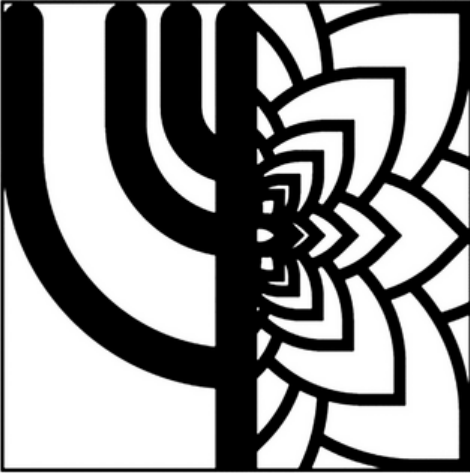


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International Organization
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Organización Internacional
para el Estudio de
Plantas Suculentas

Organisation Internationale
de Recherche sur les
Plantes Succulentes

Internationale Organisation
für Sukkulenten-Forschung

IOS

**Repertorium
Plantarum
Succulentarum
LXIV (2013)**

A short history of *Repertorium Plantarum Succulentarum*

The first issue of *Repertorium Plantarum Succulentarum* (RPS) was produced in 1951 by Michael Roan (1909–2003), one of the founder members of the International Organization for Succulent Plant Study (IOS) in 1950. It listed the ‘majority of the new names [of succulent plants] published the previous year’. The first issue, edited by Roan himself with the help of A. J. A. Uitewaal (1899–1963), was published for IOS by the National Cactus & Succulent Society, and the next four (with Gordon Rowley as Associate and later Joint Editor) by Roan’s newly formed British Section of the IOS. For issues 5–12, Gordon Rowley became the sole editor. Issue 6 was published by IOS with assistance by the Acclimatisation Garden Pinya de Rosa, Costa Brava, Spain, owned by Fernando Riviere de Caralt (1904–1992), another founder member of IOS.

In 1957, an arrangement for closer cooperation with the International Association of Plant Taxonomy (IAPT) was reached, and RPS issues 7–22 were published in their *Regnum Vegetabile* series with the financial support of the International Union of Biological Sciences (IUBS), of which IOS remains a member to this day. Issues 23–25 were published by Abbey Garden Press of Pasadena, California, USA, after which IOS finally resumed full responsibility as publisher with issue 26 (for 1975).

Gordon Rowley retired as editor after the publication of issue 32 (for 1981) along with Len E. Newton, who had assisted him with issues 13 onwards. Starting with issue 33, RPS was compiled and edited by Urs Eggli and Nigel Taylor, who enhanced it by adding data on nomenclatural types and enlarging the ‘Bibliographia’ section, first introduced in issue 20 (for 1969). After issue 45 (for 1994), Nigel Taylor handed over as co-editor to his wife Daniela Zappi, who assisted with issues 46–59. Reto Nyffeler joined the editorial team for issue 55 onwards.

Starting in 1986, a nomenclatural and bibliographical database was created at the Zürich Succulent Plant Collection to compile the individual issues. Over the years all earlier issues were added to this database, making it possible to produce the ‘IOS Index of Names of Cactaceae published 1950–1990’. This was published by the Royal Botanic Gardens Kew in 1991, and followed by an equivalent list for the ‘other succulents’ in 1994.

After 60 issues conventionally printed, *Repertorium Plantarum Succulentarum* has been made available in digital form in pdf format (‘portable document format’) from issue 61 onwards, as an ‘open access’ publication, accessible over the internet.

Repertorium Plantarum Succulentarum LXIV (2013)

*Index nominum novarum plantarum succulentarum anno MMXIII
editorum nec non bibliographia taxonomica ab U. Egli 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.
- 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 isotypes are said to be deposited (first acronym for holotype), according to the Index Herbariorum database. 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/ICN or ICNCP which have been contravened are indicated in brackets. For names before 2012, the articles cited are those of the ICBN (Vienna Code, 2006), while the ICN (Melbourne Code, 2012) is used for newer names.
- 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 names of one or few new taxa are usually not repeated in the bibliographic section.
- Starting with RPS 61, abbreviations for periodicals are those suggested in Bibliographia Periodicorum Huntianum Ed. 2 (BPH2), or are constructed according to BPH2 guidelines for other periodicals. For some titles where BPH2 has incomplete data, the abbreviations suggested in the ‘Bibliography of Succulent Plant Periodicals’ (U. Eggli in Friciana 60: 1-139, 1998 (‘1995’)) are used.

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Compilers' Preface

As in the previous year, 2013 saw the publication of a very large number of nomenclatural novelties as well as papers concerning aspects of the taxonomy of succulent plants. It appears that the modern possibilities of digital publications add significantly to the volume and pace of the publishing process. Publishing digitally is becoming a comparatively cheap way to bring research results to the general public. Locating and scanning all the newly formed digital journals and other resources has turned out to be increasingly time-consuming. We hope that we have captured the vast majority of the relevant publications and papers, and as usual, we are grateful for being notified about omissions.

As anticipated and shortly discussed in the preface to RPS 62, the dating of publications is becoming a major issue – a rapidly growing majority of journals offers digital pre-publication, sometimes months ahead of the print edition, and this is especially cumbersome when the time period spans more than one calendar year. In addition, the digital pre-publication versions often have their own pagination, differing from the later print version, and this adds additional levels of complexity. Since digital publication is an acceptable option under the ICN, the 'digital' date represents the nomenclatural publication date, and this year is recorded as such in RPS and our database. For the literature references, we try to establish the year of the print issue, and add the digital pre-publication year if it differs from the print year. A further level of complexity is generated by the fact that some journals offer different digital versions of the papers they publish, e.g. by providing an "enhanced version" in addition to the usual PDF or PDF/A version(s). In addition, corrected versions are sometimes available as well. This is no problem as long as corrected versions are clearly labelled as such, but should they simply replace the original versions, the accessed content depends on the date of downloading the material – clearly a most undesirable situation!

Another source of confusion are publications that concurrently appear in different language editions, be they in print or just digital. Examples are the printed "Cactus Aventures International", distributed in French, Spanish and English editions, or the more recent digital journal "Acta Succulenta", which is concurrently published in Italian, French and English editions. We try to address the problems involved with appropriate comments, esp. when pagination differs between the language editions.

Like its predecessors, this RPS has again benefited from the help of several people. Sincere thanks go to Katherine Challis and the IPNI team at Kew, and to Roy Mottram and Eugene Akulov for help provided in nomenclatural questions, and/or for bringing errors or omissions to our attention. Reiner Mailänder, Zürich, has continuously helped with the scanning of numerous "general" biological journals, and Maria Sánchez-Contreras, Dübendorf, has again been of major help to organize the literature references as part of her volunteer work at the Sukkulenten-Sammlung Zürich.

Corrections to previous volumes

- A correction is needed for the "correction" published in RPS 63: 2 regarding *Salmiopuntia salmiana*. As shown in RPS 62, Guiggi published this combination simultaneously with his validation of the generic name, which is usually attributed to Fric in Kreuzinger 1935. In the correction note in RPS 63, the generic name *Salmiopuntia* Fric 1935 was interpreted as a valid *nom. nov. pro Opuntia* ser. *Salmianae* Britton & Rose 1919 under ICN Art. 41.4 (= ICBN Art. 33.3). This is incorrect, however, as this article only applies in cases where no basionym is cited *and* conditions for valid publication of a new name were otherwise fulfilled. This is not the case in the 1935-publication, as no Latin diagnosis is supplied. However, in the meantime P. V. Heath (Calyx 6(2): 41, 1999) validly published *Salmonopuntia* as replacement for ser. *Salmianae*, and this makes *Salmiopuntia* Fric *ex* Guiggi 2011 illegitimate under Art. 52.1, and *Salmiopuntia salmiana* incorrect under Art. 11.4. Roy Mottram has kindly assisted to sort this out.
- *Trichocereus candicans* ssp. *pseudocandicans* Lodé was incorrectly shown as validly published in RPS 63. The name is, however, invalid under ICN Art. 40.6, because contrary to the statement in RPS 63, mis-used type terms cannot be corrected under Art. 9.9 for names published after 1990.
- *Sedum xpascalianum* Gallo was incorrectly shown as 'pascalinum' in RPS 63.
- The infraspecific epithet of *Pilea microphylla* ssp. *domingensis* was inadvertently mis-spelled 'dominguensis'.
- The name *Notocactus spegazzinii* was shown as combination for *Echinocactus spegazzinii* Gürke 1905, but has to be treated as replacement name under Art. 58.1. The correct author citation is therefore *Notocactus spegazzinii* Vích, but the name remains illegitimate (ICN Art. 52.1) under ICN Art. 58.1, Note 1.
- For *Malotigena frantiskae-niderlovae* Niederle, RPS 63 stated that the validity was somewhat doubtful. The author has since (pers. comm., Jan. 2014) confirmed that the holotype is a permanently preserved herbarium specimen that was prepared from a cultivated plant.

NOMINA NOVA

AGAVACEAE

- Agave abisaii** A. Vázquez & Nieves, Syst. Bot. 38(2): 321-323, ills., 2013. Typus: *García-Mendoza & al.* 6414 (MEXU, IBUG).
- Agave andreae** Sahagún & A. Vázquez, Syst. Bot. 38(2): 323-326, ills., 2013. Typus: *Muñiz-Castro & Padilla-Lepe* 862 (IBUG, GUADA, IEB, MEXU, MICH, MO, WIS).
- Agave coetocapnia** (M. Roemer) Govaerts & Thiede, Willdenowia 43(2): 331, 2013. Basionym: *Bravoa coetocapnia*.
- Agave coetocapnia** ssp. **clivicola** (McVaugh) Govaerts & Thiede, Willdenowia 43(2): 332, 2013. Basionym: *Polianthes geminiflora* var. *clivicola*.
- Agave coetocapnia** ssp. **pueblensis** (E. Solano & García-Mendoza) Govaerts & Thiede, Willdenowia 43(2): 332, 2013. Basionym: *Polianthes geminiflora* var. *pueblensis*.
- Agave graclaelae** Galván & Zamudio, Acta Bot. Mex. 105: 2-4, ills., (pp. 3, 6-7), 2013. Typus: *González* 569 (IEB, ENCB, MEXU, XAL).
- Agave graminifolia** (Rose) Govaerts & Thiede, Willdenowia 43(2): 332, 2013. Basionym: *Polianthes graminifolia*.
- Agave jimenoii** Cházaro & A. Vázquez, Phytotaxa 134(1): 55-57, ills., 2013. Typus: *Jimeno & al.* 702 (XAL, IBUG, MEXU).
- Agave kavandivi** García-Mendoza & Chávez-Rendón, Revista Mex. Biodivers. 84: 1071-1072, ills., 2013. Typus: *García-Mendoza & al.* 10184 (MEXU, ENCB, MO, OAX).
- Agave kristenii** A. Vázquez & M. Cházaro, Syst. Bot. 38(2): 326-327, ills., 2013. Typus: *Vázquez-García* 9076 (IBUG, MEXU, MICH, MO, WIS).
- Agave pablocarrilloi** A. Vázquez & al., Syst. Bot. 38(2): 328-329, ills., 2013. Typus: *Vázquez-García & Padilla-Lepe* 9090 (IBUG, MEXU, MO).
- Agave verdensis** W. C. Hodgson & Salywon, Brittonia 65(1): 6-9, ills., 2013. Typus: *Hodgson & Salywon* 25495 (DES, ASC, ASU, MO, NY).
- Agave yavapaiensis** W. C. Hodgson & Salywon, Brittonia 65(1): 10, ills. (pp. 8-9), 2013. Typus: *Hodgson & Salywon* 25496 (DES, ASC, ASU, MO, NY).

Yucca feeanoukiae Hochstätter, Cactus & Co. 17(1): 75, ills. (pp. 72-76), 2013. *Hochstätter* 1186.70 (SRP).

AIZOACEAE

- ×**Cerodon** S. A. Hammer, Mesemb Study Group Bull. 28(2): 33, 2013. [= *Cerochlamys* × *Acrodon*.]
- Conophytum pellucidum* ssp. *sterkstroomensis* G. F. Wagner, Avonia 31(3): 139-144, ills., 2013. *Nom. inval.* (ICN Art. 36.1b). [Published as provisional name.]
- Conophytum smaleorum** Rodgerson & A. J. Young, CactusWorld 31(3): 200, ills. (pp. 198-201), 2013. Typus: *ADH* 4146.2 (NBG).
- Delosperma holzbecherorum** Niederle, Skalnickárv Rok 67: 31, 2013. Typus: *Niederle* s.n. (BRNU).
- Delosperma parentum** Niederle, Skalnickárv Rok 67: 27, 2013. Typus: *Niederle* s.n. (BRNU).
- Delosperma seanii-hoganii** Niederle, Skalnickárv Rok 67: 33, 2013. Typus: *Niederle* s.n. (BRNU).
- ×**Disphyllum** Kapitany, Pl. Var. J. 26(1): 18, 2013. [Additional information in Cact. Succ. J. (Woollahra) 29(1): 1-2, 8-20, 22, ills., 2013.] [= *Disphyma* × *Glottiphyllum*.]
- ×**Disphyllum** ‘Sunburn’ Kapitany, Pl. Var. J. 26(1): 18, 2013. [= *Disphyma crassifolium* ssp. *clavellatum* × *Glottiphyllum longum*. Additional information in Cact. Succ. J. (Woollahra) 29(1): 1-2, 8-20, 22, 2013.]
- Ectotropis seanii-hoganii** (Niederle) H. E. K. Hartmann & C. Schröder, Bradleya 31: 137, ills. (p. 136), 2013. Basionym: *Delosperma seanii-hoganii*.
- Ihlenfeldtia excavata** var. **vanbredae** (L. Bolus) S. A. Hammer, Mesembs Titanopsis Group, 75, ills. (pp. 75-77), 2013. Basionym: *Cheiridopsis vanbredae*. [Sphalm. ‘vanbredai’.]
- Knersia** H. E. K. Hartmann & Liede, Bradleya 31: 126, 2013. Typus: *Drosanthemum diversifolium* L. Bolus.

- Knersia diversifolia** (L. Bolus) H. E. K. Hartmann & Liede, *Bradleya* 31: 126, 2013. Basionym: *Drosanthemum diversifolium*.
- Mesembryanthemum** Sect. **Brownanthus** (Schwantes) Klak, *Bothalia* 43(2): 202, 2013. Basionym: *Brownanthus*.
- Mesembryanthemum** Sect. **Callistigma** (Dinter & Schwantes) Klak, *Bothalia* 43(2): 201, 2013. Basionym: *Callistigma*.
- Mesembryanthemum** Sect. **Eurystigma** (L. Bolus) Klak, *Bothalia* 43(2): 202, 2013. Basionym: *Eurystigma*.
- Mesembryanthemum** Subgen. **Phyllobolus** (N. E. Brown) Klak, *Bothalia* 43(2): 203, 2013. Basionym: *Phyllobolus*.
- Mesembryanthemum** Subgen. **Volkeranthus** (Gerbaulet) Klak, *Bothalia* 43(2): 206, 2013. Basionym: *Volkeranthus*.
- Titanopsis primosii** L. Bolus ex S. A. Hammer, *Mesembryanthemum* Group, 143, ills. (pp. 144-150), 2013. Typus: *Primos* s.n. in *NBG* 1971/30 (BOL).
- Trichodiadema** Subgen. **Gemiclausia** H. E. K. Hartmann & Niesler, *Bradleya* 31: 71-72, 2013. Typus: *Trichodiadema occidentale* L. Bolus.

ANACAMPSEROTACEAE

- Anacampseros harveyi** (J. van Thiel & Lavranos) Dreher, *Avonia* 31(3): 121, 2013. Basionym: *Avonia harveyi*.

APOCYNACEAE

- Angolluma kulalensis** Plowes, *CactusWorld* 31(3): 210-211, ills., 2013. Typus: *Newton* 4148B in *Plowes* 9636 (SRGH).
- Angolluma parviloba** (Bruyns) Plowes, *Asklepios* 116: 7, ills., 2013. Basionym: *Orbea wissmannii* var. *parviloba*.
- Angolluma sheilae** (Plowes) Plowes, *Asklepios* 116: 8, ills. (p. 9), 2013. Basionym: *Angolluma commutata* ssp. *sheilae*.
- Angolluma somalensis** (Bruyns) Plowes, *Asklepios* 116: 10, ills., 2013. Basionym: *Orbea baldratii* ssp. *somalensis*.

- Apteranthes faucicola** (Bruyns) Plowes, *Asklepios* 116: 12, 2013. Basionym: *Caralluma faucicola*.
- Ballyanthus major** Plowes, *CactusWorld* 31(4): 291, ills. (p. 288), 2013. Typus: *Lawrie* s.n. in *Plowes* 3020 (SRGH).
- Brachystelma nallamalayanum** K. Prasad & B. R. P. Rao, *J. Threat. Taxa* 5(14): 4904-4906, ills., 2013. Typus: *Rao & Prasad* s.n. (SKU 34667, BSID). [Sphalm. 'nallamalayana'.]
- Brachystelma penchalakonense** Rasingam & al., *Kew Bull.* 68(4): 663-666, ills., 2013. Typus: *Rasingam & al.* 2923 (CAL, BSID).
- Caralluma carinata** (Gravely & Mayuranathan) Plowes, *Asklepios* 116: 15, ills., 2013. Basionym: *Caralluma adscendens* var. *carinata*.
- Caralluma gracilis* (Gravely & Mayuranathan) Plowes, *Asklepios* 116: 16, 18, ills., 2013. *Nom. illeg.* (ICN Art. 53.1), based on *Caralluma adscendens* var. *gracilis*. [Non *Caralluma gracilis* C. A. Lückhoff 1938.]
- Caudanthera baradii** (Lavranos & L. E. Newton) Plowes, *Cact. Succ. J.* (Los Angeles) 85(2): 70, ills., 2013. Basionym: *Caralluma sinaica* var. *baradii*.
- Ceropegia karulensis** Puneekar & al., *Nelumbo* 55(1-5): 17, 2013. Typus: *Puneekar* 365 (CAL, AHMA). [Cited from IPNI (accessed Aug. 2014).]
- Ceropegia maharashtrensis** Puneekar & al., *Nelumbo* 55(1-5): 22, 2013. Typus: *Puneekar & Raut* 357 (CAL, AHMA). [Cited from IPNI (accessed Aug. 2014).]
- Ceropegia manoharii** Sujanalpal & al., *J. Bot. Res. Inst. Texas* 7(1): 342, 2013. Typus: *Sujanapal & Salim* MSSH-0403 (MH, CALI, KFRI, MSSH). [Cited from IPNI (accessed Aug. 2014).]
- Crenulluma tardellii** (Mosti & Raffaelli) Plowes, *Asklepios* 116: 20, ills., 2013. Basionym: *Desmidorchis tardellii*.
- Duvalia sulcata** ssp. *sudanensis* Plowes, *Asklepios* 116: 20-21, ills., 2013. Typus: *Plowes* 7552 (SRGH).
- Echidnopsis dhofarensis** (Bruyns) Plowes, *Asklepios* 116: 21, ills. (p. 22), 2013. Basionym: *Echidnopsis scutellata* ssp. *dhofarensis*.
- Echidnopsis kohaitoensis** Plowes, *CactusWorld* 31(3): 214, ills. (pp. 213-215), 2013. Typus: *Plowes* 8283 (SRGH).

- Hoya acanthominima** Kloppenburg & al., Hoya New 1(1): 22-27, ills., 2013. Typus: *Mendoza* & al. 50 (PUH 14648).
- Hoya albida** Kloppenburg & al., Hoya New 1(3): 3-6, ills., 2013. Typus: *Anonymus* s.n. in *CAHUP* 71808 (CAHUP). [First published invalidly (ICN Art. 30.2, Note 1) in *Fraterna* e-publication, 1-5, ills., 2012 (see RPS 63).]
- Hoya apoensis** ssp. *sagittaria* Kloppenburg & al., Hoya New 1(2): 3-8, ills., 2013. Typus: *Ferrerias* 737 (CAHUP 71722).
- Hoya auriguaeana** Kloppenburg & al., J. Nat. Stud. 11(1-2): 36, figs. 1-2 (p. 35, 37), 2013. Typus: *Anonymus* s.n. (CAHUP 71848). [Dated 2012, e-published 30. 1. 2013 fide IPNI.]
- Hoya bebsguevarrae** Kloppenburg & Carandang, Hoya New 1(4): 3-9, ills., 2013. Typus: *Guevarra* & *Carandang* s.n. (CAHUP 71846).
- Hoya beccarii** Rodda & Simonsson, *Webbia* 68(1): 13-14, ills. (p. 8), 2013. Typus: *Bec-cari* 1866 (FI, FI).
- Hoya benstoneana** Kloppenburg & al., J. Nat. Stud. 11(1-2): 36-38, figs. 3-4 (p. 38-39), 2013. Typus: *Anonymus* s.n. (CAHUP 71849). [Dated 2012, e-published 30. 1. 2013 fide IPNI.]
- Hoya bicoloris** Kloppenburg & al., J. Nat. Stud. 11(1-2): 39-42, figs. 5-6, 2013. Typus: *JP* 1994 (UC). [Dated 2012, e-published 30. 1. 2013 fide IPNI. First published invalidly (ICN Art. 30.2, Note 1) in *Fraterna* e-publication, 5 pp., 2012.]
- Hoya bifunda** Kloppenburg & al., Hoya New 1(3): 7-16, ills., 2013. Typus: *Cajano* & *Maranan* s.n. (CAHUP 71844). [The illustration of the holotype herbarium specimen shows that the material is labelled *H. bifunda* ssp. *integra*, and a mix-up with the material of that taxon appears to have occurred.]
- Hoya bifunda** ssp. *integra* Kloppenburg & al., Hoya New 1(3): 17-25, ills., 2013. Typus: *Cajano* & *Maranan* s.n. (CAHUP 71857). [The illustration of the holotype herbarium specimen shows that the material is labelled *H. bifunda*, and a mix-up with the material of that taxon appears to have occurred.]
- Hoya butleriana** Kloppenburg & al., *Asklepios* 115: 15-18, ills., 2013. Typus: *Anonymus* s.n. in *CAHUP* 71851 (CAHUP).
- Hoya celata** Kloppenburg & al., *Asklepios* 116: 42-44, ills., 2013. Typus: *Mendoza* s.n. in *CAHUP* 71810 (CAHUP). [First published invalidly (ICN Art. 30.2, Note 1, cf. RPS 63) in *Fraterna* e-publication, 1-10, ills., 2012.]
- Hoya celsa** Kloppenburg & al., Hoya New 1(4): 10-16, ills., 2013. Typus: *Anonymus* s.n. in *CAHUP* 71840 (CAHUP).
- Hoya chiekoae** Kloppenburg & al., Hoya New 1(4): 17-24, ills., 2013. Typus: *Ferrerias* 901 (PHU). [First published invalidly (ICN Art. 30.2, Note 1) in *Fraterna* e-publication, 1-7, ills., 2012 (cf. RPS 63).]
- Hoya coriacea** ssp. *philippinensis* Kloppenburg & al., Hoya New 1(4): 44-50, ills., 2013. Typus: *Ferrerias* 755 (CAHUP).
- Hoya corymbosa** Rodda & Simonsson, *Syst. Bot.* 38(4): 1126-1129, ills., 2013. Typus: *Gokusing* & al. A11803/2009 (SAN).
- Hoya cupula** Kloppenburg & al., Hoya New 1(1): 15-21, ills., 2013. Typus: *Mendoza* 56 (PUH 14646).
- Hoya cutis-porcelana** W. Suarez & al., J. Nat. Stud. 12(1): 13-15, ills., 2013. Typus: *Suarez* s.n. in *PNRI* H.233.WMS (PNH 254882). [Epithet arguably correctable to 'cutis-porcellana' (ultimately derived from old Ital. 'porcellana', porcelain).]
- Hoya davaoensis** Kloppenburg, Hoya New 1(2): 9-12, ills., 2013. Typus: *Ramos* & *Edano* s.n. (UC 49272, B).
- Hoya eburnea** Kloppenburg & al., Hoya New 1(3): 26-32, ills., 2013. Typus: *Guevarra* & *Carandang* s.n. (CAHUP 71859). [Number of the type specimen erroneously given as '71849' in the text (cf. ill. p. 32).]
- Hoya gelba** Kloppenburg & al., Hoya New 1(3): 33-38, ills., 2013. Typus: *Purificación* s.n. (CAHUP 71858).
- Hoya lambioae** Kloppenburg & al., *Fraterna* [e-publication], 7 pp., ills., 2013. Typus: *Lambio* s.n. (CAHUP 71847). [Doubtfully valid under ICN Art. 29.1 (esp. Note 1) because only the ISSN is cited, but no journal title. Publication date according to the metadata of the pdf file.]
- Hoya marvinii** Kloppenburg & al., Hoya New 1(1): 3-8, ills., 2013. Typus: *Mendoza* 37 (PUH 14652).
- Hoya myrmecopa** ssp. *kapatalanensis* Kloppenburg & al., Hoya New 1(4): 51-54, ills., 2013. Typus: *Siar* & *Cajano* 5997 (CAHUP).

- Hoya nakarensis** Kloppenburg & al., Hoya New 1(1): 34-40, ills., 2013. Typus: *Mendoza & al.* 70 (PUH 14620).
- Hoya nutfiana** Rodda & Simonsson, Phytotaxa 140(1): 56-59, ills., 2013. Typus: *Haviland & Hose* 8530 (K).
- Hoya persicina** Kloppenburg & al., J. Nat. Stud. 11(1-2): 42-43, fig. 7, 2013. Typus: *Anonymus* s.n. (CAHUP 71850). [Dated 2012, e-published 30. 1. 2013 fide IPNI.]
- Hoya persicina** ssp. *rosea* Kloppenburg & al., J. Nat. Stud. 12(1): 25-28, ills., 2013. Typus: *Mendoza* 48 (PUH 14623).
- Hoya polilloensis** Kloppenburg & al., J. Nat. Stud. 12(1): 19-21, ills., 2013. Typus: *Mendoza* 35 (PUH 14651).
- Hoya pseudoleyntensis** Kloppenburg & al., Hoya New 1(4): 55-61, ills., 2013. Typus: *Mendoza & al.* s.n. (CAHUP 71860).
- Hoya pubicorolla** Kloppenburg & al., Hoya New 1(2): 13-19, ills., 2013. Typus: *Edano* 3235 (PNH).
- Hoya pubicorolla** ssp. *anthracina* Kloppenburg & al., Hoya New 1(2): 20-23, ills., 2013. Typus: *Anonymus* s.n. (PUH 14597).
- Hoya rundumensis** (T. Green) Rodda & Simonsson, Webbia 68(1): 13, 2013. Basionym: *Hoya plicata* ssp. *rundumensis*.
- Hoya salmonea** Kloppenburg & al., J. Nat. Stud. 12(1): 22-24, ills., 2013. Typus: *Mendoza* 40 (PUH 14622).
- Hoya salmonea** ssp. *pallida* Kloppenburg & al., Hoya New 1(1): 28-33, ills., 2013. Typus: *Mendoza & al.* 64 (PUH 14649).
- Hoya santiagoi** ssp. *mandozae* Kloppenburg, Hoya New 1(3): 39-42, ills., 2013. Typus: *Mendoza* s.n. (PNH 97825). [Sphalm. 'mandozai'.]
- Hoya soidaensis** Kidyoo, Phytotaxa 105(2): 45-46, ills. (pp. 47-48), 2013. Typus: *Kidyoo* 1526 (BCU, BKF).
- Hoya taytayensis** Kloppenburg & Siar, Hoya New 1(2): 28-30, ills., 2013. Typus: *Merrill* 9385 (BO).
- Hoya tiatullaensis** Kloppenburg, Hoya New 1(2): 25-27, ills., 2013. Typus: *Whistler* 9089 (HAW).
- Hoya unica** Kloppenburg & al., Hoya New 1(1): 9-14, ills., 2013. Typus: *Mendoza* 49 (PUH 14621).
- Hoya unruhiana** Kloppenburg & al., Hoya New 1(4): 25-33, ills., 2013. Typus: *Anonymus* s.n. in *CAHUP* 71807 (CAHUP) [The specimen designated as holotype is labelled as "isotype" on the specimen label illustrated in the protologue.]. [First published invalidly (ICN Art. 30.2, Note 1) in *Fraterna* e-publication, 1-8, ills., 2012 (cf. RPS 63).]
- Hoya valmayoriana** Kloppenburg & al., J. Nat. Stud. 11(1-2): 43-45, figs. 9-10, 2013. Typus: *Cumming* 1622 (CAHUP 71809). [Dated 2012, e-published 30. 1. 2013 fide IPNI.]
- Hoya vicencioana** Kloppenburg & al., J. Nat. Stud. 11(1-2): 46-47, figs. 11-12, 2013. Typus: *Anonymus* s.n. (CAHUP 71842). [Dated 2012, e-published 30. 1. 2013 fide IPNI.]
- Hoya williamsiana** Kloppenburg & al., Hoya New 1(4): 34-43, ills., 2013. Typus: *Cajano & Maranan* s.n. (CAHUP 71852).
- Huernia cashelensis** (L. C. Leach & Plowes) Plowes, *Asklepios* 116: 23, ills., 2013. Basionym: *Huernia longituba* ssp. *cashelensis*.
- Hutchinia crenulata** (Wallich) Plowes, *CactusWorld* 31(2): 102, ills. (p. 101), 2013. Basionym: *Caralluma crenulata*.
- Hutchinia nilagiriana** (Kumari & Subba Rao) Plowes, *CactusWorld* 31(2): 102, 2013. Basionym: *Caralluma nilagiriana*.
- Hutchinia pauciflora** (Wight) Plowes, *CactusWorld* 31(2): 102, ills. (pp. 101-102), 2013. Basionym: *Boucerosia pauciflora*.
- Hutchinia truncatocoronata** (Sedgwick) Plowes, *CactusWorld* 31(2): 102, ills., 2013. Basionym: *Boucerosia truncatocoronata*. [Sphalm. 'truncato-coronata'.]
- Orbea kaokoensis** (Bruyns) Plowes, *Bradleya* 31: 162, ill. (p. 161), 2013. Basionym: *Orbea maculata* ssp. *kaokoensis*.
- Orbea orientalis** (Bruyns) Plowes, *Bradleya* 31: 162, ill. (p. 161), 2013. Basionym: *Orbea semota* ssp. *orientalis*.
- Orbea verrucosa** ssp. *fuscata* (N. E. Brown) Plowes, *Bradleya* 31: 162, ill. (p. 163), 2013. Basionym: *Stapelia fuscata*.
- Pendulluma** Plowes, *CactusWorld* 31(2): 103, 2013. Typus: *Caralluma procumbens* Gravelly & Mayuranathan.
- Pendulluma procumbens** (Gravelly & Mayuranathan) Plowes, *CactusWorld* 31(2): 104, ills. (pp. 103-104), 2013. Basionym: *Caralluma procumbens*.
- Petopentia undulata** Venter & A. M. Venter, *S. African J. Bot.* 88: 429, ills. (pp. 430-431), 2013. Typus: *Venter* 10767 (BLFU, PRE).

Sulcolluma ericamccoyleae T. A. McCoy, Cact. Succ. J. (Los Angeles) 85(2): 61-62, ill. (pp. 60-63), 2013. Typus: *McCoy* 3941 (FT).

ASPHODELACEAE

- Aloe Sect. Chortolirion** (A. Berger) Boatwright & J. C. Manning, Taxon 62(1): 74, 2013. Basionym: *Chortolirion*.
- Aloe aestivalis* Boatwright & J. C. Manning, Taxon 62(1): 75, 2013. Based on *Fritz* 1025. *Nom. illeg.* (ICN Art. 52.1). [*Nom. nov. pro Chortolirion latifolium* Zonneveld & G. Fritz 2010 (*non Aloe latifolia* Haworth 1812). Predated by *Aloe jeppeae* Klopper & G. F. Smith (7. 1. 2013) (see G. D. Rowley, *Alsterworthia* Int. Special Issue 10: 4, 2013, and Manning & al., *Syst. Bot.* 39: 68, 2014).]
- Aloe barbara-jeppeae** T. A. McCoy & Lavranos, Cact. Succ. J. (Los Angeles) 85(4): 156-158, ill. (pp. 154, 157, 159), 2013. Typus: *Lavranos* 26380 (FT).
- Aloe barendii** Klopper & G. F. Smith, Phytotaxa 76(1): 12, 2013. Typus: *Marloth* 1049 (B, PRE). [*Nom. nov. pro Haworthia tenuifolia* Engler 1889. The name is available and legitimate at the place of publication, but if *Chortolirion bergerianum* Dinter 1914 is treated as synonym at the rank of species, that epithet has priority (see J. C. Manning & al., *Syst. Bot.* 39: 68, 2014).]
- Aloe conifera** ssp. **pervagata** J.-B. Castillon, *CactusWorld* 31(1): 45-46, ill., 2013. Typus: *Reynolds* 7692 (P).
- Aloe delicatifolia** J.-B. Castillon, *CactusWorld* 31(4): 260, ill. (pp. 259-261), 2013. Typus: *Castillon* 58 (TAN, TAN).
- Aloe fievetii** ssp. **johannis-baptistei** J.-B. Castillon, *CactusWorld* 31(1): 47-48, ill., 2013. Typus: *Castillon* 56 (TAN).
- Aloe granitcola** Rebmann, Cact. Succ. 5(2): 55-57, ill., 2013. Typus: *Rebmann* 24 (BR).
- Aloe jeppeae** Klopper & G. F. Smith, *Phytotaxa* 76(1): 12, 2013. Typus: *Fritz* 1025 (PRE). [*Nom. nov. pro Chortolirion latifolium* Zonneveld & Fritz 2010 (*non A. latifolia* Haworth 1812).]
- Aloe subspicata** (Baker) Boatwright & J. C. Manning, *Taxon* 62(1): 75, 2013. Basionym: *Haworthia subspicata*.
- Aloe tenuifolia* (Engler) Boatwright & J. C. Manning, *Taxon* 62(1): 75, 2013. *Nom. illeg.* (ICN Art. 53.1), based on *Haworthia tenuifolia*. [*Non Aloe tenuifolia* Lamarck 1783. The valid name for this taxon is *Aloe barendii* Klopper & G. F. Smith 2013.]
- Aloe welwitschii** Klopper & G. F. Smith, *Phytotaxa* 76(1): 12, 2013. Typus: *Welwitsch* 3756 (BM). [*Nom. nov. pro Haworthia angolensis* Baker 1878. Treated as illegitimate under ICN Art. 52.1 vs. *Aloe subspicata* (Baker) Boatwright & J. C. Manning by G. D. Rowley, *Alsterworthia* Int. Special Issue 10: 4, 2013, but this is erroneous since the combining authors treat *H. angolensis* and *H. subspicata* as different taxa.]
- Aloiampelos** Klopper & G. F. Smith, *Phytotaxa* 76(1): 10, 2013. Typus: *Aloe ciliaris* Haworth.
- Aloiampelos ciliaris** (Haworth) Klopper & G. F. Smith, *Phytotaxa* 76(1): 10, 2013. Basionym: *Aloe ciliaris*.
- Aloiampelos ciliaris** var. **redacta** (S. Carter) Klopper & G. F. Smith, *Phytotaxa* 76(1): 10, 2013. Basionym: *Aloe ciliaris* var. **redacta**.
- Aloiampelos ciliaris** var. **tidmarshii** (Schönland) Klopper & G. F. Smith, *Phytotaxa* 76(1): 10, 2013. Basionym: *Aloe ciliaris* var. **tidmarshii**.
- Aloiampelos commixta** (A. Berger) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe commixta*.
- Aloiampelos decumbens** (Reynolds) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe gracilis* var. **decumbens**.
- Aloiampelos gracilis** (Haworth) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe gracilis*.
- Aloiampelos juddii** (van Jaarsveld) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe juddii*.
- Aloiampelos striatula** (Haworth) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe striatula*.
- Aloiampelos striatula** var. **caesia** (Reynolds) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe striatula* var. **caesia**.
- Aloiampelos tenuior** (Haworth) Klopper & G. F. Smith, *Phytotaxa* 76(1): 11, 2013. Basionym: *Aloe tenuior*.

- Aloidendron** (A. Berger) Klopper & G. F. Smith, *Phytotaxa* 76(1): 9, 2013. Basionym: *Aloe* Sect. *Aloidendron*.
- Aloidendron barberae** (Dyer) Klopper & G. F. Smith, *Phytotaxa* 76(1): 9, 2013. Basionym: *Aloe barberae*.
- Aloidendron dichotomum** (Masson) Klopper & G. F. Smith, *Phytotaxa* 76(1): 9, 2013. Basionym: *Aloe dichotoma*.
- Aloidendron eminens** (Reynolds & P. R. O. Bally) Klopper & G. F. Smith, *Phytotaxa* 76(1): 9, 2013. Basionym: *Aloe eminens*.
- Aloidendron pillansii** (L. Guthrie) Klopper & G. F. Smith, *Phytotaxa* 76(1): 9, 2013. Basionym: *Aloe pillansii*.
- Aloidendron ramosissimum** (Pillans) Klopper & G. F. Smith, *Phytotaxa* 76(1): 9, 2013. Basionym: *Aloe ramosissima*.
- Aloidendron tongaense** (van Jaarsveld) Klopper & G. F. Smith, *Phytotaxa* 76(1): 10, 2013. Basionym: *Aloe tongaensis*.
- Haworthiopsis attenuata* (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. *Nom. inval.* (ICN Art. 41.8a), based on *Aloe attenuata*. [The place cited for the basionym is a later publication with a reference to the actual place of valid publication (fide IPNI; accessed Aug. 2014).]
- Haworthiopsis attenuata* var. *glabrata* (Salm-Dyck) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. *Nom. inval.* (ICN Art. 35.1), based on *Aloe glabrata*.
- Haworthiopsis attenuata* var. *radula* (Jacquin) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. *Nom. inval.* (ICN Art. 35.1), based on *Aloe radula*.
- Haworthiopsis bruynsii** (M. B. Bayer) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia bruynsii*.
- Haworthiopsis coarctata** (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia coarctata*.
- Haworthiopsis coarctata** var. *adelaidensis* (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia reinwardtii* var. *adelaidensis*. [Basionym erroneously given as *H. coarctata* var. *adelaidensis*, but with the correct page reference.]
- Haworthiopsis coarctata** var. *tenuis* (G. G. Smith) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia reinwardtii* var. *tenuis*.
- Haworthiopsis fasciata** (Willdenow) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Apicra fasciata*.
- Haworthiopsis glauca** (Baker) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia glauca*.
- Haworthiopsis glauca** var. *herrei* (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia herrei*.
- Haworthiopsis granulata** (Marloth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia granulata*. [First proposed simultaneously with *Haworthiopsis venosa* var. *granulata* (Marloth) G. D. Rowley (both based on the same basionym) in *Alsterworthia* Int. Spec. Issue 10: 4, 2013.]
- Haworthiopsis limifolia** (Marloth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia limifolia*.
- Haworthiopsis limifolia** var. *arcana* (G. F. Smith & N. Crouch) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4, 2013. Basionym: *Haworthia limifolia* var. *arcana*.
- Haworthiopsis limifolia** var. *gigantea* (M. B. Bayer) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 4-5, 2013. Basionym: *Haworthia limifolia* var. *gigantea*.
- Haworthiopsis limifolia** var. *glaucophylla* (M. B. Bayer) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia limifolia* var. *glaucophylla*.
- Haworthiopsis limifolia** var. *ubomboensis* (I. Verdoorn) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia ubomboensis*.
- Haworthiopsis longiana** (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia longiana*.
- Haworthiopsis nigra** (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Apicra nigra*.
- Haworthiopsis nigra** var. *diversifolia* (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia diversifolia*.
- Haworthiopsis nigra** var. *elongata* (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia schmidtiana* var. *elongata*.
- Haworthiopsis reinwardtii** (Salm-Dyck) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Aloe reinwardtii*.

- Haworthiopsis reinwardtii** var. **brevicula** (G. G. Smith) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia reinwardtii* var. *brevicula*.
- Haworthiopsis scabra** (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia scabra*.
- Haworthiopsis scabra** var. **lateganiae** (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia lateganiae*.
- Haworthiopsis scabra** var. **morrisiae** (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia morrisiae*.
- Haworthiopsis scabra** var. **starkiana** (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia starkiana*.
- Haworthiopsis sordida** (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia sordida*.
- Haworthiopsis sordida** var. **lavrani** (C. L. Scott) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia sordida* var. *lavrani*.
- Haworthiopsis venosa** (Lamarck) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Aloe venosa*.
- Haworthiopsis venosa* var. **granulata** (Marloth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. *Nom. inval.* (ICN Art. 36.2), based on *Haworthia granulata*. [Proposed simultaneously with *Haworthiopsis granulata* (Marloth) G. D. Rowley, and based on the same basionym.]
- Haworthiopsis viscosa* (Linné) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. *Nom. inval.* (ICN Art. 36.2), based on *Aloe viscosa*. [Proposed simultaneously (and repeated in *Alsterworthia* Int. 13(2): 26, 2013) with *Tulista viscosa* (Linné) G. D. Rowley, and based on the same basionym.]
- Haworthiopsis woolleyi** (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia woolleyi*.
- Kumara plicatilis** (Linné) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 3, 2013. Basionym: *Aloe disticha* var. *plicatilis*. [Dated April 2013. Repeated by Klopper & al. in *Phytotaxa* 115(2): 59-60, July 2013, and also by G. D. Rowley in *Alsterworthia* Int. 13(2): 24, 2013.]
- Tulista aristata** (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Aloe aristata*. [Repeated, together with numerous further combinations, in *Alsterworthia* Int. 13(2): 26, 2013.]
- Tulista** × **bicarinata** (Haworth) G. D. Rowley, *Alsterworthia* Int. 13(2): 26, 2013. Basionym: *Apicra bicarinata*.
- Tulista bullulata** (Jacquin) G. D. Rowley, *Alsterworthia* Int. 13(2): 26, 2013. Basionym: *Aloe bullulata*.
- Tulista congesta** (Salm-Dyck) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Aloe congesta*.
- Tulista corrugata** (N. L. Meyer & G. F. Smith) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Astroloba corrugata*.
- Tulista foliolosa** (Haworth) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Aloe foliolosa*.
- Tulista herrei** (Uitewaal) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Astroloba herrei*.
- Tulista kingiana** (von Poellnitz) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5, 2013. Basionym: *Haworthia kingiana*.
- Tulista koelmaniorum** (Obermeyer & D. S. Hardy) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 5-6, 2013. Basionym: *Haworthia koelmaniorum*.
- Tulista koelmaniorum** var. **mcmurtryi** (C. L. Scott) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. Basionym: *Haworthia mcmurtryi*.
- Tulista marginata** (Lamarck) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. Basionym: *Aloe marginata*.
- Tulista pumila** (Linné) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. Basionym: *Aloe pumila*.
- Tulista pungens** (M. B. Bayer) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. Basionym: *Haworthia pungens*.
- Tulista rubriflora** (L. Bolus) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. Basionym: *Apicra rubriflora*.
- Tulista spiralis** (Linné) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. Basionym: *Aloe spiralis*.
- Tulista viscosa* (Linné) G. D. Rowley, *Alsterworthia* Int. Spec. Issue 10: 6, 2013. *Nom. inval.* (ICN Art. 36.2), based on *Aloe visco-*

sa. [Proposed simultaneously (and repeated in *Alsterworthia* Int. 13(2): 26, 2013) with *Haworthiopsis viscosa* (Linné) G. D. Rowley, and based on the same basionym.]

ASTERACEAE

- Caputia oribensis** (van Jaarsveld) J. C. Manning, *Bothalia* 43(1): 93, 2013. Basionym: *Senecio oribensis*.
- Curio pondoensis** (van Jaarsveld & A. E. van Wyk) J. C. Manning, *Bothalia* 43(1): 93, 2013. Basionym: *Senecio pondoensis*.

BEGONIACEAE

- Begonia pachypoda** L. Kollmann & Peixoto, *Candollea* 68(1): 94-95, ill., 2013. Typus: *Kollmann & al.* 11670 (MBML, P, RB, US).

CACTACEAE

- Acanthocalycium thionanthum** ssp. **glaucum** (F. Ritter) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 2, 2013. Basionym: *Acanthocalycium glaucum*.
- Acanthocereus castellae** (Sánchez-Mejorada) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 2, 2013. Basionym: *Peniocereus castellae*.
- Acanthocereus cuixmalensis** (Sánchez-Mejorada) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 2, 2013. Basionym: *Peniocereus cuixmalensis*.
- Acanthocereus fosterianus** (Cutak) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 2, 2013. Basionym: *Peniocereus fosterianus*.
- Acanthocereus hirschtianus** (K. Schumann) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 2, 2013. Basionym: *Cereus hirschtianus*.
- Acanthocereus macdougallii** (Cutak) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 2, 2013. Basionym: *Peniocereus macdougallii*.
- Acanthocereus marnierianus** (Backeberg) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. *Nom. inval.*, based on *Peniocereus marnierianus*, *nom. inval.* (Art. 37.1).

- Acanthocereus rosei** (J. G. Ortega) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. Basionym: *Peniocereus rosei*.
- Acanthocereus tepalcatepecanus** (Sánchez-Mejorada) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. Basionym: *Peniocereus tepalcatepecanus*.
- Aztekium valdezii** Velazco & al., *Xerophilia Special Issue* 2: 5-8, ill., 2013. Typus: *Valdéz Marroquín & al.* 1 (UNL, ANSM, MEXU).
- Borzicactus crassiserpens** (Rauh & Backeberg *pro sp.*) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. Basionym: *Cleistocactus xcrassiserpens*.
- Borzicactus hoxeyi** G. Charles, *Bradleya* 31: 27, ill. (pp. 25-26, 28-30), 2013. Typus: *Hoxey & Loayza* 970.06 (HUSA).
- ×**Cerenocereus** G. Gutte, *Berliner Kakt.-Blätt.* 13: 7, 9, 2013. [Arguably to be treated as invalid under ICN Art. 36.1b.] [= *Cereus* × *Stenocereus*.]
- ×**Cerenocereus bonariensis** G. Gutte, *Berliner Kakt.-Blätt.* 13: 7, 9, ill. (pp. 10-11), 2013. *Nom. inval.* (ICN Art. 39.2, 40.1). [= *Cereus repandus* × *Stenocereus griseus*.]
- Cylindropuntia acanthocarpa** ssp. **thornberi** (Thornber & Bonker) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. Basionym: *Opuntia thornberi*.
- Echinocereus dasyacanthus** ssp. **ctenoides** (Engelmann) Lodé, *Cact.-Avent.* Int. 100: 29, 2013. Basionym: *Cereus ctenoides*.
- Echinopsis aurea** ssp. **albiflora** (Rausch) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. Basionym: *Lobivia aurea* var. *albiflora*.
- Echinopsis aurea** ssp. **dobeana** (Backeberg) Lodé, *Cact.-Avent.* Int. 98 (Suppl.): 3, 2013. Basionym: *Lobivia dobeana*.
- Echinopsis balansae** (K. Schumann) Anceschi & Magli, *Cactusinhabitat South America* 2011/2013 37, 2013. Basionym: *Cereus balansae*.
- Echinopsis baumannii** (Lemaire) Anceschi & Magli, *Cactusinhabitat South America* 2011/2013 37, 2013. Basionym: *Cereus baumannii*.
- Echinopsis buchtienii** (Backeberg) Anceschi & Magli, *Cactusinhabitat South America* 2011/2013 37, 2013. Basionym: *Cleistocactus buchtienii*.

- Echinopsis callochrysea** (F. Ritter) Lodé, Cact.-Avent. Int. 98 (Suppl.): 4, 2013. Basionym: *Hymenorebutia aurea* var. *callochrysea*.
- Echinopsis candelilla** (Cárdenas) Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Basionym: *Cleistocactus candelilla*.
- Echinopsis celsiana** (Salm-Dyck) Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Basionym: *Pilocereus celsianus*.
- Echinopsis guentheri** (Kupper) Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Basionym: *Cephalocereus guentheri*.
- Echinopsis horstii** (P. J. Braun) Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Basionym: *Cleistocactus horstii*.
- Echinopsis kieslingii** (Rausch) Anceschi & Magli, Cactusinhabitat South America 2011/2013 40, 2013. Basionym: *Lobivia kieslingii*.
- Echinopsis leucotricha** (Philippi) Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Basionym: *Echinocactus leucotrichus*.
- Echinopsis nothochilensis** Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Typus: Ritter s.n. (U). [*Nom. nov. pro Haageocereus chilensis* F. Ritter ex D. R. Hunt 2005 (non *Echinopsis chiloensis* (Colla) H. Friedrich & G. D. Rowley 1974).]
- Echinopsis nothohyalacantha** Anceschi & Magli, Cactusinhabitat South America 2011/2013 38, 2013. Typus: Kuntze s.n. (B †). [*Nom. nov. pro Cereus hyalacanthus* K. Schumann 1897 (non *Echinopsis hyalacantha* (Spegazzini) Werdermann 1931).]
- Echinopsis nothostrausii* Anceschi & Magli, Cactusinhabitat South America 2011/2013 39, 2013. Based on *Anonymus* (Fiebrig) s.n.. *Nom. illeg.* (ICN Art. 52.1). [*Nom. nov. pro Pilocereus strausii* Heese 1907, but illegitimate since the contending name *Echinopsis strausii* Graessner 1937 is invalid under ICN Art. 38.1a.]
- Echinopsis parviflora** (K. Schumann) Anceschi & Magli, Cactusinhabitat South America 2011/2013 39, 2013. Basionym: *Cereus parviflorus*.
- Echinopsis platinospina** (Werdermann & Backeberg) Anceschi & Magli, Cactusinhabitat South America 2011/2013 39, 2013. Basionym: *Cereus platinospinus*.
- Echinopsis pomanensis** (F. A. C. Weber ex K. Schumann) Anceschi & Magli, Cactusinhabitat South America 2011/2013 39, 2013. Basionym: *Cereus pomanensis*.
- Echinopsis pseudomelanostele** (Werdermann & Backeberg) Anceschi & Magli, Cactusinhabitat South America 2011/2013 39, 2013. Basionym: *Cereus pseudomelanostele*.
- Echinopsis samaipatana** (Cárdenas) Anceschi & Magli, Cactusinhabitat South America 2011/2013 39, 2013. Basionym: *Bolivocereus samaipatanus*.
- Echinopsis santacruzensis** (Backeberg) Anceschi & Magli, Cactusinhabitat South America 2011/2013 40, 2013. Basionym: *Cleistocactus santacruzensis*.
- Echinopsis tephraacantha** (Labouret) Anceschi & Magli, Cactusinhabitat South America 2011/2013 40, 2013. Basionym: *Cereus tetraacanthus*. [Sphalm. 'tetraacantha. The spelling of the epithet is in dispute (cf. D. R. Hunt, *Bradleya* 5: 92-93, 1987). It is given as 'tetraacanthus' in Rev. Hort., but as 'tephraacanthus' in Neue Blumen-Zeitung. Since the ash-grey colour and texture of the spines is specifically mentioned both in the French description as well as in the Latin diagnosis in Neue Blumen-Zeitung, the correct spelling is taken to be 'tephraacanthus'.]
- Echinopsis tominensis** (Weingart) Anceschi & Magli, Cactusinhabitat South America 2011/2013 40, 2013. Basionym: *Cereus tominensis*.
- Echinopsis trollii** (Kupper) Anceschi & Magli, Cactusinhabitat South America 2011/2013 40, 2013. Basionym: *Cereus trollii*.
- Echinopsis weberbaueri** (K. Schumann ex Vaupel) Anceschi & Magli, Cactusinhabitat South America 2011/2013 40, 2013. Basionym: *Cereus weberbaueri*.
- Eriocephalus claviceps** (F. Ritter) Lodé, Cact.-Avent. Int. 99: 25, ill., 2013. Basionym: *Eriocactus claviceps*.
- Eriocephalus nigrispina** (K. Schumann) Lodé, Cact.-Avent. Int. 99: 25, ill., 2013. Basionym: *Echinocactus nigrispinus*.

- Ferocactus acanthodes** ssp. **eastwoodiae** (L. D. Benson) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 4, 2013. Basionym: *Ferocactus acanthodes* var. *eastwoodiae*. [The correctness depends on the status of *Ferocactus acanthodes*, which was proposed as *nomen rejiciendum*.]
- Ferocactus acanthodes** ssp. **lecontei** (Engelmann) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 4, 2013. Basionym: *Echinocactus lecontei*. [The correctness depends on the status of *Ferocactus acanthodes*, which was proposed as *nomen rejiciendum*.]
- Ferocactus gracilis** ssp. **tortulispinus** (H. E. Gates) Lodé, *Cact.-Avent. Int.* 100: 29, 2013. Basionym: *Ferocactus tortulispinus*.
- Ferocactus wislizeni** ssp. **ajoensis** Fencel & Kalas, *Bradleya* 31: 7, ill. (pp. 5-8, 10), 2013. Typus: *Fencel* RF003-2012 (UNM, ARIZ).
- Frailea angelicana** Diers & Schädlich, *Kakt. and. Sukk.* 64(8): 212, ill. (pp. 211, 213-217), 2013. Typus: *Schädlich* 287 (RB, WU). [Erratum: l.c. (10): 259, 2013.]
- Gymnocalycium bruchii** ssp. **brigittae** (Piltz) Papsch, *Schütziana* 4(1): 24, 2013. Basionym: *Gymnocalycium bruchii* var. *brigittae*.
- Gymnocalycium bruchii** ssp. **carolinense** (Neuher) Papsch, *Schütziana* 4(1): 24, 2013. Basionym: *Gymnocalycium andreae* ssp. *carolinense*.
- Gymnocalycium bruchii** ssp. **ludwigii** (Neuher) Papsch, *Schütziana* 4(1): 24, 2013. Basionym: *Gymnocalycium carolinense* ssp. *ludwigii*.
- Gymnocalycium mostii* ssp. *bicolor* Schütz ex Repka, *Bradleya* 31: 113, 2013. *Nom. inval.* (ICN Art. 36.1b). [Published in anticipation, based on *Gymnocalycium bicolor* Schütz 1962 (*nom. inval.*).]
- Gymnocalycium mostii** ssp. **prochazkianum** (Sorma) G. Charles, *Cactaceae Syst. Init.* 29: 14, 2013. Basionym: *Gymnocalycium prochazkianum*.
- Gymnocalycium prochazkianum** ssp. **simile** Repka, *Bradleya* 31: 109, 111-112, ill. (pp. 103-104, 107-108), 2013. Typus: *Repka* 701 (CORD).
- Gymnocalycium prochazkianum** ssp. **simplex** Repka, *Bradleya* 31: 106, 109, ill. (pp. 104, 107-108), 2013. Typus: *Repka* 707 (CORD).
- Gymnocalycium simile* Repka, *Bradleya* 31: 98, 2013. *Nom. inval.* (ICN Art. 36.1a). [Short-form name used throughout the paper for the taxon *G. prochazkianum* ssp. *simile* Repka.]
- Gymnocalycium simplex* Repka, *Bradleya* 31: 98, 2013. *Nom. inval.* (ICN Art. 36.1a). [Short-form name used throughout the paper for the taxon *G. prochazkianum* ssp. *simplex* Repka.]
- Haageocereus bieblii** (Diers) Lodé, *Cact.-Avent. Int.* 98(Suppl.): 4, 2012. Basionym: *Pygmaeocereus bieblii*.
- Haageocereus bieblii** ssp. **kuehhasii** (Diers) Lodé, *Cact.-Avent. Int.* 98(Suppl.): 4, 2012. Basionym: *Pygmaeocereus bieblii* var. *kuehhasii*.
- Haageocereus bylesianus** (Andreae & Backeberg) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 5, 2013. Basionym: *Pygmaeocereus bylesianus*.
- Haageocereus familiaris** (F. Ritter) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 5, 2013. Basionym: *Pygmaeocereus familiaris*.
- Hamatocactus hamatocanthus** ssp. **sinuatus** (A. Dietrich) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 5, 2013. Basionym: *Echinocactus sinuatus*.
- Harrisia** Sect. **Roseocereus** (Backeberg) Franck, *Syst. Bot.* 38(1): 218, 2013. Basionym: *Roseocereus*. [Combination doubtfully valid under ICN Art. 41.5 since the page reference for the basionym is incomplete, but the publication where the basionym was validated has no page numbers, and the part number that is given on each page was erroneously considered as page number.]
- Harrisia** Ser. **Adscendentes** Franck, *Syst. Bot.* 38(1): 218, 2013. Typus: *Cereus adscendens* Gürke.
- Harrisia** Ser. **Earlei** Franck, *Syst. Bot.* 38(1): 218, 2013. Typus: *Harrisia earlei* Britton & Rose.
- Harrisia** Subgen. **Eriocereus** (A. Berger) Franck, *Syst. Bot.* 38(1): 218, 2013. Basionym: *Cereus* Subgen. *Eriocereus*. [Name first used without rank by Britton & Rose, *The Cact.* 2: 148, 1920, and also used invalidly (ICBN Art. 33.4, 34.1a) by Buxbaum in Krainz (ed.), *Die Kakt. CIIIa*: [Harrisia 1], 1974.]

- Lobivia aurea** ssp. **fallax** (Oehme) Lodé, Cact.-Avent. Int. 100: 29, 2013. Basionym: *Lobivia fallax*.
- Lobivia aurea** ssp. **shaferei** (Britton & Rose) Lodé, Cact.-Avent. Int. 100: 29, 2013. Basionym: *Lobivia shaferei*.
- Lobivia calliantholilacina** (Cárdenas) Lodé, Cact.-Avent. Int. 98 (Suppl.): 5, 2013. Basionym: *Echinopsis calliantholilacina*.
- Lobivia callichroma** (Cárdenas) Lodé, Cact.-Avent. Int. 98 (Suppl.): 5, 2013. Basionym: *Echinopsis callichroma*.
- Lobivia callochrysea** (F. Ritter) Lodé, Cact.-Avent. Int. 100: 30, 2013. Basionym: *Hymenorebutia aurea* var. *callochrysea*. [In the parallel English edition of the journal, this name is published on p. 29.]
- Mammillaria chaletii** Plein, J. Mammillaria Soc. 53(3): 99-100, ill. (pp. 97-100), 2013. Typus: *Chalet* 4893 (IBUG). [Repeated in Mitteilungsbl. AfM 37(4): 194-202, 2013.]
- Mammillaria columbiana** ssp. **jamaicensis** (Areces) Lodé, Cact.-Avent. Int. 100: 30, 2013. Basionym: *Mammillaria jamaicensis*.
- Mammillaria columbiana* ssp. **ruestii** (Quehl) Lodé, Cact.-Avent. Int. 100: 30, 2013. *Nom. inval.* (ICN Art. 41.5), based on *Mammillaria ruestii*.
- Mammillaria columbiana** ssp. **tamayonis** (Killip ex Schnee) Lodé, Cact.-Avent. Int. 100: 30, 2013. Basionym: *Mammillaria tamayonis*.
- Mammillaria dioica** ssp. **swinglei** (Britton & Rose) Hoeve, J. Mammillaria Soc. 53(1): 16, 2013. Basionym: *Neomammillaria swinglei*.
- Mammillaria discolor** ssp. **pachyrhiza** (Backeberg) Lodé, Cact.-Avent. Int. 98 (Suppl.): 5, 2013. Basionym: *Mammillaria pachyrhiza*.
- Mammillaria grusonii** ssp. **pachycylindrica** (Backeberg) Lodé, Cact.-Avent. Int. 98 (Suppl.): 5, 2013. Basionym: *Mammillaria pachycylindrica*.
- Mammillaria grusonii** ssp. **zeyeriana** (F. Haage ex K. Schumann) Lodé, Cact.-Avent. Int. 100: 30, 2013. Basionym: *Mammillaria zeyeriana*.
- Mammillaria nacoriensis** Plein & Rogozinski, Mitteilungsbl. Arbeitskreises Mammillarienfr. 37(4): 244-245, ill. (pp. 234-245, 250-255), 2013. Typus: *Plein* 587 (IBUG).
- Mammillaria sphaerica** ssp. **paulii** (Linzen) Lodé, Cact.-Avent. Int. 98 (Suppl.): 5, 2013. Basionym: *Mammillaria paulii*.
- Matucana hoxeyi** (G. Charles) G. Charles, Cact. Explorer 7: 40, 2013. Basionym: *Matucana paucicostata* ssp. *hoxeyi*.
- Matucana oreodoxa** ssp. **rebutiiflora** (G. Charles) Corman, Succulentopia 7: 26, 2013. Basionym: *Matucana rebutiiflora*.
- Matucana rebutiiflora** G. Charles, Bradleya 31: 4, ill. (pp. 2-3), 2013. Typus: *Underwood & Pugh* s.n. (HUSA).
- Melocactus harlowii** ssp. **borhidii** (Mészáros) Kunte, Kaktusy (Brno) 49(Special 1): 27, ill., 2013. Basionym: *Melocactus borhidii*.
- Melocactus harlowii** ssp. **evae** (Mészáros) Guiggi, Cactology 3 (Suppl. IV): 3, 2013. Basionym: *Melocactus evae*.
- Micropuntia pulchella** ssp. **gracilicylindrica** (Wiegand & Backeberg) Hochstätter, CactusWorld 31(4): 256, 2013. Basionym: *Micropuntia gracilicylindrica*.
- Monvillea estevesii** (P. J. Braun) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Cereus estevesii*.
- Monvillea phatnosperma** ssp. **kroenleinii** (N. P. Taylor) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Cereus kroenleinii*.
- Neobesseyia abdita** (Repka & Vasko) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Escobaria abdita*.
- Neobesseyia dasyacantha** (Engelmann) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Mammillaria dasyacantha*.
- Neobesseyia dasyacantha** ssp. **chaffeyi** (Britton & Rose) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Escobaria chaffeyi*.
- Neobesseyia duncanii** (Hester) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Escobesseyia duncanii*.
- Neobesseyia emskoetteriana** (Quehl) Lodé, Cact.-Avent. Int. 98 (Suppl.): 6, 2013. Basionym: *Mammillaria emskoetteriana*.
- Neobesseyia lloydii** (Britton & Rose) Lodé, Cact.-Avent. Int. 98 (Suppl.): 7, 2013. Basionym: *Escobaria lloydii*.
- Neobesseyia minima** (Baird) Lodé, Cact.-Avent. Int. 98 (Suppl.): 7, 2013. Basionym: *Coryphantha minima*.
- Neobesseyia missouriensis** ssp. **asperispina** (Bödeker) Lodé, Cact.-Avent. Int. 100: 30, 2013. Basionym: *Coryphantha asperispina*.

- Neogriseocereus** Guiggi, *Cactology* 3 (Suppl. IV): 1, 2013. Typus: *Cactus fimbriatus* Lamarck. [Replaces *Griseocereus* Guiggi 2012 and *Griseocactus* Guiggi 2012 (both *nom. inval. Art. ICBN 36.2.*)]
- Neogriseocereus fimbriatus** (Lamarck) Guiggi, *Cactology* 3 (Suppl. IV): 1, 2013. Basionym: *Cactus fimbriatus*.
- Neogriseocereus fricii** (Sánchez-Mejorada) Guiggi, *Cactology* 3 (Suppl. IV): 1, 2013. Basionym: *Stenocereus fricii*.
- Neogriseocereus griseus** (Haworth) Guiggi, *Cactology* 3 (Suppl. IV): 2, 2013. Basionym: *Cereus griseus*.
- Neogriseocereus pruinosus** (Otto ex Pfeiffer) Guiggi, *Cactology* 3 (Suppl. IV): 2, 2013. Basionym: *Echinocactus pruinosus*.
- Neoporteria caligophila** (R. Pinto) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 7, 2013. Basionym: *Eriosyce caligophila*.
- Notocactus herteri** ssp. **roseoluteus** (van Vliet) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 7, 2013. Basionym: *Notocactus roseoluteus*.
- Notocactus langsdorfii** fa. **prestlei** (N. Gerloff) N. Gerloff, *Internoto* 34(1): 19, 2013. Basionym: *Notocactus neohorstii* var. *prestlei*.
- Notocactus mammulosus** ssp. **brasiliensis** (Spegazzini) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 7, 2013. Basionym: *Parodia brasiliensis*.
- Notocactus mammulosus** ssp. **erythracanthus** (H. Schlosser & Brederoo) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 7, 2013. Basionym: *Notocactus erythracanthus*.
- Notocactus mammulosus** ssp. **eugeniae** (van Vliet) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 7, 2013. Basionym: *Notocactus eugeniae*.
- Notocactus mueller-melchersii** ssp. **gutierrezii** (W.-R. Abraham) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 8, 2013. Basionym: *Notocactus gutierrezii*.
- Notocactus mueller-melchersii** ssp. **winkleri** (van Vliet) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 8, 2013. Basionym: *Notocactus winkleri*.
- Notocactus rutilans** ssp. **veenianus** (van Vliet) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 8, 2013. Basionym: *Notocactus veenianus*.
- Notocactus tabularis** ssp. **bommeljei** (van Vliet) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 8, 2013. Basionym: *Notocactus bommeljei*.
- Notocactus uebelmannianus** ssp. **pleiocephalus** (Gerloff & König) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 8, 2013. Basionym: *Notocactus uebelmannianus* var. *pleiocephalus*.
- Pachycereus eichlamii** (Britton & Rose) D. R. Hunt, *Cactaceae Syst. Init.* 31: 14, 2013. Basionym: *Lemaireocereus eichlamii*.
- Parodia aureispina** var. **mutabilis** (Backeberg) Käisinger, *Mitteilungsbl. Inter-Parodia-Kette* 29: 5, ill., 2013. Basionym: *Parodia mutabilis*.
- Parodia microsperma** ssp. **herzogii** (Rausch) Janeba, *CactusWorld* 31(2): 116, ill. (p. 114), 2013. Basionym: *Parodia herzogii*.
- Parodia stuemeri** var. **schuetziana** (Jajo) Käisinger, *Mitteilungsbl. Inter-Parodia-Kette* 29: 17, ill., 2013. Basionym: *Parodia schuetziana*. [Sphalm. 'schützianna'.]
- Parodia stuemeri** var. **tilcarensis** (Backeberg) Käisinger, *Mitteilungsbl. Inter-Parodia-Kette* 29: 14, ill., 2013. Basionym: *Echinocactus stuemeri* var. *tilcarensis*.
- Peniocereus canoensis** P. House & al., *Revista Mex. Biodivers.* 84: 1077-1080, ill., 2013. Typus: *House & al.* 5110 (TEFH, MEXU).
- Pseudomaihueniopsis** Guiggi, *Cactology* 3 (Suppl. V): 1, 2013. Typus: *Opuntia nigrispina* K. Schumann.
- Pseudomaihueniopsis nigrispina** (K. Schumann) Guiggi, *Cactology* 3 (Suppl. V): 1, 2013. Basionym: *Opuntia nigrispina*.
- Pseudomaihueniopsis nigrispina** ssp. **atroglobosa** (Backeberg ex F. Ritter) Guiggi, *Cactology* 3 (Suppl. V): 1, 2013. Basionym: *Platyopuntia atroglobosa*. [Validity of the basionym in dispute, and the correct basionym, also enumerated by Guiggi, is likely *Maihueniopsis nigrispina* ssp. *atroglobosa* Backeberg ex Guiggi & Palacios 2010.]
- Soehrensia huascha** (F. A. C. Weber) Schlumberger, *Cactaceae Syst. Init.* 29: 5, 2013. Basionym: *Cereus huascha*. [First published invalidly in *l.c.* 28: 31, 2012 (ICN Art. 41.5, date of the basionym reference lacking).]
- Stenocereus heptagonus** (Linné) Mottram, *Cactician* 3: 27, 2013. Basionym: *Cactus heptagonus*.
- Sulcorebutia bruchii* Hertus, *Cactaceae etc.* 23(1): 30-32, ill., 2013. *Nom. inval.* (ICN Art. 36.1b). [Used as provisional name.]

Sulcorebutia sedae Hertus & al., *Kaktusy* (Brno) 49(4): 122-125, ills., 2013. Typus: *Horáček* 1579 (PRC).

Sulcorebutia varicolor Hertus, *Cactaceae* etc. 23(1): 31-32, ills., 2013. *Nom. inval.* (ICN Art. 36.1b). [Used as provisional name. Sphalm. 'variicolor'.]

Tacinga lilae (Trujillo & Marisela Ponce) Majure & R. Puente, *Syst. Bot.* 39(2): 450, ills. (p. 447), 2013. Basionym: *Opuntia lilae*.

Trichocereus bolligerianus (Mächler & Helmut Walter) S. Albesiano, *Haseltonia* 17: 18, 2012. Basionym: *Echinopsis bolligeriana*. [Omitted erroneously.]

Turbinicarpus viereckii ssp. *hoefeleinii* Höfelein, *Turbi-Now* 23: 3-7, ills., 2013. *Nom. inval.* (ICN Art. 39.2, 40.1). [Published as provisional name. Sphalm. 'höfeleinii'.]

Weingartia arenacea ssp. *candiae* (Cárdenas) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 9, 2013. Basionym: *Rebutia candiae*.

Weingartia arenacea ssp. *kamiensis* (Brederoo & Donald) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 9, 2013. Basionym: *Sulcorebutia menesesii* var. *kamiensis*.

Weingartia arenacea ssp. *menesesii* (Cárdenas) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 9, 2013. Basionym: *Rebutia menesesi*.

Weingartia breviflora ssp. *haseltonii* (Cárdenas) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 9, 2013. *Nom. inval.* (ICN Art. 35.1), based on *Rebutia haseltonii*.

Weingartia breviflora ssp. *loui* (Diers) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 9, 2013. *Nom. inval.* (ICN Art. 35.1), based on *Sulcorebutia breviflora* var. *loui*.

Weingartia coloradensis Diers & Jucker, *Gymnocalycium* 26(2): 1079-1080, ills. (pp. 1077-1082), 2013. Typus: *Jucker* 1145 (LPB, WU).

Weingartia crispata ssp. *hertusii* (Halda & Horáček) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 10, 2013. Basionym: *Sulcorebutia crispata* ssp. *hertusii*. [Sphalm. 'hertusi'.]

Weingartia cylindrica ssp. *crucensis* (Donald ex Gertel) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 10, 2013. Basionym: *Sulcorebutia cylindrica* var. *crucensis*.

Weingartia mentosa ssp. *albissima* (F. H. Brandt) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 10, 2013. Basionym: *Weingartia albissima*.

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Weingartia vasqueziana ssp. *losenickyana* (Rausch) Lodé, *Cact.-Avent. Int.* 98 (Suppl.): 11, 2013. Basionym: *Sulcorebutia losenickyana*.

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Crassula muscosa fa. *pseudolycopodioides* (Dinter & Schinz) Laguna Lumberreras & al., *Bouteloua* 13: 18, 2013. Basionym: *Crassula pseudolycopodioides*.

Echeveria yalmanantlanensis A. Vázquez & Cházaro, *Brittonia* 65(3): 274-276, ills., 2013. Typus: *Vázquez-García & al.* 9175 (IBUG, NY).

Monanthes subrosulata Bañares & A. Acevedo-Rodríguez, *Willdenowia* 43(1): 25-27, ills. (pp. 26, 29), 2013. Typus: *Bañares & Acevedo* 46878 (TFC, B).

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dum pedicellatum N. B. Singh & U. C. Bhattacharyya 2011 (*nom. illeg.*, ICN Art. 53.1.)

Sedum kuntsunianum X. F. Jin & al., Phytotaxa 105(2): 34-36, ills., 2013. Typus: *Jin & Yang* 1808 (HTC, HTC, ZM).

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Thompsonella Sect. **Fruticulosae** V. V. Byalt, Novosti Sist. Vyssh. Rast. 44: 102, 2013. Typus: *Thompsonella xochipalensis*.

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ERICACEAE

Spherospermum glutinosum Luteyn & Pedraza, Phytotaxa 79(1): 15-16, ills., 2013. Typus: *Suin* 342 (MO, NY, QCNE).

Spherospermum rotundifolium Luteyn, Phytotaxa 79(1): 22-23, ills., 2013. Typus: *Clark & al.* 6194 (NY, COL, QCNE, US).

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EUPHORBIACEAE

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Euphorbia Sect. **Brasilienses** V. W. Steinmann & Dorsey, Taxon 62(2): 308, 2013. Typus: *Euphorbia phosphorea* Martius.

Euphorbia Sect. **Lactifluae** Dorsey & V. W. Steinmann, Taxon 62(2): 306, 2013. Typus: *Euphorbia lactiflua* Philippi.

Euphorbia Sect. **Mesophyllae** V. W. Steinmann & Dorsey, Taxon 62(2): 306, 2013. Typus: *Euphorbia sinclairiana* Benth.

Euphorbia Sect. **Pachysanthae** X. Aubriot & Haevermans, Taxon 62(2): 309, 2013. Typus: *Euphorbia pachysantha* Baillon.

Euphorbia Sect. **Pacificae** Dorsey, Taxon 62(2): 305, 2013. Typus: *Euphorbia plume-rioides* Teijsmann ex Hasskarl.

Euphorbia Sect. **Pervilleanae** Haevermans & X. Aubriot, Taxon 62(2): 309, 2013. Typus: *Euphorbia pervilleana* Baillon.

Euphorbia Sect. **Rubellae** Dorsey, Taxon 62(2): 309, 2013. Typus: *Euphorbia rubella* Pax.

Euphorbia Ser. **Hystrix** Bruyns, Taxon 62(6): 1193, 2013. Typus: *Euphorbia loricata* Lamarck.

Euphorbia Ser. **Meleuphorbia** (A. Berger) Bruyns, Taxon 62(6): 1194, 2013. Basionym: *Euphorbia* Sect. *Meleuphorbia*.

Euphorbia Ser. **Rhizanthium** (Boissier) Bruyns, Taxon 62(6): 1194, 2013. Basionym: *Euphorbia* Sect. *Rhizanthium*.

Euphorbia Ser. **Treisia** (Haworth) Bruyns, Taxon 62(6): 1194, 2013. Basionym: *Treisia*.

Euphorbia Subsect. **Africanae** Molero & Barres, Taxon 62(2): 338, 2013. Typus: *Euphorbia mauritanica* Linné.

Euphorbia Subsect. **Macaronesicae** Molero & Barres, Taxon 62(2): 338, 2013. Typus: *Euphorbia regis-jubae* Webb & Berthelot.

Euphorbia Subsect. **Platycephalae** Bruyns, Taxon 62(6): 1193, 2013. Typus: *Euphorbia platycephala* Pax.

Euphorbia ambatomenahensis Rebmann, Cact. Succ. 5(1): 4, 2013. Typus: *Rebmann* 11 (BR). [Name first used invalidly (in l.c. 2(1): 31, 2010) as combination for the invalid name *E. ambovombensis* var. *ambatomenahensis* Rebmann.]

Euphorbia bisellenbeckii fa. **caulopodia** (P. R. O. Bally) S. Carter, *Euphorbia World* 9(3): 7, 2013. Basionym: *Monadenium ellenbeckii* fa. *caulopodium*.

Euphorbia ×**fernandez-lopezii** Molero & Rovira, *Euphorbia World* 9(2): 27-28, ill., 2013. Typus: *Fernández & Molero* 7.4/96 (BCN, BCN). [= *Euphorbia bourgeana* × *E. berthelotii*. First published invalidly (ICBN Art. 37.6) in *Willdenowia* 35(2): 278-279, 2005 (cf. RPS 56).]

Euphorbia letestuana var. **rotundifolia** (P. R. O. Bally) S. Carter, *Euphorbia World* 9(3): 7, 2013. Basionym: *Monadenium letestuanum* var. *rotundifolium*.

Euphorbia marie-cladiae Rzepecky, *Cact. Succ. J. (Los Angeles)* 85(1): 10, ill. (pp. 9-14), 2013. Typus: *Rzepecky* 12072303 (FT).

Euphorbia mtolohensis Lodé, *Cact.-Avent. Int.* 99: 30-31, ill., 2013. Typus: *Lodé & Canales* 2013-03 (UMH).

Euphorbia nicaisi Rebmann, *Cact. Succ.* 5(1): 11-14, ill., 2013. *Rebmann* 23 (BR).

Euphorbia otjipembana ssp. **okakoraensis** Swanepoel, *Phytotaxa* 117(2): 53-54, ill., 2013. Typus: *Swanepoel* 271 (WIND, PRE).

Euphorbia polygona fa. **alba** D. H. Schnabel, *Euphorbia World* 9(2): 18, ill. (p. 17), 2013. *Nom. inval.* (ICN Art. 40.1). [Used as provisional name.]

Euphorbia polygona var. **anoplia** (Stapf) D. H. Schnabel, *Euphorbia World* 9(2): 10, 2013. Basionym: *Euphorbia anoplia*.

Euphorbia polygona var. **horrida** (Boissier) D. H. Schnabel, *Euphorbia World* 9(2): 15, 2013. *Nom. illeg.* (ICN Art. 52.1), based on *Euphorbia horrida*. [Since Bruyns (2012) selected the same specimen as lectotype for *E. horrida* and as neotype for *E. polygona*, *E. horrida* is a homotypic synonym of the latter, and the combination at varietal level is illegitimate vs. var. *polygona* under Art. 52.1.]

Euphorbia polygona var. **major** (A. C. White & al.) D. H. Schnabel, *Euphorbia World* 9(2): 18, 2013. Basionym: *Euphorbia horrida* var. *major*.

Euphorbia polygona var. **minor** D. H. Schnabel, *Euphorbia World* 9(2): 13, ill. (p. 14), 2013. Typus: *Schnabel* 6 (NBG).

Euphorbia polygona var. **noorsveldensis** (A. C. White & al.) D. H. Schnabel, *Euphorbia World* 9(2): 20, 2013. Basionym: *Euphorbia horrida* var. *noorsveldensis*.

Euphorbia polygona var. **striata** (A. C. White & al.) D. H. Schnabel, *Euphorbia World* 9(2): 22, 2013. Basionym: *Euphorbia horrida* var. *striata*.

GERANIACEAE

Pelargonium pachypodium J. P. Roux, *Bothalia* 43(2): 230-232, ill., 2013. Typus: *Ficc & Ball* s.n. (NBG).

Pelargonium saxatile J. C. Manning & Goldblatt, *S. African J. Bot.* 78: 267-268, ill., 2012. Typus: *Manning* 3317 (NBG, BOL, MO). [Omitted previously.]

GESNERIACEAE

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Pachycaulos nummularium (Hanstein) J. L. Clark & J. F. Smith, *Syst. Bot.* 38(2): 461, ill. (pp. 459-460), 2013. Basionym: *Hypocyrtia nummularia*.

Sinningia ×**vacariensis** G. E. Ferreira & al., *Phytotaxa* 119(1): 46-48, ill., 2013. Typus: *Ferreira & Govel-Ely* 235 (ICN, G). [= *S. lineata* × *S. macrostachya*.]

HYACINTHACEAE

Albuca deaconii van Jaarsveld, *Herbertia* [ser. 3], 66: 146-154, ill., 2013. Typus: *Deacon* 1336 (NBG).

Drimia cochlearis Martínez-Azorín & al., *Syst. Bot.* 38(2): 333-334, ill., 2013. Based on *Martínez-Azorín & al.* MMA941. *Nom. inval.* (ICN Art. 8.2).

Sagittanthera Martínez-Azorín & al., *Phytotaxa* 98(2): 46, 2013. Typus: *Rhadamanthus cyanelloides* Baker.

Sagittanthera cyanelloides (Baker) Martínez-Azorín & al., Phytotaxa 98(2): 48, ills. (pp. 47-50), 2013. Basionym: *Rhadamanthus cyanelloides*.

Sagittanthera mzimvubuensis (van Jaarsveld) Martínez-Azorín & al., Phytotaxa 98(2): 51, ills. (p. 52), 2013. Basionym: *Drimia mzimvubuensis*.

LAMIACEAE

Plectranthus cucullatus A. J. Paton, in Exell & al., Fl. Zambes. 8(8): 261-262, 2013. Typus: *Gomes e Sousa* 754 (K).

MELASTOMATACEAE

Pleiochiton amorimii Reginato & R. Goldenberg, Brittonia 65(1): 23-24, ills., 2013. Typus: *Amorim & al.* 7024 (CEPEC, NY, UPCB).

MONTIACEAE

Calandrinia mirabilis Chinnock & J. G. West, J. Adelaide Bot. Gard. 26: 97, ills. (pp. 98-101, t. 1), 2013. Typus: *Chinnock* 10289 (AD, AD, CANB, MEL, PERTH).

MORACEAE

Dorstenia christenhuszii M. W. Chase & M. F. Fay, Phytotaxa 81(2): 46-47, ills., 2013. Typus: *Christenhusz* 6664 (K, EA, H).

PASSIFLORACEAE

Adenia barthelatii M. Pignal & al., Phytotaxa 99(1): 42-44, ills., 2013. Typus: *Barthelat & al.* 479 (P, MAO, P).

PORTULACACEAE

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Portulaca okinawensis var. **amamiensis** Koku-bugata & al., Phytotaxa 117(1): 21, 2013. Typus: *Kokubugata* 15198 (TNS).

RUSCACEAE

Nolina pollyjeanneae Hochstätter, Acta Succ. 1(1): 7, ills. (pp. 4-8), 2013. Typus: *Hochstätter* 523.50 (SRP, HEID).

Sansevieria Subsect. **Hastifoliae** P. A. Mansfeld, Kakt. and Sukk. 64(2): 36, 2013. Typus: *Sansevieria cylindrica* Boyer ex Hooker. Sphalm. 'Hastifolia'.

Sansevieria Subsect. **Stoloniferae** P. A. Mansfeld, Kakt. and Sukk. 64(2): 36, 2013. Typus: *Sansevieria suffruticosa* N. E. Brown. Sphalm. 'Stolonifera'.

Sansevieria lineata T. G. Forrest, *Sansevieria* 30: 11, ills. (pp. 10-11), 2013. Typus: *Forrest* 303 (MHU).

Sansevieria pinguicula var. **nana** Chahinian, *Sansevieria* 30: 15, ills. (pp. 14-19), 2013. Typus: *Schwartz & LaFon* s.n. in *Chahinian* 397 (MO, NY).

TALINACEAE

Talinum porphyreum M. Mendoza & J. R. I. Wood, Kew Bull. 68(2): 243, ills. (pp. 244-245), 2013. Typus: *Mendoza & al.* 3565 (USZ, K, LPB, NY, UB).

VITACEAE

Cissus salehi Lodé, Cact.-Avent. Int. 99: 26, ills. (pp. 27-28), 2013. Typus: *Lodé & Canales* 2013-01 (UMH).

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