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for Succulent Plant Study

Organización Internacional
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Organisation International
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für Sukkulenten-Forschung

IOS

**Repertorium
Plantarum
Succulentarum
LVI (2005)**

Repertorium Plantarum Succulentarum LVI (2005)

*Index nominum novarum plantarum succulentarum anno MMV
editorum nec non bibliographia taxonomica ab U. Eggli, D. C.
Zappi et R. Nyffeler compositus.*

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Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in **bold face** type, accompanied by an indication of the nomenclatural type (name or specimen dependent on rank), followed by the herbarium acronyms of the herbaria where the holotype and possible isotypes are said to be deposited (first acronym for holotype), according to Index Herbariorum, ed. 8 and supplements as published in Taxon. Invalid, illegitimate, or incorrect names are given in *italic* type face. In either case a full bibliographic reference is given. For new combinations, the basionym is also listed. For invalid, illegitimate or incorrect names, the articles of the ICBN which have been contravened are indicated in brackets (note that the numbering of some regularly cited articles has changed in the Tokyo (1994) edition of the ICBN).
- The compilers would like to point out that they do not accept any names that might be inadvertently validated in this volume of RPS.
- Bibliographic details of papers dealing only with the description of one or two new taxa are not repeated in the bibliographic section.
- Abbreviations for periodicals are those suggested in 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995')) for specialized periodicals, or those of Bibliographia Periodicorum Huntianum Ed. 2 (BPH2) for most other periodicals.

Konventionen im Zusammenhang mit dem Repertorium Plantarum Succulentarum

- Das Repertorium Plantarum Succulentarum ist eine jährlich herausgegebene Zusammenstellung neuer Namen für sukkulente Pflanzen und der relevanten systematischen Literatur. Neue Namen, die nach der Drucklegung der Ausgabe des betreffenden Jahres bekannt werden, erscheinen in der nächsten erreichbaren Ausgabe. Spezialisierte Zeitschriften werden umfassend durchgesehen, soweit sie in den Bibliotheken von Z und ZSS vorhanden sind oder den Herausgebern privat vorliegen. Die Herausgeber bitten alle Autoren dringend, Separata relevanter Publikationen zur Verfügung zu stellen, vor allem wenn es sich um Beiträge in schwer zugänglichen Serien handelt.
- Gültig veröffentlichte Namen werden in **Fettschrift** wiedergegeben unter Angabe des nomenklatorischen Typs (Name oder Belegexemplar je nach Rangstufe; gefolgt von den Herbarabkürzungen [entsprechend Index Herbariorum, ed. 8, und in Taxon publizierten Supplementen] der publizierten Hinterlegungsorte für Holotyp [1. Abkürzung] und Isotypen). Ungültige, illegitime oder falsch angewandte Namen erscheinen in *Kursivschrift* unter Angabe (in Klammer) derjenigen Artikel des ICBN, die verletzt worden sind. In allen Fällen folgen die kompletten bibliographischen Angaben. Für Umkombinationen wird auch das Basionym angegeben. Im Weiteren ist zu beachten, dass die Nummerierung einiger häufig zitierter Artikel mit dem Erscheinen der Tokyo-Version (1994) des ICBN geändert hat.
- Die Herausgeber weisen mit aller Deutlichkeit darauf hin, dass sie keinen Namen anerkennen, der zufälligerweise in dieser Ausgabe des RPS validiert worden sein könnte.
- Beiträge, welche nur Beschreibungen eines oder zweier Taxa enthalten, werden in der bibliographischen Liste nicht separat aufgeführt.
- Die Abkürzungen für spezialisierte Sukkulente-Zeitschriften richten sich nach 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995')), für allgemeine botanische Zeitschriften in der Regel nach Bibliographia Periodicorum Huntianum Ed. 2 (BPH2).

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Compilers' Preface

After two years with delayed publication, RPS is finally back on schedule and appears just in time for the 2006 IOS Congress in Zürich. We are grateful to all those involved who have made this possible. Thanks go to Anita Lendel (Z) who helped extensively with the scanning of botanical periodicals received at the library at Z.

Thanks are also due to all the colleagues who supplied us with separate prints of their publications. Fortunately, today's technology makes the distribution of reprints in electronic form easy and economic. We continue to urge all those publishing in the field of succulent plant botany to supply reprints (paper copies, or electronically as pdf to urs.eggli@zuerich.ch) for the library of the Sukkulenten-Sammlung. The availability of reprints does not only make the compilation of RPS easier, but also helps to keep our library up-to-date. Incidentally, the entire bibliographical data published in RPS as well as the complete catalogue of the ZSS library will at the time this RPS is published be available in a searchable version on the Web (www.zuerich-herbarien-unizh.ch/spic) thanks to the efforts of one of us (RN). The nomenclatural data from RPS will be made available through the same URL in the near future.

Vorwort der Herausgeber

Während der letzten beiden Jahren erschien das RPS leider mit grosser Verspätung. Umso mehr freut es uns, dass RPS dieses Jahr wieder zum üblichen Publikationstermin und eben gerade rechtzeitig zum IOS-Kongress 2006 erscheinen kann. Wir sind allen Beteiligten dankbar, dass dies möglich geworden ist. Ein besonderer Dank geht an Anita Lendel (Z), welche sich intensiv um die Durchsicht der allgemeinen botanischen Zeitschriften in der Bibliothek Z gekümmert hat.

Ein Dank geht ferner an alle Fachkolleginnen und -kollegen, welche uns mit Sonderdrucken ihrer Veröffentlichungen bedient haben. Glücklicherweise erlaubt die heutige Technologie eine einfache und kostengünstige Verteilung von Sonderdrucken in elektronischer Form. So wiederholen wir unsere Bitte an alle Autorinnen und Autoren im weiten Feld der Sukkulentenbotanik, uns für die Bibliothek der Sukkulenten-Sammlung Sonderdrucke ihrer Arbeiten zuzustellen (in Papierform, oder elektronisch im pdf-Format an urs.eggli@zuerich.ch). Das Vorliegen von Sonderdrucke macht nicht nur die Zusammenstellung des RPS einfacher, sondern hilft auch mit, unsere Bibliothek aktuell zu halten. Dank dem Engagement von RN werden übrigens die gesamten im RPS publizierten bibliographischen Angaben sowie der vollständige Katalog der ZSS-Bibliothek zum Zeitpunkt des Erscheinens dieses Heftes im Internet (unter www.zuerich-herbarien-unizh.ch/spic/) in einer suchbaren Version einsehbar sein. Die nomenklatorischen Daten der RPS-Datenbank werden in naher Zukunft unter derselben URL ebenfalls zugänglich gemacht werden.

NOMINA NOVA

AGAVACEAE

- Agave** 'Blue Flame' Trager, Cact. Succ. J. (US) 77(2): 92, ill., 2005. [= *Agave shawii* (seed parent) × *A. attenuata*.]
- Agave segurae** D. Guillot & P. van der Meer, Flora Montiber. 29: 30, fig. 1 (p. 33), 2005. Typus: *Guillot & van der Meer* s.n. (VAL).
- Agave valenciana** Cházaro & A. Vázquez, Novon 15(4): 525-527, ill., 2005. Typus: *Vargas-Rodríguez & al.* 436 (IEB, ENCB, GUADA, IBUG, MEXU, MO, WIS, XAL).
- Agave vazquez-garciae** Cházaro & al., Succulentas (Barcelona) No. 31: 13, 2005. *Nom. inval.* (Art. 32.1c).
- Manfreda galvaniae** A. Castañeda & al., Acta Bot. Mex. 72: 66-68, ill. (incl. p. 75), 2005. Typus: *Castañeda Rojas & al.* 108 (MEXU, ENCB, IEB, MO).

AIZOACEAE

- Bergeranthus albomarginatus** A. P. Dold & S. A. Hammer, Haseltonia 11: 83, fig. 1B (p. 80), 2005. Typus: *Dold* 3943 (GRA, BOL, PRE).
- Bergeranthus nanus** A. P. Dold & S. A. Hammer, Haseltonia 11: 92, fig. 1H (p. 80), 2005. Typus: *Dold* 4388 (GRA, BOL, PRE).
- Brownanthus vaginatus** (Lamarck) Chesselet & Pignal, Bothalia 35(1): 33, 2005. Basionym: *Mesembryanthemum vaginatum*.
- Brownanthus vaginatus** ssp. *schenckii* (Schinz) Chesselet & Pignal, Bothalia 35(1): 33, 2005. Basionym: *Mesembryanthemum schenckii*.
- Oscularia cremnophila** van Jaarsveld & al., Bothalia 35(2): 160-161, ill., 2005. Typus: *van Jaarsveld* 18404 (PRE).
- Phiambolia gydouwensis** (L. Bolus) Klak, Bradleya 23: 102, ill. (p. 99), 2005. Basionym: *Mesembryanthemum unicum* var. *gydouwense*.
- Phyllobolus humilis** (L. Bolus) Klak, Bradleya 23: 103, ill. (p. 99), 2005. Basionym: *Sphalmanthus humilis*.
- ×*Rhinerictus* S. A. Hammer, Mesemb Study Group Bull. 20(2): 38, 2005. *Nom. inval.* (Art. 34.1b). [= *Rhinephyllum* × *Agnirictus*.]
- ×*Rhinomat* S. A. Hammer, Mesemb Study Group Bull. 20(2): 38, 2005. *Nom. inval.* (Art. H6.2). [= *Rhinephyllum* × *Stomatium*.]
- Ruschiella** Klak, Bradleya 23: 100, 2005. Typus: *Mesembryanthemum argenteum* L. Bolus.
- Ruschiella argentea** (L. Bolus) Klak, Bradleya 23: 101, ill. (p. 99), 2005. Basionym: *Mesembryanthemum argenteum*.
- Ruschiella henricii** (L. Bolus) Klak, Bradleya 23: 101, ill. (p. 99), 2005. Basionym: *Mesembryanthemum henricii*.
- Ruschiella lunulata** (A. Berger) Klak, Bradleya 23: 101, 2005. Basionym: *Mesembryanthemum lunulatum*.

ALOEACEAE

- Aloe** 'Coromandel Gold' T. Saunderson, Alsterworthia Internat. 5(3): 17, ill. (pp. 17-18), 2005. [Hybrid, parentage not disclosed.]
- Aloe** 'White Fang' Kemble, Alsterworthia Internat. 5(2): 15, ill., 2005. [= *Aloe humilis* 'Edward Hummel' × *A. glauca*.]
- Aloe arborescens** ssp. *mzimnyati* van Jaarsveld & A. E. van Wyk, Aloe 42(3): 40-41, ill., 2005. Typus: *van Jaarsveld & Xaba* 18211 (PRE).
- Aloe humilis** 'Hummel's Select' Kemble, Alsterworthia Internat. 5(2): 14, ill., 2005. [Without statement of origin.]
- Aloe imalotensis** var. *longiracemosa* Castillon, Kakt. and. Sukk. 56(10): 270-271, ill., 2005. Typus: *Castillon* 17 (HBG). [Sphalm. 'longiracemosa'.]
- Aloe philippeii** Castillon, Kakt. and. Sukk. 56(10): 267-269, ill., 2005. Typus: *Castillon* 1615 (HBG).
- Aloe rooeslii** Lavranos & T. A. McCoy, Kakt. and. Sukk. 56(3): 67-68, ill., 2005. Typus: *Röösli & Hoffmann* 53/01 (TAN).
- Gasteria** 'Ilibarty' R. Scott, Alsterworthia Internat. 15(3): 14, ill., 2005. [= (*Gasteria bicolor* var. *liliputana* × *G. batesiana* var. *batesiana*) × *Gasteria* 'Little Warty'.]
- Gasteria** 'Perfell' R. Scott, Alsterworthia Internat. 15(3): 14-15, ill., 2005. [= *Gasteria* 'Perfectus' × *G. ellaphiae*.]
- Gasteria doreniae** van Jaarsveld & A. E. van Wyk, Aloe 41(4): 81-82, ill., 2005. Typus: *Court* 448 (NBG). [Dated 2004, received 13. 3. 2005.]
- Gasteria tukhelensis** van Jaarsveld, Bothalia 35(2): 164-165, ill., 2005. Typus: *van Jaarsveld & al.* 17996 (NBG).
- Haworthia arabesqua** M. Hayashi, Haworthia Study No. 12: 7, ill., 2005. Typus: *Hayashi* 03-439 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia bella** M. Hayashi, Haworthia Study No. 12: 8, ill., 2005. Typus: *Hayashi* 02-26 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia caerulea** M. Hayashi & Breuer, Haworthia Study No. 12: 7, ill., 2005. Typus: *Hayashi* 04-27 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]

- Haworthia calva** M. Hayashi, *Haworthia Study* No. 12: 8, ill., 2005. Typus: *Hayashi* 04-28 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia emeralda** M. Hayashi, *Alsterworthia Internat.* No. 12: 11, ill., 2005. Typus: *Hayashi* 03-36 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia florens** M. Hayashi, *Alsterworthia Internat.* No. 12: 11, ill., 2005. Typus: *Hayashi* 03-27 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia fluffa** M. Hayashi, *Haworthia Study* No. 12: 9, ill., 2005. Typus: *Hayashi* 04-82 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia harryi** M. Hayashi, *Haworthia Study* No. 12: 9, ill., 2005. Typus: *Hayashi* 03-294 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia hastata** M. Hayashi, *Haworthia Study* No. 12: 9, ill., 2005. Typus: *Hayashi* 03-189 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia hisui** M. Hayashi, *Alsterworthia Internat.* No. 12: 10, ill., 2005. Typus: *Hayashi* 03-288 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia indigoa** M. Hayashi, *Alsterworthia Internat.* No. 12: 13, ills. (pp. 13, [16]), 2005. Typus: *Hayashi* 03-298 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia jadea** M. Hayashi, *Alsterworthia Internat.* No. 12: 13, ills. (pp. 13, [16]), 2005. Typus: *Hayashi* 03-299 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia jeffreisi** M. Hayashi, *Alsterworthia Internat.* No. 12: 10, ill., 2005. Typus: *Hayashi* 03-83 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005. Epithet probably correctable and alluding to the type locality "Jeffrey's Bay".]
- Haworthia laeta** M. Hayashi, *Alsterworthia Internat.* No. 12: 13, ills. (p. 12), 2005. Typus: *Hayashi* 03-295 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia ligulata** M. Hayashi, *Haworthia Study* No. 12: 6, ill., 2005. Typus: *Hayashi* 03-438 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia mutica** 'Robert Rodin' Trager, *Cact. Succ. J. (US)* 77(2): 99, ill., 2005. [A horticultural selection traced back to a garden in Springbok, RSA.]
- Haworthia oculata** M. Hayashi, *Alsterworthia Internat.* No. 12: 10, ill., 2005. Typus: *Hayashi* 03-432 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia pilosa** M. Hayashi, *Haworthia Study* No. 12: 7, ill., 2005. Typus: *Hayashi* 04-31 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia pusilla** M. Hayashi, *Alsterworthia Internat.* No. 12: 10, ill., 2005. Typus: *Hayashi* 03-28 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia subhamata** M. Hayashi, *Alsterworthia Internat.* No. 12: 11, ill., 2005. Typus: Res. Inst. Evol. Biol. Tokyo. [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia teres** M. Hayashi, *Haworthia Study* No. 12: 7, ill., 2005. Typus: *Hayashi* 03-41 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia velutina** M. Hayashi, *Alsterworthia Internat.* No. 12: 11, ill., 2005. Typus: *Hayashi* 03-386 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005. Sphalm. 'veltina'.]
- Haworthia veneta** M. Hayashi, *Haworthia Study* No. 12: 6, ills., 2005. Typus: *Hayashi* 03-436 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005. Sphalm. 'veneta'.]
- Haworthia villosa** M. Hayashi, *Haworthia Study* No. 12: 8, ill., 2005. Typus: *Hayashi* 03-382 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]
- Haworthia violacea** M. Hayashi, *Haworthia Study* No. 12: 9, ill., 2005. Typus: *Hayashi* 03-191 (Res. Inst. Evol. Biol. Tokyo). [Dated Dec. 2004, post-marked 16. 1. 2005.]

APOCYNACEAE

- Pachypodium mikea** J. Lüthy, *Cact. Succ. J. (US)* 77(4): 181, ills. (pp. 178-186), 2005. Typus: *Rössli & Hoffmann* 17/04 (Z, P, TAN).

ASCLEPIADACEAE

- Australluma ubomboensis** (I. Verdoorn) Bruyns, *Stapel. South. Afr. Madagascar* 1: 63, ills. (pp. 64-65), 2005. Basionym: *Caralluma ubomboensis*.
- Caralluma sudanica** Bruyns, *Aloe* 41(4): 79, ills. (p. 78), 2005. Typus: *Wickens* 27 (K). [Dated 2004, received 13. 3. 2005.]
- Ceropegia namuliensis** Bruyns, *Aloe* 41(4): 76-77, ills., 2005. Typus: *Bruyns* 9725 (BOL, K, MO). [Dated 2004, received 13. 3. 2005.]
- Cynanchum viminale** ssp. **crassicaule** Liede & Meve, *Novon* 15(2): 320-321, ills., 2005. Typus: *Goyder & al.* 4029 (K, EA, UBT).
- Cynanchum viminale** ssp. **stipitaceum** (Forsskål) Meve & Liede, *Novon* 15(2): 323, ills., 2005. Basionym: *Asclepias stipitacea*.
- Duvalia caespitosa** ssp. **pubescens** (N. E. Brown) Bruyns, *Stapel. South. Afr. Madagascar* 1: 78, ills., 2005. Basionym: *Duvalia pubescens*.

- Duvalia caespitosa** ssp. **vestita** (Meve) Bruyns, Stapel. South. Afr. Madagascar 1: 79, ills., 2005. Basionym: *Duvalia vestita*.
- Hoya andalensis** Kloppenburg, Fraterna 18(1): 1-5, ills., cover-ill., 2005. Typus: *de Vogel & Vernaden* s.n. in *IPPS 1775* (UC 20051) [Ex cult. Kloppenburg. The association of the collection details with the type are not fully established (l.c. p. 1).]
- Hoya mindorensis** ssp. **superba** Kloppenburg, Fraterna 18(3): 1, ills. (cover, pp. 1-4), 2005. Typus: *Liddle IML 768 in Wayman* 2005 (UC) [Ex cult. A. Wayman.].
- Hoya weebella** Kloppenburg, Fraterna 18(2): 1-7, ills., cover-ill., 2005. Typus: UC 20051 [Ex cult. T. Nyhuus.].
- Huernia barbata** ssp. **ingae** (Lavranos) Bruyns, Stapel. South. Afr. Madagascar 1: 176, ills., 2005. Basionym: *Huernia ingae*.
- Huernia blyderiverensis** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 1: 162, ills. (pp. 162-163), 2005. Basionym: *Huernia quinta* var. *blyderiverensis*.
- Huernia guttata** ssp. **reticulata** (Masson) Bruyns, Stapel. South. Afr. Madagascar 1: 181, ills., 2005. Basionym: *Stapelia reticulata*.
- Huernia hislopii** ssp. **cashelensis** (L. C. Leach & Plowes) Bruyns, Stapel. South. Afr. Madagascar 1: 193, ills. (pp. 193-194), 2005. Basionym: *Huernia longituba* ssp. *cashelensis*.
- Huernia hystrix** ssp. **parvula** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 1: 189, ills., 2005. Basionym: *Huernia hystrix* var. *parvula*.
- Huernia verekeri** ssp. **angolensis** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 1: 139, 2005. Basionym: *Huernia verekeri* var. *angolensis*.
- Huernia verekeri** ssp. **pauciflora** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 1: 139, ills., 2005. Basionym: *Huernia verekeri* var. *pauciflora*.
- Huernia zebrina** ssp. **insigniflora** (C. A. Maass) Bruyns, Stapel. South. Afr. Madagascar 1: 171, ills., 2005. Basionym: *Huernia insigniflora*.
- Larryleachia cactiformis** var. **felina** (D. T. Cole) Bruyns, Stapel. South. Afr. Madagascar 1: 223, ills., 2005. Basionym: *Trichocaulon felinum*.
- Orbea longii** (C. A. Lückhoff) Bruyns, Stapel. South. Afr. Madagascar 1: 322, ills., 2005. Basionym: *Stapelia longii*.
- Pectinaria longipes** ssp. **villetii** (C. A. Lückhoff) Bruyns, Stapel. South. Afr. Madagascar 2: 341, ills., (p. 342), 2005. Basionym: *Caralluma longipes* var. *villetii*.
- Piaranthus cornutus** var. **ruschii** (Nel) Bruyns, Stapel. South. Afr. Madagascar 2: 365, ills., 2005. Basionym: *Piaranthus ruschii*.
- Piaranthus geminatus** ssp. **decorus** (Masson) Bruyns, Stapel. South. Afr. Madagascar 2: 361, ills., 2005. Basionym: *Stapelia decora*.
- Piaranthus punctatus** var. **framesii** (Pillans) Bruyns, Stapel. South. Afr. Madagascar 2: 355, ills. (pp. 356-357), 2005. Basionym: *Piaranthus framesii*.
- Rhytidocaulon specksii** T. A. McCoy, Kakt. and. Sukk. 56(10): 260-262, ills., 2005. Typus: *Specks* 1862 in *McCoy* 2808 (MO, UPS).
- Stapelia grandiflora** var. **conformis** (N. E. Brown) Bruyns, Stapel. South. Afr. Madagascar 2: 470, ill., 2005. Basionym: *Stapelia conformis*.
- Stapelia hirsuta** var. **baylissii** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 2: 462, ills. (p. 463), 2005. *Nom. illeg.* (Art. 52.1), based on *Stapelia baylissii*. [Illegitimate as the prioritable *Stapelia praetermissa* var. *luteola* L. C. Leach 1984 is cited as synonym, which itself created the prioritable *S. praetermissa* var. *praetermissa*.]
- Stapelia hirsuta** var. **gariensis** (Pillans) Bruyns, Stapel. South. Afr. Madagascar 2: 464, ills. (p. 465), 2005. Basionym: *Stapelia gariensis*.
- Stapelia hirsuta** var. **tsomoensis** (N. E. Brown) Bruyns, Stapel. South. Afr. Madagascar 2: 461, ills., 2005. *Nom. illeg.* (Art. 52.1), based on *Stapelia tsomoensis*. [Illegitimate as the prioritable *Gonostemon glabricaulis* var. *forcipis* (E. Phillips & Letty) P. V. Heath 1993 is cited in the synonymy, as well as *Gonostemon glabricaulis* [var. *glabricaulis*.]
- Stapelia hirsuta** var. **vetula** (Masson) Bruyns, Stapel. South. Afr. Madagascar 2: 463, ills. (p. 464), 2005. Basionym: *Stapelia vetula*.
- Stapelia paniculata** ssp. **kougabergensis** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 2: 447, ills., 2005. Basionym: *Stapelia kougabergensis*.
- Stapelia paniculata** ssp. **scitula** (L. C. Leach) Bruyns, Stapel. South. Afr. Madagascar 2: 446, ills., 2005. Basionym: *Stapelia scitula*.
- Tromotriche pedunculata** ssp. **longipes** (C. A. Lückhoff) Bruyns, Stapel. South. Afr. Madagascar 2: 559, ills. (pp. 559-560), 2005. Basionym: *Stapelia longipes*.

ASPHODELACEAE

- Bulbine erumpens** S. A. Hammer, Cact. Succ. J. (US) 77(3): 128-129, ills., 2005. Typus: *Hammer* 2565 (BOL).
- Bulbine retinens** van Jaarsveld & S. A. Hammer, Aloe 42(1-2): 14-15, ills., 2005. Typus: *van Jaarsveld & Welsh* 15747 (NBG).
- Bulbine suurbergensis** van Jaarsveld & A. E. van Wyk, Aloe 42(3): 48-50, ills., 2005. Typus: *van Jaarsveld & Burring* 19228 (NBG).

ASTERACEAE

- Kleinia venteri** van Jaarsveld, Aloe 42(1-2): 12-13, ill., 2005. Typus: *van Jaarsveld* 11218 (PRE).
Othonna cremnophila B. Nordenstam & van Jaarsveld, Aloe 42(1-2): 4-6, ill., 2005. Typus: *van Jaarsveld* 19119 (PRE).
Senecio radicans 'Gordon Rowley' Zonneveld, Succulenta 84(3): 109, ill., 2005. [*Nom. nov. pro Senecio rowleyanus* H. Jacobsen 1968.]

BURSERACEAE

- Commiphora kaokoensis** Swanepoel, Bothalia 35(1): 47-50, ill., 2005. Typus: *Swanepoel* 1 (WIND, PRE).

CACTACEAE

- Ancistrocactus brevihamatus** var. **pallidus** A. D. Zimmerman ex A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 339, tt. 217-219, 2004. Typus: *Powell & Powell* 5924 (SRSC).
 ×**Aporepicactus** E. Meier, Kaktusblüte 2005: 35, 2005. *Nom. inval.* (Art. 34.1b, H6.4?). [*Aporocactus* × 'Epipicactus hybrids'.]
Astrophytum 'Golden Fog' Mikhaltsov, Byull. KRKS No. 2: 7-8, ill., 2005. [= Suppl. to Kakt. Klub 2004(4), publ. April 2005.]
Astrophytum alacriportanum (Backeberg & Voll) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea alacriportana*.
Astrophytum albiareolatum (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea albiareolata*.
Astrophytum albicolumnare (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea albicolumnaris*.
Astrophytum albifuscum (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea albifusca*.
Astrophytum asperispinum (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea asperispina*.
Astrophytum asterioides (Werdermann) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea asterioides*.
Astrophytum aureinitens (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea aureinitens*.
Astrophytum aureispinum (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea aureispina*.
Astrophytum aureum (Backeberg) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea aurea*.
Astrophytum bruchii (Spegazzini) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea bruchii*.
Astrophytum buenekeri (W.-R. Abraham) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. Basionym: *Frailea buenekeri*.
Astrophytum caespitosum (Britton & Rose) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 12, 2005. *Nom. inval.* (Art. 33.6, Ex. 11), based on *Echinocactus caespitosus*. [The name given as basionym is itself a combination and is here corrected.]
Astrophytum carminifilamentosum (Kilian) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. *Nom. inval.*, based on *Frailea carminifilamentosa*, *nom. inval.* (Art. 37.1).
Astrophytum castaneum (Backeberg) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea castanea*.
Astrophytum cataphractum (Dams) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Echinocactus cataphractus*.
Astrophytum chiquitanum (Cárdenas) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea chiquitana*.
Astrophytum chrysacanthum (Hrabe) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. *Nom. inval.*, based on *Frailea chrysacantha*, *nom. inval.* (Art. 8.4, 37.1).
Astrophytum curvispinum (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea curvispina*.
Astrophytum dadakii (Fric) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Echinocactus dadakii*. [Acceptable as validly published combination under Art. 33.6, Ex. 12 (ICBN 2000).]
Astrophytum deminutum (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea deminuta*.
Astrophytum friedrichii (Buining & G. Moser) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea friedrichii*.
Astrophytum fulvisetum (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea fulviseta*.
Astrophytum gracillimum (Monville ex Lemaire) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Echinocactus gracillimus*.
Astrophytum grahlianum (Haage jr. ex K. Schumann) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Echinocactus grahlianus*.

- Astrophytum horstii** (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea horstii*.
- Astrophytum ignacionense** (Buining & G. Moser) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 13, 2005. Basionym: *Frailea ignacionensis*. [Sphalm. 'ignacionensis'.]
- Astrophytum knippelianum** (Quehl) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Echinocactus knippelianus*.
- Astrophytum lepidum** (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea lepida*.
- Astrophytum mamiferum** (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea mamifera*.
- Astrophytum matoanum** (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea matoana*.
- Astrophytum melitae** (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea melitae*.
- Astrophytum moserianum** (Buining & Brederoo) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea moseriana*. [Sphalm. 'moserianum'.]
- Astrophytum perbellum** (Prestlé) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea perbella*.
- Astrophytum perumbilicatum** (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea perumbilicata*.
- Astrophytum phaeodiscum** (Spegazzini) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Echinocactus pygmaeus* var. *phaeodiscus*.
- Astrophytum pseudogracillimum** (F. Ritter) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. *Nom. inval.*, based on *Frailea pseudogracillima*, *nom. inval.* (Art. 37.1).
- Astrophytum pseudopulcherrimum** (Fric ex Y. Ito) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Frailea pseudopulcherrima*.
- Astrophytum pulcherrimum** (Arechavaleta) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Echinocactus pulcherrimus*.
- Astrophytum pullispinum** (Backeberg) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. *Nom. inval.*, based on *Frailea pullispina*, *nom. inval.* (Art. 8.2).
- Astrophytum pumilum** (Lemaire) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Echinocactus pumilus*.
- Astrophytum pygmaeum** (Spegazzini) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 14, 2005. Basionym: *Echinocactus pygmaeus*.
- Astrophytum schilinzkyanum** (F. Haage ex K. Schumann) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 15, 2005. Basionym: *Echinocactus schilinzkyanus*.
- Astrophytum uhligianum** (Backeberg) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 15, 2005. *Nom. inval.*, based on *Frailea uhligiana*, *nom. inval.* (Art. 8.2).
- Cleistocactus hoffmannii** G. Charles, Cact. Syst. Init. No. 20: 12-13, 2005. Typus: *Knize* 1896 (K, ZSS [iso?]) [Holotype ex cult. G. Charles.]. [Based on the description of *Loxanthocereus hoffmannii* F. Ritter 1981 (*nom. inval.*, Art. 37.1).]
- Cleistocactus jajoanus** (Backeberg) G. Charles, Cact. Syst. Init. No. 20: 13, 2005. Basionym: *Borzicactus jajoanus*.
- Cleistocactus winteri** ssp. *colademono* D. R. Hunt, Cact. Syst. Init. No. 20: 14, 2005. Typus: *Krahn* 950 (KOELN). [*Nom. nov. pro Hildewintera colademononis* Diers & al. 2003.]
- Copiapoa aphanes** Helmut Walter & Mächler, Kakt. and. Sukk. 56(4): 101-102, ills. (pp. 99-103), 2005. Typus: *Walter & Mächler* 449 (SGO).
- Copiapoa megarhiza** ssp. *parvula* Mächler & Helmut Walter, Kakt. and. Sukk. 56(11): 297-298, ills., 2005. Typus: *Walter & Mächler* 391 (SGO).
- Copiapoa taltalensis** ssp. *desertorum* (F. Ritter) G. Charles, in A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 164, 2005. Basionym: *Copiapoa desertorum*. [Dated 2004, publ. March 2005.]
- Coryphantha echinus** var. *robusta* A. M. Powell, Cacti Trans-Pecos Adjacent Areas, 455, tt. 302-304, 2004. Typus: *Powell* 5829 (SRSC).
- Coryphantha pottsiana** (Poselger) A. D. Zimmerman, in A. M. Powell & Weedon, Cacti Trans-Pecos Adjacent Areas, 428, tt. 284-285, 2004. Basionym: *Echinocactus pottsianus*.
- Coryphantha sneedii** var. *albicolumnaria* (Hester) A. D. Zimmerman, in A. M. Powell & Weedon, Cacti Trans-Pecos Adjacent Areas, 424, tt. 279-283, 2004. *Nom. inval.* (Art. 34.1b), based on *Escobaria albicolumnaria*. [Published as provisional name ("forthcoming").]
- Coryphantha sneedii** var. *guadalupensis* (S. Brack & K. D. Heil) A. D. Zimmerman, in A. M. Powell & Weedon, Cacti Trans-Pecos Adjacent Areas, 420, tt. 275-276, 2004. *Nom. inval.* (Art. 34.1b), based on *Escobaria guadalupensis*. [Published as provisional name ("forthcoming").]
- Coryphantha tuberculosa** var. *varicolor* (Tiegel) A. D. Zimmerman, in A. M. Powell & Weedon, Cacti Trans-Pecos Adjacent Areas, 436, tt. 288-289, 2004. *Nom. inval.* (Art. 34.1b), based on *Coryphantha varicolor*. [Published as provisional name ("forthcoming").]

- Coryphantha vorwerkii** (Fric) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 12(1): 8, 2005. Basionym: *Neowerdermannia vorwerkii*.
- Cumulopuntia crassicylindrica** (Rauh & Backeberg) F. Ritter ex Eggli, Novon 15(2): 278, 2005. Basionym: *Tephrocactus crassicylindricus*. [First published invalidly (Art. 33.3) by F. Ritter, Kakt. Südamer. 4: 1254, 1981 (and erroneously included as valid in RPS 32, but exact page reference not cited).]
- Disocactus flagriformis** (Zuccarini) Scheinvar, Fl. Cactol. Estado Querétaro, 156, 2004. Basionym: *Cereus flagriformis*.
- ×**Disophyllum** ‘Tobias’ Uhlig, Epi-Flora (Nijmegen) No. 1: 2-3, ills., 2005. [= ×*Aporophyllum* ‘Moonlight’ × ×*Disophyllum* ‘Frühlingsahnen’.]
- Echinocactus grusonii* fa. *setispinus* hort. ex Scarascia, Cactus & Co. 9(2): 123, 2005. *Nom. inval.* (Art. 36.1, 37.1). [Chance seedlings from cultivation.]
- Echinocactus grusonii* fa. *setispinus* ‘Scarascia’ hort. ex Scarascia, Cactus & Co. 9(2): 123-126, ills., 2005. *Nom. inval.* (Art. 43.1).
- Echinocereus chisoensis** ssp. **fobeanus** (Oehme) N. P. Taylor, Cact. Syst. Init. No. 19: 10, 2005. Basionym: *Echinocereus fobeanus*.
- Echinocereus coccineus* var. *rosei* (Wooton & Standley) A. D. Zimmerman, in A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 203, tt. 115-116, 2004. *Nom. inval.* (Art. 34.1b), based on *Echinocereus rosei*. [Published as provisional name (“forthcoming”).]
- Echinocereus fitchii** ssp. **bergmannii** W. Blum, Echinocereus reichenbachii-fitchii-Komplex, 265, ills. (pp. 268-284), 2005. Typus: *Bergmann 221* (UAT).
- Echinocereus reichenbachii** ‘Chik’ Fedukin, Byull. KRKS No. 3: 9, ill., 2005. [A chlorophyll-deficient mutant from cultivation.]
- Echinocereus reichenbachii** ssp. **comanchensis** D. Felix & Oldach, Echinocereus reichenbachii-fitchii-Komplex, 209, ills. (pp. 213-222), 2005. Typus: *Oldach 229* (ZSS) [Ex cult. T. Oldach 2004.].
- Echinocereus rigidissimus** ssp. **rubispinus** Karl Werner Beisel W. Blum, Echinocereenfreund 18(4): 87-90, ills., 2005. [A white-flowering form obtained in cultivation.]
- Echinocereus* ×*roetteri* var. *neomexicanus* (J. M. Coulter) A. D. Zimmerman, in A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 211, tt. 124-125, 2004. *Nom. inval.* (Art. 34.1b), based on *Cereus dasyacanthus* var. *neomexicanus*. [Published as provisional name (“forthcoming”).]
- Echinocereus viridiflorus* var. *neocapillus* (Weniger) Leuck ex A. D. Zimmerman, in A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 267, tt. 164-165, 2004. *Nom. inval.* (Art. 34.1b), based on *Echinocereus chloranthus* var. *neocapillus*. [Published as provisional name (“forthcoming”).]
- Echinocereus viridiflorus* var. *russanthus* (Weniger) A. D. Zimmerman, in A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 263, tt. 160-163, 2004. *Nom. inval.* (Art. 34.1b), based on *Echinocereus russanthus*. [Published as provisional name (“forthcoming”).]
- Echinopsis** ‘Hallucination’ Trager, Cact. Succ. J. (US) 77(2): 91, ill., 2005. [A third-generation descendant of the Paramount hybrids.]
- Echinopsis aurea** ssp. **fallax** (Oehme) M. Lowry, Cact. Syst. Init. No. 19: 11, 2005. Basionym: *Lobivia fallax*.
- Echinopsis aurea** ssp. **shaferei** (Britton & Rose) M. Lowry, Cact. Syst. Init. No. 19: 11, 2005. Basionym: *Lobivia shaferei*.
- Echinopsis backebergii** ssp. **wrightiana** (Backeberg) M. Lowry, Cact. Syst. Init. No. 20: 15, 2005. Basionym: *Lobivia wrightiana*.
- Echinopsis bridgesii** ssp. **vallegrandensis** (Cárdenas) M. Lowry, Cact. Syst. Init. No. 19: 12, 2005. Basionym: *Echinopsis vallegrandensis*.
- Echinopsis chiloensis** ssp. **skottsbergii** (Backeberg ex Skottsberg) G. Charles, Cact. Syst. Init. No. 19: 13, 2005. Basionym: *Trichocereus skottsbergii*.
- Echinopsis oligotricha** (Cárdenas) M. Lowry, Cact. Syst. Init. No. 19: 12, 2005. Basionym: *Lobivia oligotricha*.
- Echinopsis pugionacantha** ssp. **haemantha** (Rausch) M. Lowry, Cact. Syst. Init. No. 19: 12, 2005. Basionym: *Lobivia pugionacantha* var. *haemantha*.
- Echinopsis thionantha** ssp. **glauca** (F. Ritter) M. Lowry, Cact. Syst. Init. No. 19: 12, 2005. Basionym: *Acanthocalycium glaucum*.
- Epiphyllum** ‘Deutschlands Riese’ Süpplie, Epi-Flora (Nijmegen) No. 1: 5, ills., 2005. [= *Epiphyllum* ‘Mexa Kelly’ × *Epiphyllum* #245.]
- Epiphyllum** ‘Terry Hewitt’ Süpplie, Epi-Flora (Nijmegen) No. 1: 5, ills., 2005. [= *Epiphyllum* ‘Oriana’ × *Epiphyllum* #227.]
- Eriosyce calderana** (F. Ritter) Ferryman, Cact. Syst. Init. No. 20: 15, 2005. Basionym: *Pyrrhocactus calderanus*.
- Eriosyce caligophila** R. Pinto, Bradleya 23: 1-3, ills., SEM-ills., 2005. Typus: *Pinto & Kirberg 157665* (CONC).
- Eriosyce curvispina** ssp. **marksiana** (F. Ritter) Ferryman, in A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 214, 2005. Basionym: *Pyrrhocactus marksianus*. [Dated 2004, publ. March 2005.]
- Eriosyce curvispina** var. **limariensis** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 208, 2005. Basionym: *Pyrrhocactus limariensis*. [Dated 2004, publ. March 2005.]
- Eriosyce curvispina** var. **lissocarpa** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 214, 2005. Basionym: *Pyrrhocactus lissocarpus*. [Dated 2004, publ. March 2005.]

- Eriosyce eriosyzoides** var. **carrizalensis** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 222, 2005. Basionym: *Pyrrhocactus carrizalensis*. [Dated 2004, publ. March 2005.]
- Eriosyce eriosyzoides** var. **huascensis** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 222, 2005. Basionym: *Pyrrhocactus huascensis*. [Dated 2004, publ. March 2005.]
- Eriosyce eriosyzoides** var. **totalensis** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 222, 2005. Basionym: *Pyrrhocactus totalensis*. [Dated 2004, publ. March 2005.]
- Eriosyce eriosyzoides** var. **transitensis** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 220, 2005. Basionym: *Pyrrhocactus transitensis*. [Dated 2004, publ. March 2005.]
- Eriosyce meglioli** (Rausch) Ferryman, Cact. Syst. Init. No. 20: 16, 2005. Basionym: *Pyrrhocactus meglioli*.
- Eriosyce napina** ssp. **challensis** I. Schaub & Keim, Cactus & Co. 9(2): 111-113, ill., (pp. 104, 108-113), 2005. Typus: *Schaub & Keim* s.n. (SGO 151590).
- Eriosyce odieri** ssp. **malleolata** (F. Ritter) A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 258, 2005. Basionym: *Chileorebutia malleolata*. [Dated 2004, publ. March 2005.]
- Eriosyce odieri** var. **weisseri** A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 258-259, ill., (t. 96b), 2005. Typus: *Hoffmann* s.n. (SGO). [Dated 2004, publ. March 2005.]
- Eriosyce paucicostata** ssp. **echinus** (F. Ritter) Ferryman, in A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 232, 2005. Basionym: *Pyrrhocactus echinus*. [Dated 2004, publ. March 2005.]
- Eriosyce spectabilis* A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 236-237, ill., (t. 85), 2005. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name. Dated 2004, published March 2005.]
- Eriosyce taltalensis** ssp. **pygmaea** (F. Ritter) Ferryman, in A. E. Hoffmann & Helmut Walter, Cact. Fl. Chile, ed. 2, 240, 2005. Basionym: *Pyrrhocactus pygmaeus*. [Dated 2004, publ. March 2005.]
- Espositoa guentheri** (Kupper) Buxbaum *ex* Egli, Novon 15(2): 278, 2005. Basionym: *Cephalocereus guentheri*. [First published invalidly (Art. 33.3) by Buxbaum, Österr. Bot. Zeitschr. 106: 155, 1959.]
- Eulychnia iquiquensis** ssp. **ritteri** (Cullmann) D. R. Hunt, Cact. Syst. Init. No. 19: 13, 2005. Basionym: *Eulychnia ritteri*.
- Ferocactus chrysacanthus** 'Jakudza' Fedukin, Byull. KRKS No. 3: 11, ill., 2005. [A chlorophyll-deficient mutant from cultivation.]
- Ferocactus emoryi** ssp. **covillei** (Britton & Rose) D. R. Hunt & Dimmitt, Cact. Syst. Init. No. 20: 16, 2005. Basionym: *Ferocactus covillei*. [Repeated l.c. No. 21: 11, 2006, in the belief that the 2005-publication was invalid under Art. 33.3.]
- Ferocactus latispinus** ssp. **greenwoodii** (Glass) N. P. Taylor, Cact. Syst. Init. No. 20: 17, 2005. Basionym: *Ferocactus recurvus* var. *greenwoodii*.
- Ferocactus peninsulae** ssp. **santa-maria** (Britton & Rose) Pilbeam & Bowdery, Ferocactus, 82, ill., 2005. Basionym: *Ferocactus santa-maria*.
- Ferocactus peninsulae** ssp. **townsendianus** (Britton & Rose) Pilbeam & Bowdery, Ferocactus, 83, ill., 2005. Basionym: *Ferocactus townsendianus*.
- Ferocactus recurvus** ssp. **greenwoodii** (Glass) Pilbeam & Bowdery, Ferocactus, 91, ill., 2005. Basionym: *Ferocactus recurvus* var. *greenwoodii*.
- Ferocactus townsendianus* 'Variegated Surprise' Mikhailtsov, Byull. KRKS No. 3: 12, 2005. *Nom. inval.* (Art. ICNCP 24.1?). [Probably invalid under Art. 24.1 ICNCP for lack of a precise page reference to the previously published description.]
- Ferocactus wislizeni** ssp. **herrerae** (J. G. Ortega) Pilbeam & Bowdery, Ferocactus, 103, ill., 2005. Basionym: *Ferocactus herrerae*.
- Ferocactus wislizeni** ssp. **tiburonensis** (G. Lindsay) Pilbeam & Bowdery, Ferocactus, 105, ill., 2005. Basionym: *Ferocactus wislizeni* var. *tiburonensis*.
- Gymnocalycium** 'Choco' Mikhailtsov, Byull. KRKS No. 2: 5, ill., 2005. [= Suppl. to Kakt. Klub 2004(4), publ. April 2005.]
- Gymnocalycium** 'Dragon's Tooth' Mikhailtsov, Byull. KRKS No. 2: 6-7, ill., 2005. [= Suppl. to Kakt. Klub 2004(4), publ. April 2005.]
- Gymnocalycium** 'Jupiter' Mikhailtsov, Byull. KRKS No. 2: 5-6, ill., 2005. [= Suppl. to Kakt. Klub 2004(4), publ. April 2005.]
- Gymnocalycium* 'Mars' Mikhailtsov, Byull. KRKS No. 3: 12, 2005. *Nom. inval.* (Art. ICNCP 24.1?). [Probably invalid under Art. 24.1 ICNCP for lack of a precise page reference to the previously published description.]
- Gymnocalycium** 'Master Watanabe' Mikhailtsov, Byull. KRKS No. 3: 12, 2005. [*Nom. nov. pro* *Gymnocalycium mihanovichii* 'Master Watanabe' Mikhailtsov 2003.]
- Gymnocalycium** 'Mercury' Mikhailtsov, Byull. KRKS No. 2: 7, ill., 2005. [= Suppl. to Kakt. Klub 2004(4), publ. April 2005.]
- Gymnocalycium* 'Zebra Violet' Mikhailtsov, Byull. KRKS No. 3: 12, 2005. *Nom. inval.* (Art. ICNCP 24.1?). [*Nom. nov. pro* *Gymnocalycium* × *friedrichii* 'Zebra Violet' Mikhailtsov 2003 (*nom. inval.*). Probably invalid under Art. 24.1(d) for lack of a page reference to the previously published description.]

- Gymnocalycium* Sect. *Chiquitana* Rogatskin, Rod Gymnocalycium, 141, 2005. *Nom. inval.* (Art. 33.3, 36.1).
- Gymnocalycium* Sect. *Schickendantziana* Rogatskin, Rod Gymnocalycium, 141, 2005. *Nom. inval.* (Art. 33.3, 36.1). [Sphalm. 'Schickendantziana'.]
- Gymnocalycium anisitsii* ssp. *damsii*** (K. Schumann) G. Charles, Cact. Syst. Init. No. 20: 17, 2005. Basionym: *Echinocactus damsii*.
- Gymnocalycium cardenasianum*** 'Mustang' Fedukin, Byull. KRKS No. 3: 11, ill., 2005. [A chlorophyll-deficient mutant from cultivation.]
- Gymnocalycium carolinense*** (Neuhuber) Neuhuber, Gymnocalycium 18(4): 639, ill., 2005. Basionym: *Gymnocalycium andreae* ssp. *carolinense*.
- Gymnocalycium castellanii* ssp. *ferocior*** (Backeberg ex H. Till & Amerhauser) G. Charles, Cact. Syst. Init. No. 20: 18, 2005. Basionym: *Gymnocalycium mostii* ssp. *ferocior*.
- Gymnocalycium gibbosum* ssp. *borthii*** (Koop ex H. Till) G. Charles, Cact. Syst. Init. No. 20: 18, 2005. Basionym: *Gymnocalycium borthii*.
- Gymnocalycium glaucum* ssp. *ferrarii*** (Rausch) G. Charles, Cact. Syst. Init. No. 20: 18, 2005. Basionym: *Gymnocalycium ferrarii*.
- Gymnocalycium jochumii*** Neuhuber, Gymnocalycium 18(1): 605-606, ill., SEM ill., 2005. Typus: *Neuhuber* 96-888 (BA, WU). [See comment l.c. 607 on the type number.]
- Gymnocalycium jochumii* var. *jugum*** Neuhuber, Gymnocalycium 18(1): 606-607, ill., 2005. Typus: *Neuhuber* 96-891 (BA, WU). [See comment l.c. 607 on the type number.]
- Gymnocalycium megalothelos* ssp. *prestleanum*** H. Till, Gymnocalycium 18(2): 625, ill. (p. 624), 2005. Typus: *Prestlé* 400 (ICN) [Ex cult. H. Till no. 3536.].
- Gymnocalycium megalothelos* var. *susannae*** H. Till, Gymnocalycium 18(2): 624, ill. (p. 623), 2005. Typus: *Rausch* s.n. (MVM) [Ex cult. H. Till HT 927.]. [Spelling of the species epithet corrected to 'megalothelon'.]
- Gymnocalycium monvillei*** 'White Coral' Mikhailov, Byull. KRKS No. 2: 8, ill., 2005. [= Suppl. to Kakt. Klub 2004(4), publ. April 2005.]
- Gymnocalycium nataliae*** Neuhuber, Gymnocalycium 18(3): 635-638, ill., 2005. Typus: *Neuhuber* 88-94 (BA, WU).
- Gymnocalycium pflanzii* ssp. *zegarrae*** (Cárdenas) G. Charles, Cact. Syst. Init. No. 20: 18, 2005. Basionym: *Gymnocalycium zegarrae*.
- Gymnocalycium ritterianum* var. *acentracanthum*** F. Berger, Gymnocalycium 18(1): 601, ill. (pp. 600-602), 2005. Typus: *Berger* Be97-76/305 (CORD).
- Gymnocalycium schickendantzii* ssp. *delaetii*** (K. Schumann) G. Charles, Cact. Syst. Init. No. 20: 18, 2005. Basionym: *Echinocactus delaetii*.
- Gymnocalycium spegazzinii* fa. *unguispinum*** Slaba, Kaktusy 41(2): 41, ill. (pp. 39-41), 2005. Typus: *Slaba* 44b (PR 11862).
- Haageocereus chilensis*** F. Ritter ex D. R. Hunt, Cact. Syst. Init. No. 20: 19, 2005. Typus: *Ritter* s.n. (U). [Name first used by F. Ritter in H. Winter, Katalog V: 9, 1958 and equalling *Haageocereus fascicularis* sensu F. Ritter, Kakt. Südamer. 3: 1125-1126, 1980.]
- × ***Haagespostoa villigera*** (Rauh & Backeberg) Ostolaza, Brit. Cact. Succ. J. 23(1): 31, 2005. Basionym: *Neobinghamia villigera*.
- Hylocereus undatus* ssp. *luteocarpus*** Calix de Dios, Haseltonia 11: 12-13, ill., 2005. Typus: *Martínez* 608 (XAL, XAL).
- + ***Hylogymnocalycium*** G. D. Rowley, Brit. Cact. Succ. J. 23(1): 12, 2005. [*Nom. nov. pro* +*Hylocalycium* P. V. Heath (*nom. inval.*, Art. 21.3 ICNCP ed. 2004).]
- + ***Hylogymnocalycium*** 'Singular' (P. V. Heath) G. D. Rowley, Brit. Cact. Succ. J. 23(1): 12, ill., 2005. Basionym: +*Hylocalycium singulare*.
- Lophocereus schottii* fa. *spiralis*** León de la Luz & I. Fogel, Cact. Succ. J. (US) 77(4): 188, ill., 2005. Based on *León de la Luz* 10088. *Nom. illeg.* (Art. 53.1). [A redescription of *L. schottii* fa. *spiralis* A. M. Carter 1966 with a different type.]
- Lophophora koehresii*** (Ríha) Bohata & al., Kaktusy 41(Special 2): 20, ill., 2005. Basionym: *Lophophora diffusa* var. *koehresii*.
- Lophophora williamsii* ssp. *diffusa*** (Croizat) Scheinvar, Fl. Cactol. Estado Querétaro, 212, 2004. Basionym: *Lophophora echinata* var. *diffusa*.
- Mammillaria*** 'Blando' Blando, Cactus & Co. 9(2): 116, 2005. [First described without a name l.c. 2(2): 26, ill., 1998, and presumably involving *Mammillaria gueldemanniana* var. *guirocobensis* as one parent.]
- Mammillaria*** 'Chiara Blando' Blando, Cactus & Co. 9(2): 116-117, ill., 2005. [A sport of *Mammillaria* 'Blando', which itself is a hybrid of unknown parentage.]
- Mammillaria bocasana*** 'Tania' Fedukin, Byull. KRKS No. 3: 10, ill., 2005. [A partially chlorophyll-deficient mutant from cultivation.]
- Mammillaria candida* ssp. *ortizrubioana*** (Bravo) Rogozinski & Plein, Mitteilungsbl. AfM 29(2): 84, ill. (pp. 81-87), 2005. Basionym: *Neomammillaria ortizrubioana*. [Sphalm. 'ortizrubiona'.]
- Mammillaria grahamii* ssp. *sheldonii*** (Britton & Rose) D. R. Hunt, Cact. Syst. Init. No. 20: 21, 2005. Basionym: *Neomammillaria sheldonii*.
- Mammillaria lasiakantha* fa. *magallanii*** (F. Schmoll ex R. T. Craig) W. A. & B. Fitz Maurice, J. Mammillaria Soc. 45(2): 21, 2005. Basionym: *Mammillaria magallanii*.
- Mammillaria lasiakantha* fa. *stella-de-tacubaya*** (Heese) W. A. & B. Fitz Maurice, J. Mammillaria Soc. 45(2): 21, 2005. Basionym: *Mam-*

- millaria stella-de-tacubaya*.
- Mammillaria marcosii** 'Paul' Gapon, Byull. KRKS No. 3: 12, ill., 2005. [An abnormally offsetting variant from cultivation.]
- Mammillaria mathildae** 'Karel Kracík' Halda & al., Acta Mus. Richnov. Sect. Nat. 12(1): 8, t. 5: fig. 6 (p. 34), 2005. [Of horticultural origin.]
- Mammillaria paulii** Linzen, Mitteilungsbl. AfM 29(3): 139-143, ill., SEM-ills., 2005. Typus: *Anonymus* 2666 (Herb. Jard. Bot. Univ. Bermejillo, Durango, Mexico).
- Mammillaria pectinifera** ssp. *solisioides* (Backeberg) D. R. Hunt, Cact. Syst. Init. No. 20: 21, 2005. Basionym: *Mammillaria solisioides*. [Bracket author erroneously given as 'Krainz'.]
- Mammillaria prolifera** 'Hardy' Lodé, Cact.-Avent. No. 68: 35-36, ill., 2005. [A horticultural sport.]
- Melocactus macracanthos* fa. *citrispinus* (Antesberger & B. Antesberger) G. Thomson, Cactus & Co. 9(4): 204, caption to fig., 2005. *Nom. inval.*, based on *Melocactus citrispinus*, *nom. inval.* (Art. 8.2, 37.1).
- Melocactus macracanthos* fa. *inclinatus* (Antesberger) G. Thomson, Cactus & Co. 9(4): 206, caption to fig., 2005. *Nom. inval.* (Art. 33.3), based on *Melocactus inclinatus*.
- Mila caespitosa** ssp. *pugionifera* (Rauh & Backeberg) D. R. Hunt, Cact. Syst. Init. No. 20: 21, 2005. Basionym: *Mila pugionifera*.
- Notocactus bregmanianus** van Vliet, Succulenta 84(2): 64, ill., (pp. 65-68, cover), 2005. Typus: *van Vliet* 155 (IAC 44-466).
- Notocactus denardii* S. H. Klein, Internoto 26(3): 87-92, ill., 2005. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Notocactus sellowii** fa. *courantii* (Lemaire) N. Gerloff & Neduchal, Internoto 25(2): 103, 2004. Basionym: *Echinocactus courantii*. [Omitted previously.]
- Opuntia azurea** var. *aureispina* (S. Brack & K. D. Heil) A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 136, tt. 72-73, 2004. Basionym: *Opuntia macrocentra* var. *aureispina*.
- Opuntia azurea** var. *diplopurpurea* A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 130-131, tt. 68-69, 2004. Typus: *Weedin* 481 (SRSC).
- Opuntia azurea** var. *discolor* A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 139, tt. 74-75, 2004. Typus: *Powell & Powell* 6004 (SRSC).
- Opuntia azurea** var. *parva* A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 134, tt. 70-71, 2004. Typus: *Powell & Powell* 6007 (SRSC).
- Opuntia ×carstenii** R. Puente & C. Hamann, Cact. Succ. J. (US) 77(5): 231, ill., (pp. 228, 231-235), 2005. Typus: *Puente & Hamann* 2902 (DES, ASU).
- Opuntia engelmannii* 'linguiformis' (Griffiths) A. D. Zimmerman, in A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 190, tt. 109-110, 2004. *Nom. inval.* (Art. 34.1b), based on *Opuntia linguiformis*. [Published as provisional name ("forthcoming").]
- Opuntia fuscolineata** Starmühler & Mucher, Wulfenia 12: 59-60, ill., 2005. Typus: *Amerhauser & al.* MU-136 (GZU) [Ex cult. W. Mucher s.n., 19. 9. 2003.]
- Opuntia mackensenii* var. *minor* (M. S. Anthony) A. M. Powell & Weedin, Cacti Trans-Pecos Adjacent Areas, 153, tt. 84-85, 2004. *Nom. inval.* (Art. 34.1b), based on *Opuntia macrocentra* var. *minor*. [Published as provisional name ("under consideration").]
- Opuntia mucheri** Starmühler, Wulfenia 12: 60-62, ill., 2005. Typus: *Amerhauser & al.* MU-96 (GZU, KL, ZSS) [Ex cult. W. Mucher s.n., 12. 9. 2003.]
- Opuntia olmeca** Pérez Crisanto & al., Cact. Suc. Mex. 50(3): 90-94, ill., 2005. Typus: *Pérez* 594 (MEXU). [Name first used invalidly (Art. 35.1, 37.1, cf. RPS 55) in Reyes Santiago & al., Cact. otras Pl. Nativas Cañada Cuicatlán, 99, ill., 2004.]
- Parodia hegeri** Diers & al., Kakt. and. Sukk. 56(5): 127-130, ill., 2005. Typus: *Krahn* 960 (KOELN, LPB).
- Peniocereus castellanosi** (Scheinvar) Scheinvar, Fl. Cactol. Estado Querétaro, 178, 2004. Basionym: *Nyctocereus castellanosi*.
- Peniocereus chiapensis** (Bravo) Gómez-Hinostroza & H. M. Hernández, Revista Mex. Biodivers. 76(2): 131, 2005. Basionym: *Acanthocereus chiapensis*. [The validity of the combination depends on the interpretation of the status of the basionym. D. R. Hunt (Cact. Syst. Init. No. 21: 13, 2006) treats the name as *nom. nov.* for the basionym, which he feels is invalid under Art. 37.1.]
- Peniocereus serpentinus** ssp. *pietatis* (Bravo) Scheinvar, Fl. Cactol. Estado Querétaro, 177, 2004. Basionym: *Nyctocereus serpentinus* var. *pietatis*.
- Pfeiffera asuntapatensis** (M. Kessler & al.) Ralf Bauer, Cact. Syst. Init. No. 20: 6, 2005. Basionym: *Lepismium asuntapatense*.
- Pfeiffera monacantha** ssp. *kimmachii* (Doweld) Ralf Bauer, Cact. Syst. Init. No. 19: 8, ill., 2005. Basionym: *Acanthorhopsalis monacantha* ssp. *kimmachii*.
- Pilosocereus leucocephalus** ssp. *palmeri* (Rose) Scheinvar, Fl. Cactol. Estado Querétaro, 191-192, 2004. Basionym: *Cephalocereus palmeri*. [Doubtfully valid as the basionym reference is given on p. 191, the combination is made on p. 192.]
- Rebutia brighignae** Mosti & Papini, Cactus & Co. 9(1): 60-61, ill., SEM-ills., 2005. Typus: *Rausch* 751 (FT, ZSS) [Holotype ex cult. S. Mosti].

- Rebutia raffaellii** Mosti & Papini, *Cactus & Co.* 9(1): 56-57, ills., SEM-ills., 2005. Typus: *Rausch* 333c (FT) [Ex cult. S. Mosti].
- Rebutia rovidana** Mosti & Papini, *Cactus & Co.* 9(1): 58-59, ills., SEM-ills., 2005. Typus: *Rausch* 333b (FT) [Ex cult. S. Mosti].
- Rhipsalis pachyptera** fa. **rubra** Stüpplie, *Epi-Flora* (Nijmegen) No. 1: 16-17, ills., 2005. Typus: *Anonymus* s.n. in *EPRIC* 1500 (Herb. EPRIC Nijmegen).
- Schlumbergera** 'Helmut Paetzold' Stüpplie, *Berliner Kakt.-Blätt.* No. 5: 2-4, ills., 2005. [= *Schlumbergera* 'Thor-Alice' × 'Lorna Doome'.]
- Schlumbergera** 'Twiggy' Stüpplie, *Kaktusblüte* 2005: 36-37, ill., 2005. [A sport of *Schlumbergera* 'Tortine'.]
- Schlumbergera** 'White Queen' Stüpplie, *Kaktusblüte* 2005: 36-37, ill., 2005. [= *Schlumbergera* 'Thor-Britta' × 'Snowflake'.]
- Schlumbergera** ×**eprica** 'Proud Tina' Stüpplie, *Succulenta* 84(1): 42-43, ills., 2005. [= *Schlumbergera russelliana* × *S. orssichiana*.]
- Schlumbergera** ×**reginae** 'Duchess of York' Stüpplie, *Succulenta* 84(1): 44, ills., 2005. [= *Schlumbergera* ×*reginae* Bristol Amber' × 'Joyce Carr'.]
- Schlumbergera** ×**reginae** 'Labour Queen' Stüpplie, *Kaktusblüte* 2005: 36-37, ill., 2005. [= *S. ×reginae* 'Kathy Gough' × *S. ×reginae* 'Rossmore Kathy Gonaert'.]
- Schlumbergera** ×**reginae** 'Miss Annie' Stüpplie, *Kaktusblüte* 2005: 36-37, ill., 2005. [= *S. ×reginae* 'Variegated Madame Butterfly' × *S. ×reginae* 'Joyce Carr'.]
- Sclerocactus parviflorus* ssp. **macrospermus** (Hochstätter) Hochstätter, *Gen. Sclerocactus*, 27, ill., 2005. *Nom. inval.* (Art. 33.3), based on *Sclerocactus parviflorus* fa. *macrospermus*. [Published without exact page reference.]
- Sclerocactus parviflorus* ssp. **variiflorus** (Hochstätter) Hochstätter, *Gen. Sclerocactus*, 29, ill., 2005. *Nom. inval.* (Art. 33.3), based on *Sclerocactus parviflorus* fa. *variiflorus*. [Published without exact page reference.]
- Sclerocactus whipplei** ssp. **heilii** (Castetter & al.) D. R. Hunt, *Cact. Syst. Init.* No. 20: 23, 2005. Basionym: *Sclerocactus whipplei* var. *heilii*.
- Sulcorebutia erinacea* Slaba & Sorma, *Kaktusy* 41(1): 13, ills. (pp. 10-12), 2005. Based on *Slaba & Sorma* 61-99. *Nom. illeg.* (Art. 53.1). [Non *Sulcorebutia erinacea* (F. Ritter) F. H. Brandt 1976.]
- Sulcorebutia purpurea** ssp. **dorana** (Gertel) Halda & al., *Acta Mus. Richnov. Sect. Nat.* 12(1): 9, ill. (t. 7: fig. 1, outside back cover), 2005. Basionym: *Sulcorebutia dorana*.
- Sulcorebutia purpurea** ssp. **lindae** Halda & al., *Acta Mus. Richnov. Sect. Nat.* 12(1): 9, ills. (t. 7: figs. 5-6, outside back cover), 2005. Typus: *Halda & al.* 051132 (PR 11950).
- Sulcorebutia purpurea** ssp. **nadae** Halda & al., *Acta Mus. Richnov. Sect. Nat.* 12(1): 9, ills. (t. 7: figs. 2-4, outside back cover), 2005. Typus: *Halda & al.* 051128 (PR 11949).
- Sulcorebutia roberto-vasquezii** Diers & Krahn, *Kakt. and. Sukk.* 56(8): 213-215, ills., (12): 323 [erratum], 2005. Typus: *Krahn* 986 (KOELN, BOLV, LPB).
- Sulcorebutia Vargasii** Diers & Krahn, *Kakt. and. Sukk.* 56(11): 282-286, ills., 2005. Typus: *Krahn* 995 (KOELN, BOLV, LPB).
- Turbincarpus beguinii** ssp. **zaragosae** (Glass & R. A. Foster) D. R. Hunt, *Cact. Syst. Init.* No. 20: 24, 2005. Basionym: *Gymnocactus subterraneus* var. *zaragosae*. [Sphalm. 'zaragozæ' with the opinion that this original spelling is a correctable error.]
- Turbincarpus nieblae** D. Donato & Zanovello ex García-Morales & al., *Turbi-Now* No. 18: 14, ill., 2005. Typus: *García-Morales* 557 (UAT). [First used as provisional name by D. Donato & Zanovello, *Conoscere, capire, coltivare Turbinicarpus - Rapicactus*, 177-178, 2004 (*nom. inval.*, 34.1b, 36.1). See also *Turbi-Now* No. 17: 42-51, ills., 2005 ('2004'), with a full description but without Latin diagnosis.]
- Turbincarpus saueri** ssp. **gonzalezii** Pavlíček & Zatloukal, *Kaktusy* 41(1): 9, ills. (pp. 3, 5-7), 2005. Typus: *González-Botello & al.* s.n. (CFNL 650). [German translation in *Turbi-Now* No. 18: 15-18, ills., 2005.]
- Turbincarpus schmiedickeanus** ssp. **jauernigii** (G. Frank) D. R. Hunt, *Cact. Syst. Init.* No. 20: 24, 2005. Basionym: *Turbincarpus jauernigii*.
- ×**Turbiniophora** Halda & Malina, *Acta Mus. Richnov. Sect. Nat.* 12(1): 7-8, 2005. [= *Turbincarpus* × *Lophophora*.]
- ×**Turbiniophora panarottoi** Halda & Malina, *Acta Mus. Richnov. Sect. Nat.* 12(1): 8, ills. (p. 33), 2005. Typus: *Herb. Halda* 05008318 [Ex cult. J. J. Halda.]. [= *Turbincarpus schmiedickeanus* var. *panarottoi* × *Lophophora williamsii*.]
- Uebelmannia meninensis** 'Chameleon' Fedukin, *Byull. KRKS* No. 3: 9-10, ill., 2005. [A partially chlorophyll-deficient mutant from cultivation.]
- Yungasocereus inquisivensis** (Cárdenas) F. Ritter ex Eggl, *Novon* 15(2): 278, 2005. Basionym: *Samaipaticereus inquisivensis*. [First published invalidly (Art. 33.3) by F. Ritter, *Kakt. Südamer.* 2: 669, 1980 (and incorrectly given as valid in RPS 31).]

CRASSULACEAE

Aeonium canariense fa. *longithyrsum* (Burchard) Rebmann, *Succulentes* 2005(2): 26-27, ill., 2005. *Nom. inval.* (Art. 33.3), based on *Sempervivum canariense* ssp. *longithyrsum*. [Used casually only.]

Dudleya gnoma 'White Sprite' Trager, Cact. Succ. J. (US) 77(2): 104, 2005. [Formerly known as *D. greenii* 'White Sprite'.]
Echeveria 'Chrissy n Ryan' Mottram, Brit. Cact. Succ. J. 23(4): 166-166, ills., 2005. [= *Echeveria prolifica* × *E. setosa* var. *deminuta*.]
Echeveria 'Ghost Buster' Trager, Cact. Succ. J. (US) 77(2): 98, ill., 2005. [= *Echeveria colorata* × *E. elegans*.]
Echeveria andicola Pino, Haseltonia 11: 98-99, ills., 2005. Typus: *Pino* 1320 (USM).
Echeveria cuspidata var. **gemmula** Kimmach, Cact. Succ. J. (US) 77(1): 32-33, ills., 2005. Typus: *Metorn* s.n. in ZSS 971262 (HNT, MEXU, ZSS).
Echeveria cuspidata var. **zaragozae** Kimmach, Cact. Succ. J. (US) 77(1): 29-31, ills., 2005. Typus: *Glass & al.* s.n. (HNT).
Echeveria tencho Moran & Uhl, Haseltonia 11: 141-143, fig. 2 (p. 140), 2005. Typus: *MacDougall* B.266 (SD) [Ex cult. Hort. Moran, San Diego, 13. 1. 1967 (= Moran 13277)].
Kalanchoe bracteata 'Silvermint' Trager, Cact. Succ. J. (US) 77(2): 100, ill., 2005. [A horticultural selection without known origin.]
Kalanchoe bracteata var. *virescens* Descoings, J. Bot. Soc. Bot. France 30: 13-14, 2005. Based on *Descoings* 28304. *Nom. illeg.* (Art. 52.1). [Illegitimate because of the inclusion of several previously published varieties.]
Kalanchoe ×**flaurentia** Descoings, J. Bot. Soc. Bot. France 30: 14, 2005. Typus: *Descoings* 28305 (P) [Ex cult. B. Descoings.]. [= *Kalanchoe bracteata* × *K. orgyalis*.]
Kalanchoe grandidieri var. **itampolensis** Descoings, Crass. Madec. Novae, 17, 2005. Typus: *Phillipson & al.* 3733 (P, MO).
Kalanchoe humifica Descoings, Crass. Madec. Novae, 14-16, ills., 2005. Typus: *Descoings* 28314 (P) [Ex cult. B. Descoings.].
Kalanchoe inaurata Descoings, Crass. Madec. Novae, 3-5, ills., 2005. Typus: *Anonymus* s.n. in *Descoings* 28310 (P) [Ex cult. B. Descoings, without known wild origin.].
Kalanchoe ×**lokarana** Descoings, J. Bot. Soc. Bot. France 30: 15-18, ills., 2005. Typus: *Descoings* 28303 (P) [Ex cult. B. Descoings.]. [= *Kalanchoe laxiflora* × *K. sp.*]
Kalanchoe pareikiana Descoings & Lavranos, in *Descoings, Crass. Madec. Novae*, 10-13, ill., 2005. Typus: *Lavranos & McCoy* 31863 (P).
Kalanchoe peltigera Descoings, Crass. Madec. Novae, 6-9, ills., 2005. Typus: *Richaud* s.n. in *Descoings* 28316 (P) [Ex cult. B. Descoings.].
Kalanchoe ×**richaudii** Descoings, J. Bot. Soc. Bot. France 30: 14-16, ills., 2005. Typus: *Descoings* 28302 (P) [Ex cult. B. Descoings.]. [= *Kalanchoe delagoensis* × *K. rosei*.]
Sedum acre 'Oktoberfest' Hort. Jelitto ex R. Stephenson, *Sedum Soc. Newslett.* No. 74: 80-81, ill., 2005. [A white-flowered horticultural strain.]

Sempervivum ×**feigeatum** Neeff, Kakt. and. Sukk. 56(3): 72, ills. (pp. 72-73), 2005. Typus: *Neeff* H073 (E). [= *Sempervivum davisii* × *S. staintonii*.]
Sempervivum herfriedianum Neeff, Kakt. and. Sukk. 56(3): 71-72, ill., 2005. Typus: *Neeff* H075 (E, K, HUB).

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Euphorbia ammophila S. Carter & Dioli, *Nordic J. Bot.* 23(3): 295-296, ills., 2005. Typus: *Thulin & Dahir* 6704 (K, UPS).
Euphorbia bertemariae Bisseret & Dioli, Cact. Succ. J. (US) 77(4): 208-209, ills., 2005. Typus: *Dioli* 29 (ETH).
Euphorbia densispina S. Carter, *Nordic J. Bot.* 23(3): 296-297, ills., 2005. Typus: *Thulin* 10784 (UPS, K).
Euphorbia erythrocucullata R. Mangelsdorff, Haseltonia 11: 3-7, ills., 2005. Typus: *Rössli & Hoffmann* 9/02 (MO, FR, P).
Euphorbia ×*fernandez-lopezii* Molero & Rovira, *Willdenowia* 35(2): 278-279, ills., 2005. Based on *Fernández & al.* s.n.. *Nom. inval.* (Art. 37.6). [= *Euphorbia bourgeana* × *E. berthelotii*.]
Euphorbia frankii Lavranos, Kakt. and. Sukk. 56(9): 240-242, ills., 2005. Typus: *McCoy* 2740 (FT).
Euphorbia godana Buddensiek & al., Kakt. and. Sukk. 56(2): 43-46, ills., 2005. Typus: *Lavranos & Newton* 13176 (FT).
Euphorbia ×**marreroi** Molero & Rovira, *Willdenowia* 35(2): 276-277, 2005. Typus: *Marrero & Molero* s.n. (BCN 39343). [= *Euphorbia regis-jubae* × *E. aphylla*.]

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Pelargonium adriaanii Albers & M. Becker, *Bot. Jahrb. Syst.* 126(2): 154-157, ills., 2005. Typus: *Albers & Becker* 4235 (MSUN, K, PRE, WIND).

Pelargonium rotundipetalum Vorster ex R. Clifton, Geraniaceae Group News 2004-5 (winter): 4, 6, 2005. Based on Vorster s.n. in *Stellenbosch Univ.* 2876. *Nom. inval.* (Art. 37.6). [Name first used by Vorster, Proc. Int. Geraniaceae Symp., 286-289, ills. (p. 293), 1990.]

HYACINTHACEAE

Ornithogalum juncifolium var. **emsii** van Jaarsveld & A. E. van Wyk, *Bothalia* 35(1): 83, ill., 2005. Typus: *van Jaarsveld & Ems* 16808 (NBG).

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Aeollanthus rydingianus van Jaarsveld & A. E. van Wyk, *Bothalia* 35(2): 157-158, ills., 2005. Typus: *van Jaarsveld & al.* 17481 (WIND).

Plectranthus brevementum T. J. Edwards, *Bothalia* 35(2): 149, ills. (p. 150), 2005. Typus: *Edwards & al.* 3210 (NU, PRE) [Ex cult.].

Plectranthus porcatus van Jaarsveld & P. J. Winter, *Bothalia* 35(2): 170-171, ill., 2005. Typus: *Winter* 6725 (PRE).

Plectranthus rosulatus Hedge, *Adansonia*, sér. 3, 27(2): 321-322, ills., 2005. Typus: *Mangelsdorff* HC 22 in *Hedge* 05/01 (E) [Ex cult. J. Bogner, München.].

Plectranthus stylesii T. J. Edwards, *Bothalia* 35(2): 149-150, ills. (p. 151), 2005. Typus: *Styles* s.n. in *Hort. Edwards* 3259 (NU, E, GRA, K, NH, PRE) [Ex cult.].

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Pinguicula ibarrae Zamudio, *Acta Bot. Mex.* 70: 70-73, ills., 2005. Typus: *Zamudio & al.* 11814 (IEB).

Pinguicula martinezii Zamudio, *Acta Bot. Mex.* 70: 76-79, ills., 2005. Typus: *Zamudio & Caranza* 7150 (IEB).

PIPERACEAE

Peperomia andina Pino, *Peperomias* Cajamarca, 13, fig. 1 (pp. 46-47), 2004. Typus: *Pino* 284 (USM).

Peperomia andina var. **pseudoperuviana** Pino, *Peperomias* Cajamarca, 14, fig. 2 (pp. 48-49), 2004. Typus: *Pino* 894 (USM).

Peperomia columnaris Hutchison ex Pino & Klopfenstein, *Haseltonia* 11: 103-105, ills., 2005. Typus: *Hutchison & Wright* 4980 (UC, USM,

G, K, P). [Name first used as nude name attributed to Hutchison by Brako & Zarucchi, *Cat. Fl. Pl. Gymnosp. Peru*, 888, 1993.]

Peperomia cymbifolia Pino, *Peperomias* Cajamarca, 15-16, fig. 3 (pp. 50-51), 2004. Typus: *Hutchison & Wright* 5076 (USM, C, UC [‘clonotype’], US).

Peperomia cymbifolia var. **goodspeedii** Pino & Cieza, *Haseltonia* 11: 108-110, ills., 2005. Typus: *Hutchison & Wright* 5274 (UC, F, K, MO, NY, US, USM).

Peperomia dolabriformis var. **grandis** Hutchison ex Pino & Klopfenstein, *Haseltonia* 11: 106-107, ills., 2005. Typus: *Hutchison & Krahn* 4960 (UC, F, G, GH, K, LE, M, MICH, MO, NY, P, S, US, USM). [Based on a manuscript name by Hutchison.]

Peperomia galioides var. **glauca** Pino, *Peperomias* Cajamarca, 20-21, fig. 7 (p. 57), 2004. Typus: *Pino* 644 (USM).

Peperomia lanuginosa Pino, *Peperomias* Cajamarca, 24-25, fig. 11 (p. 61), 2004. Typus: *Pino* 1215 (USM).

Peperomia macrorhiza var. **liliputiana** Pino & Cieza, *Haseltonia* 11: 110-112, ills., 2005. *Klopfenstein & Cieza* 593 (USM).

Peperomia nivalis fa. **diminuta** Pino, *Peperomias* Cajamarca, 30-31, fig. 16 (p. 67), 2004. Typus: *Pino* 328 (USM).

Peperomia polzii Rauh ex Bogner, *Kakt. and. Sukk.* 56(12): 327-328, ills., 2005. Typus: *Polz* s.n. (M) [Ex cult. BG München, June 2005.].

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Avonia buderiana (von Poellnitz) de Morree, *Succulenta* 84(5): 217, 2005. *Nom. inval.* (Art. 33.3), based on *Anacampteros buderiana*. [Name accidentally used, without indication of the basionym.]

Talinella albidiflora Applequist, *Adansonia*, sér. 3, 27(1): 52-53, fig. 1, 2005. Typus: *Humbert* 12753 (P, G, K, MO, P, WAG).

Talinella ankaranensis Applequist, *Adansonia*, sér. 3, 27(1): 54, fig. 3 (p. 55), 2005. Typus: *Humbert* 18940 (P, MO, P).

Talinella bosseri Applequist, *Adansonia*, sér. 3, 27(1): 58, fig. 5 (p. 59), 2005. Typus: *Bosser* 17406bis (P).

Talinella grevei ssp. **callicola** Applequist, *Adansonia*, sér. 3, 27(1): 64, fig. 7F-G (p. 65), 2005. Typus: *Bosser* 10426 (P, MO, P, TAN).

Talinella grevei ssp. **hirsuta** Applequist, *Adansonia*, sér. 3, 27(1): 66, fig. 7A-E (p. 65), 2005. Typus: *Herb. Jard. Bot. Tananarive* 6067 (P, TAN?).

Talinella grevei ssp. **sarmentosa** (Leandri) Applequist, *Adansonia*, sér. 3, 27(1): 67, 2005. Basionym: *Sabouraea sarmentosa*.

- Talinella humbertii** Applequist, *Adansonia*, sér. 3, 27(1): 68, fig. 8 (p. 69), 2005. Typus: *Humbert* 13403 (P).
- Talinella latifolia** Applequist, *Adansonia*, sér. 3, 27(1): 70-71, fig. 9, 2005. Typus: *Perrier de la Bâthie* 12533 (P).
- Talinella tsitondroinensis** Applequist, *Adansonia*, sér. 3, 27(1): 75, fig. 11 (p. 76), 2005. Typus: *Perrier de la Bâthie* 1385 (P).
- Talinella xerophila** Applequist, *Adansonia*, sér. 3, 27(1): 76-78, fig. 12, 2005. Typus: *Service Forestier* 28983 (P, TEF).

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