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International Organisation
for Succulent Plant Study

Organización Internacional
para el Estudio de
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Organisation International
de Recherche sur les
Plantes Succulentes

Internationale Organisation
für Sukkulenten-Forschung

IOS

**Repertorium
Plantarum
Succulentarum
LIX (2008)**

Repertorium Plantarum Succulentarum LIX (2008)

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

International Organization for Succulent Plant Study
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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 (except for epithets of new cultivars), accompanied, in the case of newly described taxa, 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 listed. For invalid, illegitimate or incorrect names, the articles of the ICBN or ICNCP 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 few new taxa are usually 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 (ausgenommen Cultivar-Namen), ergänzt durch den nomenklatorischen Typ für neue Taxa (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). Für Umkombinationen wird das Basionym angegeben. Ungültige, illegitime oder falsch angewandte Namen erscheinen in *Kursivschrift* unter Angabe (in Klammer) derjenigen Artikel des ICBN oder ICNCP, die verletzt worden sind. In allen Fällen folgen die kompletten bibliographischen Angaben. 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 weniger neuer Taxa enthalten, werden in der Regel 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 allgemein botanische Zeitschriften in der Regel nach Bibliographia Periodicorum Huntianum Ed. 2 (BPH2).

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Compilers' Preface

With this issue, the Repertorium Plantarum Succulentarum continues to serve the "succulent plant" community by listing taxonomic and bibliographic novelties published during the past year.

While the number of new names published annually seems to be stabilizing, or even declining somewhat, the number of publications (both papers and books) addressing various aspects of succulent plant biology, seems to have been growing considerably in recent years. A certain move is visible away from purely taxonomic research towards more pronouncedly phylogenetic and/or biogeographic studies. The wealth of papers addressing other aspects of succulent plant biology makes it increasingly difficult to assess whether a paper includes sufficient "taxonomic" information to need a citation in these pages. These decisions are not always easy to take, and we hope that our selection of papers from "neighbouring" fields of interest such as phytochemistry, geobotany, or ecology, add to the usefulness of RPS. Listing *all* papers dealing with succulent plants – even though this would without doubt be a worthwhile undertaking – is clearly beyond the possibilities of the compilers of RPS.

The compilation of the RPS for 2008 has considerably benefitted from the valuable volunteer work of Dr. Reiner Mailänder, Zürich. Rainer Mailänder regularly scans a good selection of more "general" biological journals for the purpose of the ZSS library database, and thus also for RPS. We are very grateful for this important help.

Future issues of RPS: Please note that the IOS Board is planning that future issues of RPS will be published and distributed to the majority of IOS members electronically. Printed copies (possibly in A5 booklet format) will continue to be available for members who do not have Internet access on request from the IOS Secretariat. A charge may be made for these copies, to cover the cost of printing and postage. Arrangements for non-IOS subscribers will be announced in due course.

Vorwort der Herausgeber

Auch mit dieser Ausgabe setzt das Repertorium Plantarum Succulentarum die Tradition fort, die Gemeinschaft der an Sukkulanten interessierten Wissenschaftler und Liebhaber mit einer Liste der im vergangenen Jahr veröffentlichten taxonomischen und bibliographischen Neuheiten zu bedienen.

Während sich die Anzahl der jährlich veröffentlichten neuen Namen zu stabilisieren scheint oder vielleicht sogar leicht abnimmt, wächst die Zahl der Publikationen (sowohl Bücher wie Zeitschriftenbeiträge) mit sukkulenten Themen seit einigen Jahren deutlich. Dabei ist eine gewisse Tendenz weg von rein taxonomischen Untersuchungen und hin zu deutlicher phylogenetischen und/oder biogeographischen Themen sichtbar. Die grosse Zahl von Beiträgen zu anderen Aspekten der Biologie sukkulenter Pflanzen macht die Entscheidung zunehmend schwieriger, ob eine Veröffentlichung ausreichend "taxonomische" Informationen enthält, um eine Aufnahme in das RPS zu rechtfertigen. Diese Entscheidungen sind nicht immer einfach zu fällen, und wir hoffen, dass die getroffene Auswahl aus "benachbarten" Interessengebieten (Phytochemie, Geobotanik, oder Ökologie) zur Nützlichkeit des RPS beiträgt. Die Aufnahme *aller* Beiträge, welche sich mit Sukkulanten befassen, liegt

völlig ausserhalb unserer Möglichkeiten, auch wenn ein solches Projekt zweifellos wertvoll wäre.

Die Zusammenstellung des RPS für das Jahr 2008 profitierte in grossem Masse von der freiwilligen Mitarbeit von Dr. Reiner Mailänder, Zürich. Rainer Mailänder beobachtet regelmässig eine umfassende Auswahl von "generellen" biologischen Zeitschriften in Bezug auf interessante Artikel für die Datenbank der ZSS-Bibliothek, und somit auch für das RPS. Wir sind für diese wichtige Hilfe sehr dankbar.

Zukünftige Ausgaben: Es ist zu beachten, dass der Vorstand der IOS gegenwärtig diskutiert, ob zukünftige RPS-Ausgaben nur noch elektronisch veröffentlicht werden sollen, und in ebensolcher Form an die Mehrheit der IOS-Mitglieder abgegeben wird. Eine gedruckte Ausgabe (möglicherweise im Format A5) wäre für IOS-Mitglieder ohne Internet-Anschluss auch in Zukunft auf Bestellung vom IOS-Sekretariat unter Übernahme der Kosten für Druck und Versand erhältlich. Über Bezugsmöglichkeiten für Besteller von ausserhalb der IOS wird zu gegebener Zeit informiert werden.

NOMINA NOVA

AGAVACEAE

- Agave cordillerensis** Lodé & Pino, *Cact.-Avent.* Int. 77: 13, ills. (pp. 7-12), 2008. Typus: *Lodé* 2007-01 (USM).
- Manfreda bulbulifera** Castillejos & E. Solano, *Acta Bot. Mex.* 82: 68-70, ills., 2008. Typus: *Castillejos & al.* 1807 (MEXU, CHAPA, FEZA, IEB, MICH, NY, US).
- Manfreda paniculata** L. Hernández & al., *J. Torrey Bot. Soc.* 135(2): 170-172, ills., 2008. Typus: *Hernández-Sandoval & al.* 5815 (CICY, MO, QMEX).
- Manfreda petskinii** R. Orellana & al., *J. Torrey Bot. Soc.* 135(2): 173-174, ills., 2008. Typus: *Carnevali & Ramírez* 7206 (CICY, MO, QMEX).
- Yucca** Sect. **Endlichiana** Hochstätter, *Cact. World* 26(2): 100, 2008. Typus: *Yucca endlichiana* Trelease. Republished in *Cactaceae Rev.* 11(2): 19, 2008.
- Yucca** Ser. **Gracilifoliae** Hochstätter, *Cact. World* 26(4): 233, 2008. Typus: *Yucca queretaroensis* Piña Lujan.
- Yucca flaccida** var. **smalliana** (Fernald) D. B. Ward, *Novon* 14(3): 366, 2004. Basionym: *Yucca smalliana*. [Omitted previously.]

AIZOACEAE

- Aptenia** 'Red Apple' D. Guillot & al., *Bouteloua* 4: 49, ills. (p. 51-53), 2008. [= *Aptenia cordifolia* × *A. haeckeliana*.]
- Conophytum minutum** var. **lisabeliae** S. A. Hammer, *Mesemb Study Group Bull.* 23(3): 69, 2008. Typus: *Hall* 5141 (HNT).
- Delosperma sawdahense** H. E. K. Hartmann, *Bradleya* 26: 48, 60-61, ills. (p. 55), 2008. Typus: *Lavranos & Collette* 18279 (HBG).
- Hammeria cedarbergensis** Klak, *Bradleya* 26: 28-29, figs. 11-12 (p. 26), 2008. Typus: *Klak* 1352 (BOL).
- Leipoldtia gigantea** Klak, *Bradleya* 26: 28, figs. 9-10 (p. 26), 2008. Typus: *Klak* 1275 (BOL, K).
- Lithops** 'Moss Agate' J. Y. Clark, *Mesemb Study Group Bull.* 23(2): 31-32, ills., 2008. [= *Lithops geyeri* × *L. meyeri*.]
- Mesembryanthemum bulletrapense** Klak, *Bradleya* 26: 29, 31, figs. 13-14 (p. 30), 2008. Typus: *Klak* 1252 (BOL, E, HBG, K, NBG).
- Mesembryanthemum flavidum** Klak, *Bradleya* 26: 31, 2008. Typus: *Godman* s.n. (BOL 19110). [*Nom. nov. pro Aridaria congesta* L. Bolus ≡ *M. caducum* Klak 2007, *nom. illeg.*,

Art. 53.1) (non *Mesembryanthemum congestum* Salm-Dyck 1854 nec *Mesembryanthemum caducum* Aiton 1789).]

- Mesembryanthemum oubergense** (L. Bolus) Klak, *Bradleya* 26: 31, 2008. Basionym: *Aridaria oubergensis*.
- Mesembryanthemum rhizophorum** Klak, *Bradleya* 26: 31, 2008. Typus: *Coulter* s.n. in *NBG* 1302/24 (BOL). [*Nom. nov. pro Aridaria radicans* L. Bolus 1927 ≡ *Mesembryanthemum radicans* (L. Bolus) Klak 2007 (*nom. illeg.*, Art. 53.1); non *Mesembryanthemum radicans* De Candolle 1832.]
- ×**Monilaroma** S. A. Hammer, *Mesemb Study Group Bull.* 23(4): 80, 2008. [= *Monilaria* × *Diplosoma*.]
- Oscularia tyranodontata** Buys, *Mesemb Study Group Bull.* 23(4): 83, ill. (p. 82), 2008. *Nom. inval.* (Art. 34.1b). [Used as provisional name.]
- Phiambolia longifolia** Klak, *Bradleya* 26: 20, figs. 1-2 (p. 21), 2008. Typus: *Bolus* s.n. in *NBG* 1888/32 (BOL).
- Phiambolia similis** Klak, *Bradleya* 26: 22, figs. 3-4 (p. 21), 2008. Typus: *Klak* 1337 (BOL, K).
- Ruschia albida** Klak, *Bradleya* 26: 25, figs. 6a-b (p. 24), 2008. Typus: *Klak* 1346 (BOL, K).
- Ruschia magnifica** Klak, *Bradleya* 26: 27, figs. 7-8 (p. 24), 2008. Typus: *Klak* 1365 (BOL, K).
- Ruschiella cedrimontana** Klak, *Bradleya* 26: 23, 25, fig. 5 (p. 21), 2008. Typus: *Klak* 731 (BOL).

ALOEACEAE

- Aloe acutissima** ssp. **itampolensis** Rebmann, *Cactus & Co.* 12(3): 195, ills. (pp. 194-196), 2008. Typus: *Rebmann* 21 (BR).
- Aloe albostrata** T. A. McCoy & al., *Kakt. and Sukk.* 59(2): 43-45, ills., 2008. Typus: *Pronk* s.n. in *Lavranos* 32229 (Herb. Univ. Antananarivo, FT).
- Aloe altimatsiatrae** J.-B. Castillon, *Cact. Succ. J. (US)* 80(2): 98, ills., 2008. Typus: *Castillon* 35 (TAN).
- Aloe ambositrae** J.-P. Castillon, *Cact. World* 26(1): 32-33, ills., 2008. Typus: *Castillon* 36 (TAN, HBG).
- Aloe ampefyana** J.-B. Castillon, *Haseltonia* 13: 26-27, ills., 2008. Typus: *Castillon* 30 (HBG). [Dated Dec. 2007, published in early Jan. 2008.]
- Aloe aurelieni** J.-B. Castillon, *Cact. World* 26(2): 109-112, ills., 2008. Typus: *Castillon* 37 (TAN, HBG).
- Aloe decumbens** (Reynolds) van Jaarsveld, *Aloe* 45(1): 7, ills., 2008. Basionym: *Aloe gracilis* var. *decumbens*.

- Aloe deinacantha** T. A. McCoy & al., *Kakt. and. Sukk.* 59(2): 45-46, ills., 2008. Typus: *Razafindratsira* s.n. in *Lavranos* 32230 (Herb. Univ. Antananarivo, FT).
- Aloe edouardii** Rebmann, *Cact.-Avent. Int. No.* 79: 4-5, ills., 2008. Typus: *Rebmann* 15 (BR).
- Aloe elegantissima** T. A. McCoy & Lavranos, *Cact. Succ. J. (US)* 80(3): 118, ills. (pp. 116-117), 2008. Typus: *McCoy* 3169 (FT).
- Aloe elkerriana** Dioli & T. A. McCoy, *Haseltonia* 13: 35-37, ills., 2008. Typus: *Dioli* 28 (O). [Dated Dec. 2007, published in early Jan. 2008. The epithet is contrary to Rec. 60D, but this recommendation is not mandatory.]
- Aloe estevei** Rebmann, *Cact.-Avent. Int. No.* 79: 6-8, ills., 2008. Typus: *Rebmann* 14 (BR).
- Aloe ifanadianae** J.-B. Castillon, *Cact. World* 26(4): 238, ills. (pp. 239-242), 2008. Typus: *Castillon* 41 (TAN, HBG, P).
- Aloe irafensis** Lavranos & al., *Cact. Succ. J. (US)* 80(1): 41, 2008. Typus: *McCoy* 2669 (FT, UPS). [First published invalidly (Art. 37.1) in *L.c.* 76(3): 134-137, ills., 2004 (cf. RPS 55). The "validation" is published in the form of a "lectotypification", but since an invalid name has no standing, it cannot be validated, and the "lectotypification" is therefore interpreted as publication of a new name by referring to a previously published diagnosis, and applying Art. 9.8 as to mis-used type terminology.]
- Aloe johannis-bernardii** J.-P. Castillon, *Cact.-Avent. Int. No.* 80: 12-13, ills. (pp. 13-16), 2008. Typus: *Castillon* 40 (TAN, P).
- Aloe juddii** van Jaarsveld, *Aloe* 45(1): 4-6, ills., 2008. Typus: *van Jaarsveld & al.* 18295 (NBG).
- Aloe kahinii** T. A. McCoy & Lavranos, *Haseltonia* 13: 32-33, ills. (pp. 29-30), 2008. Typus: *McCoy* 2992 (FT). [Dated Dec. 2007, published in early Jan. 2008.]
- Aloe makayana** Lavranos & al., *Kakt. and. Sukk.* 59(7): 190-191, ills., 2008. Typus: *Rössli & Hoffmann* 14/03 (TAN, Z).
- Aloe manandonae** J.-B. Castillon & J.-P. Castillon, *Succulentes* 2008(2): 6-9, ills., 2008. Typus: *Castillon* 33 (TAN, HBG). [Treated as intentional Latinization, even though contrary to Rec. 60D.]
- Aloe mossurilensis** Ellert, *Alsterworthia Int.* 8(1): 24-25, ills. (pp. 26-28), 2008. Typus: *Ellert* 43 (UA). [Arguably invalid under strict application of Art. 8.2 (Ex. 1). Name first used invalidly (Art. 34.1b, 36.1) as provisional name in *Succulenta* 86(3): 127-132, ills., 2007 (cf. RPS 58).]
- Aloe pavelkai** van Jaarsveld & al., *Aloe* 44(3): 75, ills. (pp. 75-79), 2008. Typus: *van Jaarsveld & Swanepoel* 19919 (WIND). [Dated 2007, received March 2008 at ZSS.]
- Aloe richaudii** Rebmann, *Cact.-Avent. Int. No.* 79: 8-10, ills., 2008. Typus: *Rebmann* 13 (BR).
- Aloe rodolphei** J.-B. Castillon, *Cact.-Avent. Int.* 77: 3-4, ills., 2008. Typus: *Castillon* 38 (TAN).
- Aloe rubrodonta** T. A. McCoy & Lavranos, *Haseltonia* 13: 31-32, ills., 2008. Typus: *McCoy* 2903 (FT). [Dated Dec. 2007, published in early Jan. 2008.]
- Aloe tenuior** var. *viridifolia* van Jaarsveld, *Aloe* 44(3): 60-61, ills., 2008. Typus: *van Jaarsveld & al.* 17832 (NBG). [Sphalm. 'viridiflora' in captions to illustrations. Dated 2007, received March 2008 at ZSS.]
- Aloe wernerii** J.-B. Castillon, *Haseltonia* 13: 23-24, ills., 2008. Typus: *Castillon* 26 (HBG, P). [Dated Dec. 2007, published in early Jan. 2008.]
- Gasteria bicolor** var. *fallax* (Haworth) van Jaarsveld, *Aloe* 44(4): 98, ills. (pp. 98-99), 2008. Basionym: *Gasteria maculata* var. *fallax*. [Dated 2007, received March 2008 at ZSS.]
- Gasteria disticha** var. *langebergensis* van Jaarsveld, *Aloe* 44(4): 99, ill., 2008. Typus: *van Jaarsveld & Visser* 19893 (NBG). [Dated 2007, received March 2008 at ZSS.]
- Gasteria disticha** var. *robusta* van Jaarsveld, *Aloe* 44(4): 99, ill., 2008. Typus: *Smith* s.n. (PRE). [Dated 2007, received March 2008 at ZSS.]
- Gasteria pillansii** var. *hallii* van Jaarsveld, *Aloe* 44(4): 94, ill., 2008. Typus: *van Jaarsveld & Duncan* 7912 (NBG). [Dated 2007, received March 2008 at ZSS.]
- Gasteria retusa** (van Jaarsveld) van Jaarsveld, *Aloe* 44(4): 100, ills., 2008. Basionym: *Gasteria carinata* var. *retusa*. [Dated 2007, received March 2008 at ZSS.]
- Haworthia* Subgen. *Parviflora* M. Hayashi, *Haworthia Study No.* 19: 11, 2008. *Nom. inval.* (Art. 36.1). [Based on *Haworthia scabra* Haworth.]
- Haworthia cooperi* var. *cymbiformoides* M. B. Bayer, *Haworthiad* 22(2): 37, ills., 2008. *Nom. inval.* (Art. 34.1b). [Used as provisional name only.]

ANACARDIACEAE

- Operculicarya capuronii** Randrianasolo & Lowry, *Adansonia*, sér. 3, 28(2): 364, fig. 2 (p. 365), 2006. Typus: *Service Forestier (Capuron)* 28571 (P, MO, P, TEF). [Omitted previously.]
- Operculicarya multijuga** Randrianasolo & Lowry, *Adansonia*, sér. 3, 28(2): 369, fig. 4 (p. 370), 2006. Typus: *Service Forestier (Capuron)* 23059 (P, K, MO, P, TEF). [Omitted previously.]

ANTHERICACEAE

Chlorophytum bulbinifolium Hoell & Nordal, Bot. J. Linn. Soc. 157: 228, ills. (p. 229, 236), 2008. Typus: *Hoell & Nordal* 62 (O, K, SR-GH).

APOCYNACEAE

Pachypodium brevicaule ssp. **leucoxanthum** J. Lüthy, Cact. Succ. J. (US) 80(4): 190, ills. (p. 189), 2008. Typus: *Pronk* s.n. (Z) [Ex cult. J. Lüthy / W. Rössli.].

ASCLEPIADACEAE

Apteranthes europaea ssp. **negevensis** (M. Zohary) M. B. Crespo, Flora Montiber. 32: 17, 2006. Basionym: *Caralluma negevensis*. [Omitted previously.]

Apteranthes munbyana ssp. **hispanica** (Coincy) M. B. Crespo & Mateo ex M. B. Crespo, Flora Montiber. 32: 18, 2006. Basionym: *Boucerosia munbyana* var. *hispanica*. [Omitted previously.]

Caralluma lamellosa M. G. Gilbert & Thulin, Nordic J. Bot. 23(5): 523-524, ills., 2005. Typus: *Thulin & al.* 10604 (UPS, K). [Omitted previously.]

Cibirhiza spiculata Thulin & Goyder, Kew Bull. 63(4): 619-620, ills. (pp. 622-623), 2008. Typus: *Thulin & al.* 11147 (ETH, K, UPS).

Cynanchum gerrardii ssp. **lenewtonii** (Liede) Goyder, Kew Bull. 63(3): 465, 2008. Basionym: *Cynanchum lenewtonii*.

Cynanchum oresbium (Bruyns) Goyder, Kew Bull. 63(3): 471, 2008. Basionym: *Sarcostemma oresbium*.

Cynanchum resiliens (B. R. Adams & R. W. K. Holland) Goyder, Kew Bull. 63(3): 471, 2008. Basionym: *Sarcostemma resiliens*.

Cynanchum stoloniferum (B. R. Adams & R. W. K. Holland) Goyder, Kew Bull. 63(3): 471, 2008. Basionym: *Sarcostemma stoloniferum*.

Cynanchum vanlessenii (Lavranos) Goyder, Kew Bull. 63(3): 471, 2008. Basionym: *Sarcostemma vanlessenii*.

Cynanchum viminale ssp. **mulanjense** (Liede & Meve) Goyder, Kew Bull. 63(3): 471, 2008. Basionym: *Sarcostemma mulanjense*.

Cynanchum viminale ssp. **odontolepis** (Balfour fil.) Goyder, Kew Bull. 63(3): 471, 2008. Basionym: *Sarcostemma odontolepis*.

Cynanchum viminale ssp. **suberosum** (Meve & Liede) Goyder, Kew Bull. 63(3): 472, 2008. Basionym: *Sarcostemma viminale* ssp. *suberosum*.

Echidnopsis uraiqatiana Dioli, Haseltonia 13: 61-62, ills., 2008. Typus: *Dioli* 80 (BG, SR-GH). [Dated Dec. 2007, published in early Jan. 2008.]

Hoya anncajanae Kloppenburg & Siar, Asia Life Sci. 17(1): 62-66, ills., 2008. Typus: *Siar & Cajano* 5923 (CAHUP 70358).

Hoya australis ssp. **melanesica** P. I. Forster & Liddle, Asklepios No. 102: 13, ills. (pp. 13-14), 2008. Lectotypus: *US Expl. Exped.* s.n. (US [lecto]) [Lectotype designated for the replaced synonym by A. C. Smith, Fl. Vitiensis Nova 4: 118, 1988.]. [*Nom. nov. pro Hoya bicarinata* A. Gray 1862.]

Hoya benvergarae Kloppenburg & Siar, Asia Life Sci. 17(1): 58-62, ills., 2008. Typus: *Siar & Cajano* 5932 (CAHUP 70357). [Sphalm. 'benvergarae'.]

Hoya faoensis Kloppenburg & Siar ex Kloppenburg, Fraterna 21(4): 18, ills. (pp. 18-21), 2008. Typus: *Whistler* 5714 (HAW).

Hoya heuschkeliana ssp. **cajanae** Kloppenburg & Siar, Fraterna 20(4): 9-11, 2008. Typus: *Hernaez & Cajano* s.n. (CAHUP 56574). [Dated 2007, received April 2008.]

Hoya lazaroii Kloppenburg & Siar, Asia Life Sci. 17(1): 66-70, ills., 2008. Typus: *Siar & Cajano* 5942 (CAHUP). [Repeated in Fraterna 21(4): 22-25, 2008.]

Hoya nuuuliensis Kloppenburg & Siar ex Kloppenburg, Fraterna 21(4): 14, ills. (pp. 15-17), 2008. Typus: *Whistler* 8505 (HAW).

Hoya querinoensis Kloppenburg & Siar, Fraterna 20(4): 13-16, ills., 2008. Typus: *Wayet* s.n. (CAHUP 41946). [Dated 2007, received April 2008.]

Hoya ramosii Kloppenburg & Siar ex Kloppenburg, Fraterna 20(4): 17-19, ills., 2008. Typus: *Ramos & Edano* s.n. (PNH 75500, PRE, UC). [Dated 2007, received April 2008.]

Hoya tamaleaaea Kloppenburg & Siar ex Kloppenburg, Fraterna 21(4): 9, ills. (pp. 9-13), 2008. Typus: *Whistler* 2705 (HAW).

Huernia calosticta Bruyns, Bothalia 38(1): 83-84, ills., 2008. Typus: *Bruyns* 10733 (BOL, E).

Orbea decaisneana ssp. **hesperidum** (Maire) Jonkers, Asklepios No. 100: 58, 2008. Basionym: *Caralluma hesperidum*.

Orbea nardii Raffaelli & al., Webbia 63(2): 162-164, ills., 2008. Typus: *Raffaelli & al.* s.n. (FT).

Pleurolluma Plowes, Cact. World 26(2): 98, 2008. Typus: *Caralluma lamellosa* M. G. Gilbert & Thulin.

Pleurolluma lamellosa (M. G. Gilbert & Thulin) Plowes, Cact. World 26(2): 98, ill., 2008. Basionym: *Caralluma lamellosa*.

ASTERACEAE

Senecio pondoensis van Jaarsveld & A. E. van Wyk, *Aloe* 45(2): 28-29, ills., 2008. Typus: *van Jaarsveld & al.* 19297 (PRE).

BEGONIACEAE

Begonia barborkae Halda, *Acta Mus. Richnov. Sect. Nat.* 14(4): 105-107, ills. (pp. 109, 117), 2008. Typus: *Halda* 07111801 (PR 11970). [Dated 2007, received March 2008.]

Begonia krystofii Halda, *Acta Mus. Richnov. Sect. Nat.* 14(4): 107-110, ills. (p. 117), 2008. Typus: *Halda* 07112003 (PR 11971). [Dated 2007, received March 2008.]

BOMBACACEAE

Ceiba rubriflora Carvalho-Sobrinho & L. P. Queiroz, *Kew Bull.* 63: 649-653, ills., 2008. Typus: *Carvalho-Sobrinho & Queiroz* 574 (HUEFS, K, NY, UEC).

BURSERACEAE

Beiselieae Thulin & al., *Nordic J. Bot.* 26(3-4): 226, 2008. Typus: *Beiselia* Forman.

Commiphora otjhipana Swanepoel, *South Afr. J. Bot.* 74: 623-626, ills., 2008. Typus: *Swanepoel* 239 (WIND, PRE).

CACTACEAE

Ancistrocactus scheeri ssp. **brevihamatus** (Engelmann) Hochstätter, *Cactaceae Rev.* 11(2): 20, 2008. Basionym: *Echinocactus brevihamatus*.

+**Arioechinopsis** Mottram, *Cact. World* 26(3): 172, 2008. [*Ariocarpus* + *Echinopsis*.]

+**Astromyrtillocactus** Mottram, *Cact. World* 26(3): 173, 2008. [= *Astrophytum* + *Myrtillocactus*.]

Austrocylindropuntia floccosa ssp. **yanganucensis** (Rauh & Backeberg) Ostolaza, *Cact. Syst. Init. No.* 24: 6, 2008. Basionym: *Tephrocactus yanganucensis*.

Austrocylindropuntia subulata 'Cresta' D. Guillot, *Bouteloua* 3: 32, ill. (p. 37), 2008. *Nom. inval.* (Art. ICNCP 19.13).

Aylostera mandingaensis R. Wahl & Jucker, *Kakt. and. Sukk.* 59(4): 101-103, ills., 2008. Typus: *Jucker* 421 (ZSS, LPB, ZSS).

+**Digitoechinopsis** Mottram, *Cact. World* 26(3): 173, 2008. [= *Digitostigma* + *Echinopsis*.]

Discocactus bahiensis ssp. **petr-halfari** (Zachar) P. J. Braun & Esteves, *Kakt. and. Sukk.* 59(7): 184, ill., 2008. Basionym: *Discocactus petr-halfari*.

Discocactus petr-halfari Zachar, *Kaktusy* 44(2): 45, ills. (pp. 43-47), 2008. Typus: *Zachar & al.* s.n. (UFG 30279).

Discocactus placentiformis ssp. **multicolorispinus** P. J. Braun & Brederoo ex P. J. Braun & Esteves, *Kakt. and. Sukk.* 59(8): 212, ills. (pp. 211-212), 2008. Typus: *Bueneker* s.n. (U, ZSS). [Name first published as combination for the invalidly published *Discocactus multicolorispinus*, and erroneously treated as valid in RPS 44.]

Discocactus speciosus ssp. **bierianus** Ralf Bauer, *EPIG No.* 60: 31-33, ills., 2008. Typus: *Lautner* 92/46 (ZSS, MEXU).

Echinocereus group *Poselgerianae* W. Blum & al., *Echinocereenfreund* 21(Sonderausgabe): 21, 2008. *Nom. inval.* (Art. 36.1, 37.1).

Echinocereus group *Schmollianae* W. Blum & al., *Echinocereenfreund* 21(Sonderausgabe): 21, 2008. *Nom. inval.* (Art. 36.1, 37.1).

Echinocereus occidentalis (N. P. Taylor) Rischer & al., *Echinocereenfreund* 22(1): 23, 2008. Basionym: *Echinocereus stramineus* var. *occidentalis*. [Dated 2009, received 2. 12. 2008 at ZSS.]

Echinocereus poselgeri ssp. **gerhardii** Waldeis & al., *Echinocereenfreund* 21(Sonderausgabe): 53, 2008. Typus: *Köhres* 8964 (KR, JE) [Ex cult. W. Blum & al., 2008.]

Eriosyce Subgen. **Neoporteria** (Britton & Rose) H. E. Walter, *Bradleya* 26: 91, 2008. Basionym: *Neoporteria*. [Name first used invalidly (Art. 33.4) by A. E. Hoffmann & H. E. Walter, *Cact. Fl. Chile*, ed. 2, 168, 2005.]

Eriosyce clavata (Söhrens ex K. Schumann) H. E. Walter, *Bradleya* 26: 92, 2008. Basionym: *Echinocactus clavatus*.

Eriosyce clavata ssp. *nigrihorrida* (Backeberg) H. E. Walter, *Bradleya* 26: 92, 2008. *Nom. inval.* (Art. 33.4), based on *Neoporteria nigrihorrida*. [Invalid because the basionym reference does not refer to the place of valid publication of the basionym.]

Gymnocalycium borthii ssp. **kokorii** Halda & Milt, *Acta Mus. Richnov. Sect. Nat.* 14(4): 96, ills. (pp. 102-103), 2008. Typus: *JPR* 89/204 (Herb. J. J. Halda 070622) [Ex cult. I. Milt, 22. 6. 2007]. [Dated 2007, received March 2008. Sphalm. 'kokori'.]

Gymnocalycium chiquitanum var. *hammerschmidii* (Backeberg) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. *Nom. inval.*, based on *Gymnocalycium hammerschmidii*, *nom. inval.* (Art. 8.4).

Gymnocalycium chubutense var. **dubniorum** (Halda & Milt) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym:

- Gymnocalycium dubniorum*.
- Gymnocalycium delaetii** ssp. **marsoneri** (Fric ex Y. Ito) H. Till & Amerhauser, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium marsoneri*.
- Gymnocalycium ferrarii** ssp. **evae** Halda & Milt, *Acta Mus. Richnov. Sect. Nat.* 14(4): 98, ills. (pp. 97, 103-104), 2008. Typus: *Fechser* s.n. (Herb. J. J. Halda 070623) [Ex cult. I. Milt, 15. 6. 2007]. [Dated 2007, received March 2008.]
- Gymnocalycium friedrichii** ssp. **eytianum** (Cárdenas) H. Till & Amerhauser, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium eytianum*.
- Gymnocalycium gaponii** ssp. **geyeri** Neuhuber & Gapon, *Gymnocalycium* 21(1): 752-754, ills., 2008. Typus: *Neuhuber* 91-375/1256 (CORD, WU).
- Gymnocalycium horstii** ssp. **megalanthum** Amerhauser, *Gymnocalycium* 21(3): 800, ills., 2008. Typus: *Anonymus* s.n. in *Till* 1351 (SP).
- Gymnocalycium hossei** var. **breviflorum** (Backeberg) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Echinocactus mazanensis* var. *breviflorus*.
- Gymnocalycium hossei** var. **nidulans** (Fric ex Backeberg) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium nidulans*.
- Gymnocalycium hyptiacanthum** ssp. **netrelia-nium** (Monville ex Labouret) Meregalli, *Cact. Syst. Init. No.* 24: 22, 2008. Basionym: *Echinocactus netrelianus*.
- Gymnocalycium hyptiacanthum** ssp. **uruguayense** (Arechavaleta) Meregalli, *Cact. Syst. Init. No.* 24: 24, 2008. Basionym: *Echinocactus uruguayensis*.
- Gymnocalycium intertextum** fa. **moserianum** Schütz ex J. G. Lambert, *Succulenta* 87(1): 6, ills. (pp. 6-9), 2008. Typus: *Lambert* 412 (U). [Previously known as *Gymnocalycium moserianum* Schütz 1966 (*nom. inval.*, Art. 37.1).]
- Gymnocalycium kuehhasii** Neuhuber & R. Sperling, *Gymnocalycium* 21(1): 748-750, ills., 2008. Typus: *Kühhas* 93-128/472 (CORD, WU).
- Gymnocalycium megatae** ssp. **matoense** (Buining & Brederoo) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium matoense*.
- Gymnocalycium mostii** ssp. **valnicekianum** (Jajó) Meregalli & G. Charles, *Cact. Syst. Init. No.* 24: 25, 2008. Basionym: *Gymnocalycium valnicekianum*.
- Gymnocalycium occultum** (Fric ex H. Till & W. Till) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium stellatum* ssp. *occultum*.
- Gymnocalycium oenanthemum** ssp. **carminanthum** (Borth & Koop) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium carminanthum*. [Sphalm. 'oenanthemum', 'carminanthum'.]
- Gymnocalycium parvulum** ssp. **amoenum** (H. Till) F. Berger, *Gymnocalycium* 21(2): 766, 2008. Basionym: *Gymnocalycium parvulum* var. *amoenum*.
- Gymnocalycium parvulum** ssp. **huettneri** F. Berger, *Gymnocalycium* 21(2): 763-764, ills., 2008. Typus: *Berger* 03-351/1693 (CORD).
- Gymnocalycium paucispinum** (Backeberg ex H. Till & W. Till) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium riojense* ssp. *paucispinum*.
- Gymnocalycium poeschlii** ssp. **dolezalii** Halda & Milt, *Acta Mus. Richnov. Sect. Nat.* 14(4): 101-102, ills. (pp. 97, 103-104), 2008. Typus: *Piltz* 192 (Herb. J. J. Halda 070627) [Ex cult. I. Milt, 20. 6. 2007]. [Dated 2007, received March 2008.]
- Gymnocalycium reductum** ssp. **sibalii** (Halda & Milt) Neuhuber, *Gymnocalycium* 21(1): 758, ills. (pp. 756-759), 2008. Basionym: *Gymnocalycium sibalii*.
- Gymnocalycium rhodantherum** ssp. **recii** Halda & Milt, *Acta Mus. Richnov. Sect. Nat.* 14(4): 100-101, ills. (pp. 99, 103-104), 2008. Typus: *Anonymus* s.n. in *Uhlig* U140 (Herb. J. J. Halda 070625) [Ex cult. I. Milt, 20. 6. 2007]. [Dated 2007, received March 2008.]
- Gymnocalycium riojense** ssp. **guasayanense** (Strigl) H. Till, *Gymnocalycium* 21(Sonderausgabe): 816, 2008. Basionym: *Gymnocalycium riojense* var. *guasayanense*.
- Gymnocalycium strigianum** ssp. **otmarii** Halda & Milt, *Acta Mus. Richnov. Sect. Nat.* 14(4): 102, ills. (pp. 103-104), 2008. Typus: *JPR* 80/180 (Herb. Halda 070627) [Ex cult. I. Milt, 20. 6. 2007.]. [Dated 2007, received March 2008. Sphalm. 'otmari'.]
- Gymnocalycium vatteri** var. **altautinense** (Papsch) Gapon, *Gymnorus* No. 19: 74, ills., 2007. Basionym: *Gymnocalycium ochoterense* var. *altautinense*. [Omitted previously. Dated 2006, publ. 2007.]
- Harrisia eriophora** var. **fragrans** (Small) D. B. Ward, *Novon* 14(3): 366, 2004. Basionym: *Harrisia fragrans*. [Omitted previously.]
- Harrisia gracilis** var. **aboriginum** (Small) D. B. Ward, *Novon* 14(3): 366, 2004. Basionym: *Harrisia aboriginum*. [Omitted previously.]
- Harrisia gracilis** var. **simpsonii** (Small) D. B. Ward, *Novon* 14(3): 367, 2004. Basionym: *Harrisia simpsonii*. [Omitted previously.]
- Lobivia arachnacantha** 'Belle' Schelkunova, *Kakt. Klub* 2007(1-2): 28, ill., (p. 34), 2008. [Volume for 2007, dated March 2008.]
- Lophophora alberto-vojtechii** Bohata & al., *Cactus & Co.* 12(2): 108-110, ills. (pp. 105-116) (30. 7. 2008), 2008. Typus: *Hinton* 28642 (Herb. G. B. Hinton). [Republished in *Cactaceae* etc. 18(4): 125-128, Dec. 2008.]
- Maihueniopsis glomerata** ssp. **hypogaea** (Werdermann) G. Charles, *Bradleya* 26: 71, 2008. Basionym: *Opuntia hypogaea*.

- Mammillaria candida** ssp. **menchacaensis** Rogozinski & Plein, *Mitteilungsbl. AfM* 32(4): 193-195, ill. (pp. 190-192), 2008. Typus: *Rogozinski 26* (UAT 22253).
- Mammillaria cobrensis** (Reppenhagen ex Hils) Rogozinski & Plein, *Mitteilungsbl. AfM* 32(4): 222, ill. (pp. 218-219), 2008. Basionym: *Mammillaria lindsayi* var. *cobrensis*.
- Mammillaria eumorpha** Reppenhagen ex Tamegger & Knees, *Mitteilungsbl. AfM* 32(3): 128-131, ill., 2008. Typus: *Reppenhagen 2264* (ZSS). [Based on a manuscript name of W. Reppenhagen.]
- Mammillaria stella-de-tacubaya** ssp. **egregia** (Rogozinski & Appenzeller) Appenzeller & Linzen, *Mammillarien (Loseblatt-Sammlung AfM)* 2007: [1], 2008. Basionym: *Mammillaria egregia*. [Dated 2007, publ. March 2008. Pages within the part of the work not consecutively numbered, and numbering starting at 1 for each individual taxon treated.]
- Mammillaria temorisensis** Rogozinski & Plein, *Mitteilungsbl. AfM* 32(3): 145-151, ill., 2008. Typus: *Rogozinski 655* (UAT 22251).
- Melocactus alex-bragai** P. J. Braun & Esteves, *Cact. Succ. J. (US)* 80(5): 252, ill. (pp. 251-253), 2008. Typus: *Braga 87* (UFG). [Sphalm. 'alex-bragai' but correctable under the mandatory recommendation 60C.1(a).]
- Micranthocereus flaviflorus** ssp. **uilianus** (Bredero & C. A. L. Bercht) P. J. Braun & Esteves, *Kakt. and. Sukk.* 59(5): 125, ill., 2008. Basionym: *Micranthocereus uilianus*.
- Notocactus callianthus** Prestlé, *Internoto* 29(1): 15, ill., in synonym., 2008. Based on *Prestlé 107. Nom. inval.* (Art. 36.1, 37.1). [Used previously for many years as nude name in fieldnumber lists, and now described under the provisional name *Notocactus herteri* ssp. *callianthus*.]
- Notocactus gaucha** (M. Machado & Larocca) N. Gerloff & H. Henssen, *Internoto* 29(4): 75, ill., 2008. Basionym: *Parodia gaucha*. [Sphalm. 'gaucho'. The epithet is to be treated as noun in apposition. Repeated in l.c. 30(1): 16, 2009, in the belief that the original combination was invalid under Art. 33.4, but see 33.4 Note 1.]
- Notocactus herteri** ssp. *callianthus* Prestlé, *Internoto* 29(1): 15-17, ill., 2008. Based on *Prestlé 107. Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name. Also previously mentioned as *Notocactus callianthus* Prestlé.]
- Notocactus rutilans** fa. **robustior** N. Gerloff, *Internoto* 29(2): 37-38, ill., 2008. Typus: *Gerloff 1745* (MVM).
- Nyctocereus serpentinus** ssp. **splendens** (Salm-Dyck ex Lemaire) Scheinvar, *Schumannia* 5: 141, 2008. Basionym: *Cereus serpentinus* var. *splendens*.
- Opuntia basilaris** ssp. **brachyclada** (Griffiths) Guiggi, *Succulentes* 2008(1): 7, 2008. Basionym: *Opuntia brachyclada*.
- Opuntia basilaris** ssp. **treleasei** (J. M. Coulter) Guiggi, *Succulentes* 2008(1): 7, 2008. Basionym: *Opuntia treleasei*.
- Opuntia cylindrica* 'Monstruosa' D. Guillot, *Bouteloua* 3: 32, ill. (p. 38), 2008. *Nom. inval.* (Art. ICNCP 19.13).
- ×**Pachebergia** S. Arias & Terrazas, *Revista Mex. Biodivers.* 79(1): 26, 2008. [= *Pachycereus* × *Backebergia*.]
- ×**Pachebergia apicicostata** S. Arias & Terrazas, *Revista Mex. Biodivers.* 79(1): 26-27, ill. (pp. 25, 27), 2008. Typus: *Terrazas & al. 673* (MEXU, CHAPA). [= *Pachycereus pecten-aboriginum* × *Backebergia militaris*.]
- Parodia berchtii* Brickwood ex M. Eichler, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 13, 2008. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Parodia borthii* Brickwood ex M. Eichler, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 13-14, ill., 2008. Based on *Eichler 79. Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Parodia gaucha** M. Machado & Larocca, *Novon* 18(2): 215-216, ill., 2008. Typus: *Machado & al. 865* (ZSS, HASU, HUEFS, MO).
- Parodia horrida** var. **heteracantha** (F. Ritter ex Weskamp) Käsinger, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 3, ill., 2008. Basionym: *Parodia heteracantha*.
- Parodia horrida** var. **pluricentralis** Käsinger, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 6, ill., 2008. Typus: *Käsinger 16* (GOET).
- Parodia lambertii* Brickwood ex M. Eichler, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 13-14, ill., 2008. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Parodia microsperma* var. *escabensis* Brickwood ex M. Eichler, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 14-15, ill., 2008. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Parodia wahlhii* Brickwood ex M. Eichler, *Mitteilungsbl. Inter-Parodia-Kette* No. 25: 14-15, ill., 2008. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Rebutia dutineana** Rausch, *Kakt. and. Sukk.* 59(9): 251-252, ill., 2008. Typus: *Rausch 826* (LPB).
- Rebutia dutineana** var. **gracilior** Rausch, *Kakt. and. Sukk.* 59(9): 252, 2008. Typus: *Rausch 826a* (LPB).
- Rhipsalis cuneata** ssp. **australis** Ralf Bauer, *EPIG* 62: 26, ill. (pp. 16, 18), 2008. Typus: *Aguilar s.n.* (ZSS).
- Sclerocactus spinosior** ssp. **nyensis** (Hochstätter) J. Lüthy, *Cact. Syst. Init.* No. 23: 28, 2008. Basionym: *Sclerocactus nyensis*. [First invalidly (Art. 33.4) published in l.c. No. 22: 28, 2007, and erroneously reported as correct in RPS 58.]
- Siccobaccatus insigniflorus** (Diers & Esteves) P. J. Braun & Esteves, *Cact. Succ. J. (US)* 80(1): 41, 2008. Basionym: *Austrocephalocereus es-*

- tevesii* ssp. *insigniflorus*.
- Sulcorebutia canigeralii** var. **applanata** (Donald & Krahn) Horáček, Acta Mus. Richnov. Sect. Nat. 14(4): 93, 2008. Basionym: *Sulcorebutia verticillacantha* var. *applanata*. [Dated 2007, received March 2008.]
- Sulcorebutia heliosoides** P. Lechner & Draxler, Kakt. and. Sukk. 59(3): 62-63, ill. (pp. 58-63), 2008. Typus: *Lechner* 20.395 (LPB).
- Sulcorebutia purpurea** ssp. **gigantea** Halda & al., Acta Mus. Richnov. Sect. Nat. 14(4): 93-94, 2008. Typus: *Halda & al.* 07111401 (PR 11973). [Dated 2007, received March 2008.]
- Sulcorebutia purpurea** ssp. **horacekii** (Slaba) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 14(4): 94, 2008. Basionym: *Sulcorebutia horacekii*. [Dated 2007, received March 2008.]
- Sulcorebutia purpurea** ssp. **jolantae** Halda & al., Acta Mus. Richnov. Sect. Nat. 14(4): 94-95, 2008. Typus: *Halda & al.* 071126 (PR 11974). [Dated 2007, received March 2008.]
- Sulcorebutia tarabucoensis** ssp. **aureiflora** (Rausch) Horáček, Acta Mus. Richnov. Sect. Nat. 14(4): 95, 2008. Basionym: *Sulcorebutia verticillacantha* var. *aureiflora*. [Dated 2007, received March 2008. Rank of the basionym erroneously given as ssp.]
- Sulcorebutia tarabucoensis* ssp. *rauschii* (G. Frank) Halda & Malina, Acta Mus. Richnov. Sect. Nat. 14(4): 95, 2008. *Nom. illeg.* (Art. 11.4, 52.1), based on *Sulcorebutia rauschii*. [Dated 2007, received March 2008. Illegitimate since the basionym of the subspecies has priority at species rank. Name first used invalidly (Art. 33.3) by J. de Vries, Inform.-brief Freundeskreis Echinopseer No. 32: 4, 2002 (RPS 53).]
- Sulcorebutia tarvitaensis** Gertel & P. Lechner, Kakt. and. Sukk. 59(2): 32, ill., 2008. Typus: *Gertel* 334 (ZSS, LPB, ZSS).
- Weingartia arenacea** var. **candiae** (Cárdenas) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. Basionym: *Rebutia candiae*.
- Weingartia arenacea** var. **kamiensis** (Brederoo & Donald) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. Basionym: *Sulcorebutia menesesii* var. *kamiensis*.
- Weingartia arenacea** var. **menesesii** (Cárdenas) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. Basionym: *Rebutia menesesii*.
- Weingartia augustinii** (Hentzschel) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. Basionym: *Sulcorebutia augustinii*.
- Weingartia azurduyensis** (Gertel & al.) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. Basionym: *Sulcorebutia azurduyensis*.
- Weingartia breviflora* var. *haseltonii* (Cárdenas) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. *Nom. inval.* (Art. 43.1), based on *Rebutia haseltonii*.
- Weingartia breviflora* var. *loui* (Diers) Hentzschel & K. Augustin, Gymnocalycium 21(2): 777, 2008. *Nom. inval.* (Art. 43.1), based on *Sulcorebutia breviflora* var. *loui*.
- Weingartia cantargalloensis** (Gertel & al.) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia cantargalloensis*. [Sphalm. 'cantargalloensis'.]
- Weingartia cintia** (Hjertson) Hentzschel & K. Augustin, Gymnocalycium 21(2): 775, 2008. Basionym: *Rebutia cintia*.
- Weingartia crispata** var. **hertusii** (Halda & Horáček) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia crispata* ssp. *hertusii*.
- Weingartia cuprea** (Rausch) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia verticillacantha* var. *cuprea*.
- Weingartia cylindrica** var. **crucensis** (Gertel) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia cylindrica* var. *crucensis*.
- Weingartia dorana** (Gertel) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia dorana*.
- Weingartia elizabethae** (J. de Vries) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia elizabethae*.
- Weingartia fischeriana** (K. Augustin) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia fischeriana*.
- Weingartia gemmae** (Mosti & Rovida) Hentzschel & K. Augustin, Gymnocalycium 21(2): 778, 2008. Basionym: *Sulcorebutia gemmae*.
- Weingartia heliosoides** (P. Lechner & Draxler) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia heliosoides*.
- Weingartia juckeri** (Gertel) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia juckeri*.
- Weingartia langeri** (K. Augustin & Hentzschel) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia langeri*.
- Weingartia mariae** (Swoboda) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia mariae*. [Sphalm. 'mariana'.]
- Weingartia mariae** var. **loui** (Brederoo & Donald) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia vizcarrae* var. *loui*. [Sphalm. 'mariana'.]
- Weingartia mariae** var. **prantneri** (K. Augustin & Hentzschel) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia mariae* var. *prantneri*. [Sphalm. 'mariana'.]
- Weingartia markusii** var. **mizquensis** (Rausch) Hentzschel & K. Augustin, Gymnocalycium 21(2): 779, 2008. Basionym: *Sulcorebutia mizquensis*.

- Weingartia markusii** var. **tintinensis** (Gertel) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 779, 2008. Basionym: *Sulcorebutia markusii* ssp. *tintinensis*. [Sphalm. 'tintinensis'.]
- Weingartia mentosa** var. **albissima** (F. H. Brandt) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 779, 2008. Basionym: *Weingartia albissima*.
- Weingartia mentosa** var. **swobodae** (K. Augustin) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 779, 2008. Basionym: *Sulcorebutia swobodae*.
- Weingartia naunacaensis** (J. de Vries) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 779, 2008. Basionym: *Sulcorebutia naunacaensis*.
- Weingartia purpurea** var. **santiaginiensis** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 780, 2008. Basionym: *Sulcorebutia santiaginiensis*.
- Weingartia purpurea** var. **unguispina** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 780, 2008. Basionym: *Sulcorebutia unguispina*.
- Weingartia roberto-vasquezii** (Diers & Krahn) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 780, 2008. Basionym: *Sulcorebutia roberto-vasquezii*.
- Weingartia steinbachii** ssp. **krugerae** (Cárdenas) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 780, 2008. Basionym: *Aylosteria krugerae*.
- Weingartia steinbachii** var. **hoffmannii** (K. Augustin & Hentschel) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 780, 2008. Basionym: *Sulcorebutia krugerae* var. *hoffmannii*.
- Weingartia steinbachii** var. **horrida** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Sulcorebutia steinbachii* var. *horrida*.
- Weingartia steinbachii** var. **taratensis** (Cárdenas) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Rebutia taratensis*. [Basionym and bracket author of the variety incorrectly given, but the correct basionym is also enumerated as further synonym so that the combination is validly published.]
- Weingartia steinbachii** var. **tunariensis** (Cárdenas) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 780, 2008. Basionym: *Rebutia tunariensis*. [Repeated l.c. p. 781.]
- Weingartia steinbachii** var. **verticillacantha** (F. Ritter) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Sulcorebutia verticillacantha*.
- Weingartia tarabucoensis** var. **aureiflora** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Sulcorebutia verticillacantha* var. *aureiflora*.
- Weingartia tarabucoensis** var. **callecallensis** (F. H. Brandt) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Weingartia callecallensis*.
- Weingartia tarijensis** ssp. **carchimayuensis** (K. Augustin) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Sulcorebutia tarijensis* ssp. *carchimayuensis*. [Sphalm. 'carchimayuensis'.]
- Weingartia tarijensis** ssp. **samaensis** (K. Augustin) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Sulcorebutia tarijensis* ssp. *samaensis*.
- Weingartia tarvitaensis** (Gertel & P. Lechner) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 781, 2008. Basionym: *Sulcorebutia tarvitaensis*.
- Weingartia tiraquensis** var. **aguilarii** (K. Augustin & Gertel) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia tiraquensis* var. *aguilarii*.
- Weingartia tiraquensis** var. **krahonii** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia krahonii*.
- Weingartia tiraquensis** var. **lepida** (F. Ritter) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia lepida*.
- Weingartia tiraquensis** var. **longiseta** (Cárdenas) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Rebutia tiraquensis* var. *longiseta*.
- Weingartia tiraquensis** var. **pampagrandensis** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Incorrect name (Art. 11.4), based on *Sulcorebutia pampagrandensis*. [Name incorrectly used since the prioritable *Sulcorebutia oenantha* var. *oenantha* (established upon publication of *S. oenantha* var. *pampagrandensis*) was overlooked.]
- Weingartia tiraquensis** var. **renatae** (Hentschel & S. Beck) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia tiraquensis* var. *renatae*.
- Weingartia tiraquensis** var. **totorensis** (Cárdenas) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Rebutia totorensis*.
- Weingartia vargasii** (Diers & Krahn) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia vargasii*.
- Weingartia vargasii** var. **viridissima** (Diers & Krahn) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia vargasii* var. *viridissima*.
- Weingartia vasqueziana** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia vasqueziana*.
- Weingartia vasqueziana** var. **losenickyana** (Rausch) Hentschel & K. Augustin, *Gymnocalycium* 21(2): 782, 2008. Basionym: *Sulcorebutia losenickyana*.
- Wigginsia calvescens** (N. Gerloff & A. D. Nilson) F. Font, *Internoto* 29(4): 93, ill. (p. 94), 2008. Basionym: *Notocactus calvescens*. [Name first

published invalidly (Art. 33.4, Note 1) l.c. 28: 14, 2007 (cf. RPS 58).]

CRASSULACEAE

- Aeonium arboreum** ssp. **holochrysum** (H.-Y. Liu) Bañares, Willdenowia 38(2): 476, 2008. Basionym: *Aeonium arboreum* var. *holochrysum*.
- Aeonium canariense** ssp. **christii** (Burchard) Bañares, Willdenowia 38(2): 477, 2008. Basionym: *Sempervivum canariense* ssp. *christii*.
- Aeonium canariense** ssp. **latifolium** (Burchard) Bañares, Willdenowia 38(2): 477, 2008. Basionym: *Sempervivum canariense* ssp. *latifolium*.
- Aeonium canariense** ssp. **virginum** (Webb ex Christ) Bañares, Willdenowia 38(2): 477, 2008. Basionym: *Aeonium virginum*.
- Aeonium decorum** var. **alucense** Bañares & M. V. Marrero, Willdenowia 38(2): 478-479, ills., 2008. Typus: *Bañares & Marrero* 46850 (TFC).
- Aeonium lindleyi** ssp. **viscatum** (Bolte) Bañares, Willdenowia 38(2): 481, 2008. Basionym: *Aeonium viscatum*.
- Aichryson laxum** var. **latipetalum** Bañares & M. V. Marrero, Willdenowia 38(2): 480-481, ills., 2008. Typus: *Bañares & Marrero* 46860 (TFC).
- Aichryson tortuosum** var. **bethencourtianum** (Bolte) Bañares & S. Scholz, Willdenowia 38(2): 481, ills. (p. 482), 2008. Basionym: *Aichryson bethencourtianum*.
- Crassula** 'Daphne Holmes' M. Holmes, Cact. Succ. J. (Woollahra) 26(3): 71-72, ill., 2008. [= *Crassula congesta* ssp. *congesta* × *C. ausensis*.]
- ×**Cremnosedum** 'First Foundling' R. Stephenson, Sedum Soc. Newslett. No. 87: 4-6, ills., 2008. [= *Sedum* 'Sandra Mottram' (male) × *Cremnophila linguifolia*.]
- ×**Cremnosedum** 'Pearson's Surprise' Moullec, Sedum Soc. Newslett. No. 86: 82-83, ill., 2008. [= *Sedum dendroideum* × *Cremnophila nutans*.]
- Echeveria** 'Green Star' Bokotej, Cactaceae etc. 28(2): 49-51, ills., 2008. [= *Echeveria harmsii* × *E. runyonii*.]
- Echeveria** ×**gilva** 'Eyeful' G. D. Rowley, Cact. World 26(4): 203-205, ills., 2008.
- ×**Graptoveria** 'A Grim One' M. Bischofberger, Sedum Soc. Newslett. No. 87: 6-7, ills., 2008. [A hybrid of unknown parentage circulating in cultivation since several years.]
- Hylotelephium** 'Thua' Weckström, Sedum Soc. Newslett. No. 85: 52-53, ill., 2008. [Probably *Hylotelephium ewersii* × *H. populifolium*.]
- Jovibarba globifera** ssp. **lagariniana** L. Gallo, Ann. Mus. Civici Rovereto, Sez. Archeol., Storia, Sci. Nat. 23: 145-146, ills. (p. 147), 2008. Typus: *Goiran* s.n. (FI [Herb. Martel-

li]).

- Kalanchoe rosei** var. **serratifolia** (Humbert) J. M. H. Shaw, Hanburyana 3: 27, 2008. Basionym: *Kalanchoe rosei* ssp. *serratifolia*.
- Kalanchoe rosei** var. **variifolia** (Guillaumin & Humbert) J. M. H. Shaw, Hanburyana 3: 27, 2008. Basionym: *Kalanchoe rosei* ssp. *variifolia*.
- Monanthes minima** ssp. **adenoscepes** (Sventenius) Bañares, Willdenowia 38(2): 484, ills. (p. 485), 2008. Basionym: *Monanthes adenoscepes*.
- Pachyphytum contrerasii** Pérez-Calix, Acta Bot. Mex. 83: 64-66, ills., 2008. Typus: *Gómez & Gómez* 8157 (IEB, CIMI, ENCB, MEXU, XAL).
- ×**Sedeveria** 'Darley Dale' M. Bischofberger & R. Stephenson, Sedum Soc. Newslett. No. 87: 26-27, ills., 2008. [Hybrid of unknown parentage probably involving *Sedum nussbaumerianum*, originally distributed by Abbey Brook Nurseries.]
- Sedum chazaroi** P. Carrillo & J. Lomelí, Bol. Soc. Bot. México 83: 77-79, ills., 2008. Typus: *Carrillo-Reyes & Lomelí-Sención* 5105 (GUADA, IBUG, IEB, MEXU, MICH, MO, NY, XAL).
- Sedum gypsicola** ssp. **trinacriae** Afferni, Piante Grasse 28(2): 66, ill., 2008. Typus: *Afferni* s.n. (FI).
- Sedum porphyranthes** Reyes & al., Cact. Suc. Mex. 53(3): 70, ills. (pp. 69, 72-75), 2008. Typus: *Reyes* 5535 (MEXU).
- Sedum pseudorupestre** L. Gallo, Atti Soc. Ital. Sci. Nat. Mus. Civico Storia Nat. Milano 146(1): 50, 2005. Typus: 't Hart s.n. (U 16685). [Erroneously omitted so far. *Nom. nov. pro Sedum montanum* ssp. *orientale* 't Hart 1978 (*non Sedum orientale* Boissier 1849).]
- Sedum sediforme* 'Monstruosa' D. Guillot, Boute-loua 3: 31-32, ill. (p. 36), 2008. *Nom. inval.* (Art. ICNCP 19.13).
- Sempervivum ekimii** F. Karaer, Ann. Bot. Fenn. 45: 229, 2008. Typus: *Balls* s.n. (K) [Ex cult.].
- Thompsonella nellydiegoae** P. Carrillo & Pérez-Calix, Acta Bot. Mex. 84: 10-12, ills. (pp. 11, 14), 2008. Typus: *Carrillo-Reyes & al.* 4907 (IEB, MEXU, XAL).
- Tylecodon petrophilus** van Jaarsveld & E. A. van Wyk, Aloe 45(2): 31-32, ills., 2008. Typus: *van Jaarsveld & al.* 21117 (NBG).

CUCURBITACEAE

- Linnaeosicyos** Hanno Schaefer & Kocyan, Syst. Bot. 33(2): 350, 2008. Typus: *Trichosanthes amara* Linné.

Linnaeosicyos amara (Linné) Hanno Schaefer & Kocyan, Syst. Bot. 33(2): 350, ills. (pp. 353-354), 2008. Basionym: *Trichosanthes amara*.

DRACAENACEAE

Sansevieria aethiopica var. **itumea** Mbugua, in Mwachala & Mbugua, Fl. Trop. East Afr., Dracaenaceae, 17, 2007. Typus: *Bally & Smith* B14404A in *Pfennig* 312 (HBG, B) [Ex cult. H. Pfennig.]. [Previously omitted. First published invalidly (Art. 29.1, 32.1a) in Syst. Stud. Gen. Sansevieria [Thesis], 300-301, 1995. Identified as a probable natural hybrid *S. raffillii* × *S. gracilis* by Jankalski, Sansevieria No. 17: 20, 2007.]

Sansevieria gracilis var. **humbertiana** (Guillaumin) Mbugua, in Mwachala & Mbugua, Fl. Trop. East Afr., Dracaenaceae, 25-26, 2007. Basionym: *Sansevieria humbertiana*. [Omitted previously. First published invalidly (Art. 29.1, 32.1a) by Mbugua in Syst. Stud. Gen. Sansevieria [Thesis], 341-342, t. 7.1E-F, 1995.]

Sansevieria pfennigii Mbugua, in Mwachala & Mbugua, Fl. Trop. East Afr., Dracaenaceae, 33, 2007. Typus: *Schlieben* 5917 (MO, K). [Omitted previously. First published invalidly (Art. 29.1, 32.1a) by Mbugua in Syst. Stud. Gen. Sansevieria [Thesis], 367-368, 1995.]

Sansevieria subspicata var. **concinna** (N. E. Brown) Mbugua, in Mwachala & Mbugua, Fl. Trop. East Afr., Dracaenaceae, 14-15, 2007. Basionym: *Sansevieria concinna*. [Omitted previously.]

EUPHORBIACEAE

Euphorbia teres M. Machado & Hofacker, Kakt. and. Sukk. 59(6): 150-152, ills., 2008. Typus: *Machado & Santos* 772 (HUEFS).

GERANIACEAE

Monsonia lavrani (Halda) C. C. Walker, Cact. World 26(4): 249, ill., 2008. Basionym: *Sarco-caulon lavrani*.

Pelargonium albersii M. Becker, Schumannia 5: 158-159, ills. (p. 160), 2008. Typus: *Albers & Becker* 4259 (MSUN).

Pelargonium anauris M. Becker & F. Albers, Schumannia 5: 171-172, ills. (p. 173), 2008. Typus: *Albers & Becker* 4203 (MSUN 3984).

Pelargonium keeromsbergense M. Becker & F. Albers, Schumannia 5: 184, ills. (pp. 183, 185), 2008. Typus: *Albers & Becker* 4440 (MSUN 3881).

Pelargonium laxum ssp. **karoicum** M. Becker & F. Albers, Schumannia 5: 182, 184, ills. (pp. 183, 185), 2008. Typus: *Albers & Becker* 4451 (MSUN 3899).

GESNERIACEAE

Chirita maguanensis Z. Y. Li & al., Bot. J. Linn. Soc. 158: 269-272, ills., 2008. Typus: *Jiang* 3485 (PE, YAF).

LAMIACEAE

Plectranthus batianoffii P. I. Forster, Austrobaileya 7(4): 707-709, 2008. Typus: *Batianoff* 12118 (BRI).

LENTIBULARIACEAE

Pinguicula chuquisacensis S. Beck & al., Willdenowia 38(1): 205, ills. (p. 204), 2008. Typus: *Kessler & al.* 5149 (LPB, B).

MORACEAE

Dorstenia lavrani T. A. McCoy & M. Massara, Cact. Succ. J. (US) 80(2): 79, ills., 2008. Typus: *McCoy* 2969 (FT).

NOLANACEAE

Nolana aenigma M. O. Dillon & al., Arnaldoa 14(2): 172, ills. (pp. 173-174), 2008. Typus: *Leiva & al.* 2165 (HAO, F, HUT). [Dated 2007, published early 2008.]

Nolana arequipensis M. O. Dillon & Quipuscoa, Arnaldoa 14(2): 175, ills. (p. 176), 2008. Typus: *Dillon & al.* 8790 (HUSA, F, HAO, HUT, US, USM). [Dated 2007, published early 2008.]

Nolana chancoana M. O. Dillon & Quipuscoa, Arnaldoa 14(2): 177, ills. (pp. 178-179), 2008. Typus: *Dillon & Dillon* 3836 (HUSA, F, HAO, HUT, MO, NY, US, USM). [Dated 2007, published early 2008.]

Nolana chapiensis M. O. Dillon & Quipuscoa, Arnaldoa 14(2): 180, ills. (pp. 181-183), 2008. Typus: *Quipuscoa S. & Cáceres M.* 2495 (HUSA, F). [Dated 2007, published early 2008.]

- Nolana diana**e M. O. Dillon, *Arnaldoa* 14(2): 192, ills. (pp. 193-194), 2008. Typus: *Dillon & Dillon 5725* (SGO, F). [Dated 2007, published early 2008.]
- Nolana lachimbensis** M. O. Dillon & Luebert, *Arnaldoa* 14(2): 196, ills. (p. 197), 2008. Typus: *Dillon & Finger C. 8591* (SGO, duplicates to be distributed). [Dated 2007, published early 2008.]
- Nolana lezamae** M. O. Dillon & al., *Arnaldoa* 14(2): 184, ills. (pp. 185-186), 2008. Typus: *Leiva & al. 2212* (HAO, F, HUSA). [Dated 2007, published early 2008.]
- Nolana onoana** M. O. Dillon & M. Nakazawa, *Arnaldoa* 14(2): 199, ills. (pp. 200-201), 2008. Typus: *Dillon & Dillon 5729* (SGO, F, MAK, US, to be distributed). [Dated 2007, published early 2008.]
- Nolana philippiana** M. O. Dillon & Luebert, *Arnaldoa* 14(2): 203, ills. (pp. 204, 206), 2008. Typus: *Dillon & Dillon 5625* (SGO, F). [Dated 2007, published early 2008.]
- Nolana reichei** M. O. Dillon & Arancio, *Arnaldoa* 14(2): 207, ills. (pp. 208-210), 2008. Typus: *Dillon & Arancio 8690* (ULS, F, SGO). [Dated 2007, published early 2008.]

OXALIDACEAE

- Oxalis novemfoliolata** Heibl & Marticorena, *Gayana, Bot.* 65(1): 115-117, ills., 2008. Typus: *Heibl 02-022* (CONC, M, SGO).

PIPERACEAE

- Peperomia chutanka** Pino, *Cact. Succ. J. (US)* 80(5): 236, ills. (p. 238), 2008. Typus: *Pino 1969* (USM).
- Peperomia dolabriformis** var. **lombardii** Pino, *Cact. Succ. J. (US)* 80(5): 236, ills. (p. 234), 2008. Typus: *Pino 1761* (USM).
- Peperomia dolabriformis** var. **multicaulis** Pino & Cieza *ex* Pino, *Cact. Succ. J. (US)* 80(5): 237, ills. (p. 236), 2008. Typus: *Pino 1909* (USM).

PORTULACACEAE

- Anacampseros hillii** G. Williamson, *Aloe* 45(1): 16-18, ills., 2008. Typus: *Desmet & Ellis* s.n. in *Williamson 6051* (BOL).
- Ceraria kuneneana** Swanepoel, *South Afr. J. Bot.* 74: 71-73, ills., 2008. Typus: *Swanepoel 234* (WIND, PRE).

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