inst. Evol. Biol. Tokyo). [Name first used without Latin diagnosis or typification in *Haworthia Study* No. 4: 8-9, ill., 2000.]
- Haworthia chromutica* M. Hayashi, *Haworthia Study* No. 4: 8-9, 2000. *Nom. inval.* (Art. 36.1, 37.1). [Name again used without typification etc. in *Haworthiad* 15(1): 17, 2001.]
- Haworthia crausii** M. Hayashi, *Haworthiad* 15(1): 16, figs. 1-2 (p. 9), 2001. Typus: *Hayashi* 97/1 (Res. Inst. Evol. Biol. Tokyo). [Name first used without Latin diagnosis or typification in *Haworthia Study* No. 4: 8, ill., 2000. Named for "S. J. Crous" and taken as intentional Latinization.]
- Haworthia grandis* M. Hayashi, *Haworthia Study* No. 4: 9, 2000. *Nom. inval.* (Art. 36.1, 37.1).
- Haworthia limifolia** var. **arcana** G. F. Smith & N. Crouch, *Bradleya* 19: 118-119, ill., 2001. Typus: *Crouch et Smith* 7 (PRE).
- Haworthia meiringii* M. Hayashi, *Haworthia Study* No. 4: 10, 2000. *Nom. inval.* (Art. 36.1, 37.1). [Perhaps cryptically based on *H. maraisii* var. *meiringii* M. B. Bayer, but this is not apparent from the entirely Japanese text.]
- Haworthia opalina** M. Hayashi, *Haworthiad* 15(1): 17, fig. 8 (p. 19), 2001. Typus: *Hayashi* 93/1 (Res. Inst. Evol. Biol. Tokyo). [Name first used without Latin diagnosis or typification in *Haworthia Study* No. 4: 8, ill., 2000.]
- Haworthia retusa** var. **quimutica** M. Hayashi, *Haworthiad* 15(1): 17, figs. 6-7 (p. 19), 2001. Typus: *Hayashi* 96/3 (Res. Inst. Evol. Biol. Tokyo). [Name first used without Latin diagnosis or typification in *Haworthia Study* No. 4: 9, 2000.]
- Haworthia rooibergensis* (J. Esterhuizen & Battista) M. Hayashi, *Haworthia Study* No. 4: 9, 2000. *Nom. inval.* (Art. 33.3), based on *Haworthia mucronata* var. *rooibergensis*. [Status as combination deduced from the epithet and a cryptic but incomplete literature reference in the entirely Japanese text.]
- Haworthia rossouwii** var. **calcareae** (M. B. Bayer) M. B. Bayer, *Aloe* 38(1-2): 36, 2001. Basionym: *Haworthia mirabilis* var. *calcareae*.
- Haworthia rossouwii** var. **petrophila** (M. B. Bayer) M. B. Bayer, *Aloe* 38(1-2): 36, 2001. Basionym: *Haworthia variegata* var. *petrophila*.
- Haworthia scabra** var. **johanii** M. Hayashi, *Haworthiad* 15(1): 16-17, figs. 4-5 (pp. 9, 19), 2001. Typus: *Hayashi* 97/11 (Res. Inst. Evol. Biol. Tokyo). [Name first used without Latin diagnosis or typification in *Haworthia Study* No. 4: 8, ill. (p. 10), 2000.]
- Haworthia striata* M. Hayashi, *Haworthia Study* No. 4: 10, 2000. *Nom. inval.* (Art. 36.1, 37.1). [Probably cryptically based on another taxon, but this is not apparent from the entirely Japanese text.]
- Haworthia toonensis* M. Hayashi, *Haworthia Study* No. 4: 10, 2000. *Nom. inval.* (Art. 36.1, 37.1). [Perhaps cryptically based on *H. heidelbergensis* var. *toonensis* M. B. Bayer, but this is not apparent from the entirely Japanese text.]
- Haworthia zenigata** M. Hayashi, *Haworthiad* 15(1): 20, figs. 9-10 (p. 18), 2001. Typus: Res. Inst. Evol. Biol. Tokyo. [Name first used with-



out Latin diagnosis or typification in Haworthia Study No. 4: 8, 2000.]

ASCLEPIADACEAE

- Ballyanthus** Bruyns, Aloe 37(4): 76, 2001. Typus: *Stapelia prognatha* P. R. O. Bally. [Dated 2000, received 2. March 2001.]
- Ballyanthus prognathus** (P. R. O. Bally) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Stapelia prognatha*. [Dated 2000, received 2. March 2001.]
- Brachystelma brownianum** (S. Moore) Meve, Pl. Syst. Evol. 228: 103, 2001. Basionym: *Tenaris browniana*.
- Brachystelma burchellii** var. **grandiflorum** (N. E. Brown) Meve, Pl. Syst. Evol. 228: 103, 2001. Basionym: *Macropetalum burchellii* var. *grandiflorum*.
- Brachystelma naorojii** P. Tetali & al., Rheedea 8(1): 75-77, ills., 1998. Typus: *Tetali* 72A (AHMA). [Omitted previously.]
- Brachystelma swarupa** Kishore & Goyder, Kew Bull. 56(1): 210-212, ills., 2001. Typus: *Kishore Kumar* 18505 (KFRI, K, MH).
- Ceropegia arabica** var. **powysii** (D. V. Field) Meve & R. Mangelsdorff, Bot. J. Linn. Soc. 137: 105, ill. (p. 103), 2001. Basionym: *Ceropegia powysii*.
- Ceropegia yemenensis** Meve & R. Mangelsdorff, Bot. J. Linn. Soc. 137: 100, ills. (p. 101, 103), 2001. Typus: *Mangelsdorff* Y24 (B, FR, UBT) [Ex cult.].
- Cynanchum ambovombense** (Liede) Liede & Meve, Adansonia, sér. 3, 23(2): 350, 2001. Basionym: *Folotsia ambovombensis*.
- Cynanchum antsiranense** (Meve & Liede) Liede & Meve, Adansonia, sér. 3, 23(2): 350, 2001. Basionym: *Sarcostemma antsiranense*.
- Cynanchum decorsei** (Costantin & Gallaud) Liede & Meve, Adansonia, sér. 3, 23(2): 350, 2001. Basionym: *Sarcostemma decorsei*.
- Cynanchum elachistemmoides** (Liede & Meve) Liede & Meve, Adansonia, sér. 3, 23(2): 350, 2001. Basionym: *Sarcostemma elachistemmoides*.
- Cynanchum floriferum** Liede & Meve, Adansonia, sér. 3, 23(2): 350, 2001. Typus: *Perrier* 12104 (P). [Nom. nov. pro *Folotsia floribunda* Descoings 1961 (non *Cynanchum floribundum* R. Brown 1809).]
- Cynanchum gerrardii** ssp. **beokinolense** (Choux) Liede & Meve, Adansonia, sér. 3, 23(2): 349, 2001. Basionym: *Cynanchum beokinolense*.
- Cynanchum grandidieri** Liede & Meve, Adansonia, sér. 3, 23(2): 350-351, 2001. Typus: *Perrier* 1442 (P). [Nom. nov. pro *Decanema grandiflorum* Jumelles & H. Perrier 1908 (non *Cynanchum grandiflorum* Cavanilles 1797).]
- Cynanchum humbert-capuronii** Liede & Meve, Adansonia, sér. 3, 23(2): 351, 2001. Typus: *Humbert et Capuron* 29382 (P). [Nom. nov. pro *Folotsia humbertii* Liede 1996 (non *Cynanchum humbertii* Choux 1926).]
- Cynanchum insigne** (N. E. Brown) Liede & Meve, Adansonia, sér. 3, 23(2): 351, 2001. Basionym: *Platykeleba insignis*.
- Cynanchum mariense** (Meve & Liede) Liede & Meve, Adansonia, sér. 3, 23(2): 351, 2001. Basionym: *Karimbolea mariensis*.
- Cynanchum membranaceum** (Liede & Meve) Liede & Meve, Adansonia, sér. 3, 23(2): 351, 2001. Basionym: *Sarcostemma membranaceum*.
- Cynanchum toliari** Liede & Meve, Adansonia, sér. 3, 23(2): 351, 2001. Typus: *Grandidier* s.n. (P [lecto]). [Nom. nov. pro *Prosopostelma madagascariense* Jumelles & H. Perrier 1911 (non *Cynanchum madagascariense* (K. Schumann) K. Schumann 1895).]
- Cynanchum verrucosum** (Descoings) Liede & Meve, Adansonia, sér. 3, 23(2): 351, 2001. Basionym: *Karimbolea verrucosa*.
- Dictyanthus macvaughianus** (W. D. Stevens) W. D. Stevens, Novon 10(3): 243, 2000. Basionym: *Matelea macvaughiana*. [Omitted previously.]
- Dictyanthus sepicola** (W. D. Stevens) W. D. Stevens, Novon 10(3): 243, 2000. Basionym: *Matelea sepicola*. [Omitted previously.]
- Eriostemma** (Schlechter) Kloppenburg & Gilding, Fraterna 14(2): 1, 2001. Typus: *Hoya coronaria* Blume. [Name first used in l.c. 14(1): 14, 2001. The citation of the basionym is cryptic and the combination is presented in a way that raises arguments to treat it as invalid under Art. 33.3.]
- Eriostemma** cv. **Ruthie** Gilding, Fraterna 14(3): 1-4, ills., 2001. [= *Eriostemma hybr.* × *E. ariadna*.]
- Eriostemma affinis* (Hemsley) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya affinis*.
- Eriostemma ariadna* (Decaisne) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya ariadna*.
- Eriostemma ciliata* (Elmer ex C. M. Burton) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.*, based on *Hoya ciliata*, *nom. inval.* (Art. 7.3, 37.1).
- Eriostemma coronaria* (Blume) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya coronaria*.
- Eriostemma gigas* (Schlechter) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya gigas*.
- Eriostemma guppyi* (Hemsley) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya guppyi*.
- Eriostemma hollrungii* (Warburg) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya hollrungii*.
- Eriostemma lauterbachii* (K. Schumann) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya lauterbachii*.
- Eriostemma lutea* (Kosteletzky) Kloppenburg & Gilding, Fraterna 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya lutea*.

- Eriostemma madulidii* (Kloppenburg) Kloppenburg & Gilding, *Fraterna* 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya madulidii*.
- Eriostemma neoguineensis* (Engler) Kloppenburg & Gilding, *Fraterna* 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya neoguineensis*. [Sphalm. 'neoguineensis'.]
- Eriostemma peekelii* (Markgraf) Kloppenburg & Gilding, *Fraterna* 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya peekelii*.
- Eriostemma pulgarensis* (Elmer) Kloppenburg & Gilding, *Fraterna* 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya pulgarensis*.
- Eriostemma purpurea* (Blume) Kloppenburg & Gilding, *Fraterna* 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya purpurea*.
- Eriostemma velutina* (Wight) Kloppenburg & Gilding, *Fraterna* 14(2): 4, 2001. *Nom. inval.* (Art. 33.3), based on *Hoya velutina*.
- Hoya cinnamomifolia** var. **purpureofusca** (Hooker) Kloppenburg, *Fraterna* 14(1): 12, ills., 2001. Basionym: *Hoya purpureofusca*.
- Hoya clemensiorum** T. Green, *Fraterna* 14(3): 11-15, ills., (4): 9, 2001. Typus: *Green* 91032 (BISH) [Ex cult. T. Green, Hawaii.]. [Sphalm. 'clemensii' but named for "J. and M. S. Clemens".]
- Hoya diversifolia** var. **el-nidicus** (Kloppenburg) Kloppenburg, *Fraterna* 14(1): 13, 2001. Basionym: *Hoya el-nidicus*.
- Hoya kloppenburgii** T. Green, *Fraterna* 14(2): 11-12, ills., 2001. Typus: *Green* 97057 (BISH) [Ex cult. T. Green.].
- Hoya spartioides** (Bentham) Kloppenburg, *Fraterna* 14(2): 8, 2001. Basionym: *Astrostemma spartioides*. [Bracket author given as 'Kuntz'. The correct basionym citation is found at the end of the paragraph following the actual combination, and by applying the principle of "benefit of the doubt", the combination can be accepted as valid.]
- Hoya thailandica** Thaitong, *Nordic J. Bot.* 21(2): 143-145, ills., 2001. Typus: *Thaitong* 1488 (BK, AAU). [Repeated in *Hoyan* 23(2): 28-29, cover ill., 2001.]
- Hoya wibergiae** Kloppenburg, *Fraterna* 14(1): 5-8, ills., 2001. Typus: *Anonymus* s.n. in *Kloppenburg* 951074 (UC).
- Huernia** cv. **Brisbane Buoy** M. Holmes, *Cact. Succ. J. (Woollahra)* 23(3): 46-48, ill., 2001. [A chance hybrid raised in cultivation. Cultivar epithet partly mis-spelled 'Brisbane Boy' in the protologue (cf. l.c. 23(4): 57, 2002).]
- Ischnolepis natalensis** (Schlechter) Venter, *Ann. Missouri Bot. Gard.* 88(4): 565, 2001. Basionym: *Pentopetia natalensis*.
- Orbea abayensis** (M. G. Gilbert) Bruyns, *Aloe* 37(4): 73, 2001. Basionym: *Caralluma abayensis*. [Dated 2000, received 2. March 2001.]
- Orbea albocastanea** (Marloth) Bruyns, *Aloe* 37(4): 73, 2001. Basionym: *Stapelia albocastanea*. [Dated 2000, received 2. March 2001.]
- Orbea araysiana** (Lavranos & Bilaidi) Bruyns, *Aloe* 37(4): 73, 2001. Basionym: *Stultitia araysiana*. [Dated 2000, received 2. March 2001.]
- Orbea baldratii** (A. C. White & B. Sloane) Bruyns, *Aloe* 37(4): 73, 2001. Basionym: *Caralluma baldratii*. [Dated 2000, received 2. March 2001.]
- Orbea baldratii** ssp. **somalensis** Bruyns, *Aloe* 37(4): 73, ill., 2001. Typus: *Bally* 16017 (ZSS). [Dated 2000, received 2. March 2001.]
- Orbea carnosa** (Stent) Bruyns, *Aloe* 37(4): 73, 2001. Basionym: *Caralluma carnosa*. [Dated 2000, received 2. March 2001.]
- Orbea caudata** (N. E. Brown) Bruyns, *Aloe* 37(4): 73, 2001. Basionym: *Caralluma caudata*. [Dated 2000, received 2. March 2001.]
- Orbea caudata** ssp. **rhodesiaca** (L. C. Leach) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma caudata* ssp. *rhodesiaca*. [Dated 2000, received 2. March 2001.]
- Orbea chrysostephana** (Deflers) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Stapelia chrysostephana*. [Dated 2000, received 2. March 2001.]
- Orbea commutata** (A. Berger) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma commutata*. [Dated 2000, received 2. March 2001.]
- Orbea conjuncta** (A. C. White & B. Sloane) Bruyns, *Aloe* 37(4): 74, ill. (p. 73), 2001. Basionym: *Stultitia conjuncta*. [Dated 2000, received 2. March 2001.]
- Orbea decaisneana** (Lemaire) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Boucerosia decaisneana*. [Dated 2000, received 2. March 2001.]
- Orbea deflersiana** (Lavranos) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma deflersiana*. [Dated 2000, received 2. March 2001.]
- Orbea denboefii** (Lavranos) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma denboefii*. [Dated 2000, received 2. March 2001.]
- Orbea distincta** (E. A. Bruce) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma distincta*. [Dated 2000, received 2. March 2001.]
- Orbea dummeri** (N. E. Brown) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Stapelia dummeri*. [Dated 2000, received 2. March 2001.]
- Orbea dummeri** ssp. **circes** (M. G. Gilbert) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma circes*. [Dated 2000, received 2. March 2001.]
- Orbea gemugofana** (M. G. Gilbert) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma gemugofana*. [Dated 2000, received 2. March 2001.]
- Orbea gerstneri** (Letty) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma gerstneri*. [Dated 2000, received 2. March 2001.]
- Orbea gerstneri** ssp. **elongata** (R. A. Dyer) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Caralluma gerstneri* ssp. *elongata*. [Dated 2000, received 2. March 2001.]
- Orbea hardyi** (R. A. Dyer) Bruyns, *Aloe* 37(4): 74, 2001. Basionym: *Stultitia hardyi*. [Dated

- 2000, received 2. March 2001.]
- Orbea huernioides** (P. R. O. Bally) Bruyns, Aloe 37(4): 74, 2001. Basionym: *Caralluma huernioides*. [Dated 2000, received 2. March 2001.]
- Orbea huillensis** (Hiern) Bruyns, Aloe 37(4): 74, 2001. Basionym: *Caralluma huillensis*. [Dated 2000, received 2. March 2001.]
- Orbea huillensis** ssp. *flava* Bruyns, Aloe 37(4): 75, ill. (p. 73), 2001. Typus: *Bruyns* 5522 (BOL). [Dated 2000, received 2. March 2001.]
- Orbea knobelii** (E. Phillips) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Stapelia knobelii*. [Dated 2000, received 2. March 2001.]
- Orbea laikipiensis** (M. G. Gilbert) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Pachycymbium laikipiense*. [Dated 2000, received 2. March 2001.]
- Orbea laticorona** (M. G. Gilbert) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Caralluma sprengeri* ssp. *laticorona*. [Dated 2000, received 2. March 2001.]
- Orbea lugardii** (N. E. Brown) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Caralluma lugardii*. [Dated 2000, received 2. March 2001.]
- Orbea luntii** (N. E. Brown) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Caralluma luntii*. [Dated 2000, received 2. March 2001.]
- Orbea lutea** (N. E. Brown) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Caralluma lutea*. [Dated 2000, received 2. March 2001.]
- Orbea lutea** ssp. *vaga* (N. E. Brown) Bruyns, Aloe 37(4): 75, 2001. Basionym: *Stapelia vaga*. [Dated 2000, received 2. March 2001.]
- Orbea maculata** ssp. *kaokoensis* Bruyns, Aloe 37(4): 75, ill. (p. 73), 2001. Typus: *Bruyns* 4083 (BOL). [Dated 2000, received 2. March 2001.]
- Orbea maculata** ssp. *rangeana* (Dinter & A. Berger) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma rangeana*. [Dated 2000, received 2. March 2001.]
- Orbea melanantha** (Schlechter) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Stapelia melanantha*. [Dated 2000, received 2. March 2001.]
- Orbea rogersii** (L. Bolus) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Stapelia rogersii*. [Dated 2000, received 2. March 2001.]
- Orbea sacculata** (N. E. Brown) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma sacculata*. [Dated 2000, received 2. March 2001.]
- Orbea schweinfurthii** (A. Berger) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma schweinfurthii*. [Dated 2000, received 2. March 2001.]
- Orbea semitubiflora** (L. E. Newton) Bruyns, Aloe 37(4): 76, ill. (p. 72), 2001. Basionym: *Angoliuma semitubiflora*. [Dated 2000, received 2. March 2001.]
- Orbea sprengeri** (Schweinfurth) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Huernia sprengeri*. [Dated 2000, received 2. March 2001.]
- Orbea sprengeri** ssp. *foetida* (M. G. Gilbert) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma sprengeri* ssp. *foetida*. [Dated 2000, received 2. March 2001.]
- Orbea sprengeri** ssp. *ogadensis* (M. G. Gilbert) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma sprengeri* ssp. *ogadensis*. [Dated 2000, received 2. March 2001.]
- Orbea subterranea** (E. A. Bruce & P. R. O. Bally) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma subterranea*. [Dated 2000, received 2. March 2001.]
- Orbea tubiformis** (E. A. Bruce & P. R. O. Bally) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma tubiformis*. [Dated 2000, received 2. March 2001.]
- Orbea ubomboensis** (I. Verdoorn) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma ubomboensis*. [Dated 2000, received 2. March 2001.]
- Orbea valida** (N. E. Brown) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma valida*. [Dated 2000, received 2. March 2001.]
- Orbea valida** ssp. *occidentalis* Bruyns, Aloe 37(4): 76, ill. (p. 74), 2001. Typus: *Bruyns* 6465 (BOL). [Dated 2000, received 2. March 2001.]
- Orbea vibratilis** (E. A. Bruce & P. R. O. Bally) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma vibratilis*. [Dated 2000, received 2. March 2001.]
- Orbea wilsonii** (P. R. O. Bally) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma wilsonii*. [Dated 2000, received 2. March 2001.]
- Orbea wissmannii** (O. Schwartz) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma wissmannii*. [Dated 2000, received 2. March 2001.]
- Orbea wissmannii** var. *eremastrum* (O. Schwartz) Bruyns, Aloe 37(4): 76, 2001. Basionym: *Caralluma eremastrum*. [Dated 2000, received 2. March 2001.]
- Orbea wissmannii** var. *parviloba* Bruyns, Aloe 37(4): 76, 2001. Typus: *Miller et King* 5336 (E). [Dated 2000, received 2. March 2001.]
- Pseudolithos mccoysi** Lavranos & Mies, Asklepios No. 82: 28-30, ills., 2001. Typus: *McCoy* 2305 (MO).
- Rhytidocaulon mccoysi** Lavranos & Mies, Cact. Succ. J. (US) 73(6): 299-303, ills., 2001. Typus: *Lavranos et al.* 31332 (MO, P, UPS).

#### ASPHODELACEAE

- Bulbine erectipilosa** G. Williamson, Aloe 38(1-2): 28, 2001. Typus: *Williamson* 5928 (NBG). [Nom. nov. pro *Bulbine canaliculata* G. Williamson 2000 (non *B. canaliculata* (Aiton) Sprengel 1825).]

## ASTERACEAE

- Kleinia isabellae** Dioli & Mesfin, Cact. Succ. J. (US) 73(2): 72, 2001. Typus: *Dioli* 20 (ETH). [First published invalidly (Art. 37.1) in l.c. 72(6): 303-304, ills., 2000.]

## CACTACEAE

- Acharagma roseana** (Bödeker) E. F. Anderson, Cact. Succ. J. (US) 71(6): 323, 1999. Basionym: *Echinocactus roseanus*. [Omitted previously.]
- Ancistrocactus uncinatus** ssp. **crassihamatus** (F. A. C. Weber) Doweld, Cactus & Co. 5(2): 92, 2001. Basionym: *Echinocactus crassihamatus*.
- Ancistrocactus uncinatus** ssp. **wrightii** (Engelmann) Doweld, Cactus & Co. 5(2): 86, 2001. Basionym: *Echinocactus uncinatus* var. *wrightii*.
- Arrojadoa braunii** Van Heek & W. Strecker, Kaktusblüte 2001: 15-16, ill., 2001. *Nom. inval.* (Art. 36.1, 37.1). [Given as provisional name.]
- Bartschella blossfeldiana** (Bödeker) Doweld, Novosti Sist. Vyssh. Rast. 33: 167, 2001. Basionym: *Mammillaria blossfeldiana*.
- Cochemiea sheldonii** (Britton & Rose) Doweld, Novosti Sist. Vyssh. Rast. 33: 165, 2001. Basionym: *Neomammillaria sheldonii*.
- Consolea millspaughii** ssp. **caymanensis** Areces, Brittonia 53(3): 100-103, ills. (p. 106), 2001. Typus: *Areces* 2402 (K, NY).
- Coryphantha** Sect. **Gracilicoryphantha** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 21, 2001. Typus: *Coryphantha gracilis* L. Bremer & A. B. Lau.
- Coryphantha** Sect. **Neocoryphantha** (Backeberg) Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 10, 2001. Basionym: *Coryphantha* Subgen. *Neocoryphantha*. [Cryptic combination, arguably valid under ICBN 2000 Art. 41.2(b).]
- Coryphantha** Sect. **Otonis** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 13, 2001. Typus: *Coryphantha otonis* (Pfeiffer) Lemaire.
- Coryphantha** Sect. **Robustispina** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 9, 2001. Typus: *Coryphantha robustispina* (Schott ex Engelmann) Britton & Rose.
- Coryphantha** Ser. **Clavatae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 11, 2001. Typus: *Coryphantha clavata* (Scheidweiler) Backeberg.
- Coryphantha** Ser. **Echinoideae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 10, 2001. Typus: *Coryphantha echinoidea* (Quehl) Britton & Rose.
- Coryphantha** Ser. **Pycnacanthae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 15, 2001. Typus: *Coryphantha pycnacantha* (Martius) Lemaire.
- Coryphantha** Ser. **Retusae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 14, 2001. Typus: *Coryphantha elephantidens* (Lemaire) Lemaire.
- Coryphantha** Ser. **Salinenses** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 15, 2001. Typus: *Coryphantha salinensis* (Poselger) Dicht & A. Lüthy.
- Coryphantha** Subser. **Corniferae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 19, 2001. Typus: *Coryphantha cornifera* (De Candolle) Lemaire.
- Coryphantha** Subser. **Delaetianae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 20, 2001. Typus: *Coryphantha delaetiana* (Quehl) A. Berger.
- Coryphantha** Subser. **Neglectae** Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 20, 2001. Typus: *Coryphantha neglecta* L. Bremer.
- Coryphantha clavata** ssp. **stipitata** (Scheidweiler) Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 12, 2001. Basionym: *Mammillaria stipitata*.
- Coryphantha durangensis** ssp. **cuencamensis** (L. Bremer) Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 18, 2001. Basionym: *Coryphantha cuencamensis*.
- Coryphantha elephantidens** ssp. **bumamma** (Ehrenberg) Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 14, 2001. Basionym: *Mammillaria bumamma*.
- Coryphantha elephantidens** ssp. **greenwoodii** (Bravo) Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 14, 2001. Basionym: *Coryphantha greenwoodii*.
- Coryphantha pseudoechinus** ssp. **loui** (L. Bremer) Dicht & A. Lüthy, Cact. Syst. Init. No. 11: 20, 2001. Basionym: *Coryphantha loui*.
- Cumulopuntia recurvata** Gilmer & H.-P. Thomas, Kakt. and. Sukk. 52(4): 85-92, ills., 2001. Typus: *Márquez* s.n. (SI 28459, ZSS).
- Cylindropuntia alcahes* var. *gigantensis* E. F. Anderson, Cact. Family, 204, 2001. *Nom. inval.* (Art. 36.1, 37.1). [Ascribed to Rebman.]
- Cylindropuntia alcahes* var. *mcgillii* E. F. Anderson, Cact. Family, 204, 2001. *Nom. inval.* (Art. 36.1, 37.1). [Ascribed to Rebman.]
- Cylindropuntia californica** var. **parkeri** (J. M. Coulter) Pinkava, J. Arizona-Nevada Acad. Sci. 33(2): 150, 2001. Basionym: *Opuntia echinocarpa* var. *parkeri*.
- Cylindropuntia** ×**campii** (M. A. Baker & Pinkava) M. A. Baker & Pinkava, J. Arizona-Nevada Acad. Sci. 33(2): 150, 2001. Basionym: *Opuntia* ×*campii*.
- Cylindropuntia cedrosensis* Rebman ex E. F. Anderson, Cact. Family, 207, 2001. *Nom. inval.* (Art. 36.1, 37.1).
- Cylindropuntia delgadilloana** Rebman & Pinkava, J. Arizona-Nevada Acad. Sci. 33(2): 154-155, ills., 2001. Typus: *Rebman* 2566 (ASU 195838, BCMEX, SD).
- Cylindropuntia** ×**fosbergii** (C. B. Wolf *pro sp.*) Rebman & al., J. Arizona-Nevada Acad. Sci. 33(2): 150, 2001. Basionym: *Opuntia* ×*fosbergii*. [First used by E. F. Anderson, Cact. Family, 208, 2001, and there erroneously attributed to Backeberg 1958.]
- Cylindropuntia ganderi** (C. B. Wolf) Rebman & Pinkava, J. Arizona-Nevada Acad. Sci. 33(2):

- 150, 2001. Basionym: *Opuntia acanthocarpa* ssp. *ganderi*.
- Cylindropuntia ganderi* var. *catavinensis* E. F. Anderson, Cact. Family, 208-209, ill., 2001. *Nom. inval.* (Art. 36.1, 37.1). [Ascribed to Rebman.]
- Cylindropuntia wolfii** (L. D. Benson) M. A. Baker, J. Arizona-Nevada Acad. Sci. 33(2): 150, 2001. Basionym: *Opuntia echinocarpa* var. *wolfii*. [Combination attributed to Rebman by E. F. Anderson, Cact. Fam., 215, 2001.]
- Discocactus bahiensis** ssp. **gracilis** P. J. Braun & E. Esteves P., Kakt. and. Sukk. 52(11): 290, ill. (pp. 286-289), 2001. Typus: *Braun et Esteves Pereira* s.n. (UFG 22432).
- Echinocereus engelmannii* ssp. *llanuraensis* (Rutow) Paredes Aguilar & al., Cact. Sonora, México, 26, 2000. *Nom. inval.* (Art. 33.3), based on *Echinocereus nicholii* ssp. *llanuraensis*. [Attributed to "Felger 1999".]
- Echinocereus knippelianus* var. *schatzlei* Nitzschke ex Bohata & al., Kaktusy 31(1): 3-5, ill., 2001. *Nom. inval.* (Art. 36.1, 37.1). [Said to have been recently published, but without any reference to a protologue.]
- Echinopsis backebergii* ssp. *herrichiana* (Backeberg) E. F. Anderson, Cact. Family, 268, 2001. *Nom. inval.* (Art. 34.1c, 33.3), based on *Lobivia herrichiana*. [Ascribed to G. D. Rowley 1982, who published such a combination under *Lobivia backebergii*.]
- Echinopsis cinnabarina* ssp. *acanthoplegma* (Backeberg) E. F. Anderson, Cact. Family, 263, in syn., 2001. *Nom. inval.*, based on *Pseudolobivia acanthoplegma*, *nom. inval.* (Art. 37.1). [Attributed to "G. D. Rowley 1982".]
- Echinopsis cinnabarina* ssp. *prestoana* (Cárdenas) E. F. Anderson, Cact. Family, 263, in syn., 2001. *Nom. inval.* (Art. 33.3), based on *Lobivia prestoana*. [Attributed to "G. D. Rowley 1982".]
- Epithelantha petri** Halda & Horáček, Acta Mus. Richnov. Sect. Nat. 7(2): 72, 2000. Typus: *Halda et Horáček* 850513 (PR). [Omitted previously.]
- Eriosyce crista** ssp. **totoralensis** (F. Ritter) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Pyrrhocactus totoralensis*.
- Eriosyce curvispina** ssp. **armata** (F. Ritter) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Pyrrhocactus armatus*.
- Eriosyce curvispina** ssp. **tuberisulcata** (Jacobi) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Echinocactus tuberisulcatus*.
- Eriosyce napina** ssp. **duripulpa** (F. Ritter) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Chileorebutia duripulpa*.
- Eriosyce simulans** (F. Ritter) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Pyrrhocactus simulans*.
- Eriosyce subgibbosa** ssp. **nigrihorrida** (Backeberg) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Neoporteria nigrihorrida*.
- Eriosyce subgibbosa** ssp. **vallenarensis** (F. Ritter) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Neoporteria vallenarensis*.
- Eriosyce subgibbosa** ssp. **wagenknechtii** (F. Ritter) Kattermann, Cact. Syst. Init. No. 12: 14, 2001. Basionym: *Neoporteria wagenknechtii*.
- Escobaria grata** M. Kaplan & al., Kaktusy 37(2): 34-37, ill., 2001. Typus: *Snicer & al.* s.n. (PR 11515).
- Frailea densispina** (Hofacker & Herm) N. Gerloff, Cactus & Co. 5(3): 142, ill., 2001. Basionym: *Frailea buenekeri* ssp. *densispina*.
- Gymnocalycium** Sect. **Microsemineum** H. Till, *Gymnocalycium* 14(2): 401, 2001. *Nom. inval.* (Art. 36.1, 52.1). [Based on *G. saglionis* (Cels) Britton & Rose.]
- Gymnocalycium** Sect. **Pirisemineum** (W. Till & Hesse) H. Till, *Gymnocalycium* 14(2): 401, 2001. Basionym: *Gymnocalycium* Subgen. *Pirisemineum*.
- Gymnocalycium** Ser. **Chacoensia** H. Till, *Gymnocalycium* 14(2): 401, 2001. Typus: *Gymnocalycium chacoense* Amerhauser.
- Gymnocalycium** Ser. **Macrosemineum** (Schütz ex Metzinger) H. Till, *Gymnocalycium* 14(2): 401, 2001. *Nom. illeg.* (Art. 52.1).
- Gymnocalycium** Ser. **Microsemineum** (Schütz) H. Till, *Gymnocalycium* 14(2): 401, 2001. *Nom. inval.* (Art. 36.1, 52.1). [Based on *G. saglionis* (Cels) Britton & Rose.]
- Gymnocalycium** Ser. **Multiflora** H. Till, *Gymnocalycium* 14(2): 401, 2001. Typus: *Gymnocalycium multiflorum* (Hooker) Britton & Rose.
- Gymnocalycium** Ser. **Periferalia** (Schütz) H. Till, *Gymnocalycium* 14(2): 401, 2001. Basionym: *Gymnocalycium* Sect. *Periferalia*.
- Gymnocalycium** Subsect. **Macrosemineum** (Schütz ex Metzinger) H. Till, *Gymnocalycium* 14(2): 401, 2001. *Nom. illeg.* (Art. 52.1). [Illegitimate versus *Gymnocalycium* Ser. *Uruguayensis* Buxbaum 1968, which is cited in the synonymy of the new section.]
- Gymnocalycium** Subsect. **Microsemineum** (Schütz) H. Till, *Gymnocalycium* 14(2): 401, 2001. *Nom. inval.* (Art. 36.1, 52.1). [Based on *G. saglionis* (Cels) Britton & Rose.]
- Gymnocalycium** Subsect. **Pileisperma** Buxbaum ex H. Till, *Gymnocalycium* 14(2): 401, 2001. Typus: *Gymnocalycium stellatum* Spegazzini.
- Gymnocalycium** Subsect. **Schickendantziana** (Buxbaum) H. Till, *Gymnocalycium* 14(2): 401, 2001. Basionym: *Gymnocalycium* Ser. *Schickendantziana*.
- Gymnocalycium** Subsect. **Terminalia** (Schütz) H. Till, *Gymnocalycium* 14(2): 401, 2001. *Nom. illeg.* (Art. 52.1?).
- Gymnocalycium berchtii** Neuhuber, *Gymnocalycium* 10(3): 219-220, ill., 1997. Typus: *Neuhuber* 89-158 (WU). [Previously omitted from RPS.]
- Gymnocalycium bergeri** Neuhuber, Kakt. Tolko 2001(1): B-C, ill., 2001. Based on *Neuhuber* 99-991. *Nom. inval.* (Art. 36.1, 34.1b). [Published as provisional name.]
- Gymnocalycium delaetii** fa. **anthersacos** Neuhuber, *Gymnocalycium* 14(4): 423, ill. (pp. 422-423), 2001. Typus: *Neuhuber* 88-41

- (BA). [Based on *Gymnocalycium antherosacos* F. Ritter 1980 (*nom. inval.*, Art. 32.1c).]
- Gymnocalycium gaponii** Neuhuber, Kaktus Klub 2001(2-3): 4-10, ills., 2001. Typus: *Neuhuber* 91-362/1222 (BA, WU). [Simultaneously also published in *Gymnocalycium* 14(3): 409-412, 2001.]
- Gymnocalycium hyptiacanthum** ssp. **paucicostatum** (R. Kiesling) Papsch, *Gymnocalycium* 14(1): 390, 2001. Basionym: *Gymnocalycium schroederianum* ssp. *paucicostatum*.
- Gymnocalycium hyptiacanthum** ssp. **schroederianum** (Osten) Papsch, *Gymnocalycium* 14(1): 390, 2001. Basionym: *Gymnocalycium schroederianum*.
- Gymnocalycium schickendantzii** ssp. **bergeri** Neuhuber, *Gymnocalycium* 14(4): 420-421, ills. (pp. 418-419), 2001. Typus: *Neuhuber* 90-308 (BA).
- Hylocereus** × **stendatus** E. Meier, Kakt. and. Sukk. 52(6): 143, ills., 2001. [Published as cultivar group; = *Hylocereus stenopterus* × *H. undatus*.]
- Hylocereus** × **stendatus** cv. **Connie Mayer** E. Meier, Kakt. and. Sukk. 52(6): 144, ill. (p. 141), 2001. [A selection from the original cross.]
- Hylocereus** × **stendatus** cv. **Kathie Van Arum** E. Meier, Kakt. and. Sukk. 52(6): 144, ill., 2001. [A selection from the original cross.]
- × **Hylselenicereus** E. Meier, Kaktusblüte 2001: 38, 2001. [Could be interpreted as provisional and thus invalid since given in the form [translated] "... F. Sibl once proposed the name ... in an unpublished paper, and I find it very apt".] [= *Hylocereus* × *Selenicereus*.]
- × **Hylselenicereus** cv. **Kesselring** E. Meier, Kaktusblüte 2001: 38, 2001. [Could be interpreted as provisional and thus invalid since it was published in the form [translated]: "I therefore propose to name this plant ..., which would have the advantage that ...".]
- Krainzia gracilis** (Pfeiffer) Doweld, Novosti Sist. Vyssh. Rast. 33: 169, 2001. Basionym: *Mammillaria gracilis*.
- Mammillaria** cv. **Catadan** Xhonneux, Cact. Aventures No. 52: 26, ill. (p. 29), 2001. [A F4 selection from *M. gracilis* hybrids.]
- Mammillaria** cv. **Mauve** Xhonneux, Cact. Aventures No. 52: 28-29, ills., 2001. [A backcross of *M. gracilis* with a F4 selection of a *M. gracilis* hybrid.]
- Mammillaria gieseckeii* Rogozinski, Mitteilungsbl. AfM 25(3): 113, 115, ill. (p. 102), 2001. Based on Rogozinski 139a. *Nom. inval.* (Art. 36.1, 37.1). [Given as 'n.n.'].]
- Mammillaria gracilis** cv. **Constant** Xhonneux, Cact. Aventures No. 52: 27, ill., 2001. [A selection from F4 crosses of *M. gracilis* hybrids.]
- Mammillaria gracilis** cv. **Nid Surprise** Xhonneux, Cact. Aventures No. 52: 29, ill., 2001. [A selection from F4 crosses of *M. gracilis* hybrids.]
- Mammillaria gracilis** cv. **Petit Prince** Xhonneux, Cact. Aventures No. 52: 29, ill., 2001. [A selection from F4 crosses of *M. gracilis* hybrids.]
- Mammillaria gracilis** cv. **Reine Fabiola** Xhonneux, Cact. Aventures No. 52: 28, 2001. [A selection from F4 crosses of *M. gracilis* hybrids.]
- Mammillaria gracilis** cv. **Roi Baudoin** Xhonneux, Cact. Aventures No. 52: 28, ill. (p. 26), 2001. [A selection from F4 crosses of *M. gracilis* hybrids.]
- Mammillaria gracilis** cv. **Valencia** Xhonneux, Cact. Aventures No. 52: 26, 2001. [A F4 selection of *M. gracilis* hybrids.]
- Mammillaria jamaicensis** Areces, Cact. Succ. J. (US) 73(1): 37-39, ills., SEM-ills., 2001. Typus: *Areces-Mallea et Proctor* 6399 (IJ, NY).
- Mammillaria perezdelarosa** ssp. **andersoniana** W. A. & B. Fitz Maurice, Cact. Succ. J. (US) 73(5): 264-265, ills., 2001. Typus: *Fitz Maurice* 2416 (MEXU).
- Matucana madisoniorum** cv. **Sárka** Kobr ex Halda, Cactaceae etc. 11(1): 40, ill., 2001. [A white-flowered horticultural selection.]
- Neochilenia** cv. **China Wonder** hort. ex Ríha, Kaktusy 37(3): 93, ill., 2001. [A cultivar obtained from the USA.]
- Notocactus** Ser. **Setacei** Prauser, Internoto 22(1): 6-7, 2001. Typus: *Notocactus concinnus*. First used by various sources as provisional name since 1976 and then invalidly (Art. 36.1) published by Havlicek in Kakt. Vilag 18(4): 75, 1989 for an unranked taxon by Fric & Kreuzinger 1935 (cf. RPS 41).
- Notocactus** Ser. **Werdermanniani** Prauser, Internoto 22(2): 14-15, 2001. Typus: *Notocactus werdermannianus*. Used as provisional name since 1976 by various sources and invalidly (Art. 36.1) published by Havlicek (as 'Werdermannianae'), Kakt. Vilag. 18(4): 75, 1989 (cf. RPS 41).
- Notocactus** Subser. **Concinni** Prauser, Internoto 22(2): 9, 12, 2001. Typus: *Notocactus concinnus*. Name first used invalidly (Art. 36.1, 37.1) by Havlicek (as 'Concinnus') in Kakt. Vilag. 18(4): 75, 1989 (cf. RPS 41).
- Notocactus** Subser. **Scopae** Prauser, Internoto 22(2): 13-14, 2001. Typus: *Notocactus scopae*. *Notocactus scopae* var. *caputproliferans* N. Gerloff & Zahra, Brit. Cact. Succ. J. 19(4): 177, ill., 2001. Based on Gerloff 36. *Nom. inval.* (Art. 34.1a, 36.1). [Published as provisional name.]
- Opuntia aureispina** (S. Brack & K. D. Heil) Pinkava & B. D. Parfitt, J. Arizona-Nevada Acad. Sci. 33(2): 150, 2001. Basionym: *Opuntia macrocentra* var. *aureispina*. [First published invalidly (Art. 33.3, note 1) in Sida 13: 128, 1988, and then erroneously included as valid in RPS 39.]
- Opuntia pachyrrhiza** H. M. Hernández & al., Novon 11(3): 309-311, ills., 2001. Typus: *Hernández et al.* 3312 (MEXU, ASU, ENCB, IEB, K, MEXU, MO, SLPM).
- Opuntia xrooneyi** M. P. Griffith, Cact. Succ. J. (US) 73(6): 307-309, ills., 2001. Typus:

- Griffith 71* (SRSC, RSA, TEX). [= *O. aureispina* × *O. macrocentra*.]
- Parodia pilayensis* Beckert, Mitteilungsbl. Inter-Parodia-Kette No. 16: 17-18, ills., 2001. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Peyotl diffusus* (Croizat) Sotomayor & al., *Cactus & Co.* 5(4): 227, 2001. *Nom. inval.* (Art. 43.1), based on *Lophophora echinata* var. *diffusa*.
- Peyotl viridescens* (Halda) Sotomayor & al., *Cactus & Co.* 5(4): 227, 2001. *Nom. inval.* (Art. 43.1), based on *Lophophora diffusa* ssp. *viridescens*.
- Peyotl zacatensis* var. *fricii* (Habermann) Sotomayor & al., *Cactus & Co.* 5(4): 228, 2001. *Nom. inval.* (Art. 43.1), based on *Lophophora fricii*.
- Pilosocereus bohlei** Hofacker, *Kakt. and. Sukk.* 52(10): 255-256, ills., 2001. *Hofacker 442* (UFG 24356, ZSS [seeds only]).
- Rimacactus** Mottram, *Bradleya* 19: 75, 2001. Typus: *Eriosyce laui* J. Lüthy.
- Rimacactus laui** (J. Lüthy) Mottram, *Bradleya* 19: 76, ills. (pp. 77, 80-81), 2001. Basionym: *Eriosyce laui*.
- Sclerocactus pubispinus* ssp. *spinosior* (Engelmann) Veres, *Kaktusy* 31(1): 26, 2001. *Nom. inval.* (Art. 33.2), based on *Echinocactus whipplei* var. *spinosior*.
- Sclerocactus pubispinus* var. *schleseri* (K. D. Heil & S. L. Welsh) Veres, *Kaktusy* 31(1): 26, 2001. *Nom. inval.* (Art. 33.2), based on *Sclerocactus schleseri*.
- Selenicereus extensus** (Salm-Dyck ex De Candolle) Leuenberger, *Bot. Jahrb. Syst.* 123(1): 56, 2001. Basionym: *Cereus extensus*.
- Sulcorebutia breviflora** ssp. **haseltonii** (Cárdenas) Fritz, *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 14(5): 75, 2001. Basionym: *Rebutia haseltonii*.
- Sulcorebutia breviflora** ssp. **laui** (Diers) Fritz, *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 14(5): 75, 2001. Basionym: *Sulcorebutia breviflora* var. *laui*.
- Sulcorebutia crispata** ssp. **aureicapillata** Halda & al., *Acta Mus. Richnov. Sect. Nat.* 7(2): 74, 2000. Typus: *Halda et Horáček* 9911318 (PR).
- Sulcorebutia crispata** ssp. **hertusii** Halda & Horáček, *Acta Mus. Richnov. Sect. Nat.* 7(2): 74, 2000. Typus: *Halda et Horáček* 9911316 (PR). [Sphalm. 'hertusi'.]
- Sulcorebutia gerosenilis** Ríha & Arandia, *Kaktusy* 37(3): 88-90, ills., 2001. Typus: *Arandia* s.n. (PR 11517).
- Sulcorebutia hertusii** (Halda & Horáček) Halda & Horáček, *Acta Mus. Richnov. Sect. Nat.* 8(1): 34, 2001. Basionym: *Sulcorebutia crispata* ssp. *hertusii*.
- Sulcorebutia hertusii** ssp. **aureicapillata** (Halda & al.) Halda & al., *Acta Mus. Richnov. Sect. Nat.* 8(1): 34, 2001. Basionym: *Sulcorebutia crispata* ssp. *aureicapillata*.
- Sulcorebutia mariana** var. **prantneri** Augustin & Hentschel, *Succulenta* 80(2): 89-93, ills., SEM-ills., 2001. Typus: *Swoboda* 81 (LPB, WU).
- Sulcorebutia vasqueziana** cv. **Aurea** hort. ex Ríha, *Kaktusy* 37(3): 94, ill., 2001. [A form obtained in cultivation in the Czech Republic.]
- Sulcorebutia vasqueziana** ssp. **alba** (Rausch) Fritz & Gertel, *Inform.-brief Freundeskreis Echinopseer* No. 31: 13, 2001. Basionym: *Sulcorebutia alba*.
- Sulcorebutia vasqueziana** ssp. **chatajillensis** (Oeser & Brederoo) Gertel & Sída, *Inform.-brief Freundeskreis Echinopseer* No. 31: 13, 2001. Basionym: *Sulcorebutia verticillacantha* var. *chatajillensis*.
- Sulcorebutia vasqueziana** ssp. **losenickyana** (Rausch) Gertel & Sída, *Inform.-brief Freundeskreis Echinopseer* No. 31: 13, 2001. Basionym: *Sulcorebutia losenickyana*.
- Tephrocactus bonnieae** (D. J. Ferguson & R. Kiesling) Stuppy, *Kew Bull.* 56(4): 1003, 2001. Basionym: *Puna bonnieae*.
- ×**Trichomoza** F. Font & Picca, *Bradleya* 19: 59, 2001. [= *Trichocereus* × *Denmoza*.]
- ×**Trichomoza roseiflora** F. Font & Picca, *Bradleya* 19: 59, ills. (pp. 62, 64), 2001. Typus: *Font et Picca* 9 (SI 28463). [= *Trichocereus atacamensis* × *Denmoza rhodacantha*.]
- Weberocereus frohningiorum** Ralf Bauer, *Kakt. and. Sukk.* 52(9): 228-230, ills., 2001. Typus: *Anonymus* s.n. in *Frohning* 9067 (ZSS, K).
- Weingartia fidaiana** ssp. **westii** (Hutchinson) Slaba, *Kaktusy* 37(3): 66, 2001. Basionym: *Gymnocalycium westii*.
- Weingartia fidaiana** var. **lecoriensis** (Cárdenas) Slaba, *Kaktusy* 37(3): 66, 2001. Basionym: *Weingartia lecoriensis*. [Cryptic combination, attributed to Donald 1979.]
- Weingartia fidaiana** var. **vilcayensis** (Cárdenas) Slaba, *Kaktusy* 37(3): 66, 2001. Basionym: *Weingartia vilcayensis*. [Cryptic combination, attributed to Donald 1979.]
- Yavia** R. Kiesling & Piltz, *Kakt. and. Sukk.* 52(3): 57-62, ills., 2001. Typus: *Yavia cryptocarpa* R. Kiesling & Piltz.
- Yavia cryptocarpa** R. Kiesling & Piltz, *Kakt. and. Sukk.* 52(3): 57-62, ills., 2001. Typus: *Kiesling et al.* 9882 (SI).

#### CRASSULACEAE

- Aizopsis ellacombianus** (Praeger) P. V. Heath, *Calyx* 4(5): 172, 2001. Basionym: *Sedum ellacombianum*. [Sphalm. 'ellacumbanum'.]
- Aizopsis florifera** (Praeger) P. V. Heath, *Calyx* 4(5): 172, 2001. Basionym: *Sedum floriferum*.
- Aizopsis litoralis** (Komarov) P. V. Heath, *Calyx* 4(5): 172, 2001. Basionym: *Sedum litorale*.
- Aizopsis takesimensis** (Nakai) P. V. Heath, *Calyx* 4(5): 172, 2001. Basionym: *Sedum takesimense*.
- Aizopsis zokuriensis** (Nakai) P. V. Heath, *Calyx* 4(5): 172, 2001. Basionym: *Sedum zokuriense*.
- Crassula badspoortensis** van Jaarsveld, *Aloe* 38(1-2): 29-30, ills., 2001. Typus: *van Jaars-*

- veld* 16111 (NBG). [Sphalm. 'badspoortense'.]
- Graptosedum** cv. **Alpenglow** Trager, Cact. Succ. J. (US) 73(2): 96, ill., 2001. [= *Graptopetalum paraguayense* × *Sedum* sp.]
- × **Graptosedum** cv. **California Sunset** R. Stephenson, Sedum Soc. Newslett. No. 58: 98-99, figs. 84-85, 2001. [Given without data on origin or parentage and as "new combination".]
- × **Graptoveria** cv. **Pik-Ruz** Moullec, Sedum Soc. Newslett. No. 59: 20, 2001. [Based on an anonymous hybrid in cultivation. Further description in l.c. No. 60: 45-46, t. 102-104, 2002.]
- Hylotelephium** cv. **Václav Pleštil's Red** Hlavatý, Sedum Soc. Newslett. No. 57: 76-77, ill. (cover), 2001. [*Hylotelephium populifolium* × *?H. caucicola*.]
- Orostachys gorovoii** Dudkin & S. Gontcharova, Bot. Zhurn. (Moscow & Leningrad) 86(6): 143-145, ill., 2001. Typus: *Dudkin* s.n. (LE, Herb. BG Vladivostok, Herb. Inst. Biochem. Vladivostok).
- Phedimus aizoon** var. **floribundus** (Nakai) H. Ohba, in Iwatsuki & al., Fl. Jap. 2b: 19-20, 2001. Basionym: *Sedum aizoon* var. *floribundum*.
- Sedum alexanderi** Egglí, Kakt. and. Sukk. 52(8): 206, ill., 2001. Typus: *MacDougall* s.n. (NY). [*Nom. nov. pro Sedum platyphyllum* Alexander 1942 *non* (Schrenk) Hamet 1929 *nec* S. H. Fu 1951.]
- Sedum oligospermum** var. **emarginatum** (S. H. Fu) Byalt, Novosti Sist. Vyssh. Rast. 33: 131, 2001. Basionym: *Sedum bracteatum* var. *emarginatum*.
- Sedum polytrichoides** var. **setouchiense** (Murata & Yuasa) H. Ohba, Fl. Jap. 2b: 27, 2001. Basionym: *Sedum yabeanum* var. *setouchiense*.
- Sedum polytrichoides** var. **yabeanum** (Makino) H. Ohba, Fl. Jap. 2b: 27, 2001. Basionym: *Sedum yabeanum*.
- Sedum uniflorum* var. *pumilum* H. Ohba, Fl. Jap. 2b: 26, 2001. Based on *Mori* s.n.. Incorrect name (Art. 11.4). [Name first used invalidly (Art. 32.1c) by H. Ohba in Y. Tsukamoto, Grand Dict. Hort. 3: 69, 1989.]
- Sedum vietnamense** Byalt, Kaktus Klub 2001(1): 28-29, ill., 2001. Typus: *Nguen Tion Hiep et Vander Cloet* NTH2214 (LE).
- Sempervivum riccii** Iberite & Anzalone, Webbia 56(1): 165-167, ill., 2001. Typus: *Iberite* UG 56.45 (RO). [Based on *Sempervivum italicum* Ricci 1961, *nom. inval.*]
- Sinocrassula paoshingensis** var. **spinulosa** H. Ohba & al., J. Jap. Bot. 76(4): 223-225, 2001. Typus: *Akiyama et al.* 105516 (KUN, A, TI, TNS).
- Tylecodon nolteei** Lavranos, Piante Grasse 20(3): 124-126, ill., 2001. Typus: *Lavranos* 31258 (PRE, MO, P). [Dated 2000, received at ZSS 15. 3. 2001.]

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- Sansevieria** cv. **Tom Grumbley** L. E. Newton, Sansevieria No. 2: 8-9, ill., 2001.
- Sansevieria nitida** Chahinian, Cact. Succ. J. (US) 73(3): 120-121, ill., 2001. Typus: *Chahinian* 301 (MO, NY).

## EUPHORBIACEAE

- Euphorbia amicorum** S. Carter, Cact. Succ. J. (US) 73(4): 177-178, ill., 2001. Typus: *Lavranos et Newton* 13171 (K).
- Euphorbia itremensis** Kimmach & Lavranos, Cact. Succ. J. (US) 73(1): 42-44, ill., 2001. Typus: *Lavranos et al.* 30000 (P, HNT).
- Euphorbia venterii** L. C. Leach *ex* R. H. Archer & S. Carter, Flow. Pl. Afr. 57: 86-90, ill., t. 2176, 2001. Typus: *Venter et al.* 174 (PRE, UNIN).

## GERANIACEAE

- Pelargonium** Sect. **Reniformia** Dreyer, South Afr. J. Bot. 66(1): 44-45, 2000. Typus: *Pelargonium reniforme* Curtis. Said to be a combination for *Pelargonium* Subsect. *Reniformia* Knuth 1912, but the section is also given as "Sect. nov.", with Latin diagnosis, and without clear bibliographical reference to a basionym.
- Pelargonium auritum** var. **carneum** (Harvey) E. M. Marais, Studies Pelargonium Sect. Hoarea (Geraniac.), 277, 2000. Basionym: *Pelargonium hirsutum* var. *carneum*.
- Pelargonium vinaceum** E. M. Marais, Studies Pelargonium Sect. Hoarea (Geraniac.), 226, 2000. Typus: *Marais* 77 (NBG, BOL, K, MO, PRE). [Reference erroneously given as "South Afr. J. Bot. 67: [in press], 2001" in Ill. Handb. Succ. Pl., Dicot., 271, 2002.]

## HYACINTHACEAE

- Fusifilum emdeorum** J. Tang & Weiglin, Feddes Repert. 112(7-8): 505-506, ill., 2001. Typus: *Müller-Doblies* 86017c (PRE, B, BTU, K, M, MO, NBG, S, WIND, Z).

## LAMIACEAE

- Burnatastrum cylindraceum** (Bentham) P. V. Heath, Calyx 4(5): 175, 2001. Basionym: *Plectranthus cylindraceus*.



**NOLINACEAE**

**Beaucarnea sanctomariana** L. Hernández, Novon 11(1): 50-53, ills., 2001. Typus: *Wendt 5914* (MEXU, CHAPA, LL, MO, UAT). [Epithet arguably correctable to 'sanctamariana', since named for the village of Santa Maria.]

**PORTULACACEAE**

**Phemeranthus aurantiacus** (Engelmann) Kiger, Novon 11(3): 319, 2001. Basionym: *Talinum aurantiacum*.

**Phemeranthus brevicaulis** (S. Watson) Kiger, Novon 11(3): 319, 2001. Basionym: *Talinum brevicaule*.

**Phemeranthus calcaricus** (S. Ware) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum calcaricum*.

**Phemeranthus calycinus** (Engelmann) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum calycinum*.

**Phemeranthus humilis** (Greene) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum humile*.

**Phemeranthus longipes** (Wooton & Standley) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum longipes*.

**Phemeranthus marginatus** (Greene) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum marginatum*.

**Phemeranthus mengesii** (W. Wolf) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum mengesii*.

**Phemeranthus parviflorus** (Nuttall) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum parviflorum*.

**Phemeranthus rugospermus** (Holzinger) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum rugospermum*.

**Phemeranthus sediforme** (von Poellnitz) Kiger, Novon 11(3): 320, 2001. Basionym: *Talinum sediforme*.

**Phemeranthus thompsonii** (N. D. Atwood & S. L. Welsh) Kiger, Novon 11(3): 321, 2001. Basionym: *Talinum thompsonii*.

**Phemeranthus validulus** (Greene) Kiger, Novon 11(3): 321, 2001. Basionym: *Talinum validulum*.

**RUBIACEAE**

**Hydnophytum ferrugineum** P. I. Forster, *Austrobaileya* 6(1): 103-105, ills., 2001. Typus: *Forster et al. PIF21406* (BRI, K, MEL).

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