



**Repertorium  
Plantarum  
Succulentarum  
XLII (1991)**





# Repertorium Plantarum Succulentarum XLII (1991)

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

International Organization for Succulent Plant Study  
Internationale Organisation für Sukkulente[n]forschung

September 1992

ISSN 0480-4271

### 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. 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.
- 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 Hintelegungsart 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.

Compiled by / Zusammengestellt von:

U. Egli, Städtische Sukkulente-Sammlung, Mythenquai 88, CH-8002 Zürich, Switzerland; and  
N. P. Taylor, The Herbarium, Royal Botanic Gardens Kew, Richmond, Surrey TW9 3AE, U.K.

Available from (incl. all back issues) / Erhältlich durch (inkl. alle bereits erschienen Hefte):  
IOS, c/o Städtische Sukkulente-Sammlung (address above / Adresse siehe oben).

© by IOS, Zürich (Switzerland) 1992.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of the copyright holder.

Alle Rechte vorbehalten. Kein Teil dieser Publikation darf ohne das vorherige schriftliche Einverständnis des Copyright-Inhabers in irgendeiner Form reproduziert, photokopiert oder auf Datenträgern bzw. in Datenbanken gespeichert oder verbreitet werden.



# NOMINA NOVA

## AGAVACEAE

- Agave** subgen. **Nizandensae** Ullrich, Succulenta 70(4): 91, 1991. Typus: *Agave nizandensis* Cutak.
- Dasyilirion wheeleri** var. **durangense** (Trelease) J. E. Laferrière, Ann. Missouri Bot. Gard. 78(2): 519, 1991. Basionym: *Dasyilirion durangense*.
- Furcraea longaeva** ssp. **bedinghausii** (Koch) Ullrich, Cact. Suc. Mex. 36(2): 35, in adnot. ad fig. 19, 1991. *Nom. inval.* (Art. 33.2), based on *Furcraea bedinghausii*.
- Manfreda chamelensis** E. Lott & S. Verhoek, Phytologia 70(5): 366-370, ills., 1991. Typus: *Lott et Wendt* 1663 (MICH, BH, CAS, MEXU).

## AIZOACEAE

- Cleretum lyratifolium** Ihlenfeldt & Struck, Beitr. Biol. Pfl. 61: 437-438, 1987. Typus: *Bayer* 2596 (HBG). [So far omitted from RPS.]
- Cleretum papulosum** ssp. **schlechteri** (Schwantes) Ihlenfeldt & Struck, Beitr. Biol. Pfl. 61: 440, 1987. Basionym: *Micropterum schlechteri*. [So far omitted from RPS.]
- Conophytum ratum** S. Hammer, Cact. Succ. J. (US) 63(2):67-69, ills., 1991. Typus: *Fritz* 534 (BOL).
- Conophytum smorenskaduense** ssp. **hermarium** S. Hammer, Bradleya 9: 112-113, ill., 1991. Typus: *Kennedy* s.n. (NBG, WAG).
- Conophytum tantillum** ssp. **helenae** (Rawe) S. Hammer, Cact. Succ. J. (US) 63(3): 140, 1991. Basionym: *Conophytum helenae*.
- Conophytum tantillum** ssp. **inexpectatum** S. Hammer, Cact. Succ. J. (US) 63(3): 140-142, ill., 1991. Typus: *Hartmann et Dehn* 19336 (HBG, NBG).
- Conophytum tantillum** ssp. **lindenianum** (Lavis & S. Hammer) S. Hammer, Cact. Succ. J. (US) 63(3): 140, 1991. Basionym: *Conophytum lindenianum*.
- Delosperma schimperi** (Engler) H. E. K. Hartmann & Niesler, Cact. Succ. J. (US) 63(3): 148, 1991. Basionym: *Mesembryanthemum schimperi*.
- Dorotheanthus bellidiformis** ssp. **hestermalensis** Ihlenfeldt & Struck, Beitr. Biol. Pfl. 61: 445-446, 1987. Typus: *Ihlenfeldt et Struck* 13315 (HBG). [So far omitted from RPS.]

## ALOEACEAE

- Aloe amicorum** Newton, Cact. Succ. J. (US) 63(2): 80-81, ills., 1991. Typus: *Newton* 3217 (K, EA).
- Gasteria** cv. **Little Warty** Kimmach & Trager, Cact. Succ. J. (US) 63(2): 75-76, ill., 1991. [A vigorous variegate of the hybrid *Gasteria*

- batesiana* × *G. gracilis*; = Huntington BG 61 936, distributed as ISI 91-45 in 1991.]
- Gasteria elaphiae** van Jaarsveld, Cact. Succ. J. (US) 63(1): 3-7, ills., 1991. Typus: *van Jaarsveld et al.* 9904 (NBG).
- Gasteria glomerata** van Jaarsveld, Bradleya 9: 100-104, ills., SEM-ills., 1991. Typus: *van Jaarsveld et Sardiën* 11054 (NBG).

## ARALIACEAE

- Cussonia paniculata** ssp. **sinuata** (Reyneke & Kok) De Winter, Flow. Pl. Afr. 51(2): t. 2024 + 6 pp. of text & ills., 1991. Basionym: *Cussonia paniculata* var. *sinuata*.

## ASCLEPIADACEAE

- Caralluma vaduliae** Lavranos, Cact. Succ. J. (US) 63(4): 170-172, ills., 1991. Typus: *Lavranos et al.* 23275 (UPS).
- Ceropegia lindenii** Lavranos, Cact. Succ. J. (US) 63(4): 168-171, ills., 1991. Typus: *Lavranos* 23222 (UPS, K, MO).
- Cynanchum gerrardii** (Harvey) Liede, Taxon 40(1): 117, 1991. Basionym: *Sarcocypphula gerrardii*.
- Hoya australis** ssp. **oramicola** P. I. Forster & Liddle, Austrobaileya 3(3): 516, 1991. Typus: *Russell-Smith et Lucas* 5812 (DNA).
- Hoya australis** ssp. **rupicola** (K. Hill) P. I. Forster & Liddle, Austrobaileya 3(3): 514, 1991. Basionym: *Hoya rupicola*.
- Hoya australis** ssp. **tenuipes** (K. Hill) P. I. Forster & Liddle, Austrobaileya 3(3): 512, 1991. Basionym: *Hoya oligotricha* ssp. *tenuipes*.
- Hoya edanoi** C. M. Burton, Hoyan 13(1: Part 2): 3, 1991. Typus: *Edaño* 11655 (A). [First invalidly (Art. 37.1, cf. RPS 41) published in l.c. 12(2: part 2): i, ills., 1990.]
- Hoya el-nidicus** Kloppenburg, Fratema 1991(4): Appendix I, ills., 1991. Typus: *Pancho* 41931 (CAHUP). [The spelling of the specific epithet is open to debate and reproduced here exactly as in the protologue. First invalidly (Art. 37.5) published l.c. (3): Appendix I.]
- Hoya endauensis** Kiew, Malayan Nat. J. 42: 261-265, 1989. Typus: *Kiew* 2746 (UPM). [Received at K 13. 5. 1991. Reprinted in Hoyan 13(1: Part 2): 16, 1992.]
- Hoya golamcoana** Kloppenburg, Fratema 1991(3): Appendix II, ills., 1991. Typus: *Pancho* 41930 (CAHUP). [Sphalm. 'golamcoiana'.]
- Hoya kentiana** C. M. Burton, Hoyan 12(3: Part II): iv, ills., 1991. Typus: *Ramos et Edaño* 28531 (US).
- Hoya latifolia** ssp. **kinabaluensis** C. M. Burton, Hoyan 12(3: Part II): iii-iv, 1991. Typus: *Clemens* 26727 (BO).

- Hoya lili** Burton, *Hoyan* 12(4): Part II: 98, 1991. [*Nom. nov. pro Centrostemma yunnanense* P. T. Li (non *Hoya yunnanensis* Handel-Mazzetti).]
- Hoya loheri** Kloppenburg, *Fraterna* 1991(3): Appendix III, ills., 1991. Typus: *Loher* s.n. (UC). [Sphalm. 'loherii'.]
- Hoya rizaliana** Kloppenburg, *Fraterna* 1991(3): Appendix IV, ills., 1991. Typus: *Loher* s.n. (UC). [Correction sheet issued with l.c. (4) as Appendix IV.]
- Hoya tsangii** C. M. Burton, *Hoyan* 13(1: part 2): 5, 1991. Typus: *Elmer* 13372 (US). [First invalidly published (Art. 7.3, 37.1, cf. RPS 39) in l.c. 9(4: part II): i-ii, ills., 1988.]
- Rhytidocaulon richardianum** Lavranos, *Cact. Succ. J. (US)* 63(4): 167-169, ills., 1991. Typus: *Lavranos et al.* 24895 (UPS).
- Sarcostemma arabicum** Bruyns & P. I. Forster, *Edinburgh J. Bot.* 48(3): 333-335, 1991. Typus: *Nasher* IH137 (E).

ASPHODELACEAE

- Bulbine cepacea** (N. L. Burman) Wijnands, *Bothalia* 21(2): 157, 1991. Basionym: *Ornithogalum cepaceum*.

CACTACEAE

- Arrojadoa dinae** var. **nana** P. J. Braun & E. Esteves Pereira, *Kakt. and. Sukk.* 42(8): 190-195, ills., SEM-ills., 1991. Typus: *Braun* 415 (ZSS).
- Arthrocaucus glaziovii** (Schumann) N. P. Taylor & Zappi, *Bradleya* 9: 85, 1991. Basionym: *Cereus glaziovii*.
- Browningia caineana** (Cardenas) D. Hunt, *Bradleya* 9: 85, 1991. Basionym: *Castellanosia caineana*.
- Cereus haageanus** (Backeberg) N. P. Taylor, *Bradleya* 9: 85, 1991. Basionym: *Monvillea haageana*.
- Cereus mirabella** N. P. Taylor, *Bradleya* 9: 85, 1991. Typus: *Ritter* 1238 loc. 3 (U). [*Nom. nov. pro Mirabella minensis* Ritter (non *Cereus minensis* Werdermann).]
- Cereus mortensenii** (Croizat) D. Hunt & N. P. Taylor, *Bradleya* 9: 85, 1991. Basionym: *Pilocereus mortensenii*.
- Cipocereus bradei** (Backeberg & Voll) Zappi & N. P. Taylor, *Bradleya* 9: 86, 1991. Basionym: *Pilocereus bradei*.
- Cipocereus crassisepalus** (Buining & Brederoo) Zappi & N. P. Taylor, *Bradleya* 9: 86, 1991. Basionym: *Cereus crassisepalus*.
- Cipocereus minensis** ssp. **pleurocarpus** (Ritter) N. P. Taylor & Zappi, *Bol. Bot. (São Paulo)* 12: 48, 1991. Basionym: *Cipocereus pleurocarpus*. [Dated 1990, received July 1991.]
- Cipocereus pusilliflorus** (Ritter) Zappi & N. P. Taylor, *Bradleya* 9: 86, 1991. Basionym: *Floribunda pusilliflora*.

- Cleistocactus sextonianus** (Backeberg) D. Hunt, *Bradleya* 9: 86, 1991. Basionym: *Cereus sextonianus*.
- Coleocephalocereus** subgen. **Simplex** N. P. Taylor, *Bradleya* 9: 18, 1991. Typus: *Coleocephalocereus goebelianus* (Vaupel) Buining.
- Coleocephalocereus aureus** ssp. **brevicylindricus** (Buining) P. J. Braun, *Kakt. and. Sukk.* 42(4): centre page pullout 1991/9, 1991. Basionym: *Buiningia brevicylindrica*.
- Coleocephalocereus aureus** ssp. **elongatus** (Buining) P. J. Braun, *Kakt. and. Sukk.* 42(4): centre page pullout 1991/9, 1991. Basionym: *Buiningia brevicylindrica* var. *elongata*.
- Coleocephalocereus aureus** var. **longispinus** (Buining) P. J. Braun, *Kakt. and. Sukk.* 42(4): centre page pullout 1991/9, 1991. Basionym: *Buiningia brevicylindrica* var. *longispina*.
- Coleocephalocereus fluminensis** var. **paulensis** (Ritter) P. J. Braun, *Kakt. and. Sukk.* 42(8): centre page pullout 1991/23, 1991. Basionym: *Coleocephalocereus paulensis*.
- Coryphantha salinensis** (Poselger) Bravo, *Cact. Mexico* 3: 461, 1991. *Nom. inval.* (Art. 34.1a), based on *Echinocactus salinensis*.
- Discocactus heptacanthus** ssp. **magnimammus** (Buining & Brederoo) N. P. Taylor & Zappi, *Bradleya* 9: 86, 1991. Basionym: *Discocactus magnimammus*.
- Discocactus pseudoinsignis** N. P. Taylor & Zappi, *Bradleya* 9: 86, 1991. Typus: *Zappi et al.* in CFCR 12045 (SPF). [= *Discocactus insignis sensu* Buining, *Gen. Discocactus*, 81-82, 1980, non Pfeiffer 1837.]
- Discocactus zehntneri** ssp. **boomianus** (Buining & Brederoo) N. P. Taylor & Zappi, *Bradleya* 9: 86, 1991. Basionym: *Discocactus boomianus*.
- Discocactus** subgen. **Ackermannia** (Schumann) Barthlott, *Bradleya* 9: 87, 1991. Basionym: *Phyllocactus* sect. *Ackermannia*.
- Discocactus** subgen. **Aporocactus** (Lemaire) Barthlott, *Bradleya* 9: 87, 1991. Basionym: *Aporocactus*.
- Discocactus** subgen. **Nopalxochia** (Britton & Rose) Barthlott, *Bradleya* 9: 88, 1991. Basionym: *Nopalxochia*.
- Discocactus** subgen. **Wittia** Barthlott, *Bradleya* 9: 88, 1991. Typus: *Wittia amazonica* Schumann. Based on *Wittia* Schumann 1903 (*nom. illeg.*, Art. 64.1).
- Discocactus ackermannii** (Lindley) Barthlott, *Bradleya* 9: 87, 1991. Basionym: *Cactus ackermannii*.
- Discocactus ackermannii** fa. **candidus** (Alexander) Barthlott, *Bradleya* 9: 87, 1991. Basionym: *Epiphyllum ackermannii* fa. *candidum*.
- Discocactus ackermannii** var. **conzattianus** (T. MacDougall) Barthlott, *Bradleya* 9: 87, 1991. Basionym: *Nopalxochia konzattiana*.
- Discocactus aurantiacus** (Kimmach) Barthlott, *Bradleya* 9: 87, 1991. Basionym: *Heliocereus aurantiacus*.
- Discocactus cinnabarinus** (Eichlam ex Weingart)



- Barthlott, Bradleya 9: 87, 1991. Basionym: *Cereus cinnabarinus*.
- Disocactus flagelliformis** (Linné) Barthlott, Bradleya 9: 87, 1991. Basionym: *Cactus flagelliformis*.
- Disocactus × hybridus** (van Géel) Barthlott, Bradleya 9: 88, 1991. Basionym: *Cactus hybridus*. [= *D. speciosus* × *D. phyllanthoides*.]
- Disocactus maddougallii** (Alexander) Barthlott, Bradleya 9: 88, 1991. Basionym: *Lobeira maddougallii*.
- Disocactus martianus** (Zuccarini) Barthlott, Bradleya 9: 88, 1991. Basionym: *Cereus martianus*.
- Disocactus phyllanthoides** (De Candolle) Barthlott, Bradleya 9: 88, 1991. Basionym: *Cactus phyllanthoides*.
- Disocactus schrankii** (Zuccarini ex Seitz) Barthlott, Bradleya 9: 87, 1991. Basionym: *Cereus schrankii*.
- Disocactus speciosus** (Cavanilles) Barthlott, Bradleya 9: 87, 1991. Basionym: *Cactus speciosus*.
- Disocactus speciosus** fa. **amecamensis** (Heese) Barthlott, Bradleya 9: 87, 1991. Basionym: *Cereus amecamensis*.
- Disocactus × violaceus** (F. & T. Smith ex Anonymus) Barthlott, Bradleya 9: 88, 1991. Basionym: *Phyllocactus violaceus*. [= *D. speciosus* × *D. ackermannii*.]
- Echinocactus gibbosus* var. **platensis** (Spegazzini) Lambert, Gymnos 8(15): 18, 1991. *Nom. inval.* (Art. 34.1(a)), based on *Echinocactus platensis*.
- Echinocereus dasyacanthus** var. **rectispinus** Trocha & Fethke, Echinocereenfreund 1991(2): 31-40, ills., 1991. Typus: *Trocha* s.n. (HBG). [First invalidly (Art. 36.1, 37.1) published in l.c. 1989(4): 89-99, ills.]
- Echinocereus pectinatus* var. **ctenoides** (Engelmann) Weniger ex G. R. W. Frank, Kakt. and. Sukk. 42(6): 140, 1991. *Nom. inval.* (Art. 33.2). [First published as cryptic new combination without basionym by Weniger, Cacti of the Southwest, 31, 1970.]
- Echinocereus triglochidiatus** var. **toroweapensis** P. C. Fischer, Cact. Succ. J. (US) 63(4): 194-195, ills., 1991. Typus: *Fischer* 7196 (ARIZ).
- Echinopsis caineana** (Cardenas) D. Hunt, Bradleya 9: 88, 1991. Basionym: *Lobivia caineana*.
- Echinopsis haematantha** (Spegazzini) D. Hunt, Bradleya 9: 88, 1991. Basionym: *Echinocactus haematanthus*.
- Echinopsis hertrichiana** (Backeberg) D. Hunt, Bradleya 9: 88, 1991. Basionym: *Lobivia hertrichiana*. [First used as nude combination in Walther et al., European Gard. Fl. 3: 242, 1989.]
- Echinopsis pampana** (Britton & Rose) D. Hunt, Bradleya 9: 88, 1991. Basionym: *Lobivia pampana*.
- Echinopsis sanguiniflora** (Backeberg) D. Hunt, Bradleya 9: 88, 1991. Basionym: *Lobivia sanguiniflora*.
- Echinopsis tiegeliana** (Wessner) D. Hunt, Bradleya 9: 88, 1991. Basionym: *Lobivia tiegeliana*.
- Echinopsis yuquina** D. Hunt, Bradleya 9: 88, 1991. [*Nom. nov. pro Lobivia rauschii* Zecher (non *Echinopsis rauschii* Friedrich).]
- Epiphyllum phyllanthus** var. **schnetteri** Peukert, Kakt. and. Sukk. 42(11): 252-255, (12): 276-281, ills., SEM-ills., 1991. Typus: *Schnetter* s.n. (COL 256856, GI 6007).
- Glandulicactus mathssonii** (Berge ex Schumann) D. J. Ferguson, Cact. Succ. J. (US) 63(2): 91, 1991. Basionym: *Echinocactus mathssonii*.
- Glandulicactus wrightii** (Engelmann) D. J. Ferguson, Cact. Succ. J. (US) 63(2): 89, 1991. Basionym: *Echinocactus uncinatus* var. *wrightii*.
- Gymnocalycium damsii** var. **multipliferum** P. J. Braun, Kakt. and. Sukk. 42(10): 228-231, ills., 1991. Typus: *Braun* 230 (ZSS, B, ZSS).
- Gymnocalycium riojense** Fric ex H. & W. Till, AG Gymnocalycium 4(2): 47-49, ills., 1991. Typus: *Till* 88-122 (WU). [First used as name only by Fric, Kakteenjäger zu Hause, c. 1928; then invalidly published by Pazout in Pazout, Valnicek & Subik, Kaktusy, 132, 1960 (sphalm. 'riochense'; and erroneously reported as valid in RPS 12).]
- Gymnocalycium riojense** ssp. **kozelskianum** B. Schütz ex H. & W. Till, AG Gymnocalycium 4(3): 52-53, ills., 1991. Typus: *Till* 87-90 (WU). [First invalidly published as *G. kozelskianum* B. Schütz (1966).]
- Gymnocalycium riojense** ssp. **paucispinum** Backeberg ex H. & W. Till, AG Gymnocalycium 4(4): 55-56, ills., 1991. Typus: *Till* 87-8 (WU). [First invalidly described as *G. asterium* var. *paucispinum* Backeberg (1966).]
- Gymnocalycium riojense** ssp. **piltziorum** Schütz ex H. & W. Till, AG Gymnocalycium 4(3): 51-52, ills., 1991. Typus: *Till* 88-174 (WU). [*G. piltziorum* Schütz is interpreted as invalidly published.]
- Gymnocalycium riojense** var. **guasayanense** Strigl, AG Gymnocalycium 4(4): 57, 1991. Typus: *Strigl* 89-273 (WU).
- Gymnocalycium riojense** var. **guthianum** H. & W. Till, AG Gymnocalycium 4(2): 49-50, ills., 1991. Typus: *Till* 87-16 (WU).
- Gymnocalycium riojense** var. **mirandaense** H. & W. Till, AG Gymnocalycium 4(3): 53, ills., 1991. Typus: *Till* 87-89 (WU). [Varietal epithet probably correctable to 'mirandense'.]
- Gymnocalycium riojense** var. **pipanacoense** H. & W. Till, AG Gymnocalycium 4(2): 50, ills., 1991. Typus: *Till* 87-43 (WU).
- Gymnocalycium riojense** var. **platygonum** B. Schütz ex H. & W. Till, AG Gymnocalycium 4(4): 56-57, ills., 1991. Typus: *Till* 87-7 (WU). [First mentioned as *G. platygonum* B. Schütz (1988).]
- Gymnocalycium riojense** var. **sanjuanense** H. & W. Till, AG Gymnocalycium 4(3): 54, ills.,

1991. Typus: *Neuhuber* 88/14 (WU).
- Harrisia donae-antoniae** M. L. Hooten, Cact. Succ. J. (US) 63(2): 64-66, ills., map, 1991. Typus: *Hooten* s.n. (US, FTG).
- Harrisia serruliflora** (Haworth) Lourteig, *Bradea* 5(44): 408, 1991. Basionym: *Cereus serruliflorus*.
- Hylocereus plumieri** (Roland-Gosselin) Lourteig, *Bradea* 5(44): 406, 1991. Basionym: *Cereus plumieri*.
- Lepismium bolivianum** (Britton) Barthlott, *Bradleya* 9: 89, 1991. Basionym: *Hariota boliviana*. [First invalidly (Art. 33.2) published by Ewald in *Epiphytes* 7(28): 79, 93, 1983 (cf. RPS 34).]
- Lepismium lineare** (Schumann) Barthlott, *Bradleya* 9: 89, 1991. Basionym: *Rhipsalis linearis*.
- Leptocereus paniculatus** (Lamarck) D. Hunt, *Bradleya* 9: 89, 1991. Basionym: *Cactus paniculatus*.
- Lobivia backebergii* var. *capinotensis* Hort. ex Herzog, *Kakt. / Sukk.* 25: 80-81, 1991. *Nom. inval.* (Art. 36.1, 37.1). [Vol. for 1990. Published as provisional name.]
- Lobivia prestoana** var. *draxleriana* (Rausch) Sida, *Atlas Kaktusu* 4: 26, ill., 1990. Basionym: *Lobivia draxleriana*. [Dated 1989, published c. mid-1990. Erroneously omitted from RPS so far.]
- Mammillaria** ser. *Guelzowianae* Keizer, *Succulenta* 70(6): 125-126, 1991. Typus: *Mammillaria guelzowiana* Werdermann. Placed in subgen. *Cryptocarpa* (*nom. illeg.*, cf. RPS 41).
- Mammillaria** ser. *Napinae* Keizer, *Succulenta* 70(6): 125, 1991. Typus: *Mammillaria napina* J. A. Purpus. Placed in subgen. *Cryptocarpa* (*nom. illeg.*, cf. RPS 41).
- Mammillaria amajacensis* Brachet, Lacoste & Otero, *J. Mammillaria Soc.* 31(1): 6-7, ill., 1991. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Mammillaria antesbergeriana** A. Lau, *Cact. Succ. J. (US)* 63(1): 17-19, ills., SEM-ills., 1991. Typus: *Lau* 1163 (ZSS). [Type erroneously cited as 'Lau 1136' instead of 'Lau 1163'; cf. Appenzeller, *Mitteilungsbl. AfM* 15(6): 251, 1991 [publ. 1992].]
- Mammillaria bocasana** cv. *Michael Peachey* G. Barker, *Cact. Succ. J. (Australia)* 17(12): [page unknown], 1989. [Cited from the German translation published in *Mitteilungsbl. AfM* 15(2): 78-79, 1991. A form with rose-red coloured epidermis.]
- Mammillaria carmenae* cv. *Roseiflora* Dehn, *Kakt. / Sukk.* 25(1/2): 13-15, ills., 1991. *Nom. inval.* (Art. 34.1). [Dated 1990, published c. May 1991. Here treated as cultivar. Published as "catalogue name" and probably relating to plants showing introgression (in cult.) from *Mammillaria laui* Hunt fa. *dasyacantha* Hunt.]
- Mammillaria decipiens** var. *albescens* (Tiegel) Reppenhagen, *Gattung Mammillaria*, 66, 1987. Basionym: *Mammillaria albescens*. [Omitted previously.]
- Mammillaria droegeana* Hildmann ex Reppenhagen, *Gattung Mammillaria*, 62, 1987. Based on *Reppenhagen* 1819. *Nom. inval.* (Art. 36.1). [Omitted from RPS so far. Based on a catalogue name by Hildmann; the status of the name is uncertain; Schumann published *M. rhodantha* var. *droegeana*, which was elevated to species rank by Borg.]
- Mammillaria fuscohamata** Backeberg ex Reppenhagen, *Gattung Mammillaria* 1: 182-183, ills., 1991. Typus: *Reppenhagen* 638 (KL) [The holotype is erroneously given as 'neotype']. [First invalidly (Art. 9.5) published by Backeberg, *Die Cact.* 6: 3897, 1962, and erroneously included as valid in RPS 13.]
- Mammillaria hutchisoniana** var. *bullardiana* (Gates) Reppenhagen, *Gattung Mammillaria*, 1: 134, 1991. Basionym: *Neomammillaria hutchisoniana*.
- Mammillaria microcarpa** cv. *Oliviae* (Orcutt) Mottram, *J. Mammillaria Soc.* 31(2): 26, 1991. Basionym: *Mammillaria oliviae*. [Binomial has been treated as invalid under Art. 34.]
- Mammillaria microcarpa** ssp. *grahamii* (Engelmann) Mottram, *J. Mammillaria Soc.* 31(2): 26, 1991. Basionym: *Mammillaria grahamii*. [Binomial has been treated as invalid under Art. 34.]
- Mammillaria mystax* var. *huajuapensis* (Bravo) Linzen, *Mitteilungsbl. AfM* 15(2): 62, 1991. *Nom. inval.* (Art. 33.2, 34.1?), based on *Mammillaria huajuapensis*.
- Mammillaria rayonesensis** Reppenhagen, *Gattung Mammillaria*, 1: 260-261, ill., 1991. Typus: *Reppenhagen* 1290 (KL). [Sphalm. 'rayonesensis'.]
- Mammillaria schelhasei** var. *aurihamata* (Bödeker) Reppenhagen, *Gattung Mammillaria* 1: 246, 1991. Basionym: *Mammillaria aurihamata*. [Sphalm. 'schelhasii'.]
- Mammillaria spinosissima* fa. *tepoztlanensis* Bravo, *Cact. Mex.*, ed. 2, 3: 196, 1991. *Nom. inval.* (Art. 34.1, 36.1). [Published as provisional name.]
- Mammillaria tepexicensis** Meyrán, *Cact. Suc. Mex.* 36(3): 62-64, 72, ills., 1991. Typus: *Otero* 177 (MEXU 515426, ENCB). [Mottram (*J. Mammillaria Soc.* 32: 27, 1992) suggests a correction of the specific epithet to 'tepexici'.]
- Mammillaria wrightii** var. *wolfii* (D. Hunt) Reppenhagen, *Gattung Mammillaria*, 1: 99, 1991. Basionym: *Mammillaria wrightii* fa. *wolfii*.
- Melocactus andinus** Gruber ex N. P. Taylor, *Bradleya* 9: 63-65, ills., 1991. Typus: *Taylor* 600A (MY, K).
- Melocactus azureus** ssp. *ferreophilus* (Buning & Brederoo) N. P. Taylor, *Bradleya* 9: 40, 1991. Basionym: *Melocactus ferreophilus*.
- Melocactus bahiensis** fa. *acispinosus* (Buning &



- Brederoo) N. P. Taylor, *Bradleya* 9: 28, 1991. Basionym: *Melocactus acispinosus*.
- Melocactus bahiensis** fa. **inconcinus** (Buining & Brederoo) N. P. Taylor, *Bradleya* 9: 30, 1991. Basionym: *Melocactus inconcinus*.
- Melocactus bahiensis** ssp. **amethystinus** (Buining & Brederoo) N. P. Taylor, *Bradleya* 9: 30, 1991. Basionym: *Melocactus amethystinus*.
- Melocactus bellavistensis** ssp. **onychacanthus** (Ritter) N. P. Taylor, *Bradleya* 9: 66, 1991. Basionym: *Melocactus onychacanthus*.
- Melocactus caroli-linnaei** N. P. Taylor, *Bradleya* 9: 78-79, 1991. Neotypus: *Proctor 37757* (K). [*Nom. nov. pro Cactus melocactus* Linné.]
- Melocactus curvispinus** fa. **caesius** (Wendland) N. P. Taylor, *Bradleya* 9: 75, 1991. Basionym: *Melocactus caesius*.
- Melocactus curvispinus** fa. **lobelii** (Suringar) N. P. Taylor, *Bradleya* 9: 76, 1991. Basionym: *Melocactus lobelii*.
- Melocactus curvispinus** ssp. **caesius** (Wendland) N. P. Taylor, *Bradleya* 9: 75, 1991. Basionym: *Melocactus caesius*.
- Melocactus curvispinus** ssp. **dawsonii** (Bravo) N. P. Taylor, *Bradleya* 9: 77, 1991. Basionym: *Melocactus dawsonii*.
- Melocactus ernestii** ssp. **longicarpus** (Buining & Brederoo) N. P. Taylor, *Bradleya* 9: 26, 1991. Basionym: *Melocactus longicarpus*.
- Melocactus laui** Antesberger, *Cact. Succ. J. (US)* 63(5): 241-243, ill., 1991. Typus: *Antesberger 40* (SZU).
- Melocactus pachyacanthus** ssp. **viridis** N. P. Taylor, *Bradleya* 9: 40-41, t. 16, 1991. Typus: *Taylor & Zappi in Harley 27400* (CEPEC, K, SPF).
- Melocactus roraimensis** P. J. Braun & E. Esteves Pereira, *Cact. Succ. J. (US)* 63(1): 12-16, ill., 1991. Typus: *Esteves Pereira 280* (UFG 12389).
- Melocactus violaceus** ssp. **margaritaceus** N. P. Taylor, *Bradleya* 9: 57-58, 1991. Typus: *Rizzini et Mattos s.n. (RB 215018)*. [Based on *Melocactus margaritaceus* Rizzini 1982 (*nom. inval.* Art. 37.1).]
- Melocactus violaceus** ssp. **ritteri** N. P. Taylor, *Bradleya* 9: 57, ill., 1991. Typus: *Ritter 1209a* (U 531256). [*Nom. nov. pro Melocactus macrodiscus* var. *minor* Ritter.]
- Micranthocereus** subgen. **Austrocephalocereus** (Backeberg) P. J. Braun & E. Esteves Pereira, *Succulenta* 70(3): 65, 1991. Basionym: *Austrocephalocereus*.
- Micranthocereus** subgen. **Siccobaccatus** (P. J. Braun & Esteves Pereira) N. P. Taylor, *Bradleya* 9: 89, 1991. Basionym: *Siccobaccatus*.
- Neochilenia monte-amargensis* Backeberg ex Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 146, 1991. Typus: [icon] Backeberg, *Kakt.-Lex.*, p. 632, fig. 259. *Nom. inval.* (Art. 32.3, 34.1). [First published invalidly (Art. 9.5) by Backeberg in *Descr. Cact. Nov.* 3: 8, 1963, and erroneously included as valid in RPS 14.]
- Neoporteria atroviridis** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 140, 1991. Basionym: *Pyrrhocactus atroviridis*.
- Neoporteria echinus** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 142, 1991. Basionym: *Pyrrhocactus echinus*.
- Neoporteria echinus** var. **floccosa** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 142, 1991. Basionym: *Pyrrhocactus floccosus*.
- Neoporteria eriosyzoides** var. **domeykoensis** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 142, 1991. Basionym: *Pyrrhocactus eriosyzoides* var. *domeykoensis*.
- Neoporteria garaventae** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 143, 1991. Basionym: *Horridocactus garaventae*. [Sphalm. 'garaventai'. The name given as basionym was itself a combination and is here corrected.]
- Neoporteria heinrichiana** (Backeberg) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 143, 1991. Basionym: *Horridocactus heinrichianus*. [Name first used by K. Knize in catalogues.]
- Neoporteria limariensis** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 144, 1991. Basionym: *Pyrrhocactus limariensis*.
- Neoporteria neohankeana** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 145, 1991. Basionym: *Pyrrhocactus neohankeanus*.
- Neoporteria odieri** var. **malleolata** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 146, 1991. Basionym: *Chileorebutia malleolata*.
- Neoporteria odieri* var. **monte-amargensis** (Backeberg) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 146, 1991. *Nom. inval.*, based on *Neochilenia monte-amargensis*, *nom. inval.* (Art. 32.3, 34.1).
- Neoporteria omasensis** (Ostolaza & Mischler) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 147, 1991. Basionym: *Islaya omasensis*.
- Neoporteria pulchella** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 147, 1991. Basionym: *Pyrrhocactus pulchellus*.
- Neoporteria reichei** var. **aerocarpa** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 147, 1991. Basionym: *Chileorebutia aerocarpa*.
- Neoporteria subgibbosa** var. **castanea** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 148, 1991. Basionym: *Neoporteria castanea*.
- Neoporteria totoralensis** var. **carrizalensis** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 149, 1991. Basionym: *Pyrrhocactus carrizalensis*.
- Neoporteria transiens** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 149, 1991. Basionym: *Pyrrhocactus transiens*.
- Neoporteria transitensis** (Ritter) Ferryman, in R. & K. Preston-Mafham, *Cacti Ill. Dict.*, 149, 1991. Basionym: *Pyrrhocactus transitensis*.

- [Name first used by A. Hofer in catalogues.]  
**Notocactus** subgen. **Gymnocephalus** Backeberg ex Sida, *Minimus* 1991(1-3): 30, 1991. Typus: *Notocactus ottonis* (Lehmann) A. Berger ex Backeberg. Name first used by Backeberg 1935 (*nom. inval.* Art. 36.1).  
*Notocactus carambeiensis* var. *villa-velhensis* (Backeberg & Voll) Sida, *Internoto* 12(1): 32, 1991. *Nom. inval.* (Art. 33.2), based on *Notocactus ottonis* var. *villa-velhensis*.  
*Notocactus concinnus* var. *yerbalütensis* Prauser, *Internoto* 12(2): 58-62, *ills.*, 1991. Based on van Vliet 9/m/68. *Nom. inval.* (Art. 36.1). [Published as nude name.]  
*Notocactus eurypleurus* Prestlé, *Minimus* 1991(1-3): 43-46, *ills.*, 1991. Based on Prestlé 255. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]  
**Notocactus glomeratus** Gerloff, *Internoto* 12(1): 3-10, *ills.*, 1991. Typus: *Stockinger* 249 (ZSS). [First mentioned invalidly (Art. 36.1, 37.1) in l.c. 10(1): 8, 1989 by Menges (cf. RPS 40).]  
**Notocactus megapotamicus** var. **flavispinus** (Buining & Brederoo) Abraham & Büneker, *Kakt. and. Sukk.* 43(1): 21, 1991. Basionym: *Notocactus linkii* var. *flavispinus*. [Dated 1992 but published mid-December 1991.]  
**Notocactus megapotamicus** var. **multicolorispinus** Abraham & Büneker, *Kakt. and. Sukk.* 43(1): 20-22, *ills.*, 1991. Typus: *Büneker* 202 (KOELN [Succulentarium]). [Dated 1992 but published mid-December 1991.]  
**Opuntia saxatilis** (Ritter) P. J. Braun & E. Esteves Pereira, *Cact. Succ. J. (US)* 63(2): 82, 1991. Basionym: *Platyopuntia saxatilis*.  
**Opuntia saxatilis** var. **occibahiensis** P. J. Braun & E. Esteves Pereira, *Cact. Succ. J. (US)* 63(6): 311-315, *ills.*, 1991. Typus: *Esteves Pereira* 188 (UFG 12.376).  
**Opuntia saxatilis** var. **pomosa** P. J. Braun & E. Esteves Pereira, *Cact. Succ. J. (US)* 63(3): 124-129, *ills.*, 1991. Typus: *Esteves Pereira* 156 (UFG 12.368, ZSS).  
**Oreocereus pseudofossulatus** D. Hunt, *Bradleya* 9: 89, 1991. Typus: *Ritter* 100 (K) [Ex cult. R. Mottram RM 4.1.]. [*Nom. nov. pro Cleistocactus fossulatus* Mottram.]  
**Pachycereus fulviceps** (F. A. C. Weber ex Schumann) D. Hunt, *Bradleya* 9: 89, 1991. Basionym: *Pilocereus fulviceps*.  
**Pachycereus gatesii** (M. E. Jones) D. Hunt, *Bradleya* 9: 89, 1991. Basionym: *Lophocereus gatesii*.  
**Parodia aconquijaensis** Weskamp, *Kakt. and. Sukk.* 42(4): 90-91, *ill.*, 1991. Typus: *Herzog* 123 (WU).  
*Pelecypora pulcherrima* Sabatini, *Piante Grasse* 11(1): 26, *ill.*, 1991. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]  
**Peniocereus hirschtianus** (Schumann) D. Hunt, *Bradleya* 9: 90, 1991. Basionym: *Cereus hirschtianus*.  
**Peniocereus lazaro-cardenasii** (J. Contreras & al.) D. Hunt, *Bradleya* 9: 90, 1991. Basionym: *Neoevansia lazaro-cardenasii*.  
**Peniocereus oaxacensis** (Britton & Rose) D. Hunt, *Bradleya* 9: 90, 1991. Basionym: *Nyctocereus oaxacensis*.  
**Pilosocereus robinii** var. **deeringii** (Small) Kartesz & Gandhi, *Phytologia* 71(4): 276, 1991. Basionym: *Cephalocereus deeringii*.  
**Pseudorhipsalis horichii** (Kimmach) Barthlott, *Bradleya* 9: 90, 1991. Basionym: *Disocactus horichii*.  
**Pseudorhipsalis lankesteri** (Kimmach) Barthlott, *Bradleya* 9: 90, 1991. Basionym: *Disocactus lankesteri*.  
**Pseudorhipsalis ramulosa** (Salm-Dyck) Barthlott, *Bradleya* 9: 90, 1991. Basionym: *Cereus ramulosus*.  
**Pseudorhipsalis ramulosa** fa. **angustissima** (F. A. C. Weber) Barthlott, *Bradleya* 9: 90, 1991. Basionym: *Rhipsalis angustissima*.  
**Rhipsalidopsis rosea** var. **riograndensis** Prestlé, *Succulenta* 70(5): 104-108, *ills.*, 1991. Typus: *Prestlé et Stockinger* 427 (U).  
**Schlumbergera kautskyi** (Horobin & McMillan) N. P. Taylor, *Bradleya* 9: 90, 1991. Basionym: *Schlumbergera truncata* ssp. *kautskyi*.  
**Schlumbergera truncata** ssp. **kautskyi** Horobin & McMillan, *Epiphytes* 15(57): 8-9, SEM-*ills.*, 1991. Typus: *Kautsky* s.n. (BONN 67558) [preserved ?]. [First described as *S. truncata* var. *kautskyi* Horobin & McMillan in l.c. 14(56): 111-115, *ill.*, 1990 (*nom. inval.*, Art. 37.1)]  
**Sclerocactus brevihamatus** (Engelmann) D. Hunt, *Bradleya* 9: 91, 1991. Basionym: *Echinocactus brevihamatus*.  
**Selenicereus chontalensis** (Alexander) Kimmach, *Bradleya* 9: 91, 1991. Basionym: *Nyctocereus chontalensis*.  
**Selenicereus chrysocardium** (Alexander) Kimmach, *Bradleya* 9: 91, 1991. Basionym: *Epiphyllum chrysocardium*.  
**Stenocereus fimbriatus** (Lamarck) Lourteig, *Bradea* 5(44): 408, 1991. Basionym: *Cactus fimbriatus*.  
**Stephanocereus** subgen. **Lagenopsis** (Buxbaum) N. P. Taylor & Egli, *Bradleya* 9: 91, 1991. Basionym: *Coleocephalocereus* subgen. *Lagenopsis*.  
**Stephanocereus luetzelburgii** (Vaupel) N. P. Taylor & Egli, *Bradleya* 9: 91, 1991. Basionym: *Cereus luetzelburgii*.  
**Sulcorebutia breviflora** subvar. **viridior** Diers, *Kakt. and. Sukk.* 42(4): 101, *ills.* (pp. 98-99), 1991. Typus: *Lau* 313 (KOELN [Succulentarium ?]).  
**Sulcorebutia breviflora** var. **haseltonii** (Cardenas) Diers, *Kakt. and. Sukk.* 42(4): 98, 1991. Basionym: *Rebutia haseltonii*.  
**Sulcorebutia breviflora** var. **laui** Diers, *Kakt. and. Sukk.* 42(4): 100-101, *ills.*, 1991. Typus: *Lau* 314 (KOELN [Succulentarium ?]).  
**Sulcorebutia canigueratii** fa. **applanata** (Donald & Krahn) Gertel, *Kakt. and. Sukk.* 42(7): 175, 1991. *Nom. inval.* (Art. 34.1), based on



- Sulcorebutia verticillacantha* var. *applanata*.  
*Sulcorebutia canigueralii* fa. *perplexiflora* (F. Brandt) Gertel, Kakt. and. Sukk. 42(7): 175, 1991. *Nom. inval.* (Art. 34.1), based on *Weingartia perplexiflora*.
- Sulcorebutia pasopayana** (F. Brandt) Pilbeam ex Gertel, Kakt. and. Sukk. 42(7): 176, 1991. Basionym: *Weingartia pasopayana*. [First invalidly (Art. 34.1a) proposed by Pilbeam in *Sulcorebutia* & *Weingartia*, 68, 1985 (cf. RPS 36).]
- Sulcorebutia steinbachii* fa. *violaciflora* (Backeberg) Sida, Atlas Kaktusu 5: 57, ill., 1991. *Nom. inval.*, based on *Sulcorebutia steinbachii* var. *violaciflora*, *nom. inval.* (Art. 37.1). [Dated 1990, published early in 1991.]
- Thelocactus leucacanthus** fa. **krainzianus** (Oehme) Nagl, Kakt. and. Sukk. 42(8): 183, ill., 1991. Basionym: *Thelocactus krainzianus*.
- Turbincarpus gautii** (L. Benson) A. Zimmerman, Bradleya 9: 91, 1991. Basionym: *Neolloydia gautii*. [Syn. *Echinocactus beguinii* Schumann, *p.p. typ. excl.*]
- Turbincarpus hoferi** Lüthy & A. Lau, Kakt. and. Sukk. 42(2): 34-37, (3): 62-65, ill., SEM-ills., 1991. Typus: *Hofer* 434 (ZSS).
- Turbincarpus mandragora** (Fric ex A. Berger) A. Zimmerman, Bradleya 9: 92, 1991. Basionym: *Echinocactus mandragora*.
- Turbincarpus pseudomacrolele** var. **lausseri** Diers & G. Frank, Kakt. and. Sukk. 42(5): 106-109, ill., SEM-ills., 1991. Typus: *Lausser* s.n. (KOELN). [No collection is actually given as type, which is cited for KOELN, the information given here is extracted "by inference".]
- Turbincarpus subterraneus** (Backeberg) A. Zimmerman, Bradleya 9: 92, 1991. Basionym: *Echinocactus subterraneus*. [Basionym incorrectly given and here corrected.]
- CRASSULACEAE**
- Crassula** cv. **Pink Pyramid** Kimmach & Trager, Cact. Succ. J. (US) 63(2): 75, ill., 1991. [= *Crassula falcata* × *C. 'Starburst'*; = Huntington BG 60000, distributed as ISI 91-41 in 1991.]
- Echeveria bakeri** Kimmach, Cact. Succ. J. (US) 63(5): 254-257, ill., 1991. Typus: *Baker* 5159 (HNT, LP, MO, US).
- Echeveria olivacea** Moran, Cact. Suc. Mex. 36(3): 51-55, ill., 1991. Typus: SD 129113 [Ex cult. San Diego 1963 / 1964.].
- × **Graptosedum** cv. **Francesco Baldi** Stephenson, Sedum Soc. Newslett. 19: 19, ill., 1991. [= *Graptopetalum paraguayense* × *Sedum* sp.; parentage not ascertained.]
- Hylotelephium verticillatum** var. **lithophilos** H. Ohba, J. Jap. Bot. 66(2): 63-65, ill., 1991. Typus: *Ohashi et al.* s.n. (TI).
- Orostachys iwawange** cv. **Natsu Fuji** Kimmach & Trager, Cact. Succ. J. (US) 63(2): 77, 1991. [A spontaneous sporadic mutation of *Orostachys iwawange* 'Fuji'; = Huntington BG 68821, distributed as ISI 91-54 in 1991.]
- Orostachys jiuhuaensis** X.-H. Guo & X.-L. Liu, Bull. Bot. Res. North-East Forestry Inst. 11(1): 29-31, 1991. Typus: *Liu* 85986 (Herb. Wuhu School Trad. Chin. Med.).
- Rhodiola gannanica** K.-T. Fu, Acta Bot. Bor.-Occid. Sin. 11(2): 170, ill., 1991. Typus: *Fu* 1311 (NW Inst. Bot. Shaanxi).
- Sedum** cv. **Pearson's Puzzle** D. Jackson, Sedum Soc. Newslett. 20: 16-22, 1992. [Probably a vigorous form of *Sedum tortuosum*.]
- Sedum** ser. **Aithales** (Webb & Berthelot) 't Hart, Fl. Medit. 1: 54, 1991. Basionym: *Aithales*.
- Sedum** ser. **Anglica** 't Hart, Fl. Medit. 1: 53, 1991. Typus: *Sedum anglicum* Hudson.
- Sedum** ser. **Confertiflora** 't Hart, Fl. Medit. 1: 55, 1991. Typus: *Sedum confertiflorum* Boissier.
- Sedum** ser. **Dasyphylla** 't Hart, Fl. Medit. 1: 55, 1991. Typus: *Sedum dasyphyllum* Linné.
- Sedum** ser. **Magellensia** 't Hart, Fl. Medit. 1: 58-59, 1991. Typus: *Sedum magellense* Tenore.
- Sedum** ser. **Melananthera** 't Hart, Fl. Medit. 1: 53, 1991. Typus: *Sedum melanantherum* De Candolle.
- Sedum** ser. **Monregalensia** 't Hart, Fl. Medit. 1: 56, 1991. Typus: *Sedum monregalense* Balbis.
- Sedum** ser. **Pedicellata** 't Hart, Fl. Medit. 1: 56, 1991. Typus: *Sedum pedicellatum* Boissier & Reutiner.
- Sedum** ser. **Samia** 't Hart, Fl. Medit. 1: 54, 1991. Typus: *Sedum samium* Runemark & Greuter.
- Sedum** ser. **Sedella** (Fourreau) 't Hart, Fl. Medit. 1: 57, 1991. *Nom. inval.* (Art. 32.1, 64.1). [Non *Sedum* ser. *Sedella* (Britton & Rose) A. Berger. Based on *Sedella* Fourreau, *nom. inval.*.]
- Sedum** ser. **Stefco** 't Hart, Fl. Medit. 1: 58, 1991. Typus: *Sedum stefco* Stefanoff.
- Sedum** ser. **Subrosea** 't Hart, Fl. Medit. 1: 59, 1991. Typus: *Sedum villosum* Linné. *Nom. nov. pro Sedum* ser. *Villosa* Clausen 1975 non Borissova 1969.
- Sedum** ser. **Subulata** 't Hart, Fl. Medit. 1: 58, 1991. Typus: *Sedum subulatum* (C. A. Meyer) Boissier.
- Sedum aizoon** fa. **latifolium** (Maximowicz) Y. C. Zhu, Pl. Medic. Chinae Bor.-Orient., 484, 1989. Basionym: *Sedum aizoon* var. *latifolium*.
- Sedum chrysauculum** J. A. McDonald, Sida 14(3): 315-319, 1991. Typus: *McDonald et Mayfield* 2556 (TEX, MEXU, NY, UAT).
- Sedum erici-magnusii** ssp. **chillianense** K.-T. Fu, Acta Bot. Bor.-Occid. Sin. 11(2): 170, ill., 1991. Typus: *Wang* 12865 (NW Inst. Bot. Shaanxi).
- Sedum euxinum** 't Hart & Alpinar, Acta Bot. Neerl. 40: 357-361, 1991. Typus: *Alpinar et 't Hart* AH504 (ISTE, U).
- Sedum oculense** Meyran, Cact. Suc. Mex. 36(4): 92-96, ill., 1991. Typus: *Bonilla* s.n. in *Meyran* 5061 (MEXU, ENCB).
- Sedum samium** ssp. **micranthum** 't Hart & Alpinar, Willdenowia 21: 150-152, 1991.

Typus: 't Hart AH60 (ISTE, U).

**Villadia acuta** Moran & Uhl, *Cact. Succ. J. (US)* 63(4): 200-202, ill., 1991. Typus: *Kinnach* 296 (BH 372699, HNT, SD) [Ex cult.].

**Villadia patula** Moran & Uhl, *Cact. Suc. Mex.* 36(2): 27-30, ill., 1991. Typus: *Moran et Kinnach* 7655 (SD 56962, CU, HNT, etc.).

#### DIOSCOREACEAE

**Dioscorea basiclavicaulis** Rizzini & Mattos-Filho, *Rev. Brasil. Biol.* 46(2): 317-319, ill., 1986. Typus: *Rizzini et Mattos-Filho* s.n. (RB 215.073). [Previously omitted.]

#### EUPHORBIACEAE

**Euphorbia annamariae** Rauh, *Euphorbia J. 7:* 20-23, ill., 1991. Typus: *Rauh et Buchloh* 7557 (HEID).

**Euphorbia bulbispina** Rauh & Razafindratsira, *Euphorbia J. 7:* 31-33, ill., 1991. Typus: *Razafindratsira* s.n. in BG Heidelberg 68664 (HEID).

**Euphorbia cremersii** Rauh & Razafindratsira, *Euphorbia J. 7:* 23-26, ill., 1991. Typus: *Razafindratsira* s.n. in BG Heidelberg 68506 (HEID).

**Euphorbia cremersii** fa. *viridifolia* Rauh, *Euphorbia J. 7:* 25-27, ill., 1991. Typus: *Razafindratsira* s.n. in BG Heidelberg 68506/a (HEID).

**Euphorbia herman-schwartzii** Rauh, *Cact. Succ. J. (US)* 63(5): 246-249, ill., 1991. Typus: *Rauh* 72125 (HEID, P).

**Euphorbia lophogona** var. *tenuicaulis* Rauh, *Euphorbia J. 7:* 23-24, ill., 1991. Typus: *Rauh* 68607 (HEID).

**Euphorbia milii** var. *tenuispina* Rauh & Razafindratsira, *Euphorbia J. 7:* 34-35, ill., 1991. Typus: *Razafindratsira* s.n. in BG Heidelberg 68736 (HEID).

**Euphorbia moratii** var. *multiflora* Rauh, *Euphorbia J. 7:* 27-30, ill., 1991. Typus: *Anonymus* s.n. in *Specks* 602 (HEID).

**Euphorbia umfoloziensis** Peckover, *Aloe* 28(2): 36-39, ill., 1991. Typus: *Peckover* s.n. (PRE).

**Euphorbia vajravelui** Binoj Kumar & Balakrishnan, *Cact. Succ. J. (US)* 63(5): 229-231, ill., 1991. Typus: *Binoj Kumar* 93914 (CAL, MH).

#### FOUQUIERIACEAE

**Fouquieria splendens** fa. *albiflora* Lodé, *Cact. Aventures* No. 11: 6-7, ill., 1991. Based on *Lodé* 91066. *Nom. inval.* (Art. 9.5).

#### LAMIACEAE

**Plectranthus fruticosus** cv. *Ellaphie* van Jaarsveld & T. J. Edwards, *Veld & Flora* 77(2): 42-43, ill., 1991.

**Plectranthus reflexus** van Jaarsveld & T. J. Edwards, *Flow. Pl. Afr.* 51(2): t. 2034 + 2 pp. of text, map, 1991. Typus: *van Jaarsveld et al.* 10156 (NBG).

#### PIPERACEAE

**Peperomia** cv. *Cactusville* Rowley, *Brit. Cact. Succ. J.* 9(4): 98, ill., 1991. [Probably *P. nivalis* × *P. columella*.]

#### PORTULACACEAE

**Calandrinia** sect. **Monocosmia** (Fenzl) Hershkovitz, *Phytologia* 70(3): 223, 1991. Basionym: *Monocosmia*.

**Cistanthe** sect. **Calyptridium** (Nuttall) Hershkovitz, *Phytologia* 68(4): 267, 1990. Basionym: *Calyptridium*. [Previously omitted.]

**Cistanthe** sect. **Philippiamra** (Kuntze) Hershkovitz, *Phytologia* 68: 269, 1990. Basionym: *Philippiamra*. [Omitted previously.]

**Cistanthe amarantoides** (Philippi) Carolin ex Hershkovitz, *Phytologia* 70(3): 221, 1991. Basionym: *Silvaea amarantoides*.

**Cistanthe arenaria** (Chamisso) Carolin ex Hershkovitz, *Phytologia* 70(3): 211, 1991. Basionym: *Calandrinia arenaria*.

**Cistanthe calycina** (Philippi) Carolin ex Hershkovitz, *Phytologia* 70(3): 220, 1991. Basionym: *Calandrinia calycina*.

**Cistanthe celosioides** (Philippi) Carolin ex Hershkovitz, *Phytologia* 68(4): 269, 1990. Basionym: *Silvaea celosioides*. [Omitted previously.]

**Cistanthe cephalophora** (I. M. Johnston) Carolin ex Hershkovitz, *Phytologia* 70(3): 212, 1991. Basionym: *Calandrinia cephalophora*.

**Cistanthe coquimbensis** (Barnéoud) Carolin ex Hershkovitz, *Phytologia* 70(3): 212, 1991. Basionym: *Calandrinia coquimbensis*.

**Cistanthe cymosa** (Philippi) Hershkovitz, *Phytologia* 70(3): 213, 1991. Basionym: *Calandrinia cymosa*.

**Cistanthe densiflora** (Barnud) Hershkovitz, *Phytologia* 70(3): 220, 1991. Basionym: *Calandrinia densiflora*.

**Cistanthe fenzlii** (Barnéoud) Carolin ex Hershkovitz, *Phytologia* 70(3): 213, 1991. Basionym: *Calandrinia fenzlii*.

**Cistanthe lingulata** (Ruíz & Pavón) Hershkovitz, *Phytologia* 70(3): 214, 1991. Basionym: *Talinum lingulatum*.

**Cistanthe longiscapa** (Barnéoud) Carolin ex Hershkovitz, *Phytologia* 70(3): 215, 1991. Basionym: *Calandrinia longiscapa*.

**Cistanthe macrocalyx** (Hauman) Carolin ex Hershkovitz, *Phytologia* 70(3): 216, 1991. Basionym: *Calandrinia macrocalyx*.

**Cistanthe monandra** (Nuttall) Hershkovitz, *Phytologia* 68(4): 267, 1990. Basionym: *Calyptridium monandrum*. [Previously

- omitted.]
- Cistanthe monosperma** (E. Greene) Hershkovitz, *Phytologia* 68(4): 267, 1990. Basionym: *Calyptridium monospermum*. [Previously omitted.]
- Cistanthe paniculata** (Ruíz & Pavón) Carolin ex Hershkovitz, *Phytologia* 70(3): 216, 1991. Basionym: *Calandrinia paniculata*.
- Cistanthe parryi** (A. Gray) Hershkovitz, *Phytologia* 68(4): 268, 1990. Basionym: *Calyptridium parryi*. [Omitted previously.]
- Cistanthe parryi** var. **arizonica** (J. T. Howell) Kartesz & Gandhi, *Phytologia* 71(1): 62, 1991. Basionym: *Calyptridium parryi* var. *arizonicum*.
- Cistanthe parryi** var. **hesseae** (Thomas) Kartesz & Gandhi, *Phytologia* 71(1): 62, 1991. Basionym: *Calyptridium parryi* var. *hesseae*.
- Cistanthe parryi** var. **nevadensis** (J. T. Howell) Kartesz & Gandhi, *Phytologia* 71(1): 62, 1991. Basionym: *Calyptridium parryi* var. *nevadense*.
- Cistanthe picta** (Gillies ex Arnott) Carolin ex Hershkovitz, *Phytologia* 70(3): 217, 1991. Basionym: *Calandrinia picta*.
- Cistanthe picta** var. **frigida** (Baméoud) Hershkovitz, *Phytologia* 70(3): 218, 1991. Basionym: *Calandrinia frigida*.
- Cistanthe pulchella** (Eastwood) Hershkovitz, *Phytologia* 68(4): 268, 1990. Basionym: *Spraguea pulchella*. [Omitted previously.]
- Cistanthe pygmaea** (Parish ex Rydberg) Hershkovitz, *Phytologia* 68(4): 268, 1990. Basionym: *Calyptridium pygmaeum*. [Omitted previously.]
- Cistanthe quadripetala** (S. Watson) Hershkovitz, *Phytologia* 68(4): 268, 1990. Basionym: *Calyptridium quadripetalum*. [Omitted previously.]
- Cistanthe rosea** (S. Watson) Hershkovitz, *Phytologia* 68(4): 268, 1990. Basionym: *Calyptridium roseum*. [Omitted previously.]
- Cistanthe umbellata** (Torrey) Hershkovitz, *Phytologia* 68(4): 268, 1990. Basionym: *Spraguea umbellata*. [Omitted previously.]
- Cistanthe umbellata** var. **caudicifera** (A. Gray) Kartesz & Gandhi, *Phytologia* 71(1): 62, 1991. Basionym: *Spraguea umbellata* var. *caudicifera*.
- Cistanthe weberbaueri** (Diels) Carolin ex Hershkovitz, *Phytologia* 70(3): 218, 1991. Basionym: *Calandrinia weberbaueri*.
- Portulaca molokiniensis** Hobdy, *Pac. Sci.* 41: 64-67, 1988. Typus: *Hobdy* 1244 (BISH). [Dated 1987, published 1988. Previously omitted.]
- Talinum galapagosum** (H. St. John) Hershkovitz, *Phytologia* 70(3): 223, 1991. Basionym: *Calandrinia galapagosa*.



## BIBLIOGRAPHIA

- [1] Albers, F. et al. (1990). *Asclepiadaceae*. In: IOPB chromosome data 2. IOPB Newslett. 15: 11-14.
- [2] Albers, F. & Meve, U. (1991). Mixoploidy and cytotypes: a study of possible vegetative species differentiation in stapeliads (*Asclepiadaceae*). *Bothalia* 21(1): 67-72, ills., tabs.
- [3] Anonymus (1991). *Hoya* sections. *Hoyan* 12(3): 67-69.
- [4] Augustin, K. (1991). Die HS-Sulcorebutien und Weingarten. Auswertung der Feldaufzeichnungen. Fortsetzung 12. *Kakt. and Sukk.* 42(8): 198-200, ills., map. [Continued from previous volume.]
- [5] Bercht, L. (1991). *Gymnocalycium* subserie *Mihanovichiana*. *Succulenta* 70(12): 252-256, ills., map. [Continued in vol. 71.]
- [6] Berg, R. Y. (1990). Seed dispersal relative to population structure, reproductive capacity, seed predation, and distribution in *Euphorbia balsamifera* (*Euphorbiaceae*), with a note on sclerenchocory. *Sommerfeltia* 11: 35-63.
- [7] Binoj Kumar, M. S. & Balakrishnan, N. P. (1991). Notes on a giant *Euphorbia antiqorum* L. from India. *Euphorbia J.* 7: 98-100, ills., map.
- [8] Bisseret, P. (1991). A green flowering *Euphorbia fusiformis*? *Euphorbia Study Group Bull.* 1991(3): 7-10, ill.
- [9] Bittrich, V. & Struck, M. (1989). What is primitive in *Mesembryanthemaceae*? An analysis of evolutionary polarity of character states. *South Afr. J. Bot.* 55(3): 321-331. [Omitted previously.]
- [10] Blum, W. (1991). Kritisch betrachtet: Erstbeschreibung des *Echinocereus mombergerianus* G. R. W. Frank in *KuaS* 11/1989. *Echinocereenfreund* 1991(4): 101-107, ills.
- [11] Blum, W. & Ruthow, J. (1991). Der *Echinocereus fendleri* (Engelm.) Rümpler-Komplex. *Echinocereenfreund* 1991(4): 87-100, ills.
- [12] Brachet, C. et al. (1991). Mexican field notes. *J. Mammillaria Soc.* 31(1): 6-9, (2): 18-21, (3): 32-35, (4): 46-50, ills.
- [13] Braun, P. J. (1991). Kakteen auf der "Varadero"-Halbinsel (Kuba). *Kakt. and Sukk.* 42(12): 273-275, ills.
- [14] Braun, P. J. & Esteves Pereira, E. (1991). The *Opuntia inamoena* complex in Brazil. *Cact. Succ. J. (US)* 63(2): 82-85, (3): 124-129, (6): 311-318, ills.
- [15] Braun, P. J. & Esteves Pereira, E. (1991). *Arrojadoa dinae* Buining & Brederoo var. *nana* Braun & Esteves. Eine neue *Arrojadoa*-Sippe aus Minas Gerais / Brasilien. *Kakt. and Sukk.* 42(8): 190-195, ills. [Includes a key to all taxa of the genus.]
- [16] Braun, P. J. & Esteves Pereira, E. (1991). *Micranthocereus* Backeberg subgenus *Austrocephalocereus* (Backeberg) Braun & Esteves. Een nieuw ondergeslacht (*Cactaceae*) uit Brazilië. *Succulenta* 70(3): 62-67, ills.
- [17] Breckwoldt, K. (1991). *Echinocereus engelmannii* (Parry) Engelm. Ergänzende Angaben zu unserem 1. Bericht von 1990. *Kaktusblüte* 1991: 56-57, ills.
- [18] Breckwoldt, S. & K. (1991). Überblick und Einteilung zu den rotblühenden nordamerikanischen Echinocereen. *Echinocereenfreund* 1991(2): 41-55, ills.
- [19] Bruyns, P. V. (1991). A note on *Quaqua acutiloba* (N. E. Br.) Bruyns. *Aloe* 28(1): 24-24, ills.
- [20] Bruyns, P. V. & Forster, P. I. (1991). Recircumscription of the *Stapelieae* (*Asclepiadaceae*). *Taxon* 40(3): 381-391, ills.
- [21] Carter, S. (1991). *Euphorbia heterochroma* and its relatives in East Africa. *Euphorbia J.* 7: 117-128, ills.
- [22] Carter, S. (1991). Peter Bally and the spiny euphorbias: Euphorbias from East Africa, part 7. *Euphorbia J.* 7: 46-59, ills.
- [23] Cartier, A. (1991). Een herziening van het geslacht *Wilcoxia*. *Maandbl. Liefhebb. Cact. Vetpl.* 4(1): 8-9, (2): 31-32, ills. [Continued from vol. 3.]
- [24] Castorena Sanchez, I. et al. (1991). New cytotaxonomical determinants recognized in six taxa of *Agave* in the sections *Rigidae* and *Sisalanae*. *Canad. J. Bot.* 69: 1257-1265, ills., chromosome nos.
- [25] Castroviejo, S. et al. (1990). *Flora Iberica*. Vol. 2, *Platanaceae - Plumbaginaceae* (partim). Madrid (E): Real Jardín Botánico, CSIC. lii + 897 pp., ills., keys. [*Cactaceae* (P. Berthet, pp. 62-70, *Opuntia* only); *Aizoaceae* (M. L. Gonçalves, pp. 71-92); *Portulacaceae* (*Portulaca*: A. Danin, pp. 465-469).]
- [26] Chalet, J.-M. (1991). Intéressante découverte d'un *Melocactus* dans le Bassin de l'Orénoque, Vénézuëla. *Succulentes* 14(4): 11-14, ills.
- [27] Cházaro B., M. & Viveros Colorado, C. (1991). Nota sobre *Sedum nussbaumerianum* Bitter (*Crassulaceae*). *Cact. Suc. Mex.* 36(2): 43-47, ill.
- [28] Chvastek, J. & Zwak, J. (1991).

- Poznámky ke komplexu *Neolloydia conoidea* Br. et R. Kaktusy 27(2): 39-41, ill.
- [29] Collette, S. (1991). *Ceropegias* in Saudi Arabia. Kew Mag. 8(1): 24-37, ill., map.
- [30] Craib, C. (1991). *Pelargonium hystrix*: Habitat studies and cultivation. Brit. Cact. Succ. J. 9(1): 6-10, ill.
- [31] Dannenbaum, C. & Schill, R. (1991). Die Entwicklung der Pollentetraden und Pollinien bei den *Asclepiadaceae*. Biblioth. Bot. 141: 138 pp., ill.
- [32] Davies, K. G. (1991). The *Mesembryanthemaceae* of Gwynedd. Mesemb Study Group Bull. 6(3): 51-57, ill., map.
- [33] Deil, U. & Müller-Hohenstein, K. (1991). Euphorbias from Arabia Felix. Part II: Succulent associations and phytogeographical aspects. Euphorbia J. 7: 72-97, ill., diags., map. [Continued from vol. 5.]
- [34] Diers, L. (1991). Zur Taxonomie der *Sulcorebutien* aus dem Rio Caine-Gebiet. Kakt. and. Sukk. 42(3): 74-77, (4): 98-101, ill., SEM-ills.
- [35] Dimmitt, M. A. & Hanson, C. (1991). The genus *Adenium* in cultivation. Cact. Succ. J. (US) 63(5): 223-225, ill.
- [36] Doek, R. (1991). *Notocactus muricatus* (Otto in Pfeiffer) Berger ex Backeberg der am häufigsten verwechselte Notokaktus. Internoto 12(3): 83-86, ill. [Dutch version in Succulenta 70(6): 139-140, ill., 1991.]
- [37] Dornberger, W. (1991). *Ariocarpus trigonus* (Weber) K. Schumann mit rötlichen Blüten. Kakt. and. Sukk. 43(1): 16-17, ill. [Vol. for 1992, issue already published mid-December 1991.]
- [38] Dreyer, L. L. & Walt, J. J. A. van der (1991). *Geraniaceae*. The correct author citation for *Pelargonium* section *Cortusina*. Bothalia 21(2): 157.
- [39] Eggli, U. (1991). Notokakteen in Kolumbien – Doch keine Sage? Internoto 12(1): 11-13, ill.
- [40] Eggli, U. & Taylor, N. P. (1991). IOS Index of names of *Cactaceae* published 1950 - 1990 from Repertorium Plantarum Succulentarum. Richmond (GB): Royal Botanic Gardens Kew. 222 pp.
- [41] Ferguson, D. J. (1991). In defense of the genus *Glandulicactus* Backeb. Cact. Succ. J. (US) 63(2): 87-91, ill.
- [42] FitzMaurice, W. A. & B. (1991). Fieldnotes. *Mammillaria leucantha* Bödeker. Cact. Succ. J. (US) 63(1): 40-44, ill. [German translation published in Mitteilungsbl. AfM 16(1): 28-36, 1992.]
- [43] FitzMaurice, W. A. & B. (1991). Fieldnotes. A look at San Gil and *Mammillaria gilensis* Boedeker. Cact. Succ. J. (US) 63(5): 226-228, 231, ill.
- [44] FitzMaurice, W. A. & B. (1991). Fieldnotes. *Mammillaria eschauzieri* (Coulter) Vaupel. Cact. Succ. J. (US) 63(6): 301-304, ill.
- [45] FitzMaurice, W. A. & B. (1991). Fieldnotes. *Mammillaria rettigiana* Bödeker. Cact. Succ. J. (US) 63(3): 135-138, ill., map.
- [46] Forster, P. I. (1991). The correct publication dates for some genera and species of *Asclepiadoideae* described by Robert Brown. Asklepios No. 52: 78-79.
- [47] Forster, P. I. (1991). Clarification of the author citations, publication places and types for recently described *Hoya* species (*Asclepiadoideae*) from the Philippines. Asklepios No. 52: 100-101.
- [48] Forster, P. I. (1991). Variation in *Hoya australis* R. Br. ex Trail (*Asclepiadoideae*). Austrobaileya 3(3): 503-521, ill., maps.
- [49] Forster, P. I. (1991). A taxonomic revision of *Cynanchum* L. (*Asclepiadoideae*) in Australia. Austrobaileya 3(3): 443-466.
- [50] Forster, P. I. (1991). *Euphorbia plumerioides* (*Euphorbiaceae*): A rarely encountered stem-succulent from northern Australia and Malesia. Euphorbia J. 7: 15-19, ill., map.
- [51] Forster, P. I. & Bruyns, P. V. (1991). *Folotsia grandiflorum* (*Asclepiadoideae*), an unusual aphyllous stem-succulent from Madagascar. Asklepios No. 53: 3-5, ill.
- [52] Fourie, S. P. (1991). An introduction to the succulent euphorbias of the Transvaal: Part four: "Spineless dwarfs". Euphorbia J. 7: 104-116, ill., maps. [Continued from previous vol.]
- [53] Frank, G. R. W. (1991). Ergänzende Bemerkungen zur Erstbeschreibung von *Echinocereus barthelowanus* Britton & Rose. Kakt. and. Sukk. 42(1): 2-5, ill., SEM-ills.
- [54] Friis, I. (1989). *Moraceae: Dorstenia*. Fl. Ethiopia. 275-279, ill., key. [Omitted previously.]
- [55] Fritz, G. (1991). Einige notities betreffende *Sulcorebutia rauschii* Frank. Maandbl. Liefhebb. Cact. Vetpl. 4(11): 172-174, ill.
- [56] Fritz, G. (1991). Einige notities betreffende *Sulcorebutia tarabucoensis* Rausch. Maandbl. Liefhebb. Cact. Vetpl. 4(10): 152-154, ill., map.
- [57] Fritz, G. et al. (1991). *Sulcorebutia oenantha* Rausch. Einige Bemerkungen zum Karteiblatt 28/1990. Kakt. and. Sukk. 42(2): 54-56, ill., map.
- [58] Fu, K.-T. (1991). New taxa of *Sedoideae* from Gansi [in Chinese]. Acta Bot. Bor.-Occ. Sin. 11: 170-172.

- [59] Funamoto, T. & Yuasa, S. (1989). Chromosome studies in the genus *Echeveria* (Crassulaceae). Part. I. Somatic chromosome numbers of 30 species and cultivars. Sci. Rep. Res. Inst. Evol. Biol. (Japan) 6: 1-15.
- [60] Funamoto, T. & Yuasa, S. (1989). Chromosome studies in the genus *Echeveria* (Crassulaceae). Part II. Somatic chromosome numbers of the remaining taxa. Sci. Rep. Res. Inst. Evol. Biol. (Japan) 6: 16-29.
- [61] Galván V., R. & González E., M. (1991). Notas sobre el genero *Agave* en el Estado de Durango. Cact. Suc. Mex. 36(1): 3-7, ill.
- [62] García Casanova, J. (1991). Sobre la presencia d'*Aeonium sedifolium* (Crassulaceae) en la isla de La Gomera. Vieraea 19: 139-140. [Dated 1990, published 1991.]
- [63] Gebauer, A. (1991). Der Formenkreis des *Notocactus werdermannianus* Herter. Kakt. / Sukk. 25: 97-106, ill. [Vol. for 1990.]
- [64] Gerloff, B. (1991). *Notocactus tetracanthus* n.n. gehört zu *Notocactus sessiliflorus* (Hook.) Krainz. Internoto 12(3): 80-83, ill.
- [65] Gerloff, N. (1991). *Notocactus ottonis* (Lehm.) Berger var. *paraguayensis* Haage jr. Frankfurter Kakt.-Freund 1991(3): 76-80, ill.
- [66] Gerloff, N. (1991). *Notocactus kovarikii* (Fric ex Berger) Krainz gehört nicht zu *Echinocactus neoarchavaleitai* K. Schumann ex Spegazzini. Internoto 12(4): 107-117, ill.
- [67] Gerloff, N. (1991). Internoto VI. Rækken af *Mammulosi*. Kaktus (Odense) 26(4): 79-85, ill.
- [68] Gerloff, N. (1991). Auf der Suche nach *Notocactus oxycostatus* Buining & Brederoo. Rundbrief Internoto Arbeitskr. 1a 1991(2): 2-11, ill.
- [69] Gerloff, N. (1991). *Notocactus laetevirens* Ritter. Rundbrief Internoto Arbeitskr. 1a 1991(4): 2-8, ill., map.
- [70] Gerloff, N. (1991). Einige Gedanken und Belege zum Formenkreis von *Notocactus ottonis*. Rundbrief Internoto Arbeitskr. 1a 1991(1): 1, 3-11, ill., map.
- [71] Gerloff, N. (1991). Op de groeiplaats van *Notocactus polyacanthus* (Link & Otto) Theuissen. Succulenta 70(2): 27-30.
- [72] Gertel, W. (1991). Neues zu *Sulcorebutia pulchra* (Cardenas) Donald. Kakt. and Sukk. 42(7): 174-178, ill.
- [73] Ghazanfar, S. A. (1991). Flora of Nigeria: *Caryophyllales*. Monogr. Syst. Bot. 34: 39 pp., ill. [Includes *Aizoaceae* (*Sesuvium*, *Zaleya*, *Trianthema*); *Cactaceae*; *Portulacaceae* (*Portulaca*, *Talinum*).]
- [74] Gibson, A. C. (1991). The systematics and evolution of subtribe *Stenocereinae*. 10. The species group of *Stenocereus griseus*. Cact. Succ. J. (US) 63(2): 92-99, ill.
- [75] Gibson, A. C. (1991). The systematics and evolution of subtribe *Stenocereinae*. 11. *Stenocereus dumortieri* versus *Isolatocereus dumortieri*. Cact. Succ. J. (US) 63(4): 184-190, ill.
- [76] Gilbert, M. G. (1989). *Crassulaceae*. In: Hedberg, I. & Edwards, S. (eds.): Flora of Ethiopia, Vol. 3: 5-26, ill., key. Addis Ababa / Asmara (Ethiopia) / Uppsala (S): National Herbarium Ethiopia / Dept. Syst. Bot. Uppsala.. [Omitted previously.]
- [77] Gilmer, K. (1991). *Tephrocactus geometricus* (Castellanos) Backeberg. Am Standort einer seltenen Art im Westen Argentinien. Kakt. and Sukk. 42(11): 268-270, ill.
- [78] Glen, H. F. & Hardy, D. S. (1991). *Liliaceae* (*Asphodelaceae*). The type specimen of *Aloe soupansbergensis*. Bothalia 21(2): 151-152, ill.
- [79] González Medrano, F. (1991). Nota sobre la tipificación de *Manfreda guerrerensis* Matuda (*Agavaceae*). Cact. Suc. Mex. 36(1): 16.
- [80] Guillaumet, J. L. & Marais, W. (1990). 103. Cactacées. In: Bosser, J. et al.: Flore des Mascareignes, 90. Rhizophoracées à 106. Araliacées. Paris (F): ORSTOM, etc. : 8 pp., ill., key. [Includes the genera *Rhipsalis*, *Pereskia*, *Opuntia* and *Hylocereus*.]
- [81] Haas, R. (1991). *Thelocactus ysabelae*. Kakt. and Sukk. 42(6): 148-149, ill.
- [82] Hammer, S. (1991). *Faucaria bosscheana* and its relatives *Aloe* 28(1): 4-5, ill.
- [83] Hammer, S. (1991). New wine in old bottles. *Aloe* 28(2): 32-35, ill. [On *Conophytum gracilistylum*, etc.]
- [84] Hammer, S. (1991). *Conophytum*: an annotated checklist (S-Z). *Bradleya* 9: 105-128, ill. [Concluded from vol. 8.]
- [85] Hammer, S. (1991). Speaking of tongues. *Brit. Cact. Succ. J.* 9(4): 103-104, ill. [On *Glottiphyllum*.]
- [86] Hammer, S. (1991). Pro- and Anti-Mima. *Mesemb Study Group Bull.* 6(4): 84-85, ill.
- [87] Hammer, S. & Liede, S. (1991). Hybridisation in the Mesembs. *Veld and Flora* 77: 4-15, ill.
- [88] Hargreaves, B. J. (1990). The succulents of Botswana: an annotated checklist. Gaborone (Botswana): National Museum, Monuments and Art Gallery. 20 pp., ill.
- [89] Hargreaves, B. J. (1991). Red-flowered euphorbias of Malawi. *Euphorbia J.* 7: 138-142, ill.
- [90] Hargreaves, B. J. (1991). *Euphorbia ingens* E. Meyer ex Boiss. in Malawi plus two



relatives and a non-relative. *Euphorbia* J. 7: 65-71, ill., map.

[91] Hargreaves, B. J. (1991). Further notes on *Euphorbia* species in Botswana. *Euphorbiaceae* Study Group Bull. 1991(1): 8-15, ill.

[92] Harold, K. (1991). *Ceropegia aristolochioides* and section *Phalaena*. *Asklepios* No. 53: 18-23, ill.

[93] Hart, H. 't (1991). Evolution and classification of the European *Sedum* species (*Crassulaceae*). *Fl. Medit.* 1: 31-61, key to series. [Includes several new series names.]

[94] Hart, H. 't & Alpinar, K. (1991). Biosystematic studies in *Sedum* of Turkey (*Crassulaceae*). 3. *Sedum euxinum*, a new species from north-eastern Anatolia. *Acta Bot. Neerl.* 49: 357-361, ill., chromosome nos.

[95] Hart, H. 't & Alpinar, K. (1991). Biosystematic studies in *Sedum* (*Crassulaceae*) of Turkey: Morphological and cytological variation in *S. pallidum* and *S. rubens*. *Bot. Chron.* 10: 641-649, ill., maps, chrom.nos.

[96] Hart, H. 't & Alpinar, K. (1991). The *Sedum* flora of Turkey. Part 2. *Sedum* Soc. Newslett. No. 16: 10-13, maps.

[97] Hart, H. 't & Alpinar, K. (1991). Biosystematic studies in *Sedum* (*Crassulaceae*) of Turkey. 1. Notes on four hitherto little known species collected in the western part of Anatolia. *Willdenowia* 21: 143-156, ill., maps, chromosome nos.

[98] Hart, H. 't & Ham, C. H. J. van (1991). Cytotaxonomic notes on *Sedum* (*Crassulaceae*) species of Israel. *Israel J. Bot.* 40: 323-329, ill., chromosome nos.

[99] Hartmann, H. E. K. (1991). *Mesembryanthema*. *Contr. Bolus Herb.* 13: 75-157. [Includes an alphabetical list of accepted genera.]

[100] Hartmann, H. E. K. (1991). Keys to the genera of *Mesembryanthema*. *South Afr. J. Bot.* 57(2): 95-104, keys.

[101] Hartmann, H. E. K. & Bittrich, V. (1991). Typification of suprageneric names – some nomenclatural changes in *Aizoaceae*. *South Afr. J. Bot.* 57(2): 73-75.

[102] Hartmann, H. E. K. & Newton, L. E. (1991). *Delosperma oehleri* – an interesting mesemb from East Africa. *Cact. Succ. J. (US)* 63(4): 191-193, ill.

[103] Hartmann, H. E. K. & Niesler, I. (1991). On the identity of *Trichodiadema schimperii* (Engler) Herre (*Mesembryanthema*). *Cact. Succ. J. (US)* 63(3): 143-149, ill.

[104] Haun, R. (1991). Rebutien ans Licht gerückt. 15. *Rebutia oculata* Werdermann. *Kakt. / Sukk.* 25: 72-75, ill. [Vol. for 1990.]

[105] Haun, R. (1991). Rebutien – ans Licht gerückt. 14. *Rebutia einsteinii* Fric. *Kakt. / Sukk.* 25(1-2): 4-8, ill. [Dated 1990, published 1991.]

[106] Havlicek, R. (1988). A new conspectus generis of the genus *Notocactus* Fric 1928 and its classification into subgenera and seria. *Kakt. Vilag* 1988(4): 71-81 pp., ill. [Published probably 1990, received at ZSS in July 1991.]

[107] Heath, P. V. (1991). The orthography of *Mammillaria esperanzensis* Bödeker (*Cactaceae*). *Taxon* 40(2): 321.

[108] Heath, P. V. (1991). The type of *Mediocactus* Britton & Rose (*Cactaceae*). *Taxon* 40(4): 627-628.

[109] Heek, W. van & Strecker, W. (1991). Kakteen bei Caetitê. *Kakt. and. Sukk.* 42(8): 186-188, ill. [Included on account of the illustrations of *Micranthocereus polyanthus*.]

[110] Heine, R. (1991). *Lithops bella* (Dinter) N. E. Brown. *Kakt. and. Sukk.* 42(2): 46-48, ill., map.

[111] Herm, K. (1991). *Notocactus neohorstii* var. *juvenaliformis* Ritter. *Internoto* 12(2): 67-70, ill.

[112] Hernandez Garcia, G. & Garcia Villanueva, E. (1991). Anatomia comparada de ovulos y semillas de dos especies del genero *Mammillaria* (*Cactaceae*). *Bol. Soc. Bot. Mex.* No. 51: 25-38, ill.

[113] Hershkovitz, M. A. (1991). Leaf morphology of *Cistanthe* Spach (*Portulacaceae*). *Ann. Missouri Bot. Gard.* 78(4): 1022-1060.

[114] Hershkovitz, M. A. (1991). Phylogenetic assessment and revised circumscription of *Cistanthe* Spach (*Portulacaceae*). *Ann. Missouri Bot. Gard.* 78(4): 1009-1021.

[115] Hershkovitz, M. A. (1991). Taxonomic notes on *Cistanthe*, *Calandrinia*, and *Talinum* (*Portulacaceae*). *Phytologia* 70(3): 209-225.

[116] Herzog, E. (1991). Arten der Gattung *Lobivia*. 8. *Lobivia* (*Echinopsis*) *backebergii* (Werd.) Backeb. *Kakt. / Sukk.* 25: 75-85, ill. [Vol. for 1990.]

[117] Heyer, W. (1991). Kann auf *Acanthocalycium* Backeberg verzichtet werden? *Kakt. and. Sukk.* 42(4): 85-88, ill.

[118] Hochstätter, F. (1991). *Pediocactus simpsonii* Br. & R. Kaktusblüte 1991: 14-29, ill., SEM-ills.

[119] Hoevens, L. van der (1991). *Notocactus spec.* Entre Rios – Ein interessanter Fund aus der Gruppe um *Notocactus submammulosus* (Lem.) Backeberg. *Internoto* 12(1): 18-22, ill.

[120] Hofacker, A. (1991). *Notocactus fuscus* var. *longispinus* Ritter – oder: es gibt ihn doch! *Internoto* 12(2): 62-67, ill.

[121] Hofacker, A. (1991). Zur Verbreitung

einiger scharfrüppiger [*Notocactus* ser.] Paucispini. Internoto 12(1): 22-31, ill., map.

[122] Hofacker, A. (1991). Eine neue Varietät der *Frailea buenekeri* Abraham? Internoto 12(3): 91-96, ill.

[123] Hoock, H. & Baumann, H. (1991). In der Heimat von *Astrophytum coahuilense* (Möller) Kayser. Kakt. and. Sukk. 42(9): 214-218, ill., map, diags.

[124] Horich, C. K. (1991). Auf der Suche nach *Hylocereus monacanthus* (Lemaire) Britton & Rose. Kakt. and. Sukk. 43(1): 10-12, ill., map. [Vol. for 1992, issue already published mid-December 1991.]

[125] Horich, C. K. (1991). Auf der Spur von *Rhipsalis simmleri* Beauverd. Kakt. and. Sukk. 42(8): 177-179, ill. [The plant illustrated is not *R. simmleri* - NPT.]

[126] Horich, C. K. (1991). Ein weiteres Vorkommen von *Sedum mexicanum* Britton. Kakt. and. Sukk. 42(5): 113-115, ill.

[127] Humphries, C. J. & Blackmore, S. (1989). A review of the classification of the *Moraceae*. Syst. Assoc. Special Vol. 40B: 267-277.

[128] Hunt, D. R. (1991). The mammillarias of Werner Reppenhagen (2). Continuing an evaluation of the new taxa described by Reppenhagen in his book *Die Gattung Mammillaria* (1987). *Mammillaria Postscripts* 3: 7-14.

[129] Hunt, D. R. & Taylor, N. P., eds. (1991). Notes on miscellaneous genera of *Cactaceae*. *Bradleya* 9: 81-92.

[130] Ilyinskaya, A. F. (1991). Anatomical study of vegetative organs of the species of *Sedum* L. from the section *Sedum* [in Ukrainian]. *Ukr. Bot. Zhurn.* 48: 29-34.

[131] Jaarsveld, E. van (1991). The conservation status of *Gasteria baylissiana* Rauh, a rare endemic of the Zuurberg (Eastern Cape). *Brit. Cact. Succ. J.* 9(4): 99-101, ill.

[132] Jaarsveld, E. van (1991). The subfamily *Asphodeloideae* with specific reference to *Trachyandra tortilis*. *Cact. Succ. J. (US)* 63(4): 196-199, ill.

[133] Jebb, M. (1991). Cavity structure and function in the tuberous epiphytic *Rubiaceae*. In: Huxley, C. R. & Cutler, D. F. (eds.): *Ant-plant interactions*, pp. 374-389, map, ill. Oxford (GB), etc.: Oxford University Press. :

[134] Jonkers, B. (1991). Op zoek naar *Caralluma penicillata* in Oman. *Succulenta* 70(7/8): 165-169, ill.

[135] Joschko, H. (1991). *Lobivia jajoiana* var. *paucicostata* Rausch. Betrachtungen zu einer Lobviengruppe um Purnamarca. Kakt. and. Sukk. 42(2): 50-52, ill., map.

[136] Kümmler, H. (1991). Der Formenkreis um *Mammillaria wagneriana* / *petterssonii*. *Mitteilungsbl. AfM* 15(2): 55-59, ill.

[137] Kartesz, J. T. & Gandhi, K. N. (1991). Nomenclatural notes for the North American flora. VI. *Phytologia* 71: 58-65. [Includes new combinations in *Cistanthe* (*Portulacaceae*).]

[138] Kloppenburg, D. (1991). Phillipine [sic] *Hoya* species. A monograph. Medford (USA: OR): Orca Publishing Co. 103 pp., ill., key.

[139] Koutnik, D. (1991). *Euphorbia trigona* Miller ... or is it *E. hermentiana* Lemaire? *Euphorbia J.* 7: 11-14, ill.

[140] Krähenbühl, F. (1991). Gedanken zu zwei grünen Mammillarien: *Mammillaria centricirrho* Lemaire 1839 und *Mammillaria magnimamma* Haworth 1824. Kakt. and. Sukk. 42(12): 284-287, ill.

[141] Kümmler, H. (1991). Die zwei Formen der *Mammillaria humboldtii* Ehrenberg. *Mitteilungsbl. AfM* 15(1): 12-15, ill.

[142] Kunze, H. & Liede, S. (1991). Observations on pollination in *Sarcostemma* (*Asclepiadaceae*). *Pl. Syst. Evol.* 178: 95-105.

[143] LaFon, R. (ed.) (1991). The succulent *Euphorbiaceae*. Photographic collection and descriptions. *Euphorbia J.* 7: 143-162, ill. [Continued from previous vol.]

[144] Lambert, J. (1991). Een merkwaardig trio. *Succulenta* 70(2): 33-38, ill. [On *Opuntia spegazzinii*, *O. salmiana*, *O. schickendantzii*.]

[145] Land, M. P. (1991). A note on a *Duvalia*. *Asklepios* No. 52: 88-92, ill. [*Duvalia caespitosa*.]

[146] Leach, L. C. (1991). Comment on a review of the revision of *Huernia* R. Br. *Asklepios* No. 52: 83-85, chromosome nos.

[147] Leach, L. C. (1991). *Euphorbia griseola* Pax: its subspecies and relationships. *Euphorbia J.* 7: 131-137, ill.

[148] Lecron, J.-M. et al. (1991). *Monadenium* Pax: des *Euphorbiaceae* succulentes méconnues. *Rev. Hort. Suisse* 64(6): 139-146, ill. [Short synopsis.]

[149] Leon de la Luz, J. L. & Cadena, R. D. (1991). Evaluación de la reproducción por semilla de la pitaya agria (*Stenocereus gummosus*) en Baja California Sur, Mexico. *Acta Bot. Mex.* 14: 75-87. [Appears to reproduce mainly by asexual means.]

[150] Leuenberger, B. E. (1991). Xerocopy a cactus flower - a quick method of documentation of flower characters in *Cactaceae*. *Brit. Cact. Succ. J.* 9(4): 105-106, ill.

[151] Leuenberger, B. E. (1991). Interpretation and typification of *Cactus ficus-indica* L. and *Opuntia ficus-indica* (L.) Miller (*Cactaceae*).

- Taxon 40(4): 621-627, ills.
- [152] Li, P. T. (1991). *Hoya lasiogynostegia*. Hoyan 13(1: part 2): 5-6, ill.
- [153] Liddle, D. J. (1991). *Hoya nicholsoniae* F. Mueller. *Hoya caudata* Hooker f. Hoyan 13(2: Part 2): 8-11, ills.
- [154] Liede, S. (1991). *Cynanchum gerrardii* – a new combination for a well-known African species (*Asclepiadaceae*). Taxon 40(1): 113-117, ills.
- [155] Liede, S. & Hammer, S (1991). Aspects of floral structure and phenology in the genus *Conophytum* (*Mesembryanthemaceae*). Pl. Syst. Evol. 172: 229-240. [Dated 1990, published 1991.]
- [156] Liede, S. & Whitehead, V. (1991). Studies in the pollination biology of *Sarcostemma viminalis* R. Br. *sensu lato*. South Afr. J. Bot. 57(2): 115-122, ills., map.
- [157] Liede, S. et al. (1991). Observations on pollination and hybridization in the genus *Conophytum* (*Mesembryanthemaceae*). Bradleya 9: 93-99, ills., map, tabs.
- [158] Linzen, T. et al. (1991). Die Reihe *Elegantes*. *Mammillaria haageana* Pfeiffer und die mit ihr verwandten Arten. Mitteilungsbl. AfM 15(5): 189-207, ills. [To be continued.]
- [159] Linzen, T. (1991). *Mammillaria mystax* Martius und ihre nächsten Verwandten. Mitteilungsbl. AfM 15(1): 17-32, (2): 61-73, (3): 98-105, (4): 138-145, ills.
- [160] Lodé, J. (1991). Opuntias du Brésil. Cact. Aventures No. 12: 13-15, ills.
- [161] Lomelí Sención, J. A. (1991). Nota sobre la distribución de *Disocactus ramulosus* en Mexico. Cact. Suc. Mex. 36(3): 69-71, ill.
- [162] Lourteig, A. (1991). Nomenclatura plantarum Americanum. 16. *Cactaceae*. Bradea 5(44): 400-411.
- [163] Lüthy, J. M. (1991). Ein neues chemisches Merkmal für die Gattung *Copiapoa* Britton & Rose. Kakt. and Sukk. 42(8): 196-197, ill.
- [164] Lüthy, J. M. (1991). Illustrierter Führer für die Arten der Gattungen *Aeonium* Webb & Berthelot und *Greenovia* Webb & Berthelot (*Crassulaceae*) auf den Inseln Teneriffa und Gomera. Mit einem neuen Schlüssel nach vegetativen Merkmalen. Kakt. and Sukk. 42(6): 129-134, (7): 158-163, ills., key, (10): 227, erratum.
- [165] Lux, A. & Stanik, R. (1991). Poznámky k rodu *Thelocactus*. Cactaceae etc. 1(1): 8-12, (2): 30-36, (3): 4-7, ills.
- [166] Lux, A. et al. (1991). Zur Kenntnis des Verwandtschaftskreises von *Thelocactus rinconensis* (Poselger) Britton & Rose. Kakt. and Sukk. 42(11): 264-267, ills.
- [167] Lyons, J.-L. & Solichon, J.-M. (1991). Étude phénologique du genre *Lithops*. Observations – applications pratiques. Succulentes 14(3): 21-26, ills.
- [168] Marais, E. M. (1989). Delimitation and typification of the section *Hoarea* of *Pelargonium* (*Geraniaceae*). South Afr. J. Bot. 55: 240-242. [Omitted from RPS so far.]
- [169] Marais, W. (1990). 104. Aizoacées. In: Bosser, J. et al.: Flore des Mascareignes, 90. Rhizophoracées à 106. Araliacées. Paris (F): ORSTOM, etc. : 13 pp., ills., keys.
- [170] Matis, J. (1990). (In Czech:) Desert species of the genus *Islaya* (*Cactaceae*). Ziva (Praha) 38: 165-168.
- [171] Matthews, J. F. et al. (1991). *Portulaca biloba* Urban (*Portulacaceae*), a species new to the United States. Syst. Bot. 16(4): 736-740, ills., chromosome nos. [Previously only known from Cuba.]
- [172] Mellen, G. (1991). The *Echinocereus fendleri* controversy. Cact. Succ. J. (US) 63(4): 208-212, ills.
- [173] Metzging, D. (1991). Was ist *Gymnocalycium leeanum*? Gymnos 8(16): 63-65.
- [174] Metzging, D. (1991). Die Gattung *Notocactus* in Paraguay. Internoto 12(2): 35-52, ills., maps.
- [175] Mihatsch, H.-J. (1991). Ein neuer Standort von *Mammillaria perezdelarosae* H. Bravo & Scheinvar. Kakt. and Sukk. 43(1): 1-2, ill. [Volume for 1992, issue already published in late December 1991.]
- [176] Milt, I. (1991). *Gymnokalycia* podrodu *Pirismineum*. Kaktusy 27(4): 76-81, (5): 99-106, ills.
- [177] Moran, R. (1991). *Pachyphytum compactum* Rose (*Crassulaceae*). Cact. Succ. J. (US) 63(1): 30-34, ills.
- [178] Moran, R. (1991). Note on relationships of *Bergerocactus*. Cact. Succ. J. (US) 63(5): 265.
- [179] Moran, R. (1991). *Pachyphytum longifolium* Rose. Cact. Succ. J. (US) 63(5): 261-265, ills.
- [180] Moreno, J. J. (1991). Euphorbias in Pakistan. Euphorbia J. 7: 101-103, ills.
- [181] Mottram, R. (1991). The *Mammillariae* of Emory (1848). J. Mammillaria Soc. 31(2): 22-26.
- [182] Navarro, G. & Galán de Mera, A. (1991). Notas sobre *Opuntia* Miller (*Cactaceae*) de Bolivia. Rivasgodaya 6: 111-114, maps. [Includes neotypification of *Opuntia armata* Backeberg.]
- [183] Neumann, K. (1991). *Echinocereus parkeri* N. P. Taylor. An Standorten in Tamaulipas und Nuevo Leon. Kaktusblüte 1991: 51-55, ills.



- [184] Newton, L. E. (1991). *Euphorbia bairoensis* in its natural habitat. *Euphorbia J.* 7: 36-41, ills., map.
- [185] Newton, L. E. (1991). On the identity of *Aloe penduliflora* Baker (*Liliaceae* / *Aloaceae*). *Taxon* 40(1): 53-60, ills.
- [186] Nilsson, M. (1991). En handfull Argentinska Rebutia-arter. III. *Kaktus* (Odense) 26(1): 3-7, ills. [Continued from vol. 25.]
- [187] Ostolaza, C. et al. (1991). *Epiphyllum phyllanthus* var. *phyllanthus*. *Quepo* 5: 52-57, ills.
- [188] Parnell, J. (1988). Revision of the genus *Jovibarba* and consideration of the *Sempervivum tectorum* / *S. marmoreum* complex and *S. montanum* ssp. *carpathicum*. *Acta Bot. Hung.* 34(1-2): 209-224. [Includes several lectotypifications. Omitted so far.]
- [189] Parnell, J. (1991). Pollen morphology of *Jovibarba* Opiz and *Sempervivum* L. (*Crassulaceae*). *Kew Bull.* 46: 733-738, ills.
- [190] Pavíček, P. (1991). Atlas Kaktusu. VI. Chrudim (CSSR): Chrudimský Kaktusar. : 64 pp., ills.
- [191] Peukert, D. E. (1991). *Epiphyllum phyllanthus* (Linné) Haworth var. *schnetteri* Peukert var. nov. (*Cactaceae*). Eine neue *Epiphyllum*-Sippe aus dem Departamento de Cundinamarca / Kolumbien. *Kakt. and. Sukk.* 42(11): 252-255, (12): 276-281, ills., key. [Includes an analysis of and key to all infraspecific taxa of the species.]
- [192] Pichler, G. (1991). *Echinocereus engelmannii* (Parry) Lemaire und seine Nachbarn am Standort Guaymas in Sonora. *Echinocereenfreund* 1991(1): 4-10, ills.
- [193] Pilbeam, J. (1991). The complex *Adromischus marianae* complex. *Cact. File* 1(2): 4-8, ills.
- [194] Pilbeam, J. & Weightman, B. (1991). Will the real *Echeveria subrigida* please stand up? *Cact. File* 1(3): 18-19, ills.
- [195] Ponce, M. & Trujillo, B. (1991). Distribución de las Cactáceas silvestres en Venezuela según diferentes tipos de formaciones vegetales. *Emstia* 1(2): 79-88, tabs.
- [196] Powell, A. M. et al. (1991). Experimental documentation of natural hybridization in *Cactaceae*: origin of Lloyd's hedgehog cactus, *Echinocereus* × *lloydii*. *Pl. Syst. Evol.* 178: 107-122, ills., chromosome nos. [*E. dasyacanthus* and *E. coccineus* recognized as species.]
- [197] Prestlé, K.-H. (1991). Het geslacht *Gymnocalycium* in Zuid-Brazilië en Uruguay. *Succulenta* 70(3): 55-60, (6): 128-130, (7): 172-174, (10): 215-218, (11): 227-230, ills., map.
- [198] Puff, C. (1991). *Euphorbia amplophylla*: a striking tree from the montane evergreen forests of northeast and east Africa. *Euphorbia J.* 7: 60-64, ills., map.
- [199] Raudonat, U. (1991). *Echinocereus palmeri* – ein Zwerg unter den Echinocereen. *Kakt. / Sukk.* 25: 60-65, ills. [Vol. for 1990, published 1991.]
- [200] Reppenhagen, W. (1991). A visit to the habitat of *Mammillaria craigii*. *J. Mammillaria Soc.* 31(1): 2-3, ills.
- [201] Retief, J. A. (1991). *Gibbaeum album*. *Aloe* 27(4): 93, ills. [Dated 1990, published 1991.]
- [202] Reynolds, T. & Herring, C. (1991). Chromatographic evidence of the geographical origin of *Aloe arborescens* introduced into Gibraltar. *Brit. Cact. Succ. J.* 9(4): 77-79, ills.
- [203] Rogozinski, H. (1991). Die Verbreitung der *Mammillopsis senilis* Loddiges ex Salm-Dyck. *Mitteilungsbl. AfM* 15(5): 186-188, ills.
- [204] Rogozinski, H. (1991). Sind *Mammillaria tesopacensis* var. *papasquiarensis* Bravo Hollis und *M. papasquiarensis* (Bravo Hollis) Reppenhagen identisch? *Mitteilungsbl. AfM* 15(2): 73-77, ills.
- [205] Rossouw, J. & D. (1991). *Haworthia maughanii* / *Haworthia truncata* or vice-versa. *Haworthiad* 5(4): 18-23, ills.
- [206] Rutow, J. (1991). *Echinocereus pacificus* auch in Arizona? *Echinocereenfreund* 1991(1): 21-24, ills.
- [207] Sajeva, M. & Mauseth, J. D. (1991). Leaf-like structure in the photosynthetic, succulent stems of cacti. *Ann. Bot.* 68: 405-411, ills.
- [208] Sarkaria, J. S. (1991). *Caralluma stalagmifera* C. E. C. Fischer. *J. Nation. Cact. Succ. Soc. India* 8(1): 2-5, ills. [Volume dated 1990.]
- [209] Schätzle, P. (1991). *Echinocereus salmdyckianus* Scheer und ähnliche Arten. *Kakt. and. Sukk.* 42(1): 30-32, ills. [Included on account of the illustrations.]
- [210] Scheinvar, L. (1990?). *Cactus triangularis* Linné, *Cereus ocamponis* Salm-Dyck, *Cactus triangularis* Vellozo, *Cereus undatus* Haworth és *Cereus trigonus* Haworth. *Kakt. Vilag* 1988(4): 63-69, ills. [Includes neo- and lectotypifications. Probably published 1990, received at ZSS in July 1991.]
- [211] Sedivy, V. (1991). Rod *Ariocarpus* Scheidw. *Atlas Kakt.* 6(Suppl.): 20 pp., ills., key.
- [212] Singh, M. (1991). More on *Euphorbia fusiformis* Buch.-Ham. *Euphorbia Study Group Bull.* 1991(3): 21-25.
- [213] Smith, G. F. (1991). Additional notes on the taxonomic status and habitat of *Aloe bowiea* (*Asphodelaceae*: *Aloioideae*). *Aloe* 28(1): 9-17,

ills.

[214] Smith, G. F. (1991). The chromosomes of *Chortolirion* and *Poellnitzia* (Asphodelaceae: Alooideae). *Bothalia* 21(2): 171-175, ills.

[215] Smith, G. F. (1991). Studies on the reproductive biology and palynology of *Chortolirion* Berger (Asphodelaceae: Alooideae) in southern Africa. *Taxon* 40(1): 61-73, ills.

[216] Smith, G. F. & Tiedt, L. R. (1991). A rapid, non-destructive osmium tetroxide technique for preparing pollen for scanning electron microscopy. *Taxon* 40(2): 195-200, SEM-ills. [Included on account of the examples of *Chortolirion* and *Poellnitzia*.]

[217] Smith, G. F. & Wyk, B.-E. van (1991). Generic relationships in Alooideae (Asphodelaceae). *Taxon* 40(4): 557-581, ills., maps.

[218] Solli, S. (1991). Le Mammillarie della Bassa California (Baja California). *Piante Grasse* 11(3): 67-74, ills., map.

[219] Stephenson, R. (1991). *Sedum trollii* E. Werdermann. *Sedum Soc. Newslett.* 19: 10-12, ills.

[220] Stephenson, R. (1991). *Sedum* hunting in southern Portugal. *Sedum Soc. Newslett.* No. 18: 16-18, map.

[221] Stephenson, R. (1991). Notes on *Sedum decumbens* Clausen and *Sedum confusum* Hemsley. *Sedum Soc. Newslett.* No. 16: 4.

[222] Stephenson, R. (1991). *Sedum dendroideum* A. P. DC. and *S. praealtum* A. DC. *Sedum Soc. Newslett.* No. 16: 5, ill.

[223] Stephenson, R. (1991). *S[edum] adolphii* Hamet and *S. nussbaumerianum* Bitter. *Sedum Soc. Newslett.* No. 18: 13, ills.

[224] Stephenson, R. (1991). *Sedum* in central Portugal. *Sedum Soc. Newslett.* No. 16: 14-16, ills., map.

[225] Stephenson, R. (1991). *Sedum obtusatum*. *Sedum Soc. Newslett.* 19: 20-22, ills.

[226] Stuchlik, S. (1991). Rozmanitost variet a forem *Notocactus concinnus* (Monville) Berger ex Backeberg. *Kaktusy* 27(1): 12-16, ills.

[227] Stuppy, W. & Huber, H. (1991). Samenmerkmale und Gattungsgliederung der *Opuntioideae*. *Kakt. and Sukk.* 42(5): 122-126, (6): 144-147, (7): 165-167, (9): 208-211, ills.

[228] Swart, D. (1991). Sukkulente Heilpflanzen und ihre Inhaltsstoffe. *Sempervivum* Linné. *Kakt. and Sukk.* 42(1): 20-23.

[229] Sylla, T. & Albers, F. (1989). Samenentwicklung und Samenmorphologie krautiger und sukkulenter *Asclepiadaceae*. *Bot. Jahrb. Syst.* 110(4): 479-492. [Omitted previously.]

[230] Taylor, A. R. (1991). Unusual form of *Opuntia ramosissima* Engelman. *Great Basin Natural.* 51(4): 414-415, ill.

[231] Taylor, N. P. (1991). The genus *Melocactus* (Cactaceae) in Central and South America. *Bradleya* 9: 1-80, ills., key, maps. [Reprint with own cover published separately by RBG Kew.]

[232] Taylor, N. P. (1991). (1014) Proposal to conserve 5401a *Arthroceres* A. Berger (Cactaceae) with a new type. *Taxon* 40(4): 660-662.

[233] Till, H. (1991). *Gymnocalycium uebelmannianum* Rausch. *AG Gymnocalycium* 4(1): 43-45, ills.

[234] Till, H. & W. (1991). *Gymnocalycium riojense*: Validierung, Beschreibung neuer Taxa und systematische Gruppierung nach morphologischen und arealmässigen Kriterien. *AG Gymnocalycium* 4(2): 47-50, (3): 51-54, (4): 55-58, ills., key.

[235] Toledo Martinez, J. (1991). *Pilosocereus polygonus* (Lamk.) Byl. et Rowl. – eine weitere Kakteenart der kubanischen Provinz Holguín. *Kakt. / Sukk.* 25(1-2): 16-17, ill. [Dated 1990, published 1991.]

[236] Trocha, W. (1991). *Echinocereus triglochidiatus* G. Engelman 1848. *Echinocereenfreund* 1991(1): 11-15, (3): 77-82, ills., map.

[237] Turrissi, E. R. (1991). Contributo a una migliore conoscenza delle Crassulacee spontanee di alcune località dell'Etna. *Piante Grasse* 11(2): 33-46, ills., map.

[238] Ullrich, B. (1991). Notas sobre la publicación del genero *Furcraea* Ventenat (Agavaceae). *Cact. Suc. Mex.* 36(1): 8-9.

[239] Ullrich, B. (1991). El complejo *Furcraea longaeva* Karwinski et Zuccarini. *Cact. Suc. Mex.* 36(2): 30-36, (3): 56-61, (4): 79-83, ills., map.

[240] Ullrich, B. (1991). Zum Verbreitungsgebiet von *Agave victoriae-reginae* T. Moore. *Kakt. and Sukk.* 42(11): 262-263, ill., map.

[241] Ullrich, B. (1991). *Agave colimana* Gentry oder *Agave origiesiana* Roehl? *Kakt. and Sukk.* 42(1): 24-28, ills., map.

[242] Ullrich, B. (1991). Notiz zu *Agave breviscapa* Berger ex Roster und *Agave verna* Berger. *Kakt. and Sukk.* 42(10): 242-243, ill.

[243] Ullrich, B. (1991). De taxonomische rangschikking van *Agave nizandensis* Cutak. *Succulenta* 70(4): 89-92, ills.

[244] Ullrich, B. (1991). Aantekeningen bij *Agave guengola* Gentry. *Succulenta* 70(12): 257-260, ills.

[245] Ullrich, B. (1991). De systematische positie van *Agave felgeri* Gentry. *Succulenta*

70(7/8): 147-150, ills., map.

[246] Venter, K. (1991). *Euphorbia lydenburgensis* Schweikerdt & Letty and a population of distinct plants. *Euphorbia J.* 7: 42-45, ills.

[247] Vijayavalli, B. & Mathew, P. M. (1991). Studies in South Indian *Liliaceae*: 3. Cytology of twelve species of *Aloe*. *New Bot.* 17(3-4): 255-266. [Dated 1990, most probably only published 1991.]

[248] Vollesen, K. (1989). *Vitaceae*. In: HEdberg, I. & Edwards, S. (eds.): *Flora of Ethiopia*, Vol. 3: 399-418, ills., key. Addis Ababa / Asmara (Ethiopia) / Uppsala (S): National Herbarium Ethiopia & Dept. Syst. Bot. Uppsala.. [Previously omitted.]

[249] Vosa, C. G. & Bassi, P. (1991). Chromosome (sic !) studies in the Southern African flora: 95-102. The basic karyotype of eight species of succulent *Euphorbia* L. *Caryologia* 44: 27-33.

[250] Wagenaar Hummelinck, P. (1991). Over *Opuntia curassavica* en *Opuntia repens*. *Succulenta* 70(11): 231-234, ills.

[251] Walker, C. C. (1991). *Aloe dumetorum* – a dwarf Kenyan endemic. *Brit. Cact. Succ. J.* 9(2): 28-31, ills., map.

[252] Walker, C. C. & Thorburn, M. (1991). *Kleinia (Senecio) anteuphorbium* (L.) Haw. – A Moroccan endemic. *Aloe* 28(1): 18-22, ills., map.

[253] Weber, R. (1990). Bemerkungen zu einigen feindomigen Formen aus dem *Rebutia fiebrigii* (Gürke) Br. & R. -Komplex. Teil 1. Inform.-Brief ZAG Echinopseen No. 15: 19-23, ills.

[254] Weber, R. (1990). Der *Rebutia heliosa* Rausch-Formenkreis. Inform.-Brief ZAG Echinopseen No. 14: 5-10, ills., map. [Concluded from no. 13.]

[255] Weskamp, W. (1991). *Parodia taratensis* Cardenas. *Kakt. and. Sukk.* 42(2): 53, ill.

[256] Zappi, D. C. (1991). Flora da Serra do Cipó, Minas Gerais: *Cactaceae*. *Bol. Bot. Univ. São Paulo* 12: 43-59. [Dated 1990, received at K 29. 7. 1991.]



## BIBLIOGRAPHIA - Cross-References of Author Names

- Albers, F.: → Sylla, T.  
 Alpinar, K.: → Hart, H. 't  
 Balakrishnan, N. P.: → Binoj Kumar, M. S.  
 Bassi, P.: → Vosa, C. G.  
 Baumann, H.: → Hooek, H.  
 Bittrich, V.: → Hartmann, H. E. K.  
 Blackmore, S.: → Humphries, C. J.  
 Bruyns, P. V.: → Forster, P. I.  
 Cadena, R. D.: → Leon de la Luz, J. L.  
 Esteves Pereira, E.: → Braun, P. J.  
 Forster, P. I.: → Bruyns, P. V.  
 Galán de Mera, A.: → Navarro, G.  
 Gandhi, K. N.: → Kartesz, J. T.  
 Garcia Villanueva, E.: → Hernandez Garcia, G.  
 González E., M.: → Galván V., R.  
 Ham, C. H. J. van: → Hart, H. 't  
 Hammer, S.: → Liede, S.  
 Hanson, C.: → Dimmitt, M. A.  
 Hardy, D. S.: → Glen, H. F.  
 Herring, C.: → Reynolds, T.  
 Huber, H.: → Stuppy, W.  
 Liede, S.: → Hammer, S.  
 Liede, S.: → Kunze, H.  
 Müller-Hohenstein, K.: → Deil, U.  
 Marais, W.: → Guillaumet, J. L.  
 Mathew, P. M.: → Vijayavalli, B.  
 Mauseth, J. D.: → Sajeve, M.  
 Meve, U.: → Albers, F.  
 Newton, L. E.: → Hartmann, H. E. K.  
 Niesler, I.: → Hartmann, H. E. K.  
 Ruthow, J.: → Blum, W.  
 Schill, R.: → Dannenbaum, C.  
 Solichon, J.-M.: → Lyons, J.-L.  
 Stanik, R.: → Lux, A.  
 Strecker, W.: → Heck, W. van  
 Struck, M.: → Bittrich, V.  
 Taylor, N. P.: → Eggli, U.  
 Taylor, N. P., eds.: → Hunt, D. R.  
 Thorburn, M.: → Walker, C. C.  
 Tiedt, L. R.: → Smith, G. F.  
 Trujillo, B.: → Ponce, M.  
 Viveros Colorado, C.: → Cházaro B., M.  
 Walt, J. J. A. van der: → Dreyer, L. L.  
 Weightman, B.: → Pilbeam, J.  
 Whitehead, V.: → Liede, S.  
 Wyk, B.-E. van: → Smith, G. F.  
 Yuasa, S.: → Funamoto, T.  
 Zwak, J.: → Chvastek, J.



