



**Repertorium  
Plantarum  
Succulentarum  
XL (1989)**



# Repertorium Plantarum Succulentarum XL (1989)

*Index nominum novarum plantarum succulentarum anno MCMLXXXIX  
editorum nec non bibliographia taxonomica ab U. Eggli et N. P. Taylor  
compositus.*

International Organization for Succulent Plant Study  
Internationale Organisation für Sukkulantenforschung

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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 of K, Z, ZSS 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 one of 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. 7 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 or illegitimate names, the articles of the ICBN which have been contravened are indicated in brackets.
- 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 given in the nomenclatural section and not repeated in the bibliographic section.
- Abbreviations for periodicals are those suggested in 'A Bibliography of Succulent Plant Periodicals' (U. Egli in Bradleya 3: 103-119, 1985, and supplements in l.c. 5: 101-104, 1987) for specialized periodicals, or those of Bibliographia Periodicorum Huntianum for 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 K, 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. 7, und in Taxon publizierten Supplementen] der publizierten Hintelegungsorte für Holotyp [1. Abkürzung] und Isotypen). Ungültige oder illegitime 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.
- 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 'A Bibliography of Succulent Plant Periodicals' (U. Egli in Bradleya 3: 103-119, 1985, sowie Supplementen in l.c. 5: 101-104, 1987), für allgemeine botanische Zeitschriften nach Bibliographia Periodicorum Huntianum.

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# NOMINA NOVA

## AGAVACEAE

- Manfreda involuta** McVaugh, Fl. Novo-Galic. 15: 231-232. 1989. Typus: *Bauml et Voss* 1466 (RSA, MICH).  
**Manfreda scabra** (Ortega) McVaugh, Fl. Novo-Galic. 15: 234. 1989. Basionym: *Agave scabra*.  
**Yucca queretaroensis** Piña L., Cact. Suc. Mex. 34(3): 51-56, ills. 1989. Typus: *Anonymus* s.n. (MEXU 472851, ENCB, IZTA).

## AIZOACEAE

- Carpobrotus edulis** var. **chrysophthalmus** Preston & Sell, *Watsonia* 17(3): 238. 1989. Typus: *Sell* 79/22 (CGE).  
**Conophytum lindenianum** Lavis & S. Hammer, Cact. Succ. J. (US) 61(1): 3-4, ills. 1989. Typus: *Hammer* 441/87 (NBG).  
**Conophytum rugosum** Hammer, Cact. Succ. J. (US) 61(6): 285-286, ills. 1989. Typus: *Mitchell* 643 (NBG).  
**Mesembryanthemum** subgen. **Cryophytum** (N. E. Brown) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 72. 1986. Basionym: *Cryophytum*. [Erroneously omitted from previous issues of RPS. First invalidly proposed (Art. 33.2) by Maire & Weiller in R. Maire, Fl. Afr. Nord 8: 254, 1962].  
**Mesembryanthemum** subgen. **Opophytum** (N. E. Brown) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 73. 1986. Basionym: *Opophytum*. [Erroneously omitted from previous issues of RPS. First invalidly proposed (Art. 33.2) by Maire & Weiller in R. Maire, Fl. Afr. Nord 8: 259, 1962].  
**Phyllobolus** subgen. **Aridaria** (N. E. Brown) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 74. 1986. Basionym: *Aridaria*. [Erroneously omitted from previous issues of RPS.]  
**Phyllobolus** subgen. **Prenia** (N. E. Brown) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 75. 1986. Basionym: *Prenia*. [Erroneously omitted from previous issues of RPS.]  
**Phyllobolus** subgen. **Sceletium** (N. E. Brown) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 75. 1986. Basionym: *Sceletium*. [Erroneously omitted from previous issues of RPS.]  
**Phyllobolus** subgen. **Sphalmanthus** (N. E. Brown) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 76. 1986. Basionym: *Sphalmanthus*. [Erroneously omitted from previous issues of RPS.]  
**Phyllobolus canaliculatus** (Haworth) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 76. 1986. Basionym: *Mesembryanthemum canaliculatum*.  
**Phyllobolus noctiflorus** (Linné) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 74. 1986. Basionym: *Mesembryanthemum noctiflorum*.

[Erroneously omitted from previous issues of RPS.]

- Phyllobolus pallens** (Aiton) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 75. 1986. Basionym: *Mesembryanthemum pallens*. [Erroneously omitted from previous issues of RPS.]  
**Phyllobolus tortuosus** (Linné) Bittrich, Mitt. Inst. Allg. Bot. Hamburg 21: 75. 1986. Basionym: *Mesembryanthemum tortuosum*. [Erroneously omitted from previous issues of RPS.]

## ALOEACEAE

- Aloe molederana** Lavranos & Glen, Flow. Pl. Afr. 50(2): t. 1982 + 6 pp. of text, diags., ill. 1989. Typus: *Lavranos et Horwood* 10379 (PRE).

## ASCLEPIADACEAE

- Brachystelma inconspicuum** Venter, *Excelsa* 13: 106-108, ills. 1989. Typus: *Venter* 11183 (PRE, UNIN).  
**Brachystelma praelongum** ssp. **thunbergii** (N. E. Brown) C. Boele, *Asklepios* No. 47: 3. 1989. Basionym: *Brachystelma thunbergii*.  
**Brachystelma simplex** ssp. **banforae** Lebrun & Stork, Bull. Mus. Hist. Nat. B, Adansonie, ser. 4, 11(1): 71. 1989. Typus: *Stanfield* 196 (K).  
**Ceropegia arabica** var. **abbreviata** Bruyns, Notes Roy. Bot. Gard. Edinburgh 45(2): 318-320, ills. 1989. Typus: *Wood* 3295 (K).  
**Ceropegia arabica** var. **superba** (D. V. Field & Collenette) Bruyns, Notes Roy. Bot. Gard. Edinburgh 45(2): 317, ills. 1989. Basionym: *Ceropegia superba*.  
**Ceropegia aristolochioides** ssp. **deflersiana** Bruyns, Notes Roy. Bot. Gard. Edinburgh 45(2): 296-299, ills. 1989. Typus: *Wood et Hepper* 5887 (K).  
**Ceropegia bosseri** var. **razafindratsirana** Rauh & Buchloh, Kakt. and. Sukk. 40(5): 124-130, ills. 1989. Typus: *Razafindratsira* s.n. (HEID).  
**Ceropegia candelabrum** var. **tuberosa** (Roxburgh) N. P. Singh, Fl. East Kamataka 1: 410. 1988. Basionym: *Ceropegia tuberosa*.  
**Ceropegia foliosa** Bruyns, Notes Roy. Bot. Gard. Edinburgh 45(2): 293-294, ills. 1989. Typus: *Wood* 1829 (K).  
**Duvalia immaculata** (Luckhoff) Bayer ex Leach, South Afr. J. Bot. 55(2): 268. 1989. Basionym: *Duvalia maculata* var. *immaculata*.  
**Hoya acuta** var. **citrina** (Ridley) D. H. Kent, Hoya 11(1: Part 2): i. 1989. Basionym: *Hoya citrina*.  
**Hoya carnososa** var. **gushanica** W. Xu, Guihaia 9(3): 199. 1989. Typus: *Xu* 426 (Herb. Fuzhou Inst. Landscaping, IBK).  
**Hoya heuschkeliana** Kloppenburg, Hoya 11(1: Part 2): i-iii, ills. 1989. Typus: *Pancho* 2175 (CAHP, UC).

**Raphionacme borenensis** Venter & Gilbert, Bot. J. Linn. Soc. 99: 401-405, ills. 1989. Typus: Gilbert et Jones 66 (K).

CACTACEAE

× **Aporohelocereus mallisonii** (Otto & Dietrich) Heath, Taxon 38(2): 281. 1989. Basionym: *Cereus mallisonii*.

× **Aporohelocereus mallisonii** fa. **smithii** (Pfeiffer) Heath, Taxon 38(2): 281. 1989. Basionym: *Cereus smithii*.

**Ariocarpus fissuratus** var. **hintonii** Stuppy & N. P. Taylor, Bradleya 7: 84-88, ills. 1989. Typus: *Hinton* s.n. (K).

**Armatocereus brevispinus** J. E. Madsen, Fl. Ecuador 35: 9-10. 1989. Typus: *Madsen* 75910 (AAU).

**Arrojadoa beatae** Braun & Esteves P., Kakt. and. Sukk. 40(10): 250-256, ills., SEM-ills. 1989. Typus: *Esteves P.* 261 (UFG, ZSS).

**Austrocephalocereus estevesii** ssp. **grandiflorus** Diers & Esteves P., Kakt. and. Sukk. 40(4): 77-81, ills., SEM-ills. 1989. Typus: *Esteves P.* 149 (KOELN [Succulentarium ?]).

**Cleistocactus** cv. **Jupiter** Mottram, Cact. Succ. J. (US) 61(4): 154, ills. 1989. [= *Cleistocactus samaipatanus* × *C. winteri*.]

**Cleistocactus** cv. **Stuart** Mottram, Cact. Succ. J. (US) 61(4): 156, ill. (p. 155). 1989. [= *Cleistocactus baumannii* ssp. *santacruzensis* × *C. brookeae*.]

**Cleistocactus Brookmann grex** Mottram, Cact. Succ. J. (US) 61(4): 156. 1989. [Typus: *Cleistocactus* cv. *Stuart*.]

**Cleistocactus baumannii** ssp. **santacruzensis** (Backeberg) Mottram, Cact. Succ. J. (US) 61(4): 156, in adnot. 1989. Basionym: *Cleistocactus santacruzensis*. [as 'santacruzensis'.]

**Cleistocactus leonensis** J. E. Madsen, Fl. Ecuador 35: 18-19, ills. 1989. Typus: *Madsen* 61087 (AAU, QCA).

**Cleistocactus sepium** var. **morleyanus** (Britton & Rose) J. E. Madsen, Fl. Ecuador 35: 21. 1989. Basionym: *Borzicactus morleyanus*.

**Cleistocactus sepium** var. **ventimigliae** (Riccobono) J. E. Madsen, Fl. Ecuador 35: 22. 1989. Basionym: *Borzicactus ventimigliae*.

**Copiapoa atacamensis** var. **calderana** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 98-99, ill. 1989. Basionym: *Copiapoa calderana*. [Incorrectly used name, as *C. calderana* var. *spiniosior* Ritter, cited in the synonymy, has priority (Art. 57).]

**Copiapoa cinerascens** var. **grandiflora** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 100-101, ill. 1989. Basionym: *Copiapoa grandiflora*.

**Copiapoa cinerea** var. **eremophila** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 106. 1989. Basionym: *Copiapoa eremophila*.

**Copiapoa cinerea** var. **tenebrosa** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 106, ill. (p. 107). 1989. Basionym: *Copiapoa tenebrosa*.

**Copiapoa coquimbana** var. **alticostata** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 108. 1989. Basionym: *Copiapoa alticostata*.

**Copiapoa coquimbana** var. **fiedleriana** (Schumann) A. E. Hoffmann, Cact. Fl. Chil., 108, ill. (p. 109). 1989. Basionym: *Echinocactus fiedlerianus*.

**Copiapoa coquimbana** var. **pendulina** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 108. 1989. Basionym: *Copiapoa pendulina*.

**Copiapoa coquimbana** var. **pseudocoquimbana** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 108. 1989. Basionym: *Copiapoa pseudocoquimbana*.

**Copiapoa coquimbana** var. **vallenarensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 108, ill. (p. 111). 1989. Basionym: *Copiapoa vallenarensis*.

**Copiapoa dealbata** fa. **gigantea** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 112, ill. (p. 113). 1989. Basionym: *Copiapoa carrizalensis* var. *gigantea*.

**Copiapoa dealbata** var. **carrizalensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 112. 1989. Basionym: *Copiapoa carrizalensis*.

**Copiapoa desertorum** var. **hornilloensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 114. 1989. Basionym: *Copiapoa hornilloensis*.

**Copiapoa desertorum** var. **rubriflora** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 114. 1989. Basionym: *Copiapoa rubriflora*.

**Copiapoa desertorum** var. **rupestris** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 114, ill. (p. 115). 1989. Basionym: *Copiapoa rupestris*.

**Copiapoa echinoides** var. **cuprea** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 116, ill. (p. 117). 1989. Basionym: *Copiapoa cuprea*.

**Copiapoa humilis** var. **esmeraldana** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 118, ill. (p. 119). 1989. Basionym: *Copiapoa esmeraldana*.

**Copiapoa humilis** var. **longispina** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 118, ill. (p. 119). 1989. Basionym: *Copiapoa longispina*.

**Copiapoa humilis** var. **paposoensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 118. 1989. *Nom. inval.*, based on *Copiapoa paposoensis*, *nom. inval.* (Art. 37).

**Copiapoa humilis** var. **taltalensis** (Werdermann) A. E. Hoffmann, Cact. Fl. Chil., 118, ill. (p. 119). 1989. Basionym: *Echinocactus taltalensis*.

**Copiapoa hypogaea** var. **loui** (Diers) A. E. Hoffmann, Cact. Fl. Chil., 120, ill. (p. 121). 1989. Basionym: *Copiapoa loui*. [Sphalm. 'loui'.]

**Copiapoa marginata** var. **bridgesii** (Pfeiffer) A. E. Hoffmann, Cact. Fl. Chil., 124, ill. (p. 125). 1989. Basionym: *Echinocactus bridgesii*.

**Copiapoa megarrhiza** var. **echinata** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 126, ill. (p. 127). 1989. Basionym: *Copiapoa echinata*.

**Disocactus macranthus** var. **glaucocladus** Ewald, Epiphytes 13(52): 106-108, ill. 1989. Based on *MacDougall* A285. *Nom. inval.* (Art. 37.1). [Based on two syntypes.]

- Echinocereus coccineus** var. **arizonicus** (Rose) Ferguson, Cact. Succ. J. (US) 61(5): 221. 1989. Basionym: *Echinocereus arizonicus*.
- Echinocereus coccineus** var. **paucispinus** (Engelmann) Ferguson, Cact. Succ. J. (US) 61(5): 222. 1989. Basionym: *Cereus paucispinus*.
- Echinocereus dasyacanthus** var. **rectispinus** Trocha, Echinocereenfreund 1989(4): 89-99, ill. 1989. *Nom. inval.* (Art. 36.1, 37.1). [Given as "spec. nov."]
- Echinocereus mombergerianus** G. R. W. Frank, Kakt. and. Sukk. 40(11): 272-277, ill., SEM-ills. 1989. Based on *Lau* 1248. *Nom. inval.* (Art. 37.1). [Typification unclear, as two collections (treated as syntypes) seem to be cited.]
- Echinocereus pseudopectinatus** (N. P. Taylor) N. P. Taylor, Bradleya 7: 74. 1989. Basionym: *Echinocereus bristolii* var. *pseudopectinatus*.
- Echinocereus pulchellus** var. **sharpii** N. P. Taylor, Bradleya 7: 75-77, ill. 1989. Typus: *Gonzalez G. s.n.* (K).
- Echinocereus scheeri** var. **obscuriensis** Lau, Kakt. and. Sukk. 40(2): 34-36, ill., SEM-ills. 1989. Typus: *Lau* 91 (ZSS).
- Echinocereus triglochidiatus** fa. **inermis** (Schumann) Ferguson, Cact. Succ. J. (US) 61(5): 219. 1989. *Nom. inval.* (Art. 33.2), based on *Echinocereus phoeniceus* var. *inermis*.
- Echinopsis coquimbana** A. E. Hoffmann, Cact. Fl. Chile, 86. 1989. *Nom. inval.* (Art. 36.1). [Based on *Trichocereus coquimbanus* sensu Britton & Rose, non *Cactus coquimbanus* Molina; nec *Echinopsis coquimbana* (Molina) Friedrich & Rowley.]
- Echinopsis deserticola** var. **fulvilana** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 86-87, ill. 1989. Basionym: *Trichocereus fulvilanus*.
- Echinopsis spinibarbis** (Otto ex Pfeiffer) A. E. Hoffmann, Cact. Fl. Chil., 90-91, ill. 1989. Basionym: *Cereus spinibarbis*.
- Echinopsis uebelmanniana** (Lembcke & Backeberg) A. E. Hoffmann, Cact. Fl. Chil., 92-93, ill. 1989. *Nom. inval.*, based on *Soehrensia uebelmanniana*, *nom. inval.* (Art. 37.1).
- Eriosyce sandillon** var. **algarrobensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 146, ill. (p. 147). 1989. Basionym: *Eriosyce algarrobensis*. [*E. ceratistes*, cited in the synonymy of the species, would have priority and should have been used for the species.]
- Eriosyce sandillon** var. **mollesensis** (Backeberg) A. E. Hoffmann, Cact. Fl. Chil., 144, ill. (p. 145). 1989. *Nom. inval.* (Art. 33.2), based on *Eriosyce ceratistes* var. *mollesensis*. [Sphalm. 'mollensis'; and with incorrect basionym citation. Moreover, *E. ceratistes*, cited in the synonymy of the species, would have priority and should have been used for the species.]
- Eriosyce sandillon** var. **vallenarensis** (Backeberg) A. E. Hoffmann, Cact. Fl. Chil., 144. 1989. *Nom. inval.* (Art. 33.2), based on *Eriosyce ceratistes* var. *vallenarensis*. [With incorrect basionym citation. Moreover, *E. ceratistes*, cited in the synonymy of the species, would have priority and should have been used for the species.]
- Espositoa frutescens** J. E. Madsen, Fl. Ecuador 35: 36-37. 1989. Typus: *Madsen* 61064 (AAU, QCA).
- Eulychnia saint-pieana** var. **barquitenis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 142. 1989. Basionym: *Eulychnia barquitenis*.
- Facheiroa chaetacantha** (Ritter) Braun & Esteves P., Kakt. and. Sukk. 40(8): 202. 1989. Basionym: *Zehnerella chaetacantha*.
- Facheiroa chaetacantha** var. **montealtoi** (Ritter) Braun & Esteves P., Kakt. and. Sukk. 40(8): 202. 1989. Basionym: *Zehnerella chaetacantha* var. *montealtoi*.
- Facheiroa squamosa** (Gürke) Braun & Esteves P., Kakt. and. Sukk. 40(8): 199. 1989. Basionym: *Cereus squamosus*.
- Facheiroa squamosa** var. **polygona** (Ritter) Braun & Esteves P., Kakt. and. Sukk. 40(8): 202. 1989. Basionym: *Zehnerella polygona*.
- Gymnocalycium bruchii** var. **niveum** Rausch, Succulenta 68(9): 179-181, ill. 1989. Typus: *Rausch* 727 (ZSS).
- × **Heliochia hybrida** (Géel) Heath, Taxon 38(1): 126. 1989. Basionym: *Cactus hybridus*.
- Mammillaria albrechtiana** Wohlschläger, Kakt. and. Sukk. 40(9): 218-219, ill. 1989. Typus: *Wohlschläger* 886 (WU).
- Mammillaria arroyensis** Reppenhagen, Kakt. and. Sukk. 40(12): 290-292, ill. 1989. Typus: *Reppenhagen* 1054 (KL).
- Mammillaria coahuilensis** var. **albiarmata** (Bödeker) Hofmann, Lieferungswerk Mammillaria, [part 4], unnumbered page. 1989. Basionym: *Mammillaria albiarmata*. [Dated 1. 12. 1988, effectively published in late summer 1989.]
- Mammillaria egregia** Backeberg ex Rogozinski & Appenzeller, Mitteilungsbl. AfM 13(3): 108-116, (5): 214, ill., SEM-ills. 1989. Typus: *Rogozinski* 14/86 (ZSS). [First invalidly (Art. 37.1) published by Backeberg, Die Cact. 5: 3261, 1961; and previously used as a catalogue name by Schwarz.]
- Mammillaria elegans** var. **meissneri** (Ehrenberg) Hofmann, Lieferungswerk Mammillaria, [part 4], unnumbered page. 1989. Basionym: *Mammillaria meissneri*. [Dated 1. 12. 1988, but effectively published in late summer 1989.]
- Mammillaria viescensis** Rogozinski & Appenzeller, Mitteilungsbl. AfM 13(4): 152-160, ill., SEM-ills. 1989. Typus: *Rogozinski* 25/86 (ZSS).
- Matucana weberbaueri** fa. **flammea** (Donald) Bregman et al., Succulenta 68(6): 143. 1989. Basionym: *Borzicactus weberbaueri* var. *flammeus*.
- Melocactus bozsingianus** Antesberger, Kakt. Orch.-Rundschau 13(2-3): 17-23, ill. 1989. Typus: *Antesberger* 3 (herb. Univ. Salzburg). [It is questionable whether the publication is

- "available" in the sense of ICBN 29.1; a final decision could affect the validity of the name.]
- Melocactus citrispinus* H. & B. Antesberger, Salzburger Nachrichten 1989(30. August): 6, ill. 1989. *Nom. inval.* (Art. 36, 37, 29.4). [Published as provisional name.]
- Melocactus estevesii* P. J. Braun, Kakt. and. Sukk. 41(1): 6-10, ill. 1989. Typus: *Esteves P. 157* (UFG 12.385, B, K, ZSS). [Vol. for 1990, issue already distributed on Dec. 22, 1989.]
- Myrtillocactus geometrizans* fa. *hintonii* Fitz Maurice, Cact. Suc. Mex. 34(4): 89-91, ill. 1989. Typus: *Hinton s.n.* (MEXU, UNAM). [A monstrous form.]
- Neoporteria aricensis* var. *floribunda* (Backeberg) A. E. Hoffmann, Cact. Fl. Chil., 176, ill. (p. 177). 1989. *Nom. inval.*, based on *Reicheocactus floribundus*, *nom. inval.* (Art. 37.1).
- Neoporteria aricensis* var. *saxifraga* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 176, ill. (p. 177). 1989. Basionym: *Pyrrhocactus saxifragus*.
- Neoporteria carrizalensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 178, ill. (p. 179). 1989. Basionym: *Pyrrhocactus carrizalensis*. [Incorrectly used (Art. 57), see below.]
- Neoporteria carrizalensis* var. *totoalensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 178, ill. (p. 179). 1989. Basionym: *Pyrrhocactus totoalensis*. [Incorrectly used name (Art. 57), as *P. totoalensis* has priority over *N. carrizalensis*.]
- Neoporteria clavata* var. *nigrihorrida* A. E. Hoffmann, Cact. Fl. Chil., 160, ill. (p. 162). 1989. *Nom. inval.* (Art. 33.2). [The basionym reference (*Chilenia nigrihorrida* Backeberg 1935) is incorrect as it refers to an invalid publication of the basionym which was only validated in 1938 as *C. nigrihorrida* Backeberg ex A. W. Hill.]
- Neoporteria curvispina* var. *engleri* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 182, ill. (p. 185). 1989. Basionym: *Horridocactus engleri*.
- Neoporteria curvispina* var. *marksiana* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 182. 1989. Basionym: *Pyrrhocactus marksianus*.
- Neoporteria esmeraldana* var. *malleolata* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 222, ill. (p. 223). 1989. Basionym: *Chileorebutia malleolata*.
- Neoporteria horrida* var. *armata* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 190, ill. (p. 191). 1989. Basionym: *Pyrrhocactus armatus*.
- Neoporteria horrida* var. *aspillagae* (Söhrens) A. E. Hoffmann, Cact. Fl. Chil., 190, ill. (p. 193). 1989. Basionym: *Echinocactus aspillagae*. [Sphalm. 'aspillagai'.]
- Neoporteria horrida* var. *coliguayensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 190. 1989. Basionym: *Pyrrhocactus coliguayensis*. [Inadvertently published as 'Pyrrhocactus horridus var. coliguayensis' by a slip of the pen; the intention of the author is, however, clear, and the combination is therefore to be accepted as above.]
- Neoporteria horrida* var. *limariensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 190, ill. (p. 191). 1989. Basionym: *Pyrrhocactus limariensis*.
- Neoporteria horrida* var. *odoriflora* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 190, ill. (p. 193). 1989. Basionym: *Pyrrhocactus odoriflorus*.
- Neoporteria intermedia* fa. *gracilis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 194, ill. (p. 197). 1989. Basionym: *Pyrrhocactus gracilis*. [Incorrectly used name (Art. 57).]
- Neoporteria intermedia* fa. *pygmaea* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 194, ill. (p. 195). 1989. Basionym: *Pyrrhocactus pygmaeus*. [Incorrectly used name (Art. 57).]
- Neoporteria intermedia* var. *calderana* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 194. 1989. *Nom. inval.* (Art. 57.1), based on *Pyrrhocactus calderanus*.
- Neoporteria intermedia* var. *pilisipina* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 194, ill. (p. 195). 1989. Basionym: *Pyrrhocactus pilisipinus*. [Incorrectly used name (Art. 57).]
- Neoporteria intermedia* var. *pulchella* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 194, ill. (p. 197). 1989. *Nom. inval.* (Art. 57.1), based on *Pyrrhocactus pulchellus*.
- Neoporteria intermedia* var. *scoparia* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 194. 1989. *Nom. inval.* (Art. 57.1), based on *Pyrrhocactus scoparius*.
- Neoporteria jussieui* var. *chaniarensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 198. 1989. Basionym: *Pyrrhocactus chaniarensis*.
- Neoporteria jussieui* var. *chorosensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 202, ill. (p. 203). 1989. Basionym: *Pyrrhocactus chorosensis*.
- Neoporteria jussieui* var. *dimorpha* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 200, ill. (p. 201). 1989. Basionym: *Pyrrhocactus dimorphus*.
- Neoporteria jussieui* var. *huascensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 198, ill. (p. 199). 1989. Basionym: *Pyrrhocactus huascensis*.
- Neoporteria jussieui* var. *setosiflora* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 200, ill. (p. 201). 1989. Basionym: *Pyrrhocactus setosiflorus*.
- Neoporteria jussieui* var. *trapichensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 202, ill. (p. 203). 1989. Basionym: *Pyrrhocactus trapichensis*.
- Neoporteria jussieui* var. *wagenknechtii* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 198, ill. (p. 199). 1989. Basionym: *Pyrrhocactus wagenknechtii*.
- Neoporteria kunzei* var. *confinis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 204, ill. (p. 205). 1989. Basionym: *Pyrrhocactus confinis*. [Basionym reference given is slightly unclear but interpreted as typographical error.]
- Neoporteria napina* fa. *nuda* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 224, ill. (p. 225). 1989. Basionym: *Thelocephala nuda*.
- Neoporteria napina* var. *aerocarpa* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 226, ill. (p. 229). 1989. Basionym: *Chileorebutia aerocarpa*.
- Neoporteria napina* var. *duripulpa* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 224, ill. (p. 227).



1989. Basionym: *Chileorebutia duripulpa*.
- Neoporteria napina** var. **fankhauseri** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 224, ill. (p. 227). 1989. Basionym: *Thelocephala fankhauseri*. [Sphalm. 'fankhauseri'.]
- Neoporteria napina** var. **fulva** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 226, ill. (p. 229). 1989. Basionym: *Thelocephala fulva*. [The basionym cited is a *nomen nudum*; moreover, the basionym citation is incomplete. However, the validly published name *Thelocephala fulva* is cited in the synonymy and is taken to represent the basionym citation.]
- Neoporteria napina** var. **lembckei** (Backeberg) A. E. Hoffmann, Cact. Fl. Chil., 224, ill. (p. 227). 1989. *Nom. inval.*, based on *Neochilenia lembckei*, *nom. inval.* (Art. 37.1).
- Neoporteria nidus** var. **multicolor** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 164, ill. (p. 167). 1989. Basionym: *Neoporteria multicolor*.
- Neoporteria odieri** var. **kraussii** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 230, ill. (p. 231). 1989. *Nom. inval.* (Art. 33.2), based on *Chileorebutia kraussii*. [Sphalm. 'kraussii'. Basionym citation is incomplete (information on supplement lacks).]
- Neoporteria odieri** var. **longirapa** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 230, ill. (p. 231). 1989. Basionym: *Thelocephala longirapa*.
- Neoporteria paucicostata** var. **echinus** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 208, ill. (p. 211). 1989. Basionym: *Pyrrhocactus echinus*.
- Neoporteria paucicostata** var. **floccosa** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 208, ill. (p. 211). 1989. Basionym: *Pyrrhocactus floccosus*.
- Neoporteria paucicostata** var. **glaucescens** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 208, ill. (p. 211). 1989. Basionym: *Pyrrhocactus glaucescens*.
- Neoporteria paucicostata** var. **neohankeana** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 208, ill. (p. 209). 1989. Basionym: *Pyrrhocactus neohankeanus*.
- Neoporteria paucicostata** var. **viridis** (Ritter) Donald & Rowley, Cact. & Succ. J. Gr. Brit. 28: 57. 1966. Basionym: *Horridocactus paucicostatus* var. *viridis*. [Combination repeated by A. E. Hoffmann, Cact. Fl. Chil., 208, 1989, but the basionym cited there is incorrect.]
- Neoporteria recondita** var. **residua** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 212, ill. (p. 213). 1989. Basionym: *Pyrrhocactus residuus*.
- Neoporteria recondita** var. **vexata** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 212, ill. (p. 213). 1989. Basionym: *Pyrrhocactus vexatus*.
- Neoporteria subgibbosa** var. **intermedia** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 168. 1989. Basionym: *Neoporteria litoralis* var. *intermedia*.
- Neoporteria subgibbosa** var. **litoralis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 168, ill. (p. 171). 1989. Basionym: *Neoporteria litoralis*.
- Neoporteria subgibbosa** var. **robusta** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 168, ill. (p. 171). 1989. Basionym: *Neoporteria robusta*.
- Neoporteria taltalensis** var. **transiens** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 216, ill. (p. 217). 1989. Basionym: *Pyrrhocactus transiens*.
- Neoporteria vallenarensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 218, ill. (p. 219). 1989. *Nom. illeg.* (Art. 64.1), based on *Pyrrhocactus vallenarensis*. [Non *Neoporteria vallenarensis* Ritter 1980.]
- Neoporteria vallenarensis** var. **atroviridis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 218, ill. (p. 221). 1989. Basionym: *Pyrrhocactus atroviridis*. [Incorrectly used name (Art. 57).]
- Neoporteria vallenarensis** var. **crispa** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 218, ill. (p. 221). 1989. Basionym: *Pyrrhocactus crispus*. [Incorrectly used name (Art. 57).]
- Neoporteria vallenarensis** var. **domeykoensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 218, ill. (p. 221). 1989. Basionym: *Pyrrhocactus eriosyzoides* var. *domeykoensis*. [Incorrectly used name (Art. 57).]
- Neoporteria vallenarensis** var. **transitensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 218, ill. (p. 219). 1989. Basionym: *Pyrrhocactus transitensis*. [Incorrectly used name (Art. 57).]
- Neoporteria villosa** var. **laniceps** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 172, ill. (p. 173). 1989. Basionym: *Neoporteria laniceps*.
- Neoporteria wagenknechtii** var. **microsperma** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 174. 1989. Basionym: *Neoporteria microsperma*.
- Neoporteria wagenknechtii** var. **vallenarensis** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 174, ill. (p. 175). 1989. Basionym: *Neoporteria vallenarensis*.
- Notocactus concinnus** var. **aceguensis** Gerloff, Internoto 10(4): 99-106, ill., SEM-ill. 1989. Typus: *Stockinger* 196 (B).
- Notocactus glomeratus** Menges, Internoto 10(1): 8. 1989. *Nom. inval.* (Art. 36.1, 37.1).
- Notocactus grandiensis** Bergner, Internoto 10(2): 43-47, ill., map. 1989. *Nom. inval.* (Art. 36.1, 37.1).
- Notocactus herteri** fa. **pseudoherteri** (Buining) Herm, Internoto 10(2): 39, ill. (pp. 35-38). 1989. Basionym: *Notocactus pseudoherteri*.
- Notocactus linkii** var. **albispinus** Gerloff & Schäfer, Internoto 10(1): 11-15, ill. 1989. *Nom. inval.* (Art. 37.1). [Based on *N. ottonis* var. *albispinus* Backeb., *nom. inval.* (Art. 37).]
- Notocactus scopa** var. **marchesii** Abraham, Kakt. and Sukk. 40(7): 174-176, ill. 1989. Typus: *Abraham* 34 (KOELN [Succulentarium]).
- Opuntia aggeria** Ralston & Hilsenbeck, Madroño 36: 226. 1989. Typus: *Anthony* 856 (MICH).
- Opuntia bakeri** J. E. Madsen, Fl. Ecuador 35: 47-48. 1989. Typus: *Madsen* 50430 (AAU, QCA).
- Opuntia berterii** (Colla) A. E. Hoffmann, Cact. Fl. Chil., 244, ill. (p. 245). 1989. Basionym: *Cactus berterii*.
- Opuntia conoidea** (Ritter ex Backeberg) A. E. Hoffmann, Cact. Fl. Chil., 246, ill. (p. 247). 1989. *Nom. inval.*, based on *Tephrocactus*

- conoideus*, nom. inval. (Art. 37.1).
- Opuntia echinacea** (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 247, ill. (p. 248). 1989. Basionym: *Tephrocactus echinaceus*.
- Opuntia engelmannii** var. *flavispina* (L. Benson) Parfitt & Pinkava, Madroño 35: 348. 1989. Basionym: *Opuntia phaeacantha* var. *flavispina*.
- Opuntia engelmannii** var. *flexospina* (Griffiths) Parfitt & Pinkava, Madroño 35: 348. 1989. Basionym: *Opuntia flexospina*.
- Opuntia engelmannii** var. *lindheimeri* (Engelmann) Parfitt & Pinkava, Madroño 35: 346. 1989. Basionym: *Opuntia lindheimeri*.
- Opuntia engelmannii** var. *linguiformis* (Griffiths) Parfitt & Pinkava, Madroño 35: 347. 1989. Basionym: *Opuntia linguiformis*.
- Opuntia inamoena** fa. *spinigera* (Ritter) Braun & Esteves, Cact. Succ. J. (US) 61(6): 272. 1989. Basionym: *Platyopuntia inamoena* fa. *spinigera*.
- Opuntia tunicata** var. *chilensis* (Ritter) A. E. Hoffmann, Cact. Fl. Chil., 242, ill. (p. 242). 1989. Basionym: *Cylindropuntia tunicata* var. *chilensis*. [The basionym cited is incorrect; the correct basionym, however, is included in the synonymy.]
- Oreocereus australis** (Ritter) A. E. Hoffmann, Cact. Fl. Chile, 80. 1989. Basionym: *Arequipa australis*.
- Parodia brevihamata** var. *mollispina* (Ritter) Brandt, Gattung Parodia, 154. 1989. *Nom. inval.*, based on *Brasiliparodia brevihamata* var. *mollispina*, nom. inval. (Art. 37.1).
- Parodia buenekeri** var. *intermedia* (Ritter) Brandt, Gattung Parodia, 154. 1989. *Nom. inval.*, based on *Brasiliparodia buenekeri* var. *intermedia*, nom. inval. (Art. 37.1).
- Parodia camblayoides** F. Brandt, Gattung Parodia, 125, ill. 1989. *Nom. inval.* (Art. 36.1, 37.1). [Published as *nom. prov.*]
- Parodia grossei** var. *aureispina* (Ritter) F. Brandt, Gattung Parodia, 232. 1989. Basionym: *Eriocactus grossei* var. *aureispinus*.
- Parodia krahni** Weskamp, Kakt. and. Sukk. 40(3): 58-60, ill. 1989. Typus: *Krahn* s.n. (WU). [First published as provisional name in Gattung Parodia, 569-570, fig. 93, 1987.]
- Parodia leninghausii** var. *minor* (Ritter) F. Brandt, Gattung Parodia, 231. 1989. Basionym: *Eriocactus leninghausii* var. *minor*.
- Rebutia walteri** Diers, Kakt. and. Sukk. 40(8): 186-190, ill., SEM-ills. 1989. Typus: *Hoffmann* 1960A (KOELN).
- Sclerocactus wetlandicus** Hochstätter, Succulenta 68(6): 123-126, ill., SEM-ills. (pp. 121, 124). 1989. Typus: *Hochstätter* 69.9.3 (HBG). [Publication repeated in Kaktusblüte 1990: 35-39, ill.]
- Selenicereus** sect. **Cryptocereus** (Alexander) D. Hunt, Bradleya 7: 92-93. 1989. Basionym: *Cryptocereus*.
- Selenicereus** sect. **Deamia** (Britton & Rose) D. Hunt, Bradleya 7: 93. 1989. Basionym: *Deamia*.
- Selenicereus** sect. **Salmodyckia** D. Hunt, Bradleya 7: 91. 1989. Typus: *S. setaceus* (Salm-Dyck ex De Candolle) Werdermann; = *Mediocactus Britton & Rose quoad descr. tantum, excl. typ.*
- Selenicereus** sect. **Strophocactus** (Britton & Rose) D. Hunt, Bradleya 7: 93. 1989. Basionym: *Strophocactus*.
- Selenicereus anthonyanus** (Alexander) D. Hunt, Bradleya 7: 93. 1989. Basionym: *Cryptocereus anthonyanus*.
- Selenicereus tricae** D. Hunt, Bradleya 7: 91, ill. (p. 90). 1989. Typus: *Hunt* 7076 (K).
- Sulcorebutia augustinii** Hentzschel, Succulenta 68(7/8): 147-153, REM-ills., ill. (p. 145). 1989. Typus: *Swoboda* 152 (HBG).
- Sulcorebutia cylindrica** fa. *albiflora* Riha, Kaktusy 25(6): 134-136, ill. 1989. *Nom. inval.* (Art. 36.1, 37.1).
- Sulcorebutia mariana** Swoboda, Succulenta 68(1): 1, 3-8, ill. 1989. Typus: *Swoboda* 15 (HBG).
- Tacinga braunii** Esteves P., Kakt. and. Sukk. 40(6): 134-136, ill. 1989. Typus: *Braun* 864 (ZSS).
- Turbincarpus krainzianus** fa. *minima* G. Frank, Succulenta 68(2): 40-41, (12): 272, ill. 1989. Typus: *Bonatz* s.n. (WU).

#### CRASSULACEAE

- Aeonium** sect. **Petrothamnium** (Webb ex Christ) H.-Y. Liu, Syst. Aeonium, 39. 1989. Basionym: *Greenovia* sect. *Petrothamnium*.
- Aeonium** ser. **Chrysocome** H.-Y. Liu, Syst. Aeonium, 47. 1989. Typus: *Aeonium spatulatum* (Homem.) Praeger.
- Aeonium** ser. **Patinaria** H.-Y. Liu, Syst. Aeonium, 54. 1989. Typus: *Aeonium canariense* (Linné) Webb & Berthelot.
- Aeonium** ser. **Praegeri** H.-Y. Liu, Syst. Aeonium, 53. 1989. Typus: *Aeonium cuneatum* Webb & Berthelot.
- Aeonium** ser. **Simsii** H.-Y. Liu, Syst. Aeonium, 46. 1989. Typus: *Aeonium simsii* (Sweet) Stearn.
- Aeonium arboreum** var. *holochrysum* H.-Y. Liu, Syst. Aeonium, 67. 1989. [Based on *Sempervivum urbicum sensu Lindley*, Bot. Reg., t. 1741, 1835 (*non* Chr. Sm. ex Homem. 1819); = *Aeonium holochrysum* auctt. *non* Webb & Berthelot.]
- Aeonium arboreum** var. *rubrolineatum* (Sventenius) H.-Y. Liu, Syst. Aeonium, 68. 1989. Basionym: *Aeonium rubrolineatum*.
- Aeonium canariense** var. *palmense* (Webb ex Christ) H.-Y. Liu, Syst. Aeonium, 57. 1989. Basionym: *Aeonium palmense*.
- Aeonium canariense** var. *subplanum* (Praeger) H.-Y. Liu, Syst. Aeonium, 59. 1989. Basionym: *Aeonium subplanum*.
- Aeonium canariense** var. *virgineum* (Webb ex Christ) H.-Y. Liu, Syst. Aeonium, 60. 1989. Basionym: *Aeonium virgineum*.
- Aeonium davidbramwellii** H.-Y. Liu, Syst.

- Aeonium, 88. 1989. Typus: *Liu* 3261A (OS).  
**Aeonium korneliuslensii** H.-Y. Liu, Syst. Aeonium, 63. 1989. Typus: *Gattefosse* s.n. (MO, K).  
**Aeonium lindleyi** var. **viscatum** (Bolle) H.-Y. Liu, Syst. Aeonium, 41. 1989. Basionym: *Aeonium viscatum*.  
**Aeonium stuessyi** H.-Y. Liu, Syst. Aeonium, 77. 1989. Typus: *Vesey-FitzGerald* 6398 (EA, K).  
**Aeonium** × **velutinum** (N. E. Brown *pro sp.*) H.-Y. Liu, Syst. Aeonium, 96. 1989. Basionym: *Sempervivum velutinum*.  
**Echeveria chapalensis** Moran & Uhl, Cact. Suc. Mex. 34(2): 27-34, 48, ills. 1989. Typus: *Uhl* 2140 (SD 95121).  
*Echeveria rondelii* hort. Sterk, Succulenta 68(12): 268-270, ills. 1989. Based on *Otero* 42. *Nom. inval.* (Art. 36.1). [Published as *nom. nud.*, concurrently validly described as *E. setosa* var. *deminuta* by Meyran.]  
**Echeveria setosa** var. **deminuta** Meyrán, Cact. Suc. Mex. 34(4): 75-79, ills. 1989. Typus: *Otero* 42 (MEXU, ENCB).  
**Kalanchoe deficiens** var. **glabra** Raadts, Willdenowia 18(2): 423-426. 1989. Typus: *Müller-Hohenstein et Deil* 635 (B).  
**Orostachys fimbriatus** var. **grandiflorus** F. Z. Li & X. D. Chen, Bull. Bot. Res. North-East. Forest. Inst. 9: 74. 1989. Typus: *Li* s.n. (Forestry School of Shandong Prov.).  
**Orostachys fimbriatus** var. **shandongensis** F. Z. Li & X. D. Chen, Bull. Bot. Res. North-East. Forest. Inst. 9: 73. 1989. Typus: *Li* 860700 (Forestry School of Shandong Prov.).  
**Rosularia muratdaghensis** Kit Tan, Notes Royal Bot. Gard. Edinburgh 45(2): 367, fig. 1H (p. 366). 1989. Typus: *Davis* 36820A (E, RSA). [Issue dated 1988, but not distributed until early 1989.]  
**Rosularia tauricola** Kit Tan, Notes Royal Bot. Gard. Edinburgh 45(2): 365-367, ills. 1989. Typus: *Peat* 112-5-76 p.p. (E, RSA). [Issue dated 1988, but not distributed until early 1989.]  
**Sedum creticum** var. **monocarpicum** 't Hart, Taxon 38(4): 650. 1989. [Based on *Sedum creticum* Boissier & Heldreich (*non* Presl) = *Sedum cretense* Maire.]  
**Sedum himalense** ssp. **taohoense** (Fu) J. P. Kozhevnikov, Bot. Zhurn. 74(4): 543. 1989. Basionym: *Rhodiola taohoensis*.  
**Sedum jiulongshanense** Y. C. Ho, Bull. Bot. Res. NE Forest Inst. 9(4): 31. 1989. Typus: *Liu* 3278 (Univ. Hangzhou).  
**Sedum ludlowii** (Ohba) J. P. Kozhevnikov, Bot. Zhurn. 74(4): 543. 1989. Basionym: *Rhodiola ludlowii*.  
**Sedum nicaense** ssp. **dianium** (O. Boulos) S. Rivas-Martinez, Opusc. Bot. Pharm. Complut. 3: 88. 1986. Basionym: *Sedum sediforme* ssp. *dianium*.  
**Sedum nicaense** var. **saguntinum** (O. Boulos) S. Rivas-Martinez, Opusc. Bot. Pharm. Complut. 3: 88. 1986. Basionym: *Sedum sediforme* var. *saguntinum*.

- Sedum ohbae** J. P. Kozhevnikov, Bot. Zhurn. 74(4): 543. 1989. [*Nom. nov. pro Rhodiola angusta* Nakai.]  
**Sedum pinnatifidum** (Borrisova) J. P. Kozhevnikov, Bot. Zhurn. 74(4): 543. 1989. Basionym: *Rhodiola pinnatifida*.  
**Sedum rosea** ssp. **arcticum** (Borissova) J. P. Kozhevnikov, Bot. Zhurn. 74(4): 537. 1989. Basionym: *Rhodiola arctica*. [Sphalm. 'roseum'.]  
**Sedum serratum** (Ohba) Kozhevnikov, Bot. Zhurn. 74(4): 537. 1989. Basionym: *Rhodiola serrata*.  
**Sedum sherriffii** (Ohba) Kozhevnikov, Bot. Zhurn. 74(4): 537. 1989. Basionym: *Rhodiola sherriffii*.  
**Sedum tiannushanense** Y. C. Ho & F. Chai, Bull. Bot. Res. North-East. Forest Inst. 9(4): 32. 1989. Typus: *Chai* 52 (herb. Teacher's College Hangzhou).  
**Sempervivum atropatanum** J. Pamell, Willdenowia 18(2): 419-421, ills., map. 1989. Typus: *Rechinger* 49591 (B, W). [Sphalm. 'atropatanus', 'atropaticum'.]  
**Tylecodon albiflorus** Bruyns, South Afr. J. Bot. 55(3): 333-335, ills. 1989. Typus: *Bruyns* 1409 (NBG).  
**Tylecodon atropurpureus** Bruyns, South Afr. J. Bot. 55(3): 332-333, ills. 1989. Typus: *Bruyns* 2658 (BOL, PRE).  
**Tylecodon ellaphiae** van Jaarsveld, Flow. Pl. Afr. 50(2): t. 1983 + 3 pp. of text. 1989. Typus: *van Jaarsveld et Drijfhout* 5523 (NBG).  
**Tylecodon pusillus** Bruyns, South Afr. J. Bot. 55(3): 335-336, ills. 1989. Typus: *Bruyns* 2888 (BOL).  
**Tylecodon sulphureus** var. **armianus** van Jaarsveld, Flow. Pl. Afr. 50(2): t. 1984 + 2 pp. of text. 1989. Typus: *van Jaarsveld et Patterson* 6639 (NBG).

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- Euphorbia kondoi** Rauh & Razafindratsira, Cact. Succ. J. (US) 61(3): 113-118, ills. 1989. Typus: *Razafindratsira* s.n. (HEID).

#### HYACINTHACEAE

- Ledebouria violacea** (Hutchinson) W. L. Tjaden, Brit. Cact. Succ. J. 7(1): 11. 1989. Basionym: *Scilla violacea*.

#### MORACEAE

- Dorstenia cuspidata** var. **brinkmaniana** Hijman, Fl. Trop. East Afr.: Moraceae, 40-41. 1989. Typus: *Greenway et Kanuri* 14786 (EA, K, M, MO).  
**Dorstenia hildebrandtii** var. **schlechteri** (Engler) Hijman, Fl. Trop. East Afr.: Moraceae, 34. 1989. Basionym: *Dorstenia schlechteri*.

PORTULACACEAE

- Lewisia** sect. **Brachycalyx** B. Mathew, Genus *Lewisia*, 139. 1989. Typus: *L. brachycalyx* Engelmann ex A. Gray.
- Lewisia** sect. **Cotyledon** B. Mathew, Genus *Lewisia*, 139. 1989. Typus: *L. cotyledon* (S. Watson) B. L. Robinson.
- Lewisia** sect. **Erocallis** B. Mathew, Genus *Lewisia*, 139. 1989. Typus: *L. triphylla* (S. Watson) B. L. Robinson.
- Lewisia** sect. **Oppositifolia** B. Mathew, Genus *Lewisia*, 139. 1989. Typus: *L. oppositifolia* (S. Watson) B. L. Robinson.
- Lewisia** sect. **Pygmaea** B. Mathew, Genus *Lewisia*, 139. 1989. Typus: *L. pygmaea* (A. Gray) B. L. Robinson.
- Lewisia** subgen. **Strophium** B. Mathew, Genus *Lewisia*, 139. 1989. Typus: *L. tweedyi* (A. Gray) B. L. Robinson. Cf. *L.* sect. *Strophium* J. E. Hohn 1975, *nom. inval.*.
- Lewisia columbiana** ssp. **wallowensis** (C. L. Hitchcock) B. Mathew, Genus *Lewisia*, 101. 1989. Basionym: *Lewisia columbiana* var. *wallowensis*. [Name first used in the unpublished thesis of J. E. Hohn, 1975.]

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## Corrections to previous volumes

- The *Dudleya* names published by D. Nakai, reported to have been published in 1987 in RPS 38: 15, have in fact been published in January 1988 (according to a note on the publication dates on the index page for the volume).
- A reader, H. Heinig, has pointed out that several combinations by Rausch for former *Rebutias*, are cited with non-existent basionyms in RPS 38 and in Rausch's book "Lobivia 85". These are names in the genera *Digitorebutia* and *Aylosteria*, which have been published as *Rebutia* names with the additional generic name given in parentheses. Rausch has consistently used these parenthetical generic names in the citation of the basionyms. In accordance with ICBN Art. 33.2 Ex. 4, this is treated as a bibliographical error. However, the basionyms cited in RPS 38 are incorrect and should be *Rebutia* names. This is the case for the following combinations under *Lobivia*: *L. atrovirens* var. *huasiensis*, var. *raulii*, var. *yuquinensis*, var. *zecheri*; *L. haagei* var. *canacruzensis*, var. *mudanensis*, var. *pallida*; *L. nigricans* var. *carmeniana*; *L. pygmaea* var. *diersiana*, var. *friedrichiana*, var. *iscayachensis*, var. *minor*; *L. steinmannii* var. *camargoensis*, var. *christinae*, var. *cincinnata*, var. *rauschii*.  
The name *Lobivia haagei* var. *eos*, included as valid in RPS 38, is however invalid because of an error in the citation of the place of publication for the basionym.

## Korrekturen zu früheren Bänden

- Die von D. Nakai veröffentlichten *Dudleya*-Namen, für welche in RPS 38: 15 1987 als Publikationsjahr genannt wird, wurden erst im Januar 1988 veröffentlicht (entsprechend einem Hinweis auf die Publikationsdaten auf der Seite mit dem Inhaltsverzeichnis für den Band).
- Ein Leser, H. Heinig, hat darauf aufmerksam gemacht, dass einige der von Rausch in seinem Buch "Lobivia 85" für frühere *Rebutien* veröffentlichten Kombinationen auf falschen Basionymen beruhen. Dies betrifft die für die Gattungen *Digitorebutia* und *Aylosteria* angegebenen Namen, welche korrekt als *Rebutia* publiziert worden sind, allerdings mit dem zusätzlichen Gattungsnamen in Klammern. Rausch hat durchwegs diese in Klammern genannten Gattungsnamen für die Basionymzitate verwendet. Entsprechend dem ICBN, Art. 33.2, Bsp. 4, wird dies als bibliographischer Fehler behandelt. Die in RPS 38 genannten Basionyme sind jedoch falsch und es müssen die unter *Rebutia* publizierten Namen verwendet werden. Dies betrifft die folgenden Kombinationen unter *Lobivia*: *L. atrovirens* var. *huasiensis*, var. *raulii*, var. *yuquinensis*, var. *zecheri*; *L. haagei* var. *canacruzensis*, var. *mudanensis*, var. *pallida*; *L. nigricans* var. *carmeniana*; *L. pygmaea* var. *diersiana*, var. *friedrichiana*, var. *iscayachensis*, var. *minor*; *L. steinmannii* var. *camargoensis*, var. *christinae*, var. *cincinnata*, var. *rauschii*.  
Der Name *Lobivia haagei* var. *eos* jedoch, in RPS 38 als gültig betrachtet, ist wegen eines groben Fehlers im Zitat für den Publikationsort des Basionyms ungültig.





