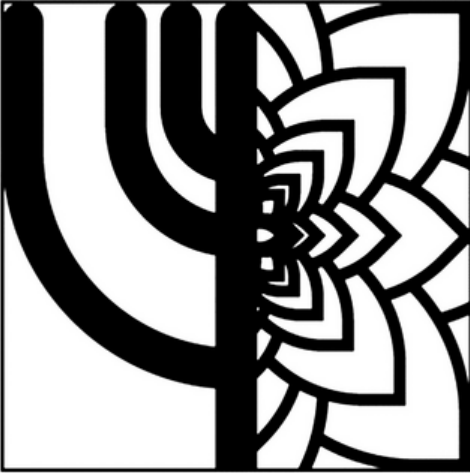


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International Organization
for Succulent Plant Study

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
LXVII (2016)**

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 issues 55–65.

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 LXVII (2016)

*Index nominum novarum plantarum succulentarum anno MMXVI
editorum nec non bibliographia taxonomica ab U. Egli 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.
- 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

It has been becoming an unhappy custom in the preceding issues of RPS to apologize for the delayed publication, and such apologies are once again due – the present volume, covering literature published in 2016, is again published with a significant delay, very much to my dismay.

The observation made in the past few editorials that the flood of new publications accelerates in a frightening manner is – perhaps not unexpectedly – still relevant. The phenomenon involved has been termed "academic spam" in the recent past, and together with the steep increase in fraudulent publishers and "predatory" journals (and even congresses), places a growing burden on the world-wide academic community. The problem is that all these shady publications are not always easily distinguished from "real" and meritorious papers, and that they now and then include papers that communicate valuable research results, and thus cannot be simply dismissed because their author(s) by chance or ignorance chose a less-than-perfect publisher or publication. A solution to the problem of "predatory publishing" and "academic spam" does not appear to come into sight, and so the associated problems and the flood of publications will accompany us also in the coming years, and take substantial bits of our research time.

As in earlier years, the IPNI team at Kew is acknowledged for sharing their expertise and for discussing nomenclaturally ambiguous cases. Reiner Mailänder, Zürich, continued to generously support RPS by scanning numerous "general" biological journals. A vast proportion of the bibliographical details have been assembled by Ilona Sutter during her 2017 internship at the Zürich Succulent Plant Collection. I am grateful for all this diligent work.

NOMINA NOVA

AGAVACEAE

- Agave angustifolia* fa. *woodrowii* (W. Watson) D. Guillot & P. Van der Meer, *Bouteloua* 24: 62, 2016. *Nom. inval.* (ICN Art. 41.5), based on *Agave woodrowii*. [Incorrectly ascribed to Trelease (Ann. Rep. Missouri Bot. Gard. 19: 287, 1908).]
- Furcraea* Sect. *Pendentes* Hochstätter, *Furcraea Ventenat*, 8, 2016. *Nom. inval.* (ICN Art. 38.1a, 40.1). [Not typified.]
- Furcraea* Ser. *Pendentes* Hochstätter, *Furcraea Ventenat*, 8, 2016. *Nom. inval.* (ICN Art. 38.1a, 40.1). [Not typified.]
- Furcraea* Ser. *Serrulatae* Hochstätter, *Furcraea Ventenat*, 9, 2016. *Nom. inval.* (ICN Art. 38.1a, 40.1). [Not typified.]
- Furcraea nana* Hochstätter & P. Van der Meer, in Hochstätter, *Furcraea Ventenat*, 57, 2016. Based on *Van der Meer* s.n.. *Nom. inval.* (ICN Art. 39.2).
- Manfreda** Sect. **Brunneae** Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-9, 2016. Typus: *Agave brunnea* S. Watson. Sphalm. 'Brunnea'.
- Manfreda* Sect. *Guttatae* Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-13, 2016. *Nom. inval.* (ICN Art. 40.1). [Not typified. Sphalm. 'Guttataea'.]
- Manfreda** Sect. **Scabrae** Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-10, 2016. Typus: *Agave scabra* Ortega. Sphalm. 'Scabraea'. The type is indicated by citing the type (iconotype) of the type species which is permitted by ICN Art. 40.3.
- Manfreda* Sect. *Virginicae* Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-14, 2016. *Nom. inval.* (ICN Art. 40.6). [Based on *Agave virginica* Linné 1753. Sphalm. 'Virginicaea'.]
- Manfreda** Ser. **Brunneae** Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-9, 2016. Typus: *Agave brunnea* S. Watson. Sphalm. 'Brunnea'.
- Manfreda* Ser. *Guttatae* Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-13, 2016. *Nom. inval.* (ICN Art. 40.1). [Not typified because the author explicitly states "Typ: nicht bekannt" ["type: not known"],
- although *Agave guttata* Jacobi 1865 is listed after the name. Sphalm. 'Guttataea'.]
- Manfreda** Ser. **Scabrae** Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-10, 2016. Typus: *Agave scabra* Ortega. Sphalm. 'Scabraea'. See note for Sect. *Scabrae* on the indication of the type.
- Manfreda* Ser. *Virginicae* Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), I-14, 2016. *Nom. inval.* (ICN Art. 40.6). [Based on *Agave virginica* Linné 1753. Sphalm. 'Virginicaea'.]
- Polianthes geminiflora** ssp. **clivicola** (McVaugh) Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), II-4, 2016. Basionym: *Polianthes geminiflora* var. *clivicola*.
- Polianthes geminiflora** ssp. **pueblensis** (E. Solano & García-Mendoza) Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), II-4, 2016. Basionym: *Polianthes geminiflora* var. *pueblensis*. [Basionym erroneously cited as "*Polianthes* var. *pueblensis*", but with correct literature reference, and treated as correctable error.]
- Polianthes* *×neokewensis* (Thiede) Hochstätter, Manfreda, *Polianthes, Prochnyanthes* (Agavaceae), II-4, 2016. *Nom. illeg.* (ICN Art. 52.1). [The basionym is given as *Bravoa ×kewensis* W. Watson, which is name replaced by the intended basionym *Agave ×neokewensis* Thiede. The epithet 'kewensis' is available under *Polianthes* and ought to have been taken up.]
- Polianthes quila** Art. Castro & Aarón Rodríguez, *Syst. Bot.* 41(3): 720-724, figs. 1N, 3, 2016. Typus: *Rodríguez & Castro-Castro* 7149 (IBUG, CHDIR, ENCB, IEB, MEXU, XAL).

AIZOACEAE

- Schlechteranthus** subgen. **Microphyllus** R. F. Powell, *Taxon* 65(2): 259, 2016. Typus: *Arenifera pungens* H. E. K. Hartmann.

- Schlechteranthus abruptus** (A. Berger) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Mesembryanthemum abruptum*.
- Schlechteranthus connatus** (L. Bolus) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Ruschia connata*.
- Schlechteranthus inclusus** (L. Bolus) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Mesembryanthemum inclusum*.
- Schlechteranthus pungens** (H. E. K. Hartmann) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Arenifera pungens*.
- Schlechteranthus spinescens** (L. Bolus) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Ruschia spinescens*.
- Schlechteranthus stylosus** (L. Bolus) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Ruschia stylosa*.
- Schlechteranthus subglobosus** (L. Bolus) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Ruschia subglobosa*.
- Schlechteranthus tetrasepalus** (L. Bolus) R. F. Powell, *Taxon* 65(2): 259, 2016. Basionym: *Ruschia tetrasepala*.
- Stoeberia giftbergensis** (L. Bolus) van Jaarsveld, *Aloe* 52(1): 9, ills. (pp. 4-8), 2016. Basionym: *Ruschia utilis* var. *giftbergensis*.
- Stoeberia utilis* ssp. *giftbergensis* (L. Bolus) van Jaarsveld, *Aloe* 52(1): 4, 2016. *Nom. inval.* (ICN Art. 36.1a), based on *Ruschia utilis* var. *giftbergensis*. [Name only casually mentioned in the title and at least once in the text, but without author citations and without any attempt of a formal publication.]

AMARYLLIDACEAE

- Boophone haemanthoides** ssp. *ernesti-ruschii* (Dinter & G. M. Schulze) G. D. Duncan & C. C. Tsang, *Amaryllidaceae South. Afr.*, 62, 2016. Basionym: *Boophone disticha* var. *ernesti-ruschii*.

ANACAMPSEROTACEAE

- Anacampseros specksi** Dreher, *Avonia* 34(1): 20, ills. (pp. 16-21), 2016. Typus: *Dreher* 209 (ETH, GLM) [Ex cult. Coll. Dreher, 5. 1. 2015].

APOCYNACEAE

- Brachystelma annamacharyae** K. Prasad & al., *Nordic J. Bot.* 34(3): 360-362, ills., 2016. Typus: *Prasanna & al.* 4568 (BSID, BSID).
- Brachystelma gondwanense** Govekar & al., *Rheede* 26(2): 145, ills. (pp. 143-144), 2016. Typus: *Govekar* 174 (CAL, BAMU, BSI, MH, SUK).
- Brachystelma matthewianum** Bruyns & Britto, *Haseltonia* 22: 51, ills., 2016. Typus: *Bruyns* 11488 (E).
- Brachystelma nigidianum** Raja-Kullayiswamy & al., *Kew Bull.* 71: 50: 3-6, ills., 2016. Typus: *Raja Kullayiswamy* 41853 (SKU, BSID, CAL, K, MH).
- Brachystelma rapinatianum** Britto & Bruyns, *Haseltonia* 22: 49-50, ills., 2016. Typus: *Britto* s.n. in *RHT* 65886 (RHT, MH).
- Brachystelma saldanhae** Britto & Bruyns, *Haseltonia* 22: 52-53, ills., 2016. Typus: *Britto* s.n. in *RHT* 73892 (RHT, MH).
- Brachystelma seshachalamense** K. Prasad & Prasanna, *Bangladesh J. Pl. Taxon.* 23(1): 53-56, ills., 2016. Typus: *Prasad* 6454 (CAL, BSID).
- Brachystelma shrirangii** Kambale & al., *Rheede* 26(2): 145-148, ills., 2016. Typus: *Kambale* 348 (SUK, BSI, CAL).
- Brachystelma waterbergensis** Peckover, *Aloe* 52(2): 51, ills., 2016. Typus: *Peckover* 229 (PRU).
- Ceropegia nampanyana** Manudev & al., *Int. J. Advanced Res.* 4(5): 1408-1409, ills. (p. 1411), 2016. Typus: *Manudev & al.* 138969 (CALI, DEV, SUK).
- Ceropegia ravikumariana** Kambale & Gnana-sekaran, *Rheede* 26(1): 57-60, ills., 2016. Typus: *Ravikumar & Murugan* 110037 (FRLH, MH).
- Ceropegia thaithongiae** Kidyoo, *Nordic J. Bot.* 35(3): 281, 2016. Typus: *Kidyoo* 1622 (BKF, BCU). [Dated June 2017, published 21. Dec. 2016 according to the publisher's

website.]

Cynanchum gerrardii ssp. **ingae** Meve & al., Symb. Bot. Upsal. 38: 14-15, ills., 2016. Typus: *Newton* 6206 (UBT, EA).

Dischidia kerrii Kidyoo & Suddee, Nordic J. Bot. 35(2): 185, 2016. Typus: *Suddee* 255 (BKF, BCU). [Dated April 2017, published 20. Dec. 2016 according to the publisher's website.]

Hoya crassicaulis ssp. **capazensis** Kloppenburg, Hoya New 5(3): 10, ills. (pp. 10-13), 2016. Typus: *Edano* s.n. (UC 46166).

Hoya hernaезii Kloppenburg, Hoya New 6(1): 17, ills. (pp. 17-19), 2016. Typus: *Hernaез* s.n. (CAHUP).

Hoya isabelchanae Rodda & Simonsson, Phytotaxa 68: 46-49, ills., 2016. Typus: *Scott* 02-116 (E, SING).

Hoya jiewhoeiana Rodda & al., in Lamb & Rodda, Guide Hoyas Borneo, 198-201, ills., 2016. Typus: *Bosuang & al.* s.n. in *Lamb* 2747/2016 (SAN).

Hoya josetteae M. N. Medina & Kloppenburg, Hoya New 5(4): 3, ills. (pp. 6-8, 10), 2016. Typus: *Medina* s.n. (CMUH 10811).

Hoya larricahilogii M. N. Medina & Kloppenburg, Hoya New 6(1): 3, ills. (pp. 4-8), 2016. Typus: *Cahilog* s.n. (CMUH).

Hoya meliflua ssp. **escobinae** Kloppenburg & al., Hoya New 6(1): 10, ills. (pp. 11-15), 2016. Typus: *Conda* s.n. (PNH 255046, PBDH).

Hoya mindorensis ssp. **sarawakensis** Kloppenburg, Hoya New 6(1): 20, ills. (pp. 20-21), 2016. Typus: *Anonymus* s.n. (PNH).

Hoya phuwuaensis Kidyoo, Phytotaxa 282(3): 218-221, ills., 2016. Typus: *Kidyoo* 1035 (BKF, BCU).

Hoya reyesii M. N. Medina & Kloppenburg, Hoya New 5(3): 3, ills. (pp. 3-9), 2016. Typus: *Anonymus* s.n. (CMU 9840).

ASPHODELACEAE

Aloe ansoutae Rebmann, Cact. Succ. 8(2): 36, ills. (pp. 36-37), 2016. Typus: *Rebmann* 830 (TAN).

Aloe arneodoi N. Rebmann, Cact. Succ. 8(1): 18-20, ills., 2016. Typus: *Rebmann* 27 (BR).

Aloe austrosudanica T. A. McCoy, Avonia 34(4): 196-201, ills., 2016. Typus: *Powys* s.n. in *McCoy* 3722 (FT).

Aloe xinopinata G. F. Smith & al., Haseltonia 22: 60-61, ills. (pp. 57, 59-60), 2016. Typus: *Oosthuizen* 1960 (BNRH). [= *Aloe arborescens* × *A. chortolirioides* var. *chortolirioides*.]

Aloe rouxii van Jaarsveld, Avonia 34(1): 12, ill., 2016. Typus: *Roux* s.n. (NBG).

Aloe rulkensii T. A. McCoy & O. J. Baptista, Cact. Succ. J. (Los Angeles) 88(4): 173-176, ills., 2016. Typus: *McCoy* 4187 (FT).

Aloe tsitongambarikana J.-P. Castillon & J.-B. Castillon, CactusWorld 34(2): 112-113, ills. (pp. 111-113), 2016. Typus: *Castillon* 61 (TAN, TAN).

Aloe varimaculata T. A. McCoy, Cact. Succ. J. (Los Angeles) 88(6): 277-280, ills., 2016. Typus: *McCoy* 4269 (FT).

Aloe versicolor ssp. **steffanieana** (Rauh) J.-B. Castillon & J.-P. Castillon, CactusWorld 34(2): 114, 2016. *Nom. inval.* (ICN Art. 41.5), based on *Aloe steffanieana*.

Haworthia arachnoidea var. **angiras** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia angiras*, *nom. inval.* (ICN Art. 40.7).

Haworthia arachnoidea var. **calitzdorpensis** (Breuer) Breuer, Alsterworthia Int. 16(2): 5, 2016. Basionym: *Haworthia mucronata* var. *calitzdorpensis*.

Haworthia arachnoidea var. **joubertii** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia joubertii*, *nom. inval.* (ICN Art. 40.7).

Haworthia arachnoidea var. **laxa** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia laxa*, *nom. inval.* (ICN Art. 40.7).

Haworthia arachnoidea var. **limbata** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia limbata*, *nom. inval.* (ICN Art. 40.7).

Haworthia aranea var. **candida** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. Basionym: *Haworthia candida*.

Haworthia atrofusca var. **enigma** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. Basionym: *Haworthia enigma*.

Haworthia badia var. **bobii** (M. Hayashi) Breuer, Alsterworthia Int. 16(2): 5, 2016. Basionym: *Haworthia bobii*.

- Haworthia badia** var. **joleneae** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia joleneae*.
- Haworthia batesiana** var. **lepida** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia lepida*.
- Haworthia batesiana** var. **reddii** (C. L. Scott) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia reddii*.
- Haworthia bayeri** var. **hayashii** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia hayashii*.
- Haworthia bayeri** var. **jadea** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia jadea*.
- Haworthia blackbeardiana** var. **calaensis** (Breuer) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia calaensis*.
- Haworthia blackbeardiana** var. **specksii** (Breuer) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia specksii*.
- Haworthia bolusii** var. **floccosa** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia floccosa*.
- Haworthia caerulea** var. **pallens** (Breuer & M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia pallens*.
- Haworthia caespitosa** var. **consanguinea** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia mirabilis* var. *consanguinea*.
- Haworthia cangoensis* var. *kogmanensis* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia kogmanensis*, *nom. inval.* (ICN Art. 40.7).
- Haworthia cangoensis* var. *royalis* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia royalis*, *nom. inval.* (ICN Art. 40.7).
- Haworthia cangoensis* var. *tradouwensis* (Breuer) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. *Nom. inval.* (ICN Art. 35.1), based on *Haworthia tradouwensis*.
- Haworthia cooperi** var. **hisui** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia hisui*.
- Haworthia cyanea** var. **amethysta** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia amethysta*.
- Haworthia cyanea* var. *ianthina* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia ianthina*, *nom. inval.* (ICN Art. 40.7).
- Haworthia cyanea** var. **succinea** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia succinea*.
- Haworthia decipiens** var. **exilis** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia exilis*.
- Haworthia decipiens* var. *incrassa* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. *Nom. inval.*, based on *Haworthia incrassa*, *nom. inval.* (ICN Art. 40.7).
- Haworthia graminifolia** var. **derustensis** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia blackburniae* var. *derustensis*.
- Haworthia hamata** var. **subhamata** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia subhamata*.
- Haworthia inconfluens** var. **crystallina** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia crystallina*.
- Haworthia inconfluens* var. *lockwoodii* (Archibald) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia lockwoodii*. [At species rank, the basionym name has priority over *H. inconfluens*.]
- Haworthia indigoa** var. **truterorum** (Breuer & Marx) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia truterorum*.
- Haworthia isabellae** var. **arabesqua** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia arabesqua*.
- Haworthia isabellae** var. **bella** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia bella*.
- Haworthia isabellae** var. **ligulata** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia ligulata*.
- Haworthia jansenvillensis* var. *crinita* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia crinita*. [The name of the basionym has priority at species rank over *H. jansenvillensis*.]
- Haworthia jansenvillensis* var. *eminens* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia eminens*. [The name of the basionym has priority at species rank over *H. jansenvillensis*.]
- Haworthia jansenvillensis* var. *flavida* (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Incorrect name (ICN Art. 11.4 Ex.

- 10), based on *Haworthia flavida*. [The name of the basionym has priority at species rank over *H. jansenvillensis*.]
- Haworthia jansenvillensis** var. **fluffa** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5, 2016. Basionym: *Haworthia fluffa*.
- Haworthia jansenvillensis* var. **mollis** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 5-6, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia mollis*. [The name of the basionym has priority at species rank over *H. jansenvillensis*.]
- Haworthia jansenvillensis* var. **regina** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia regina*. [The name of the basionym has priority at species rank over *H. jansenvillensis*.]
- Haworthia lapis* var. **rava** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. *Nom. inval.*, based on *Haworthia rava*, *nom. inval.* (ICN Art. 40.7).
- Haworthia magnifica* var. **asperula** (Haworth) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia asperula*. [The name of the basionym has priority at species rank over *H. magnifica*.]
- Haworthia magnifica** var. **obserata** (Marx) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia obserata*.
- Haworthia maraisii** var. **schuldtiana** (von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia schuldtiana*.
- Haworthia marumiana** var. **marmorata** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia marmorata*.
- Haworthia mirabilis** var. **depauperata** (von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia triebneriana* var. *depauperata*.
- Haworthia monticola** var. **bronkhorstii** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia bronkhorstii*.
- Haworthia multifolia** var. **breueri** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia breueri*.
- Haworthia multifolia** var. **major** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia schuldtiana* var. *major*. [The name of the basionym of the combination has priority over *H. emelyae* var. *multifolia* M. B. Bayer 1979, which is the basionym of *H. multifolia*.]
- Haworthia mundula** var. **calcarea** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia mirabilis* var. *calcarea*.
- Haworthia nortieri** var. **agnis** (Battista) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia agnis*.
- Haworthia nortieri* var. **montana** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. *Nom. inval.*, based on *Haworthia montana*, *nom. inval.* (ICN Art. 40.7). [Non *Haworthia nortieri* var. *montana* G. G. Smith 1950.]
- Haworthia notabilis** var. **diversicolor** (Triebner & von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia triebneriana* var. *diversicolor*.
- Haworthia odetteae* var. **odyssei** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. *Nom. inval.*, based on *Haworthia odyssei*, *nom. inval.* (ICN Art. 40.7).
- Haworthia paradoxa** var. **jakubii** (Breuer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia jakubii*.
- Haworthia parksiana** var. **dentata** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia floribunda* var. *dentata*.
- Haworthia pehlemanniae** var. **albisipina** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia albisipina*.
- Haworthia picta** var. **comptoniana** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia comptoniana*.
- Haworthia picturata** var. **pusilla** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia pusilla*.
- Haworthia pilosa* var. **ciliata** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. *Nom. inval.*, based on *Haworthia ciliata*, *nom. inval.* (ICN Art. 40.7).
- Haworthia pilosa** var. **lachnosa** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia lachnosa*.
- Haworthia pringlei** var. **hastata** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia hastata*.
- Haworthia pygmaea** var. **esterhuizenii** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia esterhuizenii*.

- Haworthia retusa** var. **fouchei** (von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia fouchei*.
- Haworthia retusa** var. **fusca** (Breuer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia fusca*.
- Haworthia rossouwii** var. **scabra** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia heidelbergensis* var. *scabra*.
- Haworthia rossouwii** var. **serrata** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia serrata*.
- Haworthia salina* var. **venusta** (C. L. Scott) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Incorrect name (ICN Art. 11.4), based on *Haworthia venusta*. [The name of the basionym has priority at species rank over *H. salina*.]
- Haworthia suberecta** var. **pallidifolia** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia turgida* var. *pallidifolia*.
- Haworthia tenera** var. **cunningii** (Breuer & M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia cunningii*.
- Haworthia tenera** var. **doldii** (M. B. Bayer) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia cooperi* var. *doldii*.
- Haworthia transiens** var. **florens** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia florens*.
- Haworthia tretyrensis** var. **pectinis** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia pectinis*.
- Haworthia umbraticola** var. **obesa** (von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia cymbiformis* var. *obesa*.
- Haworthia venetia** var. **calva** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia calva*.
- Haworthia venetia** var. **jeffreis** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia jeffreis*.
- Haworthia venetia** var. **teres** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 6, 2016. Basionym: *Haworthia teres*.
- Haworthiopsis** Sect. **Attenuatae** (Pilbeam) Gildenhuis & Klopper, *Phytotaxa* 265(1): 11, 2016. Basionym: *Haworthia* Subsect. *Attenuatae*.
- Haworthiopsis** Sect. **Koelmaniorum** Gildenhuis & Klopper, *Phytotaxa* 265(1): 12, 2016. Typus: *Haworthia koelmaniorum* Obermeyer & Hardy.
- Haworthiopsis** Sect. **Limifoliae** (G. G. Smith) Gildenhuis & Klopper, *Phytotaxa* 265(1): 13, 2016. Basionym: *Haworthia* Sect. *Limifoliae*.
- Haworthiopsis** Sect. **Tessellatae** (Salm-Dyck) Gildenhuis & Klopper, *Phytotaxa* 265(1): 14, 2016. Basionym: *Aloe* Sect. *Tessellatae*.
- Haworthiopsis** Sect. **Trifariae** (Haworth) Gildenhuis & Klopper, *Phytotaxa* 265(1): 15, 2016. Basionym: *Haworthia* Sect. *Trifariae*.
- Haworthiopsis** Sect. **Virescentes** (Baker) Gildenhuis & Klopper, *Phytotaxa* 265(1): 19, 2016. Basionym: *Haworthia* Sect. *Virescentes*.
- Haworthiopsis** ×**broteriana** (Resende) Gildenhuis & Klopper, *Phytotaxa* 265(1): 20, 2016. Basionym: *Haworthia* ×*broteriana*.
- Haworthiopsis** ×**cassytha** (Baker) Gildenhuis & Klopper, *Phytotaxa* 265(1): 20, 2016. Basionym: *Haworthia* ×*cassytha*.
- Haworthiopsis** ×**curta** (Haworth) Gildenhuis & Klopper, *Phytotaxa* 265(1): 20, 2016. Basionym: *Haworthia* ×*curta*.
- Haworthiopsis** ×**expansa** (Haworth) Gildenhuis & Klopper, *Phytotaxa* 265(1): 20, 2016. Basionym: *Aloe* ×*expansa*.
- Haworthiopsis fasciata** var. **browniana** (von Poellnitz) Gildenhuis & Klopper, *Phytotaxa* 265(1): 9, 2016. Basionym: *Haworthia browniana*. [Published 9. June 2016 according to the journal homepage. Repeated by Breuer, *Alsterworthia* Int. 16(2): 7, 25. June 2016 (distribution date according to the cover, received at ZSS 19. July 2016).]
- Haworthiopsis granulata** var. **schoemanii** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia schoemanii*.
- Haworthiopsis** ×**hybrida** (Salm-Dyck) Gildenhuis & Klopper, *Phytotaxa* 265(1): 20, 2016. Basionym: *Aloe* ×*hybrida*.
- Haworthiopsis** ×**kewensis** (von Poellnitz) Gildenhuis & Klopper, *Phytotaxa* 265(1): 20, 2016. Basionym: *Haworthia* ×*kewensis*.
- Haworthiopsis koelmaniorum** var. **mcmurtryi** (C. L. Scott) Gildenhuis & Klopper, *Phytotaxa* 265(1): 13, 2016. Basionym: *Haworthia mcmurtryi*. [Published 9. June 2016 according to the journal homepage. Repeated by Breuer, *Alsterworthia* Int. 16(2): 7, 25.

- June 2016 (distribution date according to the cover, received at ZSS 19. July 2016).]
- Haworthiopsis limifolia* var. *striata* (Pilbeam) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. *Nom. inval.*, based on *Haworthia limifolia* var. *striata*, *nom. inval.* (ICN Art. 40.1).
- Haworthiopsis** ×**major** (Salm-Dyck) Gildenhuis & Klopper, *Phytotaxa* 265(1): 21, 2016. Basionym: *Aloe tortuosa* var. *major*.
- Haworthiopsis reinwardtii** fa. **chalumnensis** (G. G. Smith) Gildenhuis & Klopper, *Phytotaxa* 265(1): 10, 2016. Basionym: *Haworthia reinwardtii* var. *chalumnensis*.
- Haworthiopsis reinwardtii** fa. **kaffirdriftensis** (G. G. Smith) Gildenhuis & Klopper, *Phytotaxa* 265(1): 10, 2016. Basionym: *Haworthia reinwardtii* var. *kaffirdriftensis*.
- Haworthiopsis reinwardtii** fa. **olivacea** (G. G. Smith) Gildenhuis & Klopper, *Phytotaxa* 265(1): 11, 2016. Basionym: *Haworthia reinwardtii* var. *olivacea*.
- Haworthiopsis reinwardtii** var. **coarctata** (Haworth) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia coarctata*.
- Haworthiopsis reinwardtii** var. **greenii** (Baker) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia greenii*. [Combining author erroneously given as ‘Baker’.]
- Haworthiopsis reinwardtii** var. **olivacea** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia reinwardtii* var. *olivacea*.
- Haworthiopsis reinwardtii** var. **tenuis** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia reinwardtii* var. *tenuis*.
- Haworthiopsis** ×**resendeana** (von Poellnitz) Gildenhuis & Klopper, *Phytotaxa* 265(1): 21, 2016. Basionym: *Haworthia* ×*resendeana*.
- Haworthiopsis** ×**revendettii** (Uitewaal) Gildenhuis & Klopper, *Phytotaxa* 265(1): 21, 2016. Basionym: *Haworthia* ×*revendettii*.
- Haworthiopsis** ×**rigida** (Lamarck) Gildenhuis & Klopper, *Phytotaxa* 265(1): 21, 2016. Basionym: *Aloe cylindrica* var. *rigida*.
- Haworthiopsis** ×**rubrobrunnea** (von Poellnitz) Gildenhuis & Klopper, *Phytotaxa* 265(1): 22, 2016. Basionym: *Haworthia* ×*rubrobrunnea*.
- Haworthiopsis** ×**sampaiana** (Resende) Gildenhuis & Klopper, *Phytotaxa* 265(1): 22, 2016. Basionym: *Haworthia coarctata* var. *sampaiana*.
- Haworthiopsis scabra** var. **johanii** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia scabra* var. *johanii*.
- Haworthiopsis scabra** var. **smitii** (von Poellnitz) Gildenhuis & Klopper, *Phytotaxa* 265(1): 17, 2016. Basionym: *Haworthia smitii*. [Published 9. June 2016 according to the journal homepage. Repeated by Breuer, *Alsterworthia* Int. 16(2): 7, 25. June 2016 (distribution date according to the cover, received at ZSS 19. July 2016).]
- Haworthiopsis sordida** var. **agavoides** (Zantner & von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia agavoides*.
- Haworthiopsis** ×**subrigida** (Roemer & Schultes fil.) Gildenhuis & Klopper, *Phytotaxa* 265(1): 22, 2016. Basionym: *Aloe* ×*subrigida*.
- Haworthiopsis** ×**tauteae** (Archibald) Gildenhuis & Klopper, *Phytotaxa* 265(1): 22, 2016. Basionym: *Haworthia* ×*tauteae*.
- Haworthiopsis tessellata** var. **crousi** (M. Hayashi) Gildenhuis & Klopper, *Phytotaxa* 265(1): 15, 2016. Basionym: *Haworthia crousi*. [Sphalm. ‘craussii’. Published 9. June 2016 according to the journal homepage. Repeated by Breuer, *Alsterworthia* Int. 16(2): 7, 25. June 2016 (distribution date according to the cover, received at ZSS 19. July 2016).]
- Haworthiopsis** ×**tortella** (Haworth) Gildenhuis & Klopper, *Phytotaxa* 265(1): 22, 2016. Basionym: *Haworthia* ×*tortella*.
- Haworthiopsis** ×**tortuosa** (Haworth) Gildenhuis & Klopper, *Phytotaxa* 265(1): 22, 2016. Basionym: *Aloe* ×*tortuosa*.
- Haworthiopsis venosa** var. **woolleyi** (von Poellnitz) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia woolleyi*.
- Haworthiopsis viscosa** var. **asperiuscula** (Haworth) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia asperiuscula*.
- Haworthiopsis viscosa** var. **beanii** (G. G. Smith) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia beanii*.
- Haworthiopsis viscosa** var. **variabilis** (Breuer) Gildenhuis & Klopper, *Phytotaxa* 265(1): 19, 2016. Basionym: *Haworthia viscosa* var. *variabilis*.

- Tulista marginata** var. **mortonii** (Breuer) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia mortonii*.
- Tulista minima** var. **poellnitziana** (Uitewaal) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia poellnitziana*.
- Tulista opalina** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia opalina*.
- Tulista opalina** var. **zenigata** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia zenigata*.
- Tulista pumila** var. **ohkuwae** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia ohkuwae*. [Epithet of the basionym sphalm. 'ohkuwae'.]
- Tulista pumila** var. **sparsa** (M. Hayashi) Breuer, *Alsterworthia* Int. 16(2): 7, 2016. Basionym: *Haworthia sparsa*.

BALSAMINACEAE

- Impatiens** Sect. **Semeiocardium** (Zollinger) S. X. Yu & Wei Wang, *Cladistics* 32: 191, 2016. Basionym: *Semeiocardium*.
- Impatiens** Sect. **Tuberosae** S. X. Yu & Wei Wang, *Cladistics* 32: 191, 2016. Typus: *Impatiens tinctoria* A. Richard.

CACTACEAE

- Acanthocereus hesperius** D. R. Hunt, *Cactaceae Syst. Init.* 34: 9, 2016. Typus: *Bravo* 91 (MEXU 72916). [*Nom. nov. pro Peniocereus occidentalis* Bravo 1963 (*non Acanthocereus occidentalis* Britton & Rose 1920).]
- Airampoa soehrensii** (Britton & Rose) Lodé, *Cact.-Avent. Int.* 111-112: 67, 2016. Incorrect name (ICN Art. 11.4), based on *Opuntia soehrensii*. [Correctness depends on the validity of the genus name.]
- Andinopuntia floccosa** ssp. **yanganicensis** (Rauh & Backeberg) Guiggi, *Cactology* 5(Suppl. 2): 1, 2016. Basionym: *Tephrocactus yanganicensis*.
- Andinopuntia lagopus** ssp. **septentrionalis** Guiggi, *Cactology* 5(Suppl. 2): 1, 2016. *Ritter* 152 loc. 1 (SGO).
- Austrocactus pauxillus** E. Sarnes & N. Sarnes, *Kakt. and. Sukk.* 67(6): 154, ills. (pp. 150-153), 2016. Typus: *Anonymus* s.n. (MERL 21658).
- Aylostera malochii** (Slaba & Lad. Fischer) Ritz, *Pl. Syst. Evol.* 302(7): 777, 2016. Basionym: *Rebutia malochii*.
- Bolivihanburya** Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 28, 2016. Typus: *Hariota boliviana* Britton ex Rusby.
- Bolivihanburya asuntapatensis** (M. Kessler & al.) Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 71, 2016. Basionym: *Lepismium asuntapatense*.
- Bolivihanburya boliviana** (Britton) Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 28, 2016. Basionym: *Hariota boliviana*.
- Bolivihanburya paranganiensis** (Cárdenas) Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 29, 2016. Basionym: *Acanthorhipsis paranganiensis*.
- Borzicactella serpens** ssp. **erecta** (G. Charles) Guiggi, *Cactology* 5(Suppl. 2): 1, 2016. Basionym: *Borzicactus longiserpens* ssp. *erectus*.
- Borzicactus sepium** ssp. **leonensis** (Madsen) Guiggi, *Cactology* 5(Suppl. 2): 5, 2016. Basionym: *Cleistocactus leonensis*.
- Calymmanthium substerile** ssp. **fertile** (F. Ritter) Guiggi, *Cactology* 5(Suppl. 2): 1, 2016. Basionym: *Calymmanthium fertile*.
- ×*Chamaewintera* B. Armbruster, *Hybriden-J.* 2017(2): 15, 2017. *Nom. inval.* (ICN Art. 36.1b). [Arguably invalid since the name is published in the form of a "suggestion for a trivial name" [translated], and in addition, the second parent genus is an illegitimate name.]= *Chamaecereus* × *Hildewintera*.]
- Cleistocactus samaipatanus** ssp. **divimiseratus** (Cárdenas) M. Lowry, *Bradleya* 34: 171, ills. (p. 172), 2016. Basionym: *Bolivocereus samaipatanus* var. *divi-miseratus*.
- Copiapoa corralensis** I. Schaub & Keim, *Cact. Explorer* 16: 48-51, ills. (pp. 46-52), 2016. Typus: *Keim & Schaub* s.n. (SGO 166364). [18. June 2016 fide IPNI (accessed Feb. 2017). Almost concurrently published in *Cactus & Co.* 20(1): 23-26, ills. (pp. 17-27), 2016 (received 30. July 2016, but published

in "June" fide IPNI.]

- Copiapoa fusca** I. Schaub & Keim, *Cact. Explorer* 16: 42-46, ills., 2016. Typus: *Schaub & Keim* s.n. (SGO 166363). [18. June 2016 fide IPNI (accessed Feb. 2017). Almost concurrently published in *Cactus & Co.* 20(1): 33-36, ills. (pp. 30-38), 2016 (received 30. July 2017 but published in "June" fide IPNI.)]
- Copiapoa humilis** ssp. **matancillensis** I. Schaub & Keim, *Cactus & Co.* 20(1): 15, ills. (pp. 8-17), 2016. Typus: *Keim & Schaub* s.n. (SGO 166365).
- Corynopuntia densispina** (Ralston & Hilsenbeck) Fenstermacher, *Phytoneuron* 2016(1): 24, 2016. Basionym: *Opuntia densispina*.
- Cylindropuntia xanasaziensis* D. J. Barnett & D. Barnett, *Cactus Colorado*, 251-252, ills. (pp. 247-260), 2016. Based on Barnett & Barnett jr. 38023. Incorrect name (ICN Art. H4.1). [= *Cylindropuntia imbricata* × *C. whipplei*. Acknowledged to be based on the same parent combination as *C. xviridiflora* by the authors (and this name has priority), but it is described as distinct because of "several physical and floral characters".]
- Disocactus fariae-peresii** P. J. Braun, *Kakt. and. Sukk.* 67(2): 34, ills. (pp. 33-39), 2016. Typus: *Faria & Peres* s.n. (UB).
- Disocactus anguliger** (Lemaire) M. Á. Cruz & S. Arias, *Willdenowia* 46(1): 157, 2016. Basionym: *Phyllocactus anguliger*.
- Disocactus crenatus** (Lindley) M. Á. Cruz & S. Arias, *Willdenowia* 46(1): 157, 2016. Basionym: *Cereus crenatus*.
- Disocactus crenatus** ssp. **kimmachii** (Bravo ex Kimmach) M. Á. Cruz & S. Arias, *Willdenowia* 46(1): 157, 2016. Basionym: *Epiphyllum crenatum* var. *kimmachii*.
- Disocactus lepidocarpus** (F. A. C. Weber) M. Á. Cruz & S. Arias, *Willdenowia* 46: 157, 2016. Basionym: *Phyllocactus lepidocarpus*.
- Disocactus speciosus** ssp. **heterodoxus** (Standley & Steyermark) M. Á. Cruz & S. Arias, *Willdenowia* 46: 158, 2016. Basionym: *Heliocereus heterodoxus*.
- Echinocereus enneacanthus** ssp. **intermedius** (W. O. Moore) Blum & Mich. Lange, *Echinocereenfreund* 29(3): 106, 2016. Basionym: *Echinocereus enneacanthus* fa. *intermedius*.
- Echinocereus relictus** Wellard, *J. Bot. Res. Inst. Texas* 10(2): 354, ills., 2016. Typus: *Wellard & Wellard* 578 (UT, ASU).
- Echinocereus scheeri** ssp. **chaletii** (W. Rischer) N. P. Taylor, *Cactaceae Syst. Init.* 34: 12, 2016. Basionym: *Echinocereus chaletii*.
- ×**Echinopsis hungarica** (Földi) Ficzere, *Debreceni Pozsgás-Tár* 19(3): 15-16, 2016. Basionym: *Cereus xhungaricus*. [Sphalm. 'hungaricus'. The name is discussed on p. 16 with reference to the earlier invalid publication, but there is a full reference to the replaced basionym on the same page, which validates the combination. First published invalidly (ICN Art. 32.4, as *nom. nov.* but without diagnosis or full reference to the replaced name) *l.c.* 18(2): 6, 2015.]
- Echinopsis sandiensis** Hoxey, *Bradleya* 34: 195-198, ills., 2016. Typus: *Hoxey & Brunt* 722.01 (HUSA).
- ×*Echinowintera* B. Armbruster, *Hybriden-J.* 2017(2): 15, 2017. *Nom. inval.* (ICN Art. 36.1b). [Arguably invalid since the name is published in the form of a "suggestion for a trivial name" [translated], and in addition, the second parent genus is an illegitimate name. [= *Echinopsis* × *Hildewintera*.]
- Escobaria abdita** ssp. **tenuispina** Perez Badillo & al., *Piante Grasse* 36(4): 9, 13, ills. (pp. 3-13), 2016. Typus: *Hinton* 29727 (GBH). [Dated Dec. 2016, received at ZSS 19. Jan. 2017, but published Dec. 2016 fide IPNI (accessed Aug. 2017).]
- Espostoa calva** ssp. **utubambensis** (G. Charles) Ostolaza ex Guiggi, *Cactology* 5(Suppl. 2): 1, 2016. Basionym: *Espostoa utubambensis*. [First published invalidly (ICN Art. 41.5) by Ostolaza, *Todos Cact. Perú.* 278, 2014 (cf. RPS 65).]
- Espostoa lanata** fa. **roseiflora** (Madsen & Z. Aguirre) Guiggi, *Cactology* 5(Suppl. 2): 5, 2016. Basionym: *Espostoa lanata* ssp. *roseiflora*.
- Espostoa lanata** ssp. **frutescens** (Madsen) Guiggi, *Cactology* 5(Suppl. 2): 5, 2016. Basionym: *Espostoa frutescens*.
- Fraileae** Chéron, *Cact.-Avent. Int.* 111-112: 55, 2016. Typus: *Frailea* Britton & Rose.
- Gymnocalycium achirasense** ssp. **chacrasense** (Neuhuber) Gapon & Neuhuber, *Cact. Explorer* 15: 72, ills., 2016. Basionym: *Gymnocalycium monvillei* var. *chacrasense*.

- Gymnocalycium bruchii** ssp. **deminii** Gapon & Neuhuber, *Cacti Year-Round* 2016(2): 6, ills. (pp. 5-13), 2016. Typus: *Gapon* 11-1176 (WU). [E-published.]
- Gymnocalycium friedrichii** ssp. **stenopleurum** (F. Ritter) Schädlich, *Schütziana* 7(3): 25, ills. (pp. 15-16), 2016. Basionym: *Gymnocalycium stenopleurum*.
- Gymnocalycium friedrichii** var. **angustostriatum** Pazout ex Milt, *Cactaceae* etc. 26(2): 61, ills. (pp. 61-63), 2016. Typus: *Anonymus* s.n. (OLM 171.482) [Holotype erroneously cited as "neotyp"]. [This trinomial was also invalidly published by Pazout in 1964 as combination for the invalid *G. mihanovichii* var. *angustostriatum* Pazout 1962.]
- Gymnocalycium ilseae** F. Berger, *Gymnocalycium* 29(4): 1214-1215, ills. (pp. 1213-1216), 2016. Typus: *Zecher* 1031 (CORD).
- Gymnocalycium kulhanekii** Papsch, *Schütziana* 7(2): 6-7, ills. (pp. 6-13), 2016. Typus: *Papsch* 04-442/859 (CORD, TO).
- Gymnocalycium megatae** var. **che-guevarai** Milt, *Cactaceae* etc. 26(3): 116-118, ills. (pp. 115-118), 2016. Typus: *Unger* 2269 (OLM 171.481).
- Gymnocalycium mihanovichii** var. **albiflorum** Pazout ex Milt, *Cactaceae* etc. 26: 65, ills. (pp. 64-66), 2016. Typus: *Anonymus* (*WO* 83?) s.n. (OLM 171.783) [Holotype erroneously indicated as "neotyp"]. [First published invalidly (ICN Art. 8.1, type assumed to be a living specimen since cited for the Botanical Garden Prag) by Pazout in *Friciana* 17: 5, 1963, but erroneously indicated as validly published in RPS 14.]
- Gymnocalycium orientale** (Neuhuber) Neuhuber, *Cact. Explorer* 15: 70, ills., 2016. Basionym: *Gymnocalycium monvillei* var. *orientale*.
- Gymnocalycium orientale** var. **viklovii** Gapon & Neuhuber, *Cact. Explorer* 15: 72, ills., 2016. Typus: *Gapon* 07-476 (CORD, WU).
- Gymnocalycium pinalii** Meregalli & Kulhánek, *Schütziana* 7(1): 4-8, ills., 2016. Typus: *Piñal & Sande* 50 (TO-HG). [Sphalm. 'pinali'.]
- Harrisia cubensis** (Zuccarini ex Seitz) Greuter & R. Rankin, *Espermat. Cuba Invent. Prelim.*, xii, 2016. Basionym: *Cereus cubensis*.
- Lobivia haematantha* fa. *stenopetala* Eb. Scholz, *Echinopseen* 13(1): 45, ills., 2016. *Nom. inval.* (ICN Art. 39.2, 40.1). [Name used casually in the caption of an illustration of a plant with abnormally narrow perianth elements.]
- Lobivia kuehnrchii* fa. *stenopetala* Wittau, *Echinopseen* 13(1): 43, ill., 2016. *Nom. inval.* (ICN Art. 39.2, 40.1). [Name used casually in the caption of an illustration of a plant with abnormally narrow perianth elements.]
- Lobivia schreiteri* fa. *stenopetala* Eb. Scholz, *Echinopseen* 13(1): 46, ill., 2016. *Nom. inval.* (ICN Art. 39.2, 40.1). [Name used casually in the caption of an illustration of a plant with abnormally narrow perianth elements.]
- Mammillaria rischeri** Wolfg. Krüger, *Mittellungsbl. Arbeitskreises Mammillarienfr.* 40(2): 123-125, ills. (pp. 122-128), 2016. Typus: *Rischer* 120 (UAT).
- Mariottia** Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 42, 2016. Typus: *Cereus goebelianus* Vaupel.
- Mariottia goebeliana** (Vaupel) Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 42, 2016. Basionym: *Cereus goebelianus*.
- Matucana klopfensteinii** Cieza & Pino, *Quepo* 29: 7-11, ills., 2016. Typus: *RRP* 1279 (USM). [Dated 2014 on the cover, publ. Dec. 2015 according to p. 2, but only received at ZSS 22. Feb. 2016. Publication repeated in *Cact. Advent. Int.* 111-112: 4-6, ills., 2016, with a note that the original publication contained an error.]
- ×*Matuwintera* B. Armbruster, *Hybriden-J.* 2017(2): 16, 2017. *Nom. inval.* (ICN Art. 36.1b). [Arguably invalid since the name is published in the form of a "suggestion for a trivial name" [p. 15, translated], and in addition, the second parent genus is an illegitimate name.] [= *Matucana* × *Hildewintera*.]
- Melocactus salvadorensis** ssp. **oliveirae** P. J. Braun, *Kakt. and. Sukk.* 67(7): 181, ills. (pp. 179-182), 2016. Typus: *Oliveira* s.n. (UB).
- Morawetzia doelziana** ssp. **calva** (Rauh & Backeberg) Guiggi, *Cactology* 5(Suppl. 2): 2, 2016. Basionym: *Morawetzia doelziana* var. *calva*.

- Morawetzia doelziana** ssp. **sericata** (F. Ritter) Guiggi, Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard., 43, 2016. Basionym: *Morawetzia sericata*.
- Opuntia** Ser. **Chacopuntiae** Oakley & R. Kiesling, *Haseltonia* 22: 27, 2016. Typus: *Opuntia quimilo* K. Schumann 1898.
- Opuntia** ×**coloradensis** D. J. Barnett & D. Barnett, *Cactus Colorado*, 201-202, 207, ills. (pp. 201-208), 2016. Typus: *Barnett & Barnett jr.* s.n. (BRY) [Holotype deposition herbarium given l.c. 207, lines 3-5.]. [= *Opuntia fragilis* × *O. polyacantha* var. *hystricina*.]
- Parodia dorana** Diers & Jucker, *Succulenta* (Netherlands) 95(3): 117, ills. (pp. 117-123), 2016. Typus: *Jucker* 1209 (LPB, WU).
- Peniocereus haackeanus** Backeberg ex Lodé, *Cact.-Avent. Int.* 111-112: 66, 2016. Typus: ZSS 540, MGC 84079 [status?] [Holotype ex cult. ZSS, probably representing original Backeberg material; clonotype status for the MGC specimen not established beyond doubt and status therefore unclear.]. [First published invalidly (ICBN Art. 8.4) in Backeberg, *Descr. Cact. Nov.* 3: 12, 1963 (and erroneously included as valid in RPS 14).]
- Pterocactus neuquensis** R. Kiesling & al., *Kakt. and. Sukk.* 67(9): 240, ills. (pp. 239-243), 2016. Typus: *Nyffeler & Eggli* 344 (MERL, B, COR, ZSS).
- ×**Pygmaeowintera** B. Armbruster, *Hybriden-J.* 2017(2): 16, 2017. *Nom. inval.* (ICN Art. 36.1b). [Arguably invalid since the name is published in the form of a "suggestion for a trivial name" [p. 15, translated], and in addition, the second parent genus is an illegitimate name.] [= *Pygmaeocereus* × *Hildewintera*.]
- Rebutia australis** Mottram & Gapon, *Cact. Explorer* 16: 38, ills. (pp. 36-39), 2016. Typus: *Gapon* 10-641 (WU).
- Rebutia einsteinii** ssp. **euanthema** (Backeberg) Slaba, *Kaktusy (Brno)* 52(2): 54, ills. (pp. 53-54), 2016. Basionym: *Lobivia euanthema*.
- Rhipsalis barthlottii** Ralf Bauer & N. Korotkova, *Kakt. and. Sukk.* 67(11): 282, ills. (pp. 281-285), 2016. Typus: *Barthlott* s.n. in *Rauh* 35831 (B, B).
- Rhodocactus bahiensis** (Gürke) I. Asai & K. Miyata, *J. Jap. Bot.* 91(1): 9, 2016. Basionym: *Pereskia bahiensis*.
- Rhodocactus grandifolius** ssp. **violaceus** (Leuenberger) I. Asai & K. Miyata, *J. Jap. Bot.* 91(1): 9, 2016. Basionym: *Pereskia grandifolia* var. *violacea*.
- Rhodocactus nemorosus** (Rojas Acosta) I. Asai & K. Miyata, *J. Jap. Bot.* 91(1): 9, 2016. Basionym: *Pereskia nemorosa*.
- Rhodocactus stananthus** (F. Ritter) I. Asai & K. Miyata, *J. Jap. Bot.* 91(1): 10, 2016. Basionym: *Pereskia stanantha*.
- Schlumbergera** ×**graeseri** (Barthlott ex D. R. Hunt) D. R. Hunt, *Cactaceae Syst. Init.* 34: 19, 2016. Basionym: *Hattoria* ×*graeseri*. [First published invalidly (ICN Art. 36.1b, cf. RPS 63) by Solti & Calvente (*Kakt. Vilag* 36(1): 23, 2012), based on ×*Rhipsalis phyllopsis graeseri* Werdermann, which was an invalid provisional name only.]
- Sclerocactus johnsonii** ssp. **acunensis** (W. T. Marschall) M. A. Baker & J. M. Porter, in Quinn (ed.), *Endang. Spec. Threats. Conserv.*, 48, 2016. Basionym: *Echinomastus acunensis*. [Cited from IPNI, accessed March 2018.]
- Sclerocactus johnsonii** ssp. **erectocentrus** (J. M. Coulter) M. A. Baker, in Quinn (ed.), *Endang. Spec. Threats. Conserv.*, 49, 2016. Basionym: *Echinocactus erectocentrus*. [Cited from IPNI, accessed March 2018.]
- ×**Seleniphylllum bauericardium** E. Meier & Mangelsdorff, *EPIG* 76: 11, ills. (pp. 1, 10), 2016. *Nom. inval.* (ICN Art. H10.1). [= *Epiphylllum baueri* × *Selenicereus chrysocardius*. The epithet is to be considered as formula under ICN H10.2.]
- Sphaeropuntia sphaerica** ssp. **crassicylindrica** (Rauh & Backeberg) Guiggi, *Cactology* 5(Suppl. 2): 2, 2016. Basionym: *Tephrocactus crassicylindricus*.
- Sphaeropuntia sphaerica** ssp. **tumida** (F. Ritter) Guiggi, *Cactology* 5(Suppl. 2): 2, 2016. Basionym: *Cumulopuntia tumida*.
- Strophocactus krammii* Kramm, *Quepo* 30: 27-33, ills., 2016. Based on *Kramm* 12-01. *Nom. inval.* (ICN Art. 38.1a).
- Sulcorebutia arenacea** var. **atroviridis** Gertel & Jucker, *Echinopseen* 13(1): 3, ills. (pp. 2, 4), 2016. Typus: *Jucker* 1290a (LPB, WU).

Sulcorebutia cantargalloensis var. **torrepampensis** Gertel & Jucker, *Cact. Explorer* 15: 30, 2016. Typus: *de Vries & Zomeren 732* (LPB, WU). [Given as *comb. et nom. nov.*, and in fact *nom. nov. pro Sulcorebutia luteiflora* J. de Vries 2014.]

Sulcorebutia juckeri var. **australis** Gertel & Jucker, *Kakt. and. Sukk.* 67(12): 325, *ills.* (pp. 325-327), 2016. Typus: *Jucker 1210a* (LPB, WU).

Tephrocactus alexanderi ssp. **geometricus** (A. Castellanos) Guiggi, *Cactology* 5(Suppl. 3): 2, 2016. Basionym: *Opuntia geometrica*.

×*Trichowintera* B. Armbruster, *Hybriden-J.* 2017(2): 15, 2017. *Nom. inval.* (ICN Art. 36.1b). [Arguably invalid since the name is published in the form of a "suggestion for a trivial name" [translated], and in addition, the second parent genus is an illegitimate name.] [= *Trichocereus* × *Hildewintera*.]

Turbincarpus nikolae Snicer & al., *Kakt. and. Sukk.* 67(10): 268, *ills.* (pp. 267-271), 2016. Typus: *Anonymus* s.n. (PRC 455404).

Turbincarpus schmiedickeanus ssp. *stanikii* Niesel, *Turbi-Now* 28: 32-37, *ills.*, 2016. *Nom. inval.* (ICN Art. 36.1b). [Published as provisional name.]

Weingartia neocumingii var. **minor** K. Augustin, *Gymnocalycium* 29(2): 1203, *ills.* (pp. 1201-1204), 2016. Typus: *Augustin 90* (LBP, WU).

Wittiocactus panamensis ssp. **chocoensis** (Ralf Bauer) Guiggi, *Iconogr. Cat. Cact. Cult. Hanbury Bot. Gard.*, 60, 2016. Basionym: *Pseudorhipsalis amazonica* ssp. *chocoensis*.

COMMELINACEAE

Tradescantia schwirkowskiana Funez & al., *Phytotaxa* 272(1): 64, 2016. Typus: *Funez & Schwirkowski 5037* (FURB 50791, C, HURB).

CORBICHONIACEAE

Corbichoniaceae Thulin, *Taxon* 65(4): 790, 2016. Typus: *Corbichonia* Scopoli.

CRASSULACEAE

Chaloupkaea Niederle, *Skalníckárúv Rok* 73: 16-17, 2016. Typus: *Umbilicus chrysanthus* Boissier & Heldreich ex Boissier. [*Nom. nov. pro Rosularia* Sect. *Chrysanthae* Egglí 1988.]

Chaloupkaea aizoon (Fenzl) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Umbilicus aizoon*.

Chaloupkaea bonorum-hominum (Niederle) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Rosularia bonorum-hominum*.

Chaloupkaea chrysantha (Boissier & Heldreich) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Umbilicus chrysanthus*.

Chaloupkaea chrysantha ssp. **uludaghensis** (Kaynak & al.) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Prometheum chrysanthum* ssp. *uludaghense*.

Chaloupkaea gigantea (Egglí) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Rosularia serpentinica* var. *gigantea*.

Chaloupkaea muratdaghensis (Kit Tan) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Rosularia muratdaghensis*.

Chaloupkaea pisidica (Niederle) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Rosularia pisidica*.

Chaloupkaea rechingeri (C. A. Jansson) Niederle, *Skalníckárúv Rok* 73: 17, 2016. Basionym: *Rosularia rechingeri*.

Chaloupkaea serpentinica (Werdermann) Niederle, *Skalníckárúv Rok* 73: 18, 2016. Basionym: *Umbilicus serpentinicus*.

Cotyledon ascendens van Jaarsveld & Egglí, *Bradleya* 34: 142, 2016. Based on van Jaarsveld & Gildenhuys 11273. *Nom. illeg.* (ICN Art. 53.1). [*Nom. nov. (et illeg.) pro Cotyledon lutea* van Jaarsveld 2015 (*non Cotyledon lutea* Hudson 1778, *nec non Cotyledon ascendens* R. A. Dyer 1949). Validly renamed *Cotyledon xanthantha* van Jaarsveld & Egglí 2017.]

Crassula werneri N. Jacobsen, *Aloe* 52(2): 40-42, *ills.*, 2016. Typus: *Jacobsen 6855* (SCHG).

- Dudleya hendrixii** S. McCabe & Dodero, *Madroño* 63(4): 359-360, ill. (pp. 360-361, 363), 2016. Typus: *Dodero* s.n. (SD, BCMEX, RSA, SBBG, UC).
- Echeveria coruana** I. García & al., *PhytoKeys* 75: 3-7, ill., 2016. Typus: *García & García* 9138 (CIMI, DAO, ENCB, IEB, MEXU, MICH, WLU).
- Echeveria pistioides** I. García & al., *Syst. Bot.* 41(4): 966-968, ill., 2016. Typus: *García & Torres* 9136 (CIMI, DAO, ENCB, IEB, MEXU, MICH).
- Kalanchoe winteri** G. F. Smith & al., *Bradleya* 34: 218-220, ill., 2016. Typus: *Winter* 4430 (PRE, BNRH, PRU).
- Petrosedum xhegnaueri** ('t Hart) *Afferni ex Niederle*, *Skalníckárúv Rok* 74: 33, 2016. Basionym: *Sedum xhegnaueri*. [First published invalidly (ICN Art. 41.5) by *Afferni*, *Sedum Soc. Newslett.* 113: 88, 2015 (cf. RPS 66).]
- Petrosedum xhommelsii** ('t Hart) *Niederle*, *Skalníckárúv Rok* 74: 33, 2016. Basionym: *Sedum xhommelsii*.
- Petrosedum xlorenzoii** ('t Hart) *Afferni ex Niederle*, *Skalníckárúv Rok* 74: 33, 2016. Basionym: *Sedum xlorenzoii*. [First published invalidly (ICN Art. 41.5) by *Afferni*, *Sedum Soc. Newslett.* 113: 88, 2015 (cf. RPS 66).]
- Petrosedum monteferraticum** *Niederle*, *Skalníckárúv Rok* 74: 32-33, 2016. Typus: *Niederle* s.n. (BRNU 644793) [Type ex cult. Hort. *Niederle*, 21. 6. 2016.].
- Petrosedum ochroleucum** ssp. **mediterraneum** (L. Gallo) *Niederle*, *Skalníckárúv Rok* 74: 33, 2016. Basionym: *Sedum ochroleucum* ssp. *mediterraneum*.
- Phedimus latiovalifolius** (Y. N. Lee) D. C. Son & H. J. Kim, *Phytotaxa* 278: 294, ill. (p. 295), 2016. Basionym: *Sedum latiovalifolium*. [Sphalm. 'latiovalifolium'.]
- Rhodiola sedoides** Lidén & Bharali, *Ann. Bot. Fenn.* 53(1-2): 106-107, ill., 2016. Typus: *Bharali & Lidén* 69 (CAL).
- Sedum baicalense** (Peschkova) *Stepanov*, *Vasc. Pl. Yenisey Sayan*, 112, 2016. Basionym: *Sedum aizoon* ssp. *baicalense*. [Cited from IPNI; accessed March 2018.]
- Sedum xelaverinum** L. Gallo & J.-M. Tison, *J. Bot. Soc. Bot. France* 74: 37, 2016. Typus: *Tison* s.n. (TO). [= *Sedum amplexicaule* × *S. rupestre*.]

Sedum eriocarpum ssp. **cycladicum** Kit Tan & Polymenakos, *Phytol. Balcan.* 22(1): 101-102, ill., 2016. Typus: *Franzén & Andersson* 1021 (LD).

Sedum keniense Y. D. Zhou & al., *Phytotaxa* 261(2): 180-182, ill., 2016. Typus: *SAJIT* 002822 (HIB, EA, PE).

Sedum pyriseminum Pérez-Calix, *Phytotaxa* 255(3): 298-299, ill., 2016. Typus: *Pérez-Calix* 5268 (IEB, CIIDIR, MEXU).

Tylecodon florentii van Jaarsveld, *Bradleya* 34: 239, ill. (p. 238), 2016. Typus: *van Jaarsveld & Smith* 26251 (NBG).

CUCURBITACEAE

Zehneria subcoriacea Y. D. Zhou & Q. F. Wang, *Phytotaxa* 277(3): 282-284, ill., 2016. Typus: *Zhou & Mbuni* 16/3 (HIB, EA, PE).

EUPHORBIACEAE

Euphorbia ambonaivoensis *Rebmann*, *Cact. Succ.* 8(2): 34, ill. (pp. 32, 34), 2016. Typus: *Rebmann* 828 (TAN).

Euphorbia boiteaui var. **ampanihyensis** (Creemers) J.-P. Castillon & J.-B. Castillon, *Candollea* 71(1): 156, 2016. Basionym: *Euphorbia decaryi* var. *ampanihyensis*.

Euphorbia boiteaui var. **spirosticha** (Rauh & Buchloh) J.-P. Castillon & J.-B. Castillon, *Candollea* 71(1): 156, 2016. Basionym: *Euphorbia decaryi* var. *spirosticha*.

Euphorbia decaryi var. **crassicaulis** (Rauh) J.-P. Castillon & J.-B. Castillon, *Candollea* 71(1): 153, 2016. Basionym: *Euphorbia francoisii* var. *crassicaulis*.

Euphorbia gokakensis S. R. Yadav & al., *Nordic J. Bot.* 34(3): 380-383, ill., 2016. Typus: *NVM* 3433 (CAL, BSI, K, SUK).

Euphorbia helenae *Rebmann*, *Cact. Succ.* 8(2): 35, ill. (pp. 33, 35), 2016. Based on *Rebmann* 829. *Nom. illeg.* (ICN Art. 53.1). [Non *Euphorbia helenae* *Urban* 1908.]

Euphorbia lorifolia (P. R. O. Bally) Malaisse, Fl. Upper Katanga Copperbelt, 180, 2016. *Nom. inval.* (ICN Art. 41.5), based on *Monadenium pseudoracemosum* var. *lorifolium*. [Cited from IPNI (accessed March 2018).]

Euphorbia milii ssp. *breonii* N. Rebmann, Cact. Succ. 8(1): 21-23, ills., 2016. Based on *Rebmann* 26. *Nom. inval.* (ICN Art. 40.6).

Euphorbia nadiæ Houyelle, Cact.-Avent. Int. 111-112: 12-17, ills., 2016. Typus: *Bar-dot-Vaucoulon* 1593 (P).

Euphorbia seshachalamensis K. Prasad & Prasanna, Ann. Bot. Fenn. 53(1-2): 73-75, ills., 2016. Typus: *Prasanna & al.* 004538 (BSID).

GERANIACEAE

Pelargonium arthriticum R. T. F. Clifton, Geraniaceae Group Assoc. Notes 82: 11, ills. (pp. 17, 20), 2016. Typus: *Lavranos & Pehlemann* 18119 (K) [The type at K is said to be "from 2 gathers", which is interpreted that it is derived from 2 individuals of the same collection, and that the material was prepared from cultivated plants and at one date.].

Pelargonium conradiae J. C. Manning & A. le Roux, S. African J. Bot. 105: 314-315, ills., 2016. Typus: *le Roux* 1150 (NBG, K).

Pelargonium obturbum P. Rees & R. T. F. Clifton, Geraniaceae Group Assoc. Notes 83: 5-7, ills., 2016. Typus: *Lavranos* 16964 (K) [Ex cult. RBG Kew 1978-3899, 11. 10. 1979.]. [Sphalm. 'obturbus'.]

Pelargonium omissum P. Rees & R. T. F. Clifton, Geraniaceae Group Assoc. Notes 83: 9-10, ills., 2016. Typus: *Collenette* 2480 (K) [Ex cult RBG Kew s.n., 1999. The 2 collections cited as isotypes (also K) are paratypes since they are from completely different collections (cf. p. 12).].

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Pelargonium vassarii W. Morris & R. T. F. Clifton, Geraniaceae Group Assoc. Notes 82: 8, 2016. Typus: *Morris* s.n. (K). [Sphalm. 'vassarii'. First published arguably

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