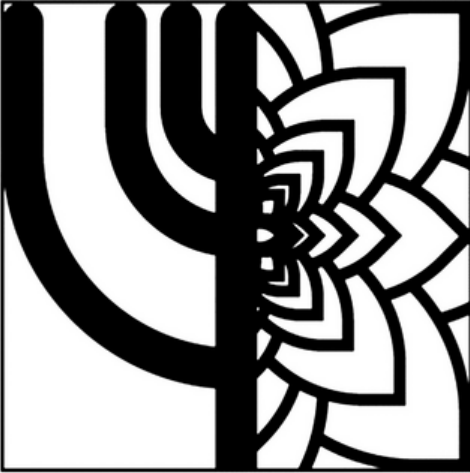


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International Organization
for Succulent Plant Study

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
LXIII (2012)**

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 LXIII (2012)

*Index nominum novarum plantarum succulentarum anno MMXII
editorum nec non bibliographia taxonomica ab U. Egli et R.
Nyffeler compositus.*

International Organization for Succulent Plant Study

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Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct.
- 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

The year reported on by this issue of RPS has again been a very prolific one, both for new names (466) and for literature references (527), both figures being far above the average of the past couple of years. 2012 has also been marked by the publication of the "International Code of Nomenclature for Algae, Fungi, and Plants" ("Melbourne Code"; ICN for short). The ICN includes all the changes to the ICBN accepted at the 2011 International Botanical Congress in Melbourne. Some of these changes have a profound impact on botanical nomenclature – the most important changes being the abolishment of the requirement for a Latin diagnosis on the one hand, and to allow electronic (digital) publication of nomenclatural novelties on the other hand.

Evaluating the nomenclatural status of the names proposed during the year was severely delayed because the ICN was only published in December 2012, while the changes were in effect starting on 1. January 2012. Apart from the changes mentioned above, the editors of the new Code decided to rearrange and renumber the articles, deviating from the customary sequence, to hopefully arrive at a more logical presentation. The change in the numbering of many articles (tabulated in the new Code on pp. xxiii-xxviii) resulted in an additional burden for the compilation of the nomenclature section of this RPS. It was decided that it is not feasible to apply the changes in article numbering to all the existing database entries, and the ICBN numbering will be used for these, at least for the near future. For names published on or after 1. January 2012, the new ICN numbering will be used, however.

As already shortly discussed in the preface to RPS 62, the acceptance of digital-only publication for nomenclatural novelties will have a major impact on indexing services such as RPS. From the experience of the first year it is already clear that the intricacies of digital-only publication have not been considered to their full extent when the new rules were drafted. Apart from difficulties assessing the real date of publication (bear in mind that it is customary for many scientific journals to offer digital publication in advance of the printed version), compilers now have to check whether indicated dates of availability conform with the date information included in the metadata of the pdf documents, whether updated versions replaced original versions, and whether the document is downloadable as prescribed by ICN Art. 29.2.

Words of thanks are, as usual, due to Katherine Challis and her colleagues from the IPNI team for their continued advice in nomenclatural questions, as well as in questions of valid publication. Thanks go to all those authors that keep us as compilers informed about their publications in less-widely circulated journals. Roy Mottram has offered bibliographical and nomenclatural advice in several cases. As in previous years, Rainer Mailänder, Zürich, very kindly helped with literature from several more "general" biological journals. A special word of thanks is due to Maria Sánchez-Contreras, Dübendorf, Switzerland, who entered most of the bibliographic references into our database as part of volunteer work at the Sukkulenten-Sammlung Zürich.

New feature

Starting with this issue, we take full advantage of the possibilities of digital publication to embed links to external resources. For papers with a DOI or stable URL, a clickable link is included at the end of the bibliographical details, marked as "URL". By clicking on the symbol, the webpage with details of the paper, as supplied by the publisher or archive organization, should open automatically in your preferred browser. The DOI (digital object identifier) is a unique number allowing the unambiguous identification of a given paper. DOI's are frequently used by commercial publishers and major scientific journals, and they are an extremely handy way to link a reference to the electronic resource with the full details. Some archival organizations (most notably JSTOR) use a "stable URL" to unambiguously identify their archived papers, and this again is a simple way to facilitate access. We attempt to include DOI's or stable URL's when recorded in the papers evaluated for RPS, or when otherwise easily available. We are grateful for notification about errors or omissions.

Corrections to previous volumes

- The epithet of *Aloe knersvlakensis* was erroneously shown as 'knersvlaktensis' in RPS 62, silently assuming that the spelling in the protologue (although consistently used throughout the paper) is an error to be corrected. G. F. Smith (in *Bradleya* 29: 179-181, 2011) points out, however, that both "Knersvlakte" and "Knersvlak" are used interchangeably by Afrikaans-speaking people. A correction is thus not necessary.
- *Hoya ilagiorum* was reported as *Hoya ilagii* in RPS 62. The protologue has now become available for inspection, and the epithet, published as 'ilagii', is indeed to be corrected to 'ilagiorum'.
- *Salmiopuntia salmiana* was shown as new combination in RPS 62, published by A. Guiggi. Subsequent examination of the validity of the generic name *Salmiopuntia* Fric 1935, usually thought to be invalid, shows that it ought to be accepted as validly published by Fric under Art. 33.3 (ICBN 2006) as *nom. nov. pro Opuntia* ser. *Salmianae* Britton & Rose 1919. This makes Guiggi's combination *S. salmiana* superfluous, as Fric 1935 already validly published the combination.

NOMINA NOVA

AGAVACEAE

- Agave bulbulifera** (Castillejos & E. Solano) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda bulbulifera*.
- Agave caymanensis** Proctor, Fl. Cayman Islands, 183, 2012. Typus: *Proctor* 521171 (IJ).
- Agave duplicata** ssp. **pueblensis** (E. Solano & García-Mendoza) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Polianthes geminiflora* var. *pueblensis*.
- Agave justosierrana** (García-Mendoza) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda justosierrana*.
- Agave manatlanicola** Cuevas & Santana-Michel, *Brittonia* 64(3): 330-332, ill., 2012. Typus: *Cuevas & al.* 10065 (ZEA, IBUG, IEB, MEXU).
- Agave multicolor** (E. Solano & Dávila) Thiede, *Haseltonia* 17: 95, 2012. Basionym: *Polianthes multicolor*.
- Agave** ×**neokewensis** Thiede, *Haseltonia* 17: 95, 2012. [*Nom. nov. pro Bravoa ×kewensis* W. Watson 1899 (*non Agave kewensis* Jacobi 1866).]
- Agave oaxacana** (García-Mendoza & E. Solano) Thiede, *Haseltonia* 17: 95, 2012. Basionym: *Polianthes oaxacana*.
- Agave paniculata** (L. Hernández & al.) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda paniculata*.
- Agave parva** (Aaron Rodríguez) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda parva*.
- Agave petskinil** (R. A. Orellana & al.) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda petskinil*.
- Agave temacapulinensis** A. Vázquez & Cházaro, *Novon* 22(2): 236-237, ill., 2012. Typus: *Vázquez-García & Cházaro* 9092 (IBUG, MEXU, MICH, MO).
- Agave umbrophila** (García-Mendoza) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda umbrophila*.
- Agave verhoekiae** (García-Mendoza) Thiede, *Haseltonia* 17: 94, 2012. Basionym: *Manfreda verhoekiae*.
- Agave zapopanensis** (E. Solano & Ríos-Gómez) Thiede, *Haseltonia* 17: 95, 2012. Basionym: *Polianthes zapopanensis*.

AIZOACEAE

- Acrodon caespitosus** H. E. K. Hartmann, *Bradleya* 30: 51, ill. (pp. 34, 40, 44, 48), 2012. Typus: *Hartmann & Bayer* 34493 (HBG).
- Acrosanthes parviflora** J. C. Manning & Goldblatt, Pl. Greater Cape Florist. Region, 1: Core Cape Flora, 791-792, 2012. Typus: *Harrower* 1401 (NBG).
- Brianhuntleya purpureostyla** (L. Bolus) H. E. K. Hartmann, *Bradleya* 30: 57, 2012. Basionym: *Mesembryanthemum purpureostylum*.
- Brianhuntleya quarcicola** (H. E. K. Hartmann) H. E. K. Hartmann, *Bradleya* 30: 58, 2012. Basionym: *Acrodon quarcicola*.
- Cleretum booyensii** (L. Bolus) Klak, *Taxon* 61(2): 304, 2012. Basionym: *Dorotheanthus booyensii*.
- Cleretum bruynsii** Klak, *Haseltonia* 18: 30-31, ill. (pp. 28-29), 2012. Typus: *Klak* 2026 (BOL, NBG).
- Cleretum clavatum** (Haworth) Klak, *Taxon* 61(2): 304, 2012. Basionym: *Mesembryanthemum clavatum*.
- Cleretum hestermaleense** (Ihlenfeldt & Struck) Klak, *Taxon* 61(2): 304, 2012. Basionym: *Dorotheanthus bellidiformis* ssp. *hestermalensis*.
- Cleretum maughanii** (N. E. Brown) Klak, *Taxon* 61(2): 304, 2012. Basionym: *Pherolobus maughanii*.
- Cleretum patersonjonesii** Klak, *Haseltonia* 18: 31, 33, ill. (pp. 28-29, 32), 2012. Typus: *Klak* 2021 (BOL).
- Cleretum rourkei** (L. Bolus) Klak, *Taxon* 61(2): 304, 2012. Basionym: *Dorotheanthus rourkei*.
- Conophytum youngii** Rodgeron, *CactusWorld* 30(4): 243, ill. (pp. 239-244), 2012. Typus: *ADH* 4778 (NBG).
- Corpuscularia gracillima** (L. Bolus) Niederle, *Bothalia* 42(1): 49, 2012. Basionym: *Drosanthemum gracillimum*.
- Cryophytum longipapillosum** (Dinter) Gerbault, *Bradleya* 30: 197, 2012. Basionym: *Mesembryanthemum longipapillosum*.
- Cryophytum pellitum** (H.-C. Friedrich) Gerbault, *Bradleya* 30: 197, 2012. Basionym: *Mesembryanthemum pellitum*.

- Delosperma adamantinum** Niederle, Skalnickáruv Rok 66: 34, ill., 2012. Typus: *Holzbecher* s.n. (BRNU).
- Gibbaeum hartmannianum** Thiede & Niesler, Haseletonia 18: 38-40, ills., 2012. Typus: *Thiede & al.* 110200 (BOL).
- Lithops karasmontana** var. **immaculata** D. T. Cole, Cactus & Co. 16(1): 10-12, ills., 2012. Typus: *Cole* 417 (PRE).
- Malotigena** Niederle, Skalnickáruv Rok 65: 35, 2012. Typus: *Malotigena frantiskae-niederlovae* Niederle. [The validity of the name depends on the validity of the name of the type species.]
- Malotigena frantiskae-niederlovae** Niederle, Skalnickáruv Rok 66: 35, ill., 2012. Typus: *Niederle* s.n. (BRNU) [Ex cult.]. [Validity somewhat doubtful, since the holotype statement includes the term "planta culta", and it is unclear whether this refers to the purported holotype itself, or whether it is an indication that the holotype was prepared from a cultivated plant.]
- Opophytum cryptanthum** (Hooker fil.) Gerbault, Bradleya 30: 197, 2012. Basionym: *Mesembryanthemum cryptanthum*.
- Opophytum hypertrophicum** (Dinter) Gerbault, Bradleya 30: 197, 2012. Basionym: *Mesembryanthemum hypertrophicum*.
- Phyllobolus bulletrapensis** (Klak) Gerbault, Bradleya 30: 197, 2012. Basionym: *Mesembryanthemum bulletrapense*.
- Phyllobolus knolfonteinensis** (Klak) Gerbault, Bradleya 30: 197, 2012. Basionym: *Mesembryanthemum knolfonteinense*.
- Tribulocarpus retusus** (Thulin) Thulin & Liede, Taxon 61(1): 63, ills., 2012. Basionym: *Tetragonia retusa*.
- Volkeranthus** Gerbault, Bradleya 30: 196, 2012. Typus: *Mesembryanthemum aitonis* Jacquin.
- Volkeranthus aitonis** (Jacquin) Gerbault, Bradleya 30: 196, 2012. Basionym: *Mesembryanthemum aitonis*.
- Volkeranthus longistylus** (De Candolle) Gerbault, Bradleya 30: 196, 2012. Basionym: *Mesembryanthemum longistylum*.

APOCYNACEAE

- Caralluma stalagmifera** var. **intermedia** Karuppusamy & Pullaiah, Rheedia 17(1-2): 45, fig. 3, 2007. Typus: *Karuppusamy* 26991 (SKU, MH). [Omitted previously.]
- Caralluma stalagmifera** var. **longipetala** Karuppusamy & Pullaiah, Rheedia 17(1-2): 42, fig. 2, 2007. Typus: *Karuppusamy* 27968 (SKU, MH). [Omitted previously.]
- Ceropegia concanensis** Kambale & al., Kew Bull. 67(4): 843-846, ills., 2012. Typus: *Kambale* 3130 (CAL, K, SUK).
- Ceropegia distincta** var. **brevirostris** (P. R. O. Bally & D. V. Field) Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 268, 2012. Basionym: *Ceropegia brevirostris*.
- Ceropegia distincta** var. **rostrata** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 268, 2012. Typus: *Faden & Faden* 74/494 (EA, K).
- Ceropegia filicorona** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 234, 2012. Typus: *Irwin* 339 (EA, K).
- Ceropegia mahabalei** var. **hemlatae** S. S. Rahangdale & S. R. Rahangdale, Indian Forester 138(2): 201, ill. (p. 203), 2012. Typus: *Rahangdale* s.n. (BSI). [Epithet variously spelled 'hemlatae' and 'hemalatae' fide IPNI, honouring Dr. Hemlata D. Sane of the Maharashtra Academy of Sciences.]
- Ceropegia pullaiahii** Raja Kullayiswamy & al., Nordic J. Bot. 31(2): 166, 2012. Typus: *Raja Kullayiswamy* 41845 (SKU, MH).
- Ceropegia racemosa** var. **tanganyikensis** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 263-264, 2012. Typus: *Brummitt & al.* 18161 (K).
- Ceropegia racemosa** var. **voiensis** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 264, 2012. Typus: *Archer* 402 (EA).
- Ceropegia rendallii** ssp. **mutongaensis** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 246-247, 2012. Typus: *Archer* 519 (EA).
- Ceropegia richardsiae** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 279-280, 2012. Typus: *Richards* 20127 (K).
- Ceropegia stenoloba** var. **schliebenii** (Markgraf) Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 242, 2012.

- Basionym: *Ceropegia schliebenii*.
- Ceropegia yampwapwa** Masinde, in Goyder & al., Fl. Trop. East Afr., Apocynaceae, part 2, 281-282, 2012. Typus: *Bidgood & al.* 961 (K).
- Cynanchum arabicum** (Bruyns & P. I. Forster) Meve & Liede, Kew Bull. 67(4): 752, 2012. Basionym: *Sarcostemma arabicum*.
- Cynanchum areysianum** (Bruyns) Meve & Liede, Kew Bull. 67(4): 752, 2012. Basionym: *Sarcostemma areysianum*.
- Cynanchum brevipedicellatum** (P. I. Forster) Liede & Meve, Kew Bull. 67(4): 752, 2012. Basionym: *Sarcostemma brevipedicellatum*.
- Cynanchum daltonii** (Decaisne) Liede & Meve, Kew Bull. 67(4): 752, 2012. Basionym: *Sarcostemma daltonii*.
- Cynanchum forskaolianum** (Schultes) Meve & Liede, Kew Bull. 67(4): 752-753, 2012. Basionym: *Sarcostemma forskaolianum*.
- Cynanchum mulanjense** (Liede & Meve) Liede & Meve, Kew Bull. 67(4): 753, 2012. Basionym: *Sarcostemma mulanjense*.
- Cynanchum pearsonianum** Liede & Meve, Kew Bull. 67(4): 753, 2012. Typus: *Pearson* 8460 (K, BOL). [*Nom. nov. pro Sarcostemma pearsonii* N. E. Brown 1913 (*non Cynanchum pearsonii* N. E. Brown 1914).]
- Cynanchum sarcomedium** Meve & Liede, Kew Bull. 67(4): 753, 2012. Typus: *Wight* 1556 (P †?, G-DC). [*Nom. nov. pro Sarcostemma intermedium* Decaisne 1844 (*non Cynanchum intermedium* N. E. Brown 1908).]
- Cynanchum socotranum** (Lavranos) Meve & Liede, Kew Bull. 67(4): 753, 2012. Basionym: *Sarcostemma socotranum*.
- Cynanchum viminalis** ssp. **australe** (R. Brown) Meve & Liede, Kew Bull. 67(4): 754, 2012. Basionym: *Sarcostemma australe*.
- Cynanchum viminalis** ssp. **brunonianum** (Wight & Arnott) Meve & Liede, Kew Bull. 67(4): 754, 2012. Basionym: *Sarcostemma brunonianum*.
- Cynanchum viminalis** ssp. **orangeanum** (Liede & Meve) Liede & Meve, Kew Bull. 67(4): 754, 2012. Basionym: *Sarcostemma viminalis* ssp. *orangeanum*.
- Cynanchum viminalis** ssp. **stocksii** (Hooker *fil.*) Meve & Liede, Kew Bull. 67(4): 754, 2012. Basionym: *Sarcostemma stocksii*.
- Cynanchum viminalis** ssp. **thunbergii** (G. Don) Liede & Meve, Kew Bull. 67(4): 754, 2012. Basionym: *Sarcostemma thunbergii*.
- Cynanchum viminalis** ssp. **welwitschii** (Hiern) Liede & Meve, Kew Bull. 67(4): 754, 2012. Basionym: *Sarcostemma welwitschii*.
- Hoya albidia* Kloppenburg & al., Fraterna e-publication, 1-5, ills., 2012. Based on *Anonymus* s.n. in *CAHUP* 71808. *Nom. inval.* (ICN Art. 30.2 Note 1).
- Hoya alwitriana** Kloppenburg & al., Asklepios 114: 16-18, ills., 2012. Typus: *Purificacion* s.n. (CAHUP 71843).
- Hoya australis** ssp. **nathaliae** Kloppenburg & Siar, Asklepios 113: 27-28, ills., 2012. Typus: *Juhonewe* 2046 (CAHUP 69917).
- Hoya celata* Kloppenburg & al., Fraterna e-publication, 1-10, ills., 2012. Based on *Anonymus* s.n. in *CAHUP* 71810. *Nom. inval.* (ICN Art. 30.2 Note 1).
- Hoya chiekoae* Kloppenburg & al., Fraterna e-publication, 1-7, ills., 2012. Based on *Ferreras* 901. *Nom. inval.* (ICN Art. 30.2 Note 1).
- Hoya daimenglongensis** Shao Y. He & P. T. Li, *Novon* 22(2): 170-172, ills., 2012. Typus: *He* 09080216 (CANT, CANT).
- Hoya desvoeuxensis** T. Green & Kloppenburg, Asklepios 112: 21-22, ills., 2012. Typus: *Green* 6002 (BISH) [Ex cult. T. Green.]. [Volume for 2011, received at ZSS 19. 1. 2012.]
- Hoya estrellensis** T. Green & Kloppenburg, Asklepios 114: 20-22, ills., 2012. Typus: *Green* 93121 (BISH).
- Hoya lithophytica** Kidyoo, *Nordic J. Bot.* 30(6): 700-702, ills., 2012. Typus: *Kidyoo* 1500 (BCU, BKF, QSBG).
- Hoya lockii** V. T. Pham & Averyanov, *Taiwania* 57(1): 49, ills. (pp. 50-51), 2012. Typus: *Averyanov & al.* 3092 (CPC, LE, VNM).
- Hoya longipedunculata** V. T. Pham & Averyanov, *Nordic J. Bot.* 30(6): 705-708, ills., 2012. Typus: *Averyanov & al.* CPC3565 (HN, VNM, LE).
- Hoya mappigera** Rodda & Simonsson, *Feddes Repert.* 122: 2-4, ills., 2012. Typus: *Ridley* s.n. (SING).
- Hoya mirabilis** Kidyoo, *Trop. Nat. Hist.* 12(1): 21-24, ills., 2012. Typus: *Kidyoo* 1503 (BCU, BKF).

ASPHODELACEAE

- Hoya samarensis** Kloppenburg & Siar, *Asklepios* 113: 28-29, ills., 2012. Typus: *Visayas* & *Visayas* s.n. (PNH 7304).
- Hoya somadeeae** Rodda & Simonsson, *Nordic J. Bot.* 30(5): 581-582, ills. (pp. 579-580), 2012. Typus: *Rodda* s.n. (SING, BFK).
- Hoya thuathienhuensis** T. B. Tran & al., *Blumea* 57(3): 243-244, ills., 2012. Typus: *Rodda* LT10-056 (HN, K, SING). [Volume for 2012, print-version published 2013, digital pre-print available 27. 4. 2012 fide IPNI (as Rodda & al., *New Species Hoya Vietnam*, 2, fig. 2, 2012).]
- Hoya unruhiana* Kloppenburg & al., *Fraterna* e-publication, 1-8, ills., 2012. Based on *Anonymus* s.n. in *CAHUP* 71807. *Nom. inval.* (ICN Art. 30.2 Note 1).
- Hoya vangviengiensis** Rodda & Simonsson, *Webbia* 67(1): 24, ills. (p. 25), 2012. Typus: *Rodda & Simonsson* LT10-076 (SING).
- Huernia anagaynensis** Plowes, *Asklepios* 114: 7, ills. (p. 6), 2012. Typus: *Collenette* 5970 (K).
- Huernia asirensis** Plowes, *Asklepios* 114: 7, ills. (p. 6), 2012. Typus: *Collenette* 2655 (K, ZSS) [Isotype at ZSS not mentioned in the protologue.].
- Huernia collenetteae** Plowes, *Asklepios* 114: 8, ills., 2012. Typus: *Collenette* 1176 (SRGH, ZSS) [Isotype at ZSS not mentioned in the protologue.].
- Huernia decaloba* Plowes, *Asklepios* 114: 9, ill., 2012. Based on *Collenette* s.n.. *Nom. inval.* (ICN Art. 36.1b). [Published as provisional name.]
- Huernia foetida** Plowes, *Asklepios* 114: 9-10, ill., 2012. Typus: *Collenette* 3743 (K).
- Huernia radhwana** Plowes, *Asklepios* 114: 10, ills., 2012. Typus: *Collenette* 5944 (K).
- Huernia rubrostricta** Plowes, *Asklepios* 114: 11-12, ills., 2012. Typus: *Collenette* 1482 (K).
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- Aloe analavelonensis** Letsara & al., *Malagasy Nat.* 6: 47, ills. (pp. 48, 50), 2012. Typus: *Letsara & al.* 938 (TAN, CAS, K).
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- Aloe braamvanwykii** G. F. Smith & Figueiredo, *Bradleya* 30: 162-165, ills., 2012. Typus: *Smith & Figueiredo* 1 (PRE).
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- Aloe huntleyana** van Jaarsveld & Swanepoel, *Bradleya* 30: 3-6, ills., 2012. Typus: *van Jaarsveld & al.* 18805 (WIND).
- Aloe ikiorum** Dioli, *Cact. Succ. J. (Los Angeles)* 83(6): 271-274, ills., 2012. Typus: *Dioli* 116 (ABH, EA [photo], FT [photo]). [Volume for 2011, publ. 9. 1. 2012 [inside front cover].]
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- Aloe maculata** ssp. *ficksburgensis* (Reynolds) G. F. Smith & Figueiredo, *Bradleya* 30: 15, ills. (pp. 14, 16), 2012. Basionym: *Aloe saponaria* var. *ficksburgensis*.
- Aloe mandrarensis** J.-P. Castillon, *Cactus-World* 30(3): 168-169, ills., 2012. Typus: *Castillon* 55 (TAN).

- Aloe mocamedensis** van Jaarsveld, Bradleya 30: 173-177, ills., 2012. Typus: *van Jaarsveld 22622* (LUB).
- Aloe nugalensis** Thulin, Nordic J. Bot. 30: 729-730, ills., 2012. Typus: *Thulin & Warfa 5420A* (UPS, K).
- Aloe virginicae** J.-P. Castillon, CactusWorld 30(3): 164-165, ills., 2012. Typus: *Castillon 54* (TAN, TAN).
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- Haworthia maculata** var. **livida** (M. B. Bayer) M. B. Bayer, Haworthia Nomenclator, 10, 2012. Basionym: *Haworthia pubescens* var. *livida*. [Repeated in Alsterworthia Int. 13(1): 27, 2013.]
- Haworthia marumiana** var. **reddii** (C. L. Scott) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 34, 2012. Basionym: *Haworthia reddii*. [Republished in Alsterworthia Int. 12(1): 11, 5. 3. 2012.]
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- Haworthia retusa** var. **nigra** (M. B. Bayer) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia mutica* var. *nigra*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
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- Caputia medley-woodii** (Hutchinson) B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 62, 2012. Basionym: *Senecio medley-woodii*. [First used as invalid provisional name (ICBN Art. 34.1b) in *Amer. J. Bot.* 97(5): 867, 2012 (cf. RPS 61).]
- Caputia pyramidata** (De Candolle) B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 67, 2012. Basionym: *Senecio pyramidatus*.
- Caputia scaposa** (De Candolle) B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 66, 2012. Basionym: *Senecio scaposus*. [Used as invalid provisional name (ICBN Art. 34.1b) in *Amer. J. Bot.* 97(5): 867, 2010 (cf. RPS 61).]
- Caputia scaposa** var. **addoensis** (Compton) B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 67, 2012. Basionym: *Senecio addoensis*.
- Caputia scaposa** var. **caulescens** (Harvey) B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 67, 2012. Basionym: *Senecio scaposus* var. *caulescens*.
- Caputia tomentosa** (Haworth) B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 65, 2012. Basionym: *Kleinia tomentosa*.
- Crassothonna** B. Nordenstam, *Compositae Newslett.* 50: 71, 2012. Typus: *Cacalia cylindrica* Lamarck.
- Crassothonna alba** (Compton) B. Nordenstam, *Compositae Newslett.* 50: 72, 2012. Basionym: *Othonna alba*.
- Crassothonna calalioides** (Linné fil.) B. Nordenstam, *Compositae Newslett.* 50: 72, 2012. Basionym: *Cineraria calalioides*.
- Crassothonna capensis** (L. H. Bailey) B. Nordenstam, *Compositae Newslett.* 50: 72, 2012. Basionym: *Othonna capensis*.
- Crassothonna clavifolia** (Marloth) B. Nordenstam, *Compositae Newslett.* 50: 73, 2012. Basionym: *Othonna clavifolia*.
- Crassothonna cylindrica** (Lamarck) B. Nordenstam, *Compositae Newslett.* 50: 73, 2012. Basionym: *Cacalia cylindrica*.
- Crassothonna discoidea** (Oliver) B. Nordenstam, *Compositae Newslett.* 50: 73, 2012. Basionym: *Othonna carnososa* var. *discoidea*.
- Crassothonna floribunda** (Schlechter) B. Nordenstam, *Compositae Newslett.* 50: 73, 2012. Basionym: *Othonna floribunda*.
- Crassothonna opima** (Merxmüller) B. Nordenstam, *Compositae Newslett.* 50: 74, 2012. Basionym: *Othonna opima*.

- Crassothonna patula** (Schlechter) B. Nordenstam, *Compositae Newslett.* 50: 74, 2012. Basionym: *Othonna patula*.
- Crassothonna protecta** (Dinter) B. Nordenstam, *Compositae Newslett.* 50: 74, 2012. Basionym: *Othonna protecta*.
- Crassothonna rechingeri** (B. Nordenstam) B. Nordenstam, *Compositae Newslett.* 50: 75, 2012. Basionym: *Othonna rechingeri*.
- Crassothonna sparsiflora** (S. Moore) B. Nordenstam, *Compositae Newslett.* 50: 75, 2012. Basionym: *Euryops sparsiflora*.
- Osteospermum nordenstamii** J. C. Manning & Goldblatt, *Bothalia* 42(1): 62, ill. (figs. 3F-G, 5-6, pp. 63, 65), 2012. Typus: *Helme* 7342 (NBG).

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- Acanthocalycium leucanthum** (Salm-Dyck) Schlumpberger, *Cactaceae Syst. Init.* 28: 29, 2012. Basionym: *Echinocactus leucanthus*.
- Acanthocalycium rhodotrichum** (K. Schumann) Schlumpberger, *Cactaceae Syst. Init.* 28: 29, 2012. Basionym: *Echinopsis rhodotricha*.
- Acanthocephala graessneri** (K. Schumann) Guiggi, *Cactology* 3(Suppl. III): 1, 2012. Basionym: *Echinocactus graessneri*.
- Acanthocephala haselbergii** (Rümppler) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Echinocactus haselbergii*.
- Acanthocereus oaxacensis** (Britton & Rose) Lodé, *Cact.-Avent. Int.* 97: 2, 2012. Basionym: *Nyctocereus oaxacensis*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenbergeria*.]
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- Bolivicerus samaipatanus** ssp. **divimiseratus** (Cárdenas) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Bolivicerus samaipatanus* var. *divimiseratus*. [Sphalm. 'divi-miseratus'.]
- Borzicactus acanthurus** ssp. **faustianus** (Backeberg) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Borzicactus faustianus*.
- Borzicactus acanthurus** ssp. **pullatus** (Rauh & Backeberg) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Loxanthocereus pullatus*.
- Borzicactus colademononis** (Diers & Krahn) Lodé, *Cact.-Avent. Int.* 97: 2, 2012. Basionym: *Hildewintera colademononis*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenbergeria*.]
- Borzicactus fieldianus** ssp. **tessellatus** (Akers & Buining) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Borzicactus tessellatus*.
- Borzicactus hoffmannii** (G. Charles) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Cleistocactus hoffmannii*.
- Borzicactus hystrix** (Rauh & Backeberg) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Loxanthocereus hystrix*.
- Borzicactus icosagonus** ssp. **humboldtii** (Kunth) G. Charles, *Bradleya* 30: 101, ill. (p. 98), 2012. Basionym: *Cactus humboldtii*.
- Borzicactus icosagonus** ssp. **roseiflorus** (Buining) G. Charles, *Bradleya* 30: 101, ill. (p. 100), 2012. Basionym: *Akersia roseiflora*.
- Borzicactus leonensis** (Madsen) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Cleistocactus leonensis*.
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- Borzicactus xylorhizus** (F. Ritter) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Loxanthocereus xylorhizus*.
- Browningia utubambensis** Wittner, *Kakt. and. Sukk.* 63(10): 269, ill. (pp. 267-274), 2012. Typus: *Hutchison & Wright* 4506 (UC, K, M, MO).
- Cereus colosseus** (F. Ritter) F. Ritter ex Guiggi, *Cactology* 3: 6, 2012. Basionym: *Piptanthocereus colosseus*. [Name first used invalidly (ICBN Art. 34.1(a)) by F. Ritter, *Kakt. Südamer.* 2: 553-554, in synon., 1980.]
- Chamaecereus saltensis** (Spegazzini) Schlumpberger, *Cactaceae Syst. Init.* 28: 29, 2012. Basionym: *Echinopsis saltensis*.
- Chamaecereus schreiteri** (A. Castellanos) Schlumpberger, *Cactaceae Syst. Init.* 28: 29, 2012. Basionym: *Lobivia schreiteri*.

- Chamaecereus stilowianus** (Backeberg) Schlumpberger, *Cactaceae Syst. Init.* 28: 29, 2012. Basionym: *Lobivia stilowiana*.
- Consolea spinosissima** ssp. **corallicola** (Small) Guiggi, *Cactology* 3: 18, 2012. Basionym: *Consolea corallicola*.
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- Copiapoa sarcoana** I. Schaub & Keim, *Cactus & Co.* 16(2): 6-15, ill., 2012. Typus: *Schaub & Keim* s.n. (SGO 161062).
- Copiapoa superba** I. Schaub & Keim, *Cactus & Co.* 16(2): 17-29, ill., 2012. Typus: *Schaub & Keim* s.n. (SGO 161070).
- Corryocactus erici-marae** Cieza, *Cact.-Avent.* Int. 95: 2-3, ill. (pp. 4-5, 7), 2012. Typus: *Cieza* 1139 (USM).
- Corynopuntia nigrispina** D. Donati, *Piante Grasse* 32(2): 7, ill. (pp. 2-7), 2012. Typus: *Hinton & al.* 29071 (Herb. G. B. Hinton, MEXU).
- Discocactus horstii** ‘Wiola’ Modrakowski, *Kakt. Inne* 8(1): 30, ill., 2012. [A chlorophyll-less mutant with red stems.]
- Echinocereus blumii** D. Felix & H. Bauer, *Echinocereenfreund* 25 (Sonderausgabe): 221, ill. (pp. 220-237), 2012. Typus: *Anonymus* 42-2001 (KR, JE).
- Echinocereus canus** (A. M. Powell & J. F. Weedon) D. Felix & H. Bauer, *Echinocereenfreund* 25 (Sonderausgabe): 259, 2012. Basionym: *Echinocereus viridiflorus* var. *canus*. [Published as combination, but the name given as basionym is probably invalid under ICBN Art. 8.2 (see A. M. Powell in l.c., 254). If this interpretation is true, *E. canus* cannot be based on the invalid name, and should be treated as independent new name (to be attributed to the authors of the combination), with a complete holotype statement and a reference to a previously published Latin diagnosis.]
- Echinopsis rojasii** ssp. **calorubra** (Cárdenas) M. Lowry, *Cactaceae Syst. Init.* 28: 23, ill., 2012. Basionym: *Echinopsis calorubra*.
- Epiphyllum phyllanthus** var. **plattsii** Proctor, *Fl. Cayman Islands*, 256, 2012. Typus: *Proctor* 48205 (not on record).
- Eriocephalia lenninghausii** ssp. **minor** (F. Ritter) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Eriocactus lenninghausii* var. *minor*.
- Eriocephalia magnifica** (F. Ritter) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Eriocactus magnificus*.
- Eriocephalia schumanniana** (Nicolai) Backeberg ex Guiggi, *Cactology* 3(Suppl. III): 1, 2012. Basionym: *Echinocactus schumannianus*. [Name first used invalidly (ICBN Art. 34.1c, 33.4) by Backeberg, *Cact. Succ. J. (US)* 23: 85.]
- Eriocephalia schumanniana** ssp. **claviceps** (F. Ritter) Guiggi, *Cactology* 3(Suppl. III): 1, 2012. Basionym: *Eriocactus claviceps*. [First used invalidly (ICN Art. 35.1) by Guiggi in l.c. 3: 6, 2012.]
- Eriocephalia schumanniana** ssp. **nigrispina** (K. Schumann) Guiggi, *Cactology* 3(Suppl. III): 1, 2012. Basionym: *Echinocactus nigrispinus*. [First used invalidly (ICN Art. 35.1) by Guiggi in l.c. 3: 6, 2012.]
- Eriocephalia warasii** (F. Ritter) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Eriocactus warasii*.
- Escobaria abdita** Repka & Vasko, *Cact. Succ. J. (Los Angeles)* 83(6): 265, ill. (pp. 267-268), 2012. Typus: *Hernández* s.n. (IZTA). [Volume for 2011, publ. 9. 1. 2012 [inside front cover].]
- Eulychnia coquimbana** (Molina) Albesiano, *Haseltonia* 18: 138, 2012. Basionym: *Cactus coquimbanus*.
- Ferocactus wislizeni** var. **ajoensis** Fencel & Kalas, *Kaktusy (Brno)* 48(3: Priloha): 37, ill. ((3): 87-90), 2012. Typus: *Fencel* RF003-2012 (UNM).
- Glandulicereus** Guiggi, *Cactology* 3: 6, 2012. Typus: *Cereus thurberi* Engelm.
- Glandulicereus chacalapensis** (Bravo & T. MacDougall) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Ritterocereus chacalapensis*.
- Glandulicereus chrysocarpus** (Sánchez-Mejorada) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Stenocereus chrysocarpus*.
- Glandulicereus martinezii** (J. G. Ortega) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Lemaireocereus martinezii*.
- Glandulicereus montanus** (Britton & Rose) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Lemaireocereus montanus*.

- Glandulicereus queretaroensis** (F. A. C. Weber ex Mathsson) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Cereus queretaroensis*.
- Glandulicereus quevedonis** (J. G. Ortega) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Lemaireocereus quevedonis*.
- Glandulicereus thurberi** (Engelmann) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Cereus thurberi*.
- Glandulicereus thurberi** ssp. *littoralis* (K. Brandegees) Guiggi, *Cactology* 3: 7, 2012. Basionym: *Cereus thurberi* var. *littoralis*.
- Griseocactus* Guiggi, *Cactology* 3(Suppl.): 1, 2012. *Nom. inval.* (ICN Art. 36.2). Based on *Cactus fimbriatus* Lamarck. [First published invalidly in digital form (ICN Art. 29.2) in Aug. 2012. The attempted validation in Nov. 2012, by distributing printed copies to the libraries at K and ZSS, failed because the validating hardcopy of the journal was sent out simultaneously with the supplement where the name to supersede, *Griseocereus* Guiggi, was published, making both names invalid under ICN Art. 36.2.] [*Nom. nov. pro Griseocereus* Guiggi 2012 (*non Griseocereus* (P. V. Heath) P. V. Heath 1998), but illegitimate against this latter name as it also includes its automatic type.]
- Griseocactus fimbriatus* (Lamarck) Guiggi, *Cactology* 3(Suppl.): 1, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Cactus fimbriatus*.
- Griseocactus fricii* (Sánchez-Mejorada) Guiggi, *Cactology* 3(Suppl.): 1, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Stenocereus fricii*.
- Griseocactus griseus* (Haworth) Guiggi, *Cactology* 3(Suppl.): 1, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Cereus griseus*.
- Griseocactus pruinosus* (Otto ex Pfeiffer) Guiggi, *Cactology* 3(Suppl.): 1, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Echinocactus pruinosus*.
- Griseocereus* Guiggi, *Cactology* 3: 7, 2012. *Nom. inval.* (ICN Art. 36.2). Based on *Cereus fimbriatus* Lamarck. [First published invalidly in digital form (ICN Art. 29.2) in Aug. 2012. The attempted validation in Nov. 2012, by distributing printed copies to the libraries at K and ZSS, failed because the validating hardcopy of the journal was sent out simultaneously with the supplement where the alleged replacement name *Griseocactus* Guiggi was published, making both names invalid under ICN Art. 36.2.] [*Non Griseocereus* (P. V. Heath) P. V. Heath 1998, but since Guiggi's homonym includes the type of Heath's name, the two names are co-extensive.]
- Griseocereus fimbriatus* (Lamarck) Guiggi, *Cactology* 3: 7, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Cactus fimbriatus*.
- Griseocereus fricii* (Sánchez-Mejorada) Guiggi, *Cactology* 3: 7, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Stenocereus fricii*.
- Griseocereus griseus* (Haworth) Guiggi, *Cactology* 3: 7, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Cereus griseus*.
- Griseocereus pruinosus* (Otto ex Pfeiffer) Guiggi, *Cactology* 3: 8, 2012. *Nom. inval.* (ICN Art. 35.1), based on *Echinocactus pruinosus*.
- Gymnocalycium carolinense** ssp. *eltrebolense* Neuhuber, *Gymnocalycium* 25(1): 1010, ills. (p. 1011), 2012. Typus: *Neuhuber* 89-165/466 (CORD).
- Gymnocalycium carolinense** ssp. *fedjukinii* Gapon & Neuhuber, *Kakt. Klub* 15(1-2): 47, ills. (pp. 48-50), 2012. Typus: *Gapon* 07-475 (CORD, WU). [Dated 2011, received at ZSS in April 2012. Repeated in *Gymnocalycium* 25(4): 1054-1055, 2012 (received November 2012).]
- Gymnocalycium carolinense** ssp. *ludwigii* Neuhuber, *Gymnocalycium* 25(1): 1009, ills., 2012. Typus: *Neuhuber & Bercht* 89-162/440 (CORD).
- Gymnocalycium catamarcense* ssp. *fiambalense* Tvrdík, *Gymnofil* 40(1): 19, figs. 9a, 9b, 2012. *Nom. inval.* (ICN Art. 34.1b, 40.1). [Published as provisional name.]
- Gymnocalycium delaetii* var. *marsoneri* (Fric ex Itô) H. Till & Amerhauser, *Gymnocalycium* 25(3): 1046, 2012. *Nom. inval.* (ICN Art. 41.5), based on *Gymnocalycium marsoneri*. [Bracket authorship erroneously given as "F. Ritter ex Neuhuber".]
- Gymnocalycium kieslingii** ssp. *castaneum* (O. Ferrari) Slaba, *Kaktusy* (Brno) 48(2): 55, 2012. Basionym: *Gymnocalycium kieslingii* fa. *castaneum*.
- Gymnocalycium kieslingii** ssp. *frankianum* (Rausch & al.) Slaba, *Kaktusy* (Brno) 48(2): 56, ills., 2012. Basionym: *Gymnocalycium frankianum*.

- Gymnocalycium meregallii** C. A. L. Bercht, Schütziana 3(1): 6-11, ill., 2012. Typus: *Meregalli* 1200 (TO).
- Gymnocalycium saglionis** fa. **columnare** H. Till, Gymnocalycium 25(2): 1029, ill. (p. 1030), 2012. Typus: *Till* 87-17 (CORD).
- Gymnocalycium saglionis** fa. **splendens** H. Till, Gymnocalycium 25(2): 1029-1030, ill., 2012. Typus: *Till* 87-23 (CORD).
- Gymnocalycium saglionis** var. **australe** H. Till, Gymnocalycium 25(2): 1029, ill., 2012. Typus: *Till* 93-309 (CORD).
- Gymnocalycium saglionis** var. **minus** H. Till, Gymnocalycium 25(2): 1028, ill., 2012. Typus: *Till* 93-602a (CORD).
- Haageocereus** Subgen. **Pygmaocereus** Lodé, Cact.-Avent. Int. 97: 2, 2012. Typus: *Pygmaocereus bylesianus* Andreae & Backeberg. Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenbergeria*. Given as "comb. et stat. nov.", but with a Latin diagnosis and without reference to the replaced synonym.
- Harrisia caymanensis** A. R. Franck, Haseltonia 18: 98-100, ill., 2012. Typus: *Franck* 3035 (USF, MO).
- Harrisia tortuosa** ssp. **uruguayensis** (Osten) Lodé, Cact.-Avent. Int. 97: 2, 2012. Basionym: *Harrisia tortuosa* var. *uruguayensis*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenbergeria*.]
- ×*Hildewintopsis* W. Hans & al., Hybridenbuch, 230, ill., 2012. *Nom. inval.* (ICN Art. H9.1). [Parentage not stated, assumed to be *Hildewintera* × *Echinopsis*.]
- Horridocactus paucicostatus** ssp. **echinus** (F. Ritter) Guiggi, Cactology 3: 8, 2012. Basionym: *Pyrrhocactus echinus*.
- Horridocactus paucicostatus** ssp. **floccosus** (F. Ritter) Guiggi, Cactology 3: 8, 2012. Basionym: *Pyrrhocactus floccosus*.
- Leucosteles atacamensis** (Philippi) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Cereus atacamensis*.
- Leucosteles bolligeriana** (Mächler & Helmut Walter) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Echinopsis bolligeriana*.
- Leucosteles chiloensis** (Colla) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Cactus chiloensis*.
- Leucosteles coquimbana** (Molina) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Cactus coquimbanus*.
- Leucosteles deserticola** (Werdermann) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Cereus deserticola*.
- Leucosteles terscheckii** (J. Parmentier ex Pfeiffer) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Cereus terscheckii*.
- Leucosteles tunariensis** (Cárdenas) Schlumberger, Cactaceae Syst. Init. 28: 29, 2012. Basionym: *Trichocereus tunariensis*.
- Leucosteles werdermanniana** (Backeberg) Schlumberger, Cactaceae Syst. Init. 28: 30, 2012. Basionym: *Trichocereus werdermannianus*.
- Leuenbergeria** Lodé, Cact.-Avent. Int. 97: 26, 2012. Typus: *Pereskia quisqueyana* Alain. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria aureiflora** (F. Ritter) Lodé, Cact.-Avent. Int. 97: 26, 2012. Basionym: *Pereskia aureiflora*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria bleo** (Kunth) Lodé, Cact.-Avent. Int. 97: 26, 2012. Basionym: *Cactus bleo*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria guamacho** (F. A. C. Weber) Lodé, Cact.-Avent. Int. 97: 26, 2012. Basionym: *Pereskia guamacho*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria lychnidiflora** (De Candolle) Lodé, Cact.-Avent. Int. 97: 26, 2012. Basionym: *Pereskia lychnidiflora*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria marcanoi** (Arecos) Lodé, Cact.-Avent. Int. 97: 27, 2012. Basionym: *Pereskia marcanoi*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria portulacifolia** (Linné) Lodé, Cact.-Avent. Int. 97: 27, 2012. Basionym: *Cactus portulacifolius*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria quisqueyana** (Alain) Lodé, Cact.-Avent. Int. 97: 27, 2012. Basionym: *Pereskia quisqueyana*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]
- Leuenbergeria zinniiflora** (De Candolle) Lodé, Cact.-Avent. Int. 97: 27, 2012. Basionym: *Pereskia zinniiflora*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI.]

- Lobivia ancistrophora** (Spegazzini) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis ancistrophora*.
- Lobivia ayopayana** (F. Ritter & Rausch) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis ayopayana*.
- Lobivia boyuibensis** (F. Ritter) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis boyuibensis*.
- Lobivia bridgesii** (Salm-Dyck) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis bridgesii*.
- Lobivia calochlora** (K. Schumann) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis calochlora*.
- Lobivia coronata** (Cárdenas) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis coronata*.
- Lobivia mamillosa** (Gürke) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis mamillosa*.
- Lobivia minutiflora** (Rausch) Schlumpberger & M. Lowry, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Lobivia chrysochete* var. *minutiflora*. [Basionym erroneously cited as *Echinopsis*, which is treated as bibliographical error under Art. 41.6, Ex. 14 (ICN 2012).]
- Lobivia obrepanda** (Salm-Dyck) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinocactus obrepandus*.
- Lobivia pamparuizii** (Cárdenas) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis pamparuizii*.
- Lobivia pugionacantha** ssp. *haematantha* (Rausch) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Lobivia pugionacantha* var. *haematantha*.
- Lobivia pugionacantha** ssp. *rossii* (Bödeker) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Echinopsis rossii*.
- Lobivia rojasii** (Cárdenas) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis rojasii*.
- Lobivia subdenudata** (Cárdenas) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinopsis subdenudata*.
- Marshallocereus aragonii** ssp. *eichlamii* (Britton & Rose) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Lemaireocereus eichlamii*.
- Matucana haynei** ssp. *crinifera* (F. Ritter) Wittner, *Cact. Explorer* 4: 57, 2012. Basionym: *Matucana crinifera*.
- Melocactus onychacanthus** ssp. *albescens* (F. Ritter) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Melocactus onychacanthus* var. *albescens*.
- ×**Moraquipa** Baumgärtner, *Hybriden-J.* 2012 (2): 18, 2012. [= *Morawetzia* × *Arequipa*.]
- Neolloydia inexpectata** D. Donati, *Piante Grasse* 32(3): 7, ill. (pp. 2-9), 2012. Typus: *Hinton & al.* 29254 (Herb. G. B. Hinton, MEXU).
- Opuntia engelmannii** ssp. *flavispina* (L. D. Benson) Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Basionym: *Opuntia phaeacantha* var. *flavispina*.
- Opuntia engelmannii** ssp. *rastrera* (F. A. C. Weber) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Opuntia rastrera*.
- Opuntia gosseliniana** ssp. *santa-rita* (Griffiths & Hare) Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Basionym: *Opuntia chlorotica* var. *santa-rita*.
- Opuntia lindheimeri** ‘*Aciculata*’ (Griffiths) Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Basionym: *Opuntia aciculata*.
- Opuntia lindheimeri** ‘*Gomei*’ (Griffiths) Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Basionym: *Opuntia gomei*.
- Opuntia lindheimeri** ssp. *cantabrigiensis* (Lynch) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Opuntia cantabrigiensis*.
- Opuntia luteispina** Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Typus: *Powell & Powell* 6004 (SRSC). [*Nom. nov. pro Opuntia azurea* var. *discolor* A. M. Powell & Weedin 2004.]
- Opuntia macrocentra** ssp. *azurea* (Rose) Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Basionym: *Opuntia azurea*.
- Opuntia phaeacantha** ssp. *mojavensis* (Engelmann & J. M. Bigelow) Guiggi, *Cactology* 3(Suppl. II): 3, 2012. Basionym: *Opuntia mojavensis*.
- Opuntia polyacantha** ssp. *erinacea* (Engelmann & J. M. Bigelow) Guiggi, *Cactology* 3(Suppl. II): 4, 2012. Basionym: *Opuntia erinacea*.
- Opuntia sulphurea** ssp. *vulpina* (F. A. C. Weber) Guiggi, *Cactology* 3: 11, 2012. Basionym: *Opuntia vulpina*.
- Opuntia ventanensis** A. Long, *Haseltonia* 18: 79-81, ill., 2012. Typus: *Long* 2254 (BBB).

- ×**Oreokersia** W. Hans & al., *Hybridenbuch*, 265, 2012. [= *Oreocereus* × *Akersia*.]
- +**Ortegopuntia** Tóth, *Debreceni Pozsgás-Tár* 2012(1): 50, ill., 2012. [Obtained in cultivation from *Ortegocactus macdougalii* + *Opuntia compressa*.]
- +**Ortegopuntia** ‘Percy’ Tóth, *Debreceni Pozsgás-Tár* 2012(1): 50, ill., 2012.
- Parodia calvescens** (N. Gerloff & A. D. Nilson) Anceschi & Magli, *Cact. Explorer* 6: 33, 2012. Basionym: *Notocactus calvescens*.
- Parodia catamarcensis** var. **sanagasta** (Fric ex B. Weingart) Käisinger, *Mitteilungsbl. Inter-Parodia-Kette* 28: 14, ill., 2012. Basionym: *Parodia sanagasta*.
- Parodia glaucina** (F. Ritter) Hofacker & M. Machado, *Kakt. and. Sukk.* 63(2): 44, ill. (p. 43), 2012. Basionym: *Notocactus glaucinus*.
- Parodia maldonadensis** (Herter) Hofacker, *Cact. Explorer* 4: 32, 2012. Basionym: *Echinocactus maldonadensis*.
- Parodia turbinata** ssp. **calvescens** (N. Gerloff & A. D. Nilson) Hofacker, *Kakt. and. Sukk.* 63(2): 46, ill. (p. 45), 2012. Basionym: *Notocactus calvescens*.
- Quasitrophocactus* G. Popov, *Kakt. Klub* 15(1-2): 13, 2012. *Nom. illeg.* (ICN Art. 52.1). Based on *Opuntia weberi* Spegazzini. [Dated 2011, received at ZSS in April 2012. Based on the same type as *Ursopuntia* P. V. Heath, which contrary to the opinion of the author is a valid *nom. nov.* for a previously and validly published name at the rank of series.]
- Quasitrophocactus weberi* (Spegazzini) G. Popov, *Kakt. Klub* 15(1-2): 13, 2012. Incorrect name (ICN Art. 11.4), based on *Opuntia weberi*. [Dated 2011, received at ZSS in April 2012.]
- Reicheocactus bonnieae** (Halda & al.) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Lobivia bonnieae*.
- Reicheocactus famatimensis** (Spegazzini) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Echinocactus famatimensis*. [Sphalm. ‘famatinsensis’, but spelling of the specific epithet (‘famatimensis’ vs. ‘famatinsensis’) in dispute.]
- Schlumbergera** Subgen. **Epiphyllanthus** (A. Berger) D. R. Hunt, *Cactaceae Syst. Init.* 26: 18, 2012. Basionym: *Epiphyllanthus*.

- Schlumbergera** Subgen. **Pseudozygocactus** (Backeberg) D. R. Hunt, *Cactaceae Syst. Init.* 26: 18, 2012. Basionym: *Pseudozygocactus*.
- Schlumbergera** Subgen. **Rhipsalidopsis** (Britton & Rose) D. R. Hunt, *Cactaceae Syst. Init.* 27: 3, 2012. Basionym: *Rhipsalidopsis*. [First published invalidly (Art. 33.4) l.c. 26: 18, 2012.]
- Schlumbergera* × *graeseri* (Werdermann) Solti & Calvente, *Kaktusz Vilag* 36(1): 23, 2012. *Nom. inval.*, based on ×*Rhiphsaphyllopsis graeseri*, *nom. inval.* (Art. 34.1b). [The basionym was only used as a provisional name and is hence invalid.]
- Soehrensia angelesiae** (R. Kiesling) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Trichocereus angelesiae*.
- Soehrensia arboricola** (Kimmach) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Trichocereus arboricola*.
- Soehrensia camarguensis** (Cárdenas) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Trichocereus camarguensis*.
- Soehrensia candicans** (Salm-Dyck) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Cereus candicans*. [Repeated in l.c. 29: 5, 2013, on the assumption that the 2012-combination was invalid under Art. 41.5 (ICN 2012).]
- Soehrensia caulescens** (F. Ritter) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Trichocereus caulescens*.
- Soehrensia crassicaulis** (R. Kiesling) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Lobivia crassicaulis*. [Doubtfully valid under Art. 41.5 (ICN 2012) as the basionym date can be found in the reference for *S. angelesiae* on the same page of the paper. Repeated (with full reference) in l.c. 29: 5, 2013.]
- Soehrensia fabrisii** (R. Kiesling) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Trichocereus fabrisii*.
- Soehrensia grandiflora** (Britton & Rose) Schlumpberger, *Cactaceae Syst. Init.* 28: 30, 2012. Basionym: *Lobivia grandiflora*.
- Soehrensia hahniana** (Backeberg) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Mediocactus hahnianus*.

- Soehrensia lobivoides** (F. Ritter) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Trichocereus lobivoides*. [Doubtfully valid under Art. 41.5 (ICN 2012) as the basionym date can be found in the reference for *S. quadratiumbonata* on the same page of the paper. Repeated (with full reference) in l.c. 29: 5, 2013.]
- Soehrensia quadratiumbonata** (F. Ritter) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Trichocereus quadratiumbonatus*.
- Soehrensia schickendantzii** (F. A. C. Weber) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Echinopsis schickendantzii*. [Basionym erroneously given as *Cereus schickendantzii*, treated as bibliographical error under Art. 41.6, Ex. 1 (ICN 2012).]
- Soehrensia spachiana** (Lemaire) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Cereus spachianus*.
- Soehrensia strigosa** (Salm-Dyck) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Cereus strigosus*.
- Soehrensia tarijensis** (Vaupel) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Cereus tarijensis*.
- Soehrensia thelegona** (F. A. C. Weber) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Cereus thelegonus*.
- Soehrensia thelegonoides** (Spegazzini) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Cereus thelegonoides*.
- Soehrensia vasquezii** (Rausch) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Trichocereus vasquezii*.
- Soehrensia volliana** (Backeberg) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Trichocereus vollianus*.
- Soehrensia walteri** (R. Kiesling) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Lobivia walteri*.
- Sphaeropuntia** Guiggi, *Cactology* 3(Suppl. II): 1, 2012. Typus: *Opuntia sphaerica* C. F. Förster.
- Sphaeropuntia sphaerica** (C. F. Förster) Guiggi, *Cactology* 3(Suppl. II): 1, 2012. Basionym: *Opuntia sphaerica*.
- Sphaeropuntia sphaerica** ssp. **leucophaea** (Philippi) Guiggi, *Cactology* 3(Suppl. II): 1, 2012. Basionym: *Opuntia leucophaea*.
- Sphaeropuntia zehnderi** (Rauh & Backeberg) Guiggi, *Cactology* 3(Suppl. II): 1, 2012. Basionym: *Tephrocactus zehnderi*.
- Sulcorebutia albiareolata** (Slaba & Sorma) J. de Vries, *Succulenta (Netherlands)* 91(2): 66, 2012. Basionym: *Sulcorebutia pulchra* var. *albiareolata*.
- Sulcorebutia azurduyensis** var. **sormae** (Her-tus & al.) Gertel & Jucker, *Succulenta (Netherlands)* 91(3): 120, ill. (pp. 119, 121-124), 2012. Basionym: *Sulcorebutia sormae*.
- Sulcorebutia callichroma** J. de Vries, *Succulenta (Netherlands)* 91(2): 62-63, ill. (pp. 61, 65), 2012. Typus: *Swoboda* 78 (LPB, WU, ZSS).
- Sulcorebutia callichroma** var. **longispina** (Slaba & Sorma) J. de Vries, *Succulenta (Netherlands)* 91(2): 64, 2012. Basionym: *Sulcorebutia pulchra* var. *longispina*.
- Sulcorebutia crispata** var. **muelleri** Gertel, *Succulenta (Netherlands)* 91(5): 208-210, ill. (pp. 207-214), 2012. Typus: *Gertel* 248 (LPB, ZSS).
- Sulcorebutia trojapampensis** Gertel & Jucker, *Kakt. and. Sukk.* 73(5): 128-130, ill. (pp. 127-134), 2012. Typus: *Jucker* 1190a/6 (ZSS, LPB).
- Tephrocactus nigrispinus** ssp. **atroglobosus** (Backeberg ex Guiggi & P. Palacios) M. Lowry, *Cactaceae Syst. Init.* 27: 23, ill., 2012. Basionym: *Maihueiopsis nigrispina* ssp. *atroglobosa*.
- Tephrocactus setiger** fa. **dispar** (A. Castellanos & Lelong) G. Popov, *Kakt. Klub* 15(1-2): 13, 2012. Basionym: *Opuntia weberi* var. *dispar*. [Dated 2011, received at ZSS in April 2012.]
- Tephrocactus setiger** ssp. **deminutus** (Rausch) G. Popov, *Kakt. Klub* 15(1-2): 13, 2012. Basionym: *Tephrocactus weberi* var. *deminutus*. [Dated 2011, received at ZSS in April 2012.]
- Trichocereus atacamensis** ssp. **pasacana** (F. A. C. Weber ex Rümpler) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Pilocereus pasacana*.
- Trichocereus camarguensis** ssp. **caulescens** (F. Ritter) Guiggi, *Cactology* 3(Suppl. II): 5, 2012. Basionym: *Trichocereus caulescens*.
- Trichocereus candicans** ssp. **pseudocandicans** Lodé, *Cact.-Avent. Int.* 97: 2, 2012. Typus: *Kiesling* 807 (LP). [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenergeria*.

- Published as "comb. et stat. nov.", based on *Helianthocereus pseudocandicans* Backeberg 1966 (*nom. inval.*, ICN Art. 40.1), but with an English diagnosis and a type indication (as "neotype", correctable under ICN 9.9.)]
- Trichocereus chiloensis** ssp. **australis** (F. Ritter) Albesiano, *Haseltonia* 18: 123, 2012. Basionym: *Trichocereus chiloensis* var. *australis*.
- Trichocereus chiloensis** ssp. **eburneus** (Philippi ex K. Schumann) Albesiano, *Haseltonia* 18: 124, 2012. Basionym: *Cereus chiloensis* var. *eburneus*.
- Trichocereus chiloensis** ssp. **panhoplites** (K. Schumann) Albesiano, *Haseltonia* 18: 126, 2012. Basionym: *Cereus chiloensis* var. *panhoplites*.
- Trichocereus crassicaulis** (R. Kiesling) Lodé, *Cact.-Avent. Int.* 97: 2, 2012. Basionym: *Lobivia crassicaulis*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenergeria*.]
- Trichocereus faundezi** Albesiano, *Haseltonia* 18: 128-129, ills., 2012. Typus: *Albesiano & al.* 2048 (MERL, AGUCH).
- Trichocereus formosus** ssp. **bruchii** (Britton & Rose) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Lobivia bruchii*.
- Trichocereus hahnianus** (Backeberg) Guiggi, *Cactology* 3(Suppl. II): 5, 2012. Basionym: *Mediocractus hahnianus*. [Repeated by Lodé, *Cact. Avent. Int.* 97: 3, 2012 ('2013').]
- Trichocereus huascha** ssp. **robusta** (Rausch) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Lobivia huascha* var. *robusta*. [Repeated by Lodé, *Cact. Avent. Int.* 97: 3, 2012 ('2013').]
- Trichocereus macrogonus** var. **pachanoi** (Britton & Rose) Albesiano & R. Kiesling, *Haseltonia* 17: 32, 2012. Basionym: *Trichocereus pachanoi*.
- Trichocereus macrogonus** var. **peruvianus** (Britton & Rose) Lodé, *Cact.-Avent. Int.* 97: 3, 2012. Basionym: *Trichocereus peruvianus*. [Dated Jan. 2013, publ. 28. 12. 2012 fide IPNI for *Leuenergeria*.]
- Trichocereus pectinifer** Albesiano, *Haseltonia* 18: 133, ill., 2012. Typus: *Albesiano & al.* 2053 (MERL, AGUCH). [Sphalm. 'pectiniferus'.]

- Trichocereus serpentinus** (M. Lowry & J. M. Mendoza) Guiggi, *Cactology* 3(Suppl. II): 5, 2012. Basionym: *Echinopsis serpentina*.
- Trichocereus tacuirensis** ssp. **taquimbalensis** (Cárdenas) Guiggi, *Cactology* 3(Suppl. II): 6, 2012. Basionym: *Trichocereus taquimbalensis*.
- Trichocereus undulosus** Albesiano, *Haseltonia* 18: 136-137, ill., 2012. Typus: *Albesiano & al.* 2051 (MERL, AGUCH).
- Turbincarpus viereckii** ssp. **reconditus** Labhart, *Piante Grasse* 32(1): 6, ills. (pp. 2-7), 2012. Typus: *Hinton & al.* 29081 (Herb. G. B. Hinton, MEXU).
- Uebelmannia pectinifera** ssp. **eriocactoides** (Repka & al.) Guiggi, *Cactology* 3: 8, 2012. Basionym: *Uebelmannia pectinifera* var. *eriocactoides*.
- Wigginsia turbinata** ssp. **calvescens** (N. Gerloff & A. D. Nilson) Guiggi, *Cactology* 3: 9, 2012. Basionym: *Notocactus calvescens*.

COMMELINACEAE

- Cyanotis speciosa** ssp. **bulbosa** Faden, *Fl. Trop. East Afr.*, *Commelinaceae*, 31, 2012. Typus: *Faden & Faden* 74/120 (US, K, MO).

CRASSULACEAE

- Aeonieae** Thiede ex Reveal, *Phytoneuron* 2012(37): 215, 2012. Typus: *Aeonium* Webb & Berthelot.
- Aeonium** 'Abracadabra' Jonkers, *Avonia* 30(1): 49-50, ills., 2012. [= *Aeonium aureum* × *A. davidbramwellii*, obtained in cultivation.]
- Aeonium** 'Mad Canary' Jonkers, *Avonia* 30(1): 49, ills. (p. 47-48), 2012. [= *Aeonium aureum* × *A. glandulosum*, obtained in cultivation.]
- Aeonium** 'Mas Devesa' Arango Toro, *Cact.-Avent. Int.* 96: 2-4, ills., 2012. [*Aeonium pseudurubicum* × *A. glutinosum*. Obtained in cultivation.]
- Aizopsis aizoon** ssp. **baicalensis** (Peschkova) S. B. Gontcharova, *Konspekt Fl. Aziatsk. Rossii*, 180, 2012. Basionym: *Sedum aizoon* ssp. *baicalense*.

- Aizopsis pseudohybrida** (Voroshilov & Shlot-hauer) S. B. Gontcharova, Konspekt Fl. Aziatsk. Rossii, 180, 2012. Basionym: *Sedum pseudohybridum*. [First used invalidly (ICBN Art. 34.1b) as provisional name in Sedoideae Russian Far East Fl., 86, 2006 (cf. RPS 57).]
- Cotyledon barbeyi** var. **soutpansbergensis** van Jaarsveld & A. E. van Wyk, Aloe 49(1): 18-20, ills., 2012. Typus: *van Jaarsveld & Xaba* 18035 (PRE).
- Dudleya crassifolia** Dodero & M. G. Simpson, Madroño 59(4): 223-225, ills., 2012. Typus: *Dodero* s.n. (SD, BCMEX, RSA, UC).
- Echeveria juliana** Reyes & al., Haseltonia 18: 52-54, ills., 2012. Typus: *Etter & Kristen* 3056 (MEXU).
- Echeveria uxorum** Jimeno-Sevilla & Cházaro, Haseltonia 18: 140-143, ills., 2012. Typus: *Jimeno-Sevilla & al.* 245 (IEB, IBUG, MEXU, XAL). [Sphalm. 'uxorium'.]
- Graptopetalum** Ser. **Filiferae** Byalt, Novosti Sist. Vyssh. Rast. 43: 78, 2012. Typus: *Sedum filiferum* S. Watson.
- Graptopetalum** Ser. **Fruticosae** Byalt, Novosti Sist. Vyssh. Rast. 43: 74, 2012. Typus: *Graptopetalum fruticosum* Moran.
- Graptopetalum** Ser. **Marginatae** Byalt, Novosti Sist. Vyssh. Rast. 43: 78, 2012. Typus: *Graptopetalum marginatum* Kimmnach & Moran.
- Graptopetalum** Ser. **Pachyphyllae** Byalt, Novosti Sist. Vyssh. Rast. 43: 75, 2012. Typus: *Graptopetalum pachyphyllum* Rose.
- Graptopetalum** Ser. **Paraguayenses** Byalt, Novosti Sist. Vyssh. Rast. 43: 73, 2012. Typus: *Graptopetalum paraguayense* (N. E. Brown) E. Walther.
- Graptopetalum** Ser. **Stoloniferae** Byalt, Novosti Sist. Vyssh. Rast. 43: 77, 2012. Typus: *Graptopetalum macdougallii* Alexander.
- Graptopetalum** Subgen. **Glassia** Byalt, Novosti Sist. Vyssh. Rast. 43: 79-80, 2012. Typus: *Graptopetalum pentandrum* Moran.
- Graptopetalum bernalense** (Kimmnach & Moran) Byalt, Novosti Sist. Vyssh. Rast. 43: 74, 2012. Basionym: *Graptopetalum paraguayense* ssp. *bernalense*.
- Hylotelephium xbergeri** (Hamet *pro sp.*) B. Bock, Bull. Soc. Bot. Centre-Ouest, n.s. 42: 264, 2012. Basionym: *Sedum xbergeri*.
- Rosularia globulariifolia** var. **pallidiflora** (Meikle) Minareci & K. Yildiz, Nordic J. Bot. 30(5): 531, 2012. Basionym: *Umbilicus pallidiflorus*.
- Sedum** Ser. **Cepaea** (W. D. J. Koch) Afferni, CactusWorld 30(1): 57, 2012. Basionym: *Sedum* Sect. *Cepaea*. [Name first used invalidly (ICBN Art. 33.4) by 't Hart, Fl. Medit. 1, 1991.]
- Sedum** Subser. **Cepaea** Afferni, CactusWorld 30(1): 59, 2012. Basionym: *Sedum* Sect. *Cepaea*. [Informally used in the text relating to Ser. *Cepaea*, but the full basionym is also cited elsewhere in the paper.]
- Sedum** Subser. **Cretica** Afferni, CactusWorld 30(1): 59, 2012. Typus: *Sedum creticum* C. Presl.
- Sedum** Subser. **Tristriata** Afferni, CactusWorld 30(1): 59, 2012. Typus: *Sedum tristriatum* Boissier & Heldreich.
- Sedum aetnense** ssp. **aranjuezii** González Granados, Bol. Real Soc. Esp. Hist. Nat., Secc. Biol. 105(1-4): 53., 2011. Typus: *González Granados* s.n. (MA 822238). [Cited from IPNI. Omitted previously.]
- Sedum xaffomarcoi** L. Gallo & Afferni, Forum Geobot. 6: [2-3], ills. pp. [3, 11], 2012. Typus: *Gallo* 7288 (TO). [= *Sedum montanum* x *S. rupestre*.]
- Sedum brachetii** Reyes & al., Haseltonia 18: 45-46, ills., 2012. Typus: *Reyes & al.* 7519 (MEXU).
- Sedum fanjingshanense** C. D. Wang & X. Y. Wang, Bull. Bot. Res., Harbin 32(4): 389-391, ills., 2012. Typus: *Yang* 2011-11091 (GACP, FAN). [Sphalm. 'fanjingshanensis'.]
- Sedum goldii** (Matuda) Byalt, Novosti Sist. Vyssh. Rast. 43: 81, 2012. Basionym: *Graptopetalum goldii*.
- Sedum xhenkii** L. Gallo, Forum Geobot. 6: [5, 7], ill., 2012. Typus: *Gallo* 7320 (TO). [= *Sedum ochroleucum* x *S. sediforme*.]
- Sedum hispanicum** var. **glaucum** Niederle, Skalnickárův Rok 65: 36, 2012. [*Nom. nov. pro Sedum glaucum* Waldstein & Kitaibel 1804 (*nom. illeg., non Sedum glaucum* Lamarck 1779).]
- Sedum jarocho** P. Carrillo & Jimeno-Sevilla, Haseltonia 18: 147-148, ills. (pp. 145-146), 2012. Typus: *Carrillo-Reyes & Cabre-ra-Toledo* 5245 (IEB, XAL).

Sedum koyuncui Yildirimli, *Ot Sist. Bot. Dergisi* 19(1): 24, *ills.* (pp. 25-26), 2012. Typus: *Yildirimli* 38413 (Herb. Yildirimli).

Sedum kristenii Reyes & al., *Haseltonia* 18: 48-51, *ills.*, 2012. Typus: *Etter & Kristen* 3053 (MEXU).

Sedum mendozae (Glass & Cházaro) Byalt, *Novosti Sist. Vyssh. Rast.* 43: 81, 2012. Basionym: *Graptopetalum mendozae*.

Sedum mesoamericanum P. Carrillo & Pérez-Farrera, *Haseltonia* 17: 82-84, *ills.*, 2012. Typus: *Carrillo-Reyes & Cabrera-Toledo* 5562 (IEB, HEM, MEXU, MO).

Sedum ×pascalinum Gallo, *Forum Geobot.* 6: [8], *ills.* (pp. [10, 12]), 2012. Typus: *Gallo* 7363 (TO). [= *Sedum ochroleucum* × *S. montanum*.]

Sedum perezdelarosae Jimeno-Sevilla, *Brittonia* 64(4): 338-340, *ills.*, 2012. Typus: *Jimeno-Sevilla & al.* 1293 (XAL, IEB, IUG, MEXU, NY).

Sedum plumbizincicola X. H. Guo & S. B. Zhou *ex* L. H. Wu, *Pl. Syst. Evol.* 299: 492-493, *ills.*, 2012. Typus: *Bide* 05061028 (ANU, IBK). [Online publication 21. 12. 2012, print publication 2013. Name first used invalidly (ICBN Art. 36.1, cf. RPS 62) in *Soils* 38(5): 632-633, 2006.]

Sempervivum ×barbulatum nvar. **pseudoarachnoideum** (Lamotte) B. Bock, *Bull. Soc. Bot. Centre-Ouest*, n.s. 43: 218, 2012. Basionym: *Sempervivum ×pseudoarachnoideum*. [Sphalm. 'pseudo-arachnoideum.].

Sempervivum ×luisae L. Gallo, *Ann. Mus. Civici Rovereto, Sez. Archeol., Storia, Sci. Nat.* 27: 289-290, *ills.*, 2012. Typus: *Fiori* s.n. (FI). [= *Sempervivum arachnoideum* × *S. riccii*.]

Sempervivum marmoreum ssp. *kosaninii* (Praeger) Hadrava, *Cactaceae etc.* 22(2): 70, 2012. *Nom. inval.* (ICN Art. 41.5), based on *Sempervivum kosaninii*.

Sempervivum marmoreum ssp. *macedonicum* (Praeger) Hadrava, *Cactaceae etc.* 22(2): 70, 2012. *Nom. inval.* (ICN Art. 41.5), based on *Sempervivum macedonicum*. [Ascribed to Zonneveld 1999, but that author did not publish the combination at the place indicated.]

Sempervivum marmoreum ssp. **matricum** (Letz) Hadrava & Miklánek, *Kaktusy (Brno)* 46(2): 54, *Priloha* 2010(2): 25-26, 2010. Basionym: *Sempervivum matricum*. [First

published as provisional name l.c. 43 (Special 1): 14, 2007. Republished in *SempPress* 2010: 28, 2010. Treated as invalid under ICBN Art. 33.4 in RPS 58, but the name can be interpreted as valid under Art. 33.4, Note 1, as there is a literature reference supplied in the "Priloha" part of the reference.]

Sempervivum marmoreum var. *erythraeum* (Velenovsky) Hadrava, *Cactaceae etc.* 22(2): 70, (3): 104, 2012. *Nom. inval.* (ICN Art. 41.5), based on *Sempervivum erythraeum*. [Variously ascribed to Zonneveld 1999 or to G. Dumont (s.a.).]

Sempervivum ×rupicola nssp. **pernhofferi** (Hayek) D. Donati & G. Dumont, *Piante Grasse* 32(2): 42, 2012. Basionym: *Sempervivum ×pernhofferi*.

Sempervivum tectorum ssp. **decoloratum** (Jordan & Fourrier) B. Bock, *Bull. Soc. Bot. Centre-Ouest*, n.s. 43: 212, 2012. Basionym: *Sempervivum decoloratum*.

Sinocrassula stenosquamata J. Wang & F. Du, *Acta Bot. Boreal.-Occid. Sin.* 32(12): 2563-2565, *ill.*, 2012. Typus: *Wang* 20110916 (SWFC).

DIOSCOREACEAE

Dioscorea strydomiana Wilkin, *Kew Bull.* 65(3): 425-426, *ills.* (pp. 427-429), 2010. Typus: *Burrows & al.* 10627B (PRE, BNRH, LYD, K, NBG, PRU). [Omitted previously.]

ERIOSPERMACEAE

Eriospermoideae Reveal, *Phytoneuron* 2012(37): 217, 2012. Typus: *Eriospermum* *Jacquin ex Willdenow*.

EUPHORBACEAE

Euphorbia Sect. **Bosseriae** T. Haevermans & X. Aubriot, *Taxon* 61(4): 778, 2012. Typus: *Euphorbia bosseri* Leandri.

- Euphorbia** Sect. **Gueinziae** Riina, Taxon 61(4): 780, 2012. Typus: *Euphorbia gueinzii* Boissier.
- Euphorbia** Sect. **Plagianthae** T. Haevermans & X. Aubriot, Taxon 61(4): 779, 2012. Typus: *Euphorbia plagiantha* Drake.
- Euphorbia** Subsect. **Apparicianae** Riina, Taxon 61(4): 780, 2012. Typus: *Euphorbia apparicana* Rizzini.
- Euphorbia** Subsect. **Sarcodes** Riina, Taxon 61(4): 780, 2012. Typus: *Euphorbia sarcodes* Boissier.
- Euphorbia beuginii** Rebmann, Cact. Succ. 4(2): 45-47, ills., 2012. Typus: *Rebmann 22* (BR).
- Euphorbia flaviana** Carneiro-Torres & Cordeiro, Syst. Bot. 37(3): 688-690, ills., 2012. Typus: *França & al.* 2413 (HUEFS, SPF, UFPRE).
- Euphorbia gerstneriana** Bruyns, Bothalia 42(2): 236, 2012. Typus: *Gerstner 687* (PRE). [*Nom. nov. pro Euphorbia franksiae* var. *zuluensis* A. C. White & al. 1941.]
- Euphorbia melanohydrata** ssp. *conica* Swanepoel, Phytotaxa 62: 34-35, ills., 2012. Typus: *Swanepoel 263* (WIND, PRE).
- Euphorbia momccoyae** Lavranos, Cact. Succ. J. (Los Angeles) 83(6): 260-263, ills. (pp. 256-263), 2012. Typus: *McCoy 3811* (FT). [Volume for 2011, publ. 9. 1. 2012 [inside front cover].]
- Euphorbia polygona** var. *exilis* D. H. Schnabel, Euphorbia World 8(1): 20-22, ills. (pp. 20-23), 2012. Typus: *Schnabel 4* (GRA).
- Euphorbia polygona** var. *hebdomaldis* D. H. Schnabel, Euphorbia World 8(3): 10-12, ills., 2012. Typus: *Schnabel 5* (NBG).
- Euphorbia radyeri** Bruyns, Bothalia 42(2): 228, 2012. Typus: *Dyer 2357* (GRA, PRE).
- Euphorbia tithymaloides** ssp. *bahamensis* (Millspaugh) V. W. Steinmann ex Govaerts, Smithsonian Contr. Bot. 98: 336, 2012. Basionym: *Pedilanthus bahamensis*. [Name first published invalidly by V. W. Steinmann, Acta Bot. Mex. 65: 49, 2003 (ICBN Art. 33.3, cf. RPS 54).]
- Jatropha** Subsect. **Fremontioides** Dehgan, Fl. Neotrop. Monogr. 110: 184, 2012. Typus: *Jatropha fremontioides* Standley.
- Jatropha** Subsect. **Isabellae** Dehgan, Fl. Neotrop. Monogr. 110: 72, 2012. Typus: *Jatropha isabellei* Müller Argoviensis.
- Jatropha** Subsect. **Platyphyllae** Dehgan, Fl. Neotrop. Monogr. 110: 162, 2012. *Nom. inval.* (ICN Art. 40.1). [Typus not indicated.]
- Jatropha clavuligera** ssp. *pedatipartita* (Kuntze) B. Dehgan, Fl. Neotrop. Monogr. 110: 61, 2012. Basionym: *Jatropha pedatipartita*.
- Jatropha gossypifolia** var. *jamaicensis* Dehgan & Almira, Fl. Neotrop. Monogr. 110: 47, 2012. Typus: *Crosby & al.* 804 (UC, DAV, F, GH, NY, TEX).

GESNERIACEAE

- Sinningia lutea** Buzatto & R. Singer, Brittonia 64(2): 109, ills. (pp. 110-111), 2012. Typus: *Buzatto 588* (ICN, PACA, RSPF).

HYACINTHACEAE

- Lachenalia** Subgen. **Polyxena** (Kunth) G. D. Duncan, Gen. Lachenalia, 426, 2012. Basionym: *Polyxena*.
- Ornithogalum gildenhuysii** van Jaarsveld, Herbertia, [ser. 3], 65: 51-59, ills., 2011. Typus: *van Jaarsveld & al.* 21110 (NBG).
- Resnova megaphylla** Hankey ex J. M. H. Shaw, CactusWorld 30(4): 237-238, ills., 2012. Typus: *Shaw s.n.* (WSY).

MALVACEAE

- Adansonia kilima** Pettigrew & al., Taxon 61(6): 1248 [and erratum l.c. 62(1): 189, 2013], 2012. Typus: *Pettigrew & Callistemon 1* (PRE).
- Spirotheca elegans** Carvalho-Sobrinho & al., Syst. Bot. 37(4): 978-980, ills., 2012. Typus: *Carvalho-Sobrinho & Machado 3055* (HUEFS, RB, SPF).

MONTIACEAE

- Calandrinia hortiorum** Obbens, Nuytsia 22(6): 352, figs. 1-2 (pp. 354-355), 2012. Typus: *Obbens & Hort* FO57/04 (PERTH, CANB).
- Calandrinia oblonga** Syeda & Carolin, Proc. Linn. Soc. New South Wales 133: 11-12, fig. 1 (p. 13), 2012. Typus: *Specht* 103 (AD, BRI). [Dated and published electronically 2011, printed copies distributed Feb. 2012 (cf. IPNI). Name first used invalidly (ICBN Art. 29.1) in the M.Sc. thesis of the first author in 1979.]
- Calandrinia operta** Obbens, Nuytsia 22(6): 359, figs. 6-8 (pp. 361-362), 2012. Typus: *Chow & Downes* WC03 (PERTH, CANB).
- Calandrinia umbelliformis** Obbens, Nuytsia 22(6): 356, figs. 4-5 (pp. 357-358), 2012. Typus: *Hort & al.* 2347 (PERTH, CANB).
- Calyptidium parryi** var. **martirensis** Guilliams & al., Madroño 58(4): 260, figs. 1-4, 2012. Typus: *Rebman* 5407 (SD, BCMEX, RSA, UC, UCR). [Dated 2011, publ. July 2012. Name first published invalidly (ICBN Art. 34.1b) as provisional name by M. G. Simpson & al., l.c. 57(3): 158, 2010.]
- Phemeranthus parvulus** (Rose & Standley) D. J. Ferguson & T. M. Price, Novon 22(1): 67, 2012. Basionym: *Talinum parvulum*.

PIPERACEAE

- Peperomia callana** Hutchison ex Pino, Haseltonia 18: 4-5, ills., 2012. Typus: *Hutchison & Krahn* 4961 (UC, US, USM).
- Peperomia ciezae** Pino, Haseltonia 18: 6-8, ills., 2012. Typus: *Pino & Cieza* 1561 (USM).
- Peperomia erosa** Hutchison ex Pino, Haseltonia 18: 8-9, ills., 2012. Typus: *Hutchison & Wright* 3639 (UC, USM).
- Peperomia ferreyrae** var. **musifolia** Pino, Haseltonia 18: 9-11, ills., 2012. Typus: *Mathieu & al.* 2009-091 (USM, BR, GENT).
- Peperomia majeri** Pino & Samain, Haseltonia 18: 11-13, ills., 2012. Typus: *Samain & al.* 2010-061 (USM, GENT).
- Peperomia mantaroana** Pino, Haseltonia 18: 14-15, ills., 2012. Typus: *Pino* 2624 (USM).

- Peperomia mathieu** Pino & Samain, Haseltonia 18: 16-17, ills., 2012. Typus: *Mathieu & al.* 2009-089 (USM, BR, GENT).
- Peperomia mitoensis** Pino & Samain, Haseltonia 18: 18, ills., 2012. Typus: *Samain & al.* 2010-075 (USM, GENT).
- Peperomia palmiformis** Pino & Samain, Haseltonia 18: 19-20, ills., 2012. Typus: *Mathieu & al.* 2009-069 (USM, BR, GENT).
- Peperomia paramuna** Callejas, Revista Mex. Biodivers. 82: 370-371, ills., 2011. Typus: *Alfaro* 1767 (INB, MO).
- Peperomia samainiae** Pino, Haseltonia 18: 20-22, ills., 2012. Typus: *Samain & al.* 2010-066 (USM, GENT).
- Peperomia selenophylla** Pino & Cieza, Haseltonia 18: 23-25, ills., 2012. Typus: *Klopfenstein & Cieza* 620 (USM).

PORTULACACEAE

- Portulaca edulis** Danin & Bagella, Willdenowia 42(1): 63-65, ills., 2012. Typus: *Danin & Hadjikyriakou* Cy2004-22a (HUJ, B, E, G, H, K, ME, PAL, SS).
- Portulaca oleracea** ssp. **rausii** (Danin) J. Walter, Fl. Slovenska 6(3): 657, 2012. Basionym: *Portulaca rausii*. [Dated June 2012 fide IPNI. Repeated by Greuter, Bocconeia 25: 74, 2012 (July).]
- Portulaca oleracea** ssp. **sicula** (Danin & al.) J. Walter, Fl. Slovenska 6(3): 657, 2012. Basionym: *Portulaca sicula*.
- Portulaca oleracea** ssp. **trituberculata** (Danin & al.) J. Walter, Fl. Slovenska 6(3): 657, 2012. Basionym: *Portulaca trituberculata*.
- Portulaca oleracea** ssp. **zaffranii** (Danin) J. Walter, Fl. Slovenska 6(3): 657, 2012. Basionym: *Portulaca zaffranii*.
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