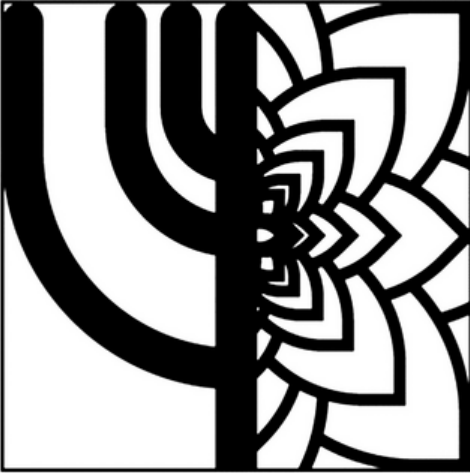


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International Organization
for Succulent Plant Study

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
LXII (2011)**

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, 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 to compile the individual issues and 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 LXII (2011)

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

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Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in **bold face** type (except for epithets of new cultivars), accompanied, in the case of newly described taxa, by an indication of the nomenclatural type (name or specimen dependent on rank), followed by the herbarium acronyms of the herbaria where the holotype and possible isotypes are said to be deposited (first acronym for holotype), according to 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 or ICNCP which have been contravened are indicated in brackets.
- 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 ‘Bibliography of Succulent Plant Periodicals’ (U. Eggli in Friciana 60: 1-139, 1998 (‘1995’)) are used.

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Compilers' Preface

This is the second issue of RPS published in digital form and under a Creative Commons 3.0 licence. This change from paper to digital was generally well-received by the readership, especially in view of the fact that printed copies could still be obtained from the IOS Secretary. The free availability of the journal under the Creative Commons licence has certainly greatly helped towards wider circulation, and it is interesting to see that websites such as www.scribd.com also offer the publication.

There is no doubt that digital publications will become more and more important in the near future. Already today, there are several journals on cactus and succulent plant issues available exclusively in digital form, and this number will certainly grow. In addition, the 2011 International Botanical Congress has accepted a proposal to allow digital-only publication of nomenclatural novelties, with a starting date of 1. January 2012. This is a very important change, and it remains to be seen to what extent publication habits as to number and quality of publications will change as far as botanical nomenclature goes, and to what extent this change will influence the compilation of indexing publications such as RPS.

Words of thanks are, as usual, due to all those authors that have supplied us with copies of their papers. Especially for papers published in less well-known journals, and in less well-known digital-only publications, this help is vital and is greatly appreciated.

For help with nomenclatural questions, we again thank Katherine Challis and her colleagues at the IPNI team at Kew. As in previous years, Rainer Mailänder, Zürich, very kindly helped with literature from several more "general" biological journals.

Finally, a word of thanks is due to all those organizations and societies that help to make this digital version of RPS more widely accessible, especially the Sociedad Latinoamericana y del Caribe de Cactáceas y otras Suculentas. In addition, RPS is now also available from the site www.cactuspro.com/biblio/en:rps, which is devoted exclusively to succulent plant literature. Thanks to the efforts of Daniel Schweich and colleagues, numerous important books on the subject have been digitized in recent years and are freely available from this site.

Corrections to previous volumes

- In RPS 60, the combination *Weingartia tiraquensis* ssp. *mariana* was incorrectly listed under the epithet "mariae", and the same erroneous epithet was also given for the basionym *Sulcorebutia mariae*. 'mariana' is, however, the perfectly correct adjectival form.
- The bracket author of \times *Disophyllum charltonii* was incorrectly given as "G. D. Rowley" on the base of the original publication, but the basionym was published by Masters, and the bracket author should be amended accordingly.

NOMINA NOVA

AGAVACEAE

- Agave parviflora** ssp. **densiflora** G. D. Starr & Devender, *Cact. Succ. J. (Los Angeles)* 83(5): 225, ill. (p. 228), 2011. Typus: *Reina G. & Devender* 98-1892 (ARIZ, DES, MEXU, MO, USON).
- Agave pintilla** S. González & al., *Acta Bot. Mex.* 95: 81-83, ill., 2011. Typus: *Reséndiz & al.* 131 (CHDIR, ENCB, MEXU).
- Agave salmiana** ssp. **tehuacanensis** (Karwinski ex Salm-Dyck) García-Mendoza, *Fl. Valle de Tehuacán-Cuicatlán*, 88, *Agavac.*, 55, 2011. Basionym: *Agave tehuacanensis*.
- Agave turneri** R. H. Webb & J. M. Salazar-Ceseña, *Brittonia* 63(2): 204-206, ill., 2011. Typus: *Salazar-Ceseña* 3740 (MEXU).
- Manfreda huetamensis* Castillejos-Cruz, *Sist. Gen. Manfreda* [thesis], 2009. *Nom. inval.* (Art. 29.1).
- Manfreda justosierrana** García-Mendoza, *Revista Mex. Biodivers.* 82: 748-749, ill., 2011. Typus: *García-Mendoza & al.* 6739 (MEXU [in 2 parts]).
- Manfreda umbrophila** García-Mendoza, *Revista Mex. Biodivers.* 82: 750-751, ill., 2011. Typus: *García-Mendoza & al.* 8524 (MEXU, ENCB, IEB, K, MO, OAX, UAMIZ).
- Manfreda verhoekiae** García-Mendoza, *Revista Mex. Biodivers.* 82: 754-755, ill., 2011. Typus: *García-Mendoza & Mérida* 2551 (MEXU).
- Polianthes zapopenensis** E. Solano & Ríos-Gómez, *Brittonia* 63(1): 70-72, ill., 2011. Typus: *Castillejos C. & Solano C.* 1564 (MEXU, CHAPA, ENCB, FEZA, IBUG, IEB, NY, UAMIZ).

AIZOACEAE

- Antimima paripetala** (L. Bolus) Klak, *Bothalia* 41(2): 293, 2011. Basionym: *Mesembryanthemum paripetalum*.
- Conophytum buysianum** ssp. **politum** A. J. Young & C. Rodgeron, *Bradleya* 29: 100, figs. 12-14 (p. 101), 2011. Typus: *Young & C. Rodgeron* s.n. in *Harrower* s.n. (NBG,

HNT).

- Drosanthemum boerhavii** (Ecklon) H. E. K. Hartmann, *Bradleya* 29: 165, fig. 56-60 (p. 170), 2011. Basionym: *Mesembryanthemum boerhavii*.
- Drosanthemum uniondalense** H. E. K. Hartmann, *Bradleya* 29: 175-177, figs. 63-66 (p. 173), 2011. Typus: *Hartmann* 34813 (HBG).
- Esterhuysenia grahambeckii** van Jaarsveld, *Bradleya* 29: 47, 50, ill. (pp. 44-47), 2011. Typus: *van Jaarsveld & van der Spuy* 23555 (PRE).
- Octopoma nanum** (L. Bolus) Klak, *Bothalia* 41(2): 293, 2011. Basionym: *Ruschia nana*.
- Trianthea clavata** (J. M. Black) H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 195, 2011. Basionym: *Trianthea crystallina* var. *clavata*.
- Trianthea corallicola** H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 195-197, ill., 2011. Typus: *Friis & al.* 5029 (C, B, K).
- Trianthea corymbosa** (E. Meyer ex Sonder) H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 197, 2011. Basionym: *Trianthea crystallina* var. *corymbosa*.
- Trianthea mozambiquensis** H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 202-203, fig. 11 (p. 201), 2011. Typus: *Marques* 2299 (WAG).
- Trianthea pakistanensis** H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 203, fig. 3 (p. 184), 2011. Typus: *Sultanul-Abedin* 5681 (B).
- Trianthea ufoensis** H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 210, fig. 5D-F (p. 186), 2011. Typus: *Short & Dunlop* 4932 (DNA).
- Trianthea vleiensis** H. E. K. Hartmann & Liede, *Pl. Ecol. Evol.* 144(2): 211, fig. 9 (p. 198), 2011. Typus: *Hartmann* 31323 (HBG).
- ANACAMPSEROTACEAE**
- Avonia harveyi** J. van Thiel & Lavranos, *CactusWorld* 29(4): 224-225, ill. (pp. 223-225), 2011. Typus: *Lavranos & Harvey* 32027 (FT).

APOCYNACEAE

- Brachystelma pullaiahi** Ravi Prasad Rao & al., *Taiwania* 56(3): 223-224, ills., 2011. Typus: *Rao & Prasad* 34664 (BSID, CAL, SKU).
- Caralluma bicolor** Ramachandran & al., *Nordic J. Bot.* 29: 447-448, ills., 2011. Typus: *Joseph* 1501 (CAL, MH).
- Caralluma moorei** Aditya, *Asklepios* 110: 7-9, ills., 2011. Typus: *Aditya* 30-095M (K).
- Caralluma sarkariae** var. **longipedicellata** Aditya, *Asklepios* 110: 20-24, ills., 2011. Typus: *Aditya* 50-126M (K).
- Ceropegia anjanerica** Malpure & al., *Curr. Sci.* 91(9): 1141, ills., 2006. Typus: *Malpure* 1 (CAL, BLAT, BSI, K, Herb. Shivaji Univ. Kolhapur). [Omitted previously.]
- Ceropegia bhatii** S. R. Yadav & Shendage, *Kew Bull.* 65(1): 107-109, ills., 2010. Typus: *Shendage* 2550 (CAL, BSI, Herb. Shivaji Univ. Kolhapur). [Omitted previously.]
- Ceropegia mohanramii** S. R. Yadav & al., *Rhedeia* 16(1): 33-36, ills., 2006. Typus: *Sardesai* 2541 (CAL, BLATT, BSI, K, SUK). [Omitted previously.]
- Ceropegia oculata** var. **satpudensis** Puneekar & al., *Curr. Sci.* 91(9): 1143, ills., 2006. Typus: *Jagtap* 2919 (CAL, BSI). [Omitted previously.]
- Eriostemma badaensis* Kloppenburg & T. Green, *Fraterna* 24(4): 16-20, ills., 2011. Typus: UC. *Nom. inval.* (Art. 37.1, 37.2).
- Eriostemma grandiflora* (Blume ex Decaisne) Kloppenburg & Gilding, *Fraterna* 24(2): 4, 2011. *Nom. inval.* (Art. 33.4), based on *Hoya grandiflora*.
- Eriostemma pulgarensis* Elmer ex Kloppenburg & Gilding, *Fraterna* 24(2): 4, 2001. Based on *Elmer* 12985. *Nom. inval.* (Art. 37.7). [Name first used as combination for *Hoya pulgarensis* Elmer 1938 (*nom. inval.*, Art. 36.1) in l.c. 14(2): 4, 2001 (cf. RPS 52).]
- Eriostemma zollingeriana* (Miquel) Kloppenburg & Gilding, *Fraterna* 24(2): 4, 2011. *Nom. inval.* (Art. 33.4), based on *Hoya zollingeriana*.
- Hoya amrita** Kloppenburg & al., *Asklepios* 110: 27-29, ills., 2011. Typus: *Ferreras* 750 (CAHUP).
- Hoya apoensis** Kloppenburg & Siar, *Asklepios* 110: 25-26, ills., 2011. Typus: *Kloppenb.* s.n. (CAHUP 71718). [Name first used in

- the protologue of *H. apoensis* var. *sagittaria* Kloppenburg & al. 2010.]
- Hoya bandongii** Kloppenburg & Ferreras, *Fraterna* 24(4): 9-14, ills., 2011. Typus: *Ferreras* 770 (PUH 14596).
- Hoya benitotanii** Kloppenburg, *Gard. Bull.* Singapore 61(2): 330-332, ills., 2010. Typus: *Bicknell* s.n. in *Kloppenb.* 2010-6 (UC) [Ex cult. T. Green.]. [Omitted previously.]
- Hoya devogelii** Rodda & Simonsson, *Webbia* 66(1): 34-36, ills., 2011. Typus: *De Vogel* 9398 (L, SAR?).
- Hoya ignorata** T. B. Tran & al., *Novon* 21(4): 509-511, ills., 2011. Typus: *Bien* 1072 (HN, MO).
- Hoya ilagii** Kloppenburg & al., *Asia Life Sci.* 20(2): 263-269, ills., 2011. [According to Kloppenburg, *Fraterna* 24(2): 4, 2011, the name honours the Ilag family, and thus should be corrected to 'ilagiorum'. Paper not available to evaluate validity of the name and typification.]
- Hoya isabelaensis** Kloppenburg & al., *Fraterna* 24(4): 24-28, ills., 2011. Typus: *Ferreras* 783 (PUH, CAHUP, PNH).
- Hoya jianfenglingensis** S.-Y. He & P. T. Li, *Novon* 21(3): 343-345, ills., 2011. Typus: *He & al.* 0607281 (CANT, MO [photo]).
- Hoya matavanuensis** Kloppenburg, *Asklepios* 111: 11-12, ills., 2011. Typus: *Whistler* 9539 (HAW).
- Hoya medinillifolia** Rodda & Simonsson, *Webbia* 66(2): 149-152, ills., 2011. Typus: *Mohar* S.48205 (K, L, SAR).
- Hoya rotundiflora** Rodda & Simonsson, *Phytotaxa* 27: 37-43, ills., 2011. Typus: *Anonymus* s.n. (K).
- Hoya santiagoi** Kloppenburg & Siar ex Kloppenburg, *Fraterna* 24(4): 29-31, ills., 2011. Typus: *Santiago* 36315 (PNH).
- Hoya sapaensis** T. B. Tran & Rodda, *Ann. Bot. Fenn.* 48: 511-513, ills., 2011. Typus: *Phuong & al.* HNK239 (HN, K).
- Hoya skinneriana** Kloppenburg & Wayman, *Fraterna* 24(4): 5-8, ills., 2011. Typus: *Skinner* s.n. (UC) [Ex cult. Kloppenburg.].
- Hoya tannaensis** T. Green & Kloppenburg, *Fraterna* 24(1): 4-7, ills., 2011. Typus: *Slade* s.n. in *Kloppenb.* 2011-2 (UC) [Ex cult. T. Green.].

- Hoya tauensis** Kloppenburg, Asklepios 111: 13-14, ills., 2011. Typus: *Whistler* 1297 (HAW).
- Hoya yapiana** Kloppenburg, Gard. Bull. Singapore 61(2): 327-328, ills. (pp. 328-329), 2010. Typus: *Luan-Keng* BN090122 (SING). [Sphalm. 'yapianum'.]
- Orbea wissmannii** ssp. **eremastrum** (O. Schwartz) Mosti & Raffaelli, Asklepios 110: 14, 2011. Basionym: *Caralluma eremastrum*.
- Orbea wissmannii** ssp. **parviloba** (Bruyns) Mosti & Raffaelli, Asklepios 110: 14, 2011. Basionym: *Orbea wissmannii* var. *parviloba*.
- ×**Orbeotriche** G. D. Rowley, Asklepios 109: 14, 2011. [Dated Dec. 2010, received at ZSS Jan. 2011.] [= *Orbea* × *Tromotriche*.]
- Sarcostemma areysianum** Bruyns, S. African J. Bot. 77: 802-803, ills., 2011. Typus: *Bruyns* 10287 (BOL, E).
- ASPHODELACEAE**
- Aloe antoetrana** J.-B. Castillon, CactusWorld 29(1): 53-54, ills. (pp. 51-53), 2011. Typus: *Castillon* 48 (TAN).
- Aloe beankaensis** J.-B. Castillon & J.-P. Castillon, Aloe Madagascar, Addendum No. 1, 13, ills., 2011. *Nom. inval.* (Art. 29.1, 36.1). [Name used as provisional name in figure caption only.]
- Aloe benishangulana** Sebsebe & Tesfaye, Kew Bull. 66(1): 113, fig. 1 (p. 114), 2011. Typus: *Hermann* 157 (ETH, K [photo]).
- Aloe bernardii** J.-P. Castillon, Cact.-Avent. Int. 89: 25-27, ills., 2011. Typus: *Castillon* 49 (TAN, P, TAN).
- Aloe butiabana** T. C. Cole & T. G. Forrest, Cact. Succ. J. (Los Angeles) 83(1): 28-33, ills., 2011. Typus: *Cole & Forrest* 420 (MHU, EA).
- Aloe** ×**buzariensis** Lodé, Cact.-Avent. Int. 92: 19, ills., 2011. Typus: *Lodé* 1230512 (Herb. Fundación Joel Lodé). [= *Aloe perryi* × *A. squarrosa*. First published invalidly (Art. 36.1, 40.1) l.c. 85: 3-4, ills., 2010.]
- Aloe erythrophylla** ssp. **major** J.-B. Castillon, CactusWorld 29(1): 54-55, ills. (pp. 53-54), 2011. Typus: *Castillon* 50 (TAN).
- Aloe ghibensis** Sebsebe & Friis, Kew Bull. 66(1): 113-114, fig. 2 (p. 115), 2011. Typus: *Sebsebe & al.* 6764 (ETH, K).
- Aloe karasbergensis** ssp. **hunsbergensis** van Jaarsveld & Swanepoel, Aloe 48(3): 64-66, ills., 2011. Typus: *van Jaarsveld & Swanepoel* 21018 (WIND).
- Aloe knersvlaktensis** S. J. Marais, Aloe 47(4): 96-97, ills. (pp. 96-99), 2011. Typus: *Marais* s.n. (NBG). [Volume for 2010, received at ZSS Feb. 2011.]
- Aloe mottramiana** J.-B. Castillon, CactusWorld 29(4): 218-219, ills., 2011. Typus: *Castillon* 51 (TAN). [First used as provisional invalid (Art. 29.1, 36.1) name by J.-B. & J.-P. Castillon, Aloe Madagascar, Addendum No. 1: 12, ills., 2011.]
- Aloe sharoniae** N. R. Crouch & G. F. Smith, Bradleya 29: 116, figs. 1-5 (pp. 117-118), 2011. Typus: *Harrison* 980 (PRE). [*Nom. nov. pro Aloe cooperi* ssp. *pulchra* Glen & D. S. Hardy 1987.]
- Aloe spinitriaggregata** J.-B. Castillon, Cact.-Avent. Int. 90: 2-5, ills., 2011. Typus: *Castillon* 47 (TAN, P).
- Aloe springatei-neumannii** L. E. Newton, Bradleya 29: 58, figs. 1-2 (p. 59), 2011. Typus: *Springate* 99.008A (EA).
- Aloe tegetiformis** L. E. Newton, Bradleya 29: 60, figs. 3-5 (p. 59), 2011. Typus: *Powys* 1259 (EA).
- Aloe tongaensis** van Jaarsveld, Aloe 47(3): 71, ills. (pp. 64-65, 71), 2011. Typus: *van Jaarsveld & Powrie* 12202 (PRE). [Dated Dec. 2010, received at ZSS Feb. 2011.]
- Aloe wanalensis** T. C. Cole & T. G. Forrest, Cact. Succ. J. (Los Angeles) 83(1): 34-37, ills., 2011. Typus: *Cole & Forrest* 440 (MHU, EA).
- Aloe welmelensis** Sebsebe & Nordal, Kew Bull. 60(1): 117, 120, fig. 4 (p. 119), 2011. Typus: *Sebsebe & al.* 6655 (ETH, K).
- Aloe weloensis** Sebsebe, Kew Bull. 60(1): 117, fig. 3 (p. 118), 2011. Typus: *Sebsebe & al.* 6275 (ETH).
- Gasteria croucheri** ssp. **pondoensis** N. R. Crouch & al., Bothalia 41(1): 183-184, ill., 2011. Typus: *Crouch & Syles* 1149 (NH).
- Haworthia groenewaldii** Breuer, Alsterworthia Int. 11(2): 15-20, ills., (3): 4 [erratum], 2011. Typus: *Groenewald* 1 (NBG).

Haworthia splendens var. **hansii** M. Hayashi, *Haworthia Study* 24: 3, ills., 2011. Typus: *Hayashi* 09-221 (TI). [Dated Dec. 2010, received at ZSS Feb. 2011.]

Haworthia splendens var. **ingoii** M. Hayashi, *Haworthia Study* 24: 3, ills., 2011. Typus: *Hayashi* 03-245 (TI). [Dated Dec. 2010, received at ZSS Feb. 2011.]

Haworthia splendens var. **masai** M. Hayashi, *Haworthia Study* 24: 3, ills., 2011. Typus: *Marx* 447 (TI). [Dated Dec. 2010, received at ZSS Feb. 2011.]

Haworthia truterorum Breuer & Marx, *Aloe* 48(3): 54-57, ills., 2011. Typus: *Marx* 676 (GRA). [Sphalm. 'truterorum'.]

ASTERACEAE

Gazania splendissima Mucina & al., *S. African J. Bot.* 77: 89-92, ills., 2011. Typus: *Mucina & Santos Guerra* 7237/4 (NBG, GRA).

Senecio oribiensis van Jaarsveld, *Aloe* 48(4): 78-80, ills., 2011. Typus: *van Jaarsveld* 22763 (PRE).

BEGONIACEAE

Begonia blancii M. Hughes & C.-I Peng, *Bot. Studies (Nangang)* 52: 204-205, ills., 2011. Typus: *Blanc & Rubite* 09-201 (PNH, E, SING).

BURSERACEAE

Commiphora buruxa Swanepoel, *S. African J. Bot.* 77: 609-610, ills., 2011. Typus: *Swanepoel* 282 (WIND, PRE).

CACTACEAE

Acharagma huasteca Elhart, *CactusWorld* 29(2): 105-106, ill., 2011. Typus: *Elhart* s.n. (MEXU).

Andinopuntia Guiggi, *Cactology* 2(Suppl.): 1, 2011. Typus: *Opuntia floccosa*.

Andinopuntia floccosa (Salm-Dyck) Guiggi, *Cactology* 2(Suppl.): 1, 2011. Basionym: *Opuntia floccosa*.

Andinopuntia lagopus (K. Schumann) Guiggi, *Cactology* 2(Suppl.): 1, 2011. Basionym: *Opuntia lagopus*.

Astrophytum capricorne ssp. **sanjuanense** Pavlíček, *Kaktusy (Brno)* 47(1): 5, ills. (pp. 4-9), 2011. Typus: *Pavlíček* s.n. (PR 745389).

Aylostera albiareolata (F. Ritter) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2777, 2011. Basionym: *Rebutia albiareolata*.

Aylostera albopectinata (Rausch) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2777, 2011. Basionym: *Rebutia albopectinata*.

Aylostera amblypetala (F. Ritter) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Rebutia rosalbiflora* var. *amblypetala*.

Aylostera applanata (Rausch) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Lobivia steinmannii* var. *applanata*.

Aylostera atrovirens (Backeberg) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Lobivia atrovirens*.

Aylostera aureiflora (Backeberg) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Rebutia aureiflora*.

Aylostera brachyantha (Wessner) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Lobivia brachyantha*.

Aylostera brighignae (Mosti & Papini) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Rebutia brighignae*.

Aylostera brunneoradicata (F. Ritter) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Rebutia brunneoradicata*.

Aylostera brunnescens (Rausch) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2777, 2011. Basionym: *Rebutia brunnescens*. [Sphalm. 'brunescens'.]

Aylostera buiningiana (Rausch) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2777, 2011. Basionym: *Rebutia buiningiana*.

Aylostera cajasensis (F. Ritter) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2777, 2011. Basionym: *Rebutia cajasensis*.

Aylostera camargoensis (Rausch) Mosti & Papini, *Pakistan J. Bot.* 43(6): 2780, 2011. Basionym: *Rebutia camargoensis*. [Name first

- used inadvertently by Rausch, *Lobivia* 85, 129, 1987 (*nom. inval.*, Art. 34.1), erroneously applied in an incorrect basionym citation for a combination under *Lobivia*.]
- Aylostera canacruzensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2780, 2011. Basionym: *Rebutia canacruzensis*.
- Aylostera carmeniana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2780, 2011. Basionym: *Rebutia carmeniana*.
- Aylostera christinae** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2780, 2011. Basionym: *Rebutia christinae*.
- Aylostera cincinnata** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia cincinnata*.
- Aylostera cintiensis** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2777, 2011. Basionym: *Rebutia cintiensis*.
- Aylostera colorea** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia colorea*.
- Aylostera crassa** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Lobivia haagei* var. *crassa*.
- Aylostera diersiana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia diersiana*.
- Aylostera diersiana** ssp. **atrovirens** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia diersiana* var. *atrovirens*.
- Aylostera donaldiana** (A. B. Lau & G. D. Rowley) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia donaldiana*.
- Aylostera einsteinii** (Fric ex Kreuzinger & Buning) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia einsteinii*.
- Aylostera eos** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia eos*.
- Aylostera fischeriana** (Slaba) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia fischeriana*.
- Aylostera flavistyla** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia flavistyla*.
- Aylostera friedrichiana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia friedrichiana*.
- Aylostera froehlichiana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia froehlichiana*.
- Aylostera fulviseta** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia fulviseta*.
- Aylostera fusca** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia fusca*.
- Aylostera gavazzii** (Mosti) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia gavazzii*.
- Aylostera gonjianii** (R. Kiesling) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia gonjianii*.
- Aylostera haagei** (Fric & Schelle) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia haagei*.
- Aylostera haagei** ssp. **elegantula** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Lobivia haagei* var. *elegantula*.
- Aylostera haagei** ssp. **mudanensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Rebutia mudanensis*.
- Aylostera haefneriana** (Cullmann) Mosti & Papini, Pakistan J. Bot. 43(6): 2781, 2011. Basionym: *Mediolobivia haefneriana*.
- Aylostera heliosa** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia heliosa*.
- Aylostera heliosa** ssp. **cajasensis** (Donald) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia heliosa* var. *cajasensis*.
- Aylostera heliosa** ssp. **condorensis** (Donald) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia heliosa* var. *condorensis*.
- Aylostera hoffmannii** (Diers & Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia hoffmannii*.
- Aylostera huasiensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia huasiensis*. [Name first used inadvertently by Rausch, *Lobivia* 85, 13, 1987 (*nom. inval.*, Art. 34.1), erroneously in the incorrect basionym citation for the combination under *Lobivia*.]
- Aylostera iridescens** (F. Ritter) Mosti & Papini, 43(6): 2782, 2011. Basionym: *Rebutia iridescens*.

- Aylostera iscayachensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia iscayachensis*.
- Aylostera jujuyana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia jujuyana*.
- Aylostera kieslingii** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia kieslingii*.
- Aylostera knizei** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia pygmaea* var. *knizei*.
- Aylostera leucacantha** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia steinmannii* var. *leucacantha*.
- Aylostera leucanthera** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia leucanthera*.
- Aylostera major** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia steinmannii* var. *major*.
- Aylostera mamillosa** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia mamillosa*.
- Aylostera marieae** (L. Fischer & Halda) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia marieae*.
- Aylostera melanocentra** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia steinmannii* var. *melanocentra*.
- Aylostera minor** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia diersiana* var. *minor*.
- Aylostera mixticolor** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia mixticolor*.
- Aylostera nazarenoensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Digitorebutia nazarenoensis*.
- Aylostera nigricans** (Wessner) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia nigricans*.
- Aylostera nigricans** ssp. *albispina* (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia nigricans* var. *albispina*.
- Aylostera nitida** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia nitida*.
- Aylostera nogalesensis** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2778, 2011. Basionym: *Rebutia nogalesensis*. [Sphalm. ‘nogalensis’.]
- Aylostera oculata** (Werdermann) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Rebutia oculata*.
- Aylostera oculata** ssp. *tilcarensis* (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2782, 2011. Basionym: *Lobivia euanthema* var. *tilcarensis*.
- Aylostera odehnalii** (Halda & al.) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia odehnalii*.
- Aylostera orurensis** (Backeberg) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia orurensis*.
- Aylostera pallida** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia pallida*.
- Aylostera parvula** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia steinmannii* var. *parvula*.
- Aylostera patericalyx** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia patericalyx*.
- Aylostera pauciareolata** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia pauciareolata*.
- Aylostera pelzliana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia haagei* var. *pelzliana*.
- Aylostera perplexa** (Donald) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia perplexa*.
- Aylostera polypetalata** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia pygmaea* var. *polypetalata*.
- Aylostera pseudoritteri** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia atrovirens* var. *pseudoritteri*.
- Aylostera pulchella** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia pulchella*.
- Aylostera pygmaea** (R. E. Fries) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Echinopsis pygmaea*.
- Aylostera raffaellii** (Mosti & Papini) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia raffaellii*.
- Aylostera raulii** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia raulii*.

- Aylostera ritteri** (Wessner) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia ritteri*.
- Aylostera robustispina** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia robustispina*.
- Aylostera rovidana** (Mosti & Papini) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia rovidana*.
- Aylostera schatzliana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia schatzliana*.
- Aylostera simoniana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia simoniana*.
- Aylostera sumayana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia sumayana*.
- Aylostera supthutiana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia supthutiana*.
- Aylostera tafnaensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Lobivia pygmaea* var. *tafnaensis*.
- Aylostera tamboensis** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia tamboensis*.
- Aylostera tarijensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia tarijensis*.
- Aylostera tarvitaensis** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia tarvitaensis*.
- Aylostera torquata** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2783, 2011. Basionym: *Rebutia torquata*.
- Aylostera tropaeolipicta** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Rebutia tropaeolipicta*.
- Aylostera tuberculata** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Lobivia steinmannii* var. *tuberculata*.
- Aylostera vallegrandensis** (Cárdenas) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia vallegrandensis*.
- Aylostera violaceostaminata** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Lobivia pygmaea* var. *violaceostaminata*.
- Aylostera violascens** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Rebutia violascens*.
- Aylostera vulpina** (F. Ritter) Mosti & Papini, Pakistan J. Bot. 43(6): 2779, 2011. Basionym: *Rebutia vulpina*.
- Aylostera wahliana** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2780, 2011. Basionym: *Rebutia wahliana*.
- Aylostera walteri** (Diers) Mosti & Papini, Pakistan J. Bot. 43(6): 2780, 2011. Basionym: *Rebutia walteri*.
- Aylostera yuncharasensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Lobivia atrovirens* var. *yuncharasensis*.
- Aylostera yuquinensis** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Rebutia yuquinensis*.
- Aylostera zecheri** (Rausch) Mosti & Papini, Pakistan J. Bot. 43(6): 2784, 2011. Basionym: *Rebutia zecheri*. [Name first inadvertently used by Rausch in *Lobivia* 85, 13, 1987 (*nom. inval.*, Art. 34.1), erroneously used in the incorrect basionym citation for the combination under *Lobivia*.]
- Banfiopuntia** Guiggi, *Cactology* 2(Suppl.): 1, 2011. Typus: *Opuntia verschaffeltii*.
- Banfiopuntia verschaffeltii** (J. F. Cels ex F. A. C. Weber) Guiggi, *Cactology* 2(Suppl.): 1, 2011. Basionym: *Opuntia verschaffeltii*.
- Brasilicereus estevesii** (Hofacker & P. J. Braun) N. P. Taylor & M. Machado, *Cactaceae Syst. Init.* 25: 7, 2011. Basionym: *Bragia estevesii*.
- ×**Cleistaageocereus** Mordhorst, *Kakt. and. Sukk.* 62(9): 228, 2011. [= *Cleistocactus* × *Haageocereus*.]
- Copiopoa griseoviolacea** Keim & I. Schaub, *Cactus & Co.* 14(4): 8-15, ills., 2011. Typus: *Schaub & Keim* s.n. (SGO). [Volume for 2010, received at ZSS March 2011.]
- Corynopuntia bulbispina** ssp. **basileocephala** D. Donati, *Piante Grasse* 30(1): 17, ills. (pp. 13-14, 16, 18), 2011. Typus: *Hinton & al.* 29069 (Herb. Hinton, MEXU).
- Coryphantha ottonis* ssp. *boehmei* B. Hofmann & H. Otto, *Mitteilungsbl. Arbeitskreises Mammillarienfr.* 35(2): 125, ills. (pp. 124, 126-127), 2011. Based on *Anonymus* s.n. in *UAT* 22253. *Nom. inval.* (Art. 37.2).
- Cumulopuntia iturbicola** G. Charles, *Cactaceae Syst. Init.* 25: 12, ill. (p. 11), 2011. Typus: *Charles & al.* 180.09 (K).

- Cumulopuntia subterranea** ssp. **pulcherrima** (Halda & Horáček) G. Charles, *Cactaceae Syst. Init.* 25: 16, ill. (p. 14), 2011. Basionym: *Tephrocactus pulcherrimus*.
- ×**Echinaageocereus** Mordhorst, *Kakt. and. Sukk.* 62(9): 228, 2011. [= *Echinopsis* × *Haageocereus*.]
- Echinocereus parkeri** ssp. **rayonesensis** (N. P. Taylor) D. Felix & W. Blum, *Echinocereus parkeri*-Gruppe, 99, 2011. Basionym: *Echinocereus rayonesensis*.
- Echinocereus reichenbachii** ssp. **albertii** (L. D. Benson) Pilbeam, *Echinocereus*, 117, ill., 2011. Basionym: *Echinocereus reichenbachii* var. *albertii*.
- Echinopsis serpentina** M. Lowry & J. M. Mendoza, *CactusWorld* 29(2): 95-99, ills., 2011. Typus: *Mendoza* 3369 (USZ, K, LPB).
- Epithelantha cryptica** D. Donati & Zanollo, *Epithelantha* 2011, 55, ill. (pp. 52-57), 2011. Typus: *Hinton & al.* 29258 (Herb. G. B. Hinton, MEXU).
- Eriosyce napina** ssp. **llanensis** I. Schaub & Keim, *Cactus & Co.* 15(1): 36, 38, ill. (pp. 34-42), 2011. Typus: *Schaub & Keim* s.n. in *SGO* 160015 (SGO).
- Eriosyce napina** ssp. **pajonalensis** I. Schaub & Keim, *Cactus & Co.* 15(1): 47-49, ill. (pp. 44-51), 2011. Typus: *Schaub & Keim* s.n. in *SGO* 159376 (SGO).
- Eriosyce spectabilis** A. E. Hoffmann & H. E. Walter ex Kattermann & al., *Cact. Succ. J.* (Los Angeles) 83(5): 198-201, ill., 2011. Typus: *Acosta* 704 (CONC). [First published as provisional name (*nom. inval.*, Art. 36.1, 37.1) by A. E. Hoffmann & H. E. Walter, *Cact. Fl. Chile*, ed. 2, 236-237, ill. (t. 85), 2005 ('2004') (cf. RPS 56).]
- Eulychnia chorosensis** P. Klaassen, *Cact. Succ. J.* (Los Angeles) 83(4): 172, ill. (pp. 173-175), 2011. Typus: *Ritter* 650 loc. 1 (U 160433B, SGO [status ?], ZSS [seeds only, status ?]). [*Nom. nov. pro Eulychnia acida* var. *procumbens* F. Ritter 1980.]
- Eulychnia taltalensis** (F. Ritter) Hoxey, *Cact. Succ. J.* (Los Angeles) 83(4): 169, ill. (pp. 170-172), 2011. Basionym: *Eulychnia breviflora* var. *taltalensis*.
- Frailea atrobella** Diers & al., *Kakt. and. Sukk.* 62(6): 155-159, ill., 2011. Typus: *Krahn* 1116 (LPB, WU).
- ×**Graeserara** Mordhorst, *Kakt. and. Sukk.* 62(9): 228, 2011. [= *Cleistocactus* × *Echinopsis* × *Haageocereus*.]
- Gymnocalycium** Subgen. **Scabrosemineum** Demain, *Amer. J. Bot.* 98(11): 1849, 2011. Typus: *Echinocactus monvillei* Lemaire.
- Gymnocalycium affine** Repka, *Cact. Succ. J.* (Los Angeles) 82(6): 260-262, ill., 2011. Typus: *Repka* 445 (CORD). [Dated Dec. 2010, received at ZSS Febr. 2011.]
- Gymnocalycium andreae** ssp. **pabloi** Neuhauser, *Gymnocalycium* 24(2): 985-988, ill., 2011. Typus: *Neuhauser* 99-1051/3728 (CORD, WU).
- Gymnocalycium esperanzae** Repka & Kulhánek, *Schütziana* 2(3): 4-6, ill. (pp. 7-19), 2011. Typus: *Repka* 434 (CORD). [Despite the statement in the impressum of the journal that the publication is only available in digital form over the internet, paper printouts have been distributed to various botanical libraries, which make the publication valid under ICBN 29.1.]
- Gymnocalycium oenanthemum** var. **tillianum** (Rausch) Slaba, *Kaktusy* (Brno) 47(2): 44, 2011. Basionym: *Gymnocalycium tillianum*.
- Maihueiniopsis glochidiata** G. Charles, *Cactaceae Syst. Init.* 25: 20, ill. (p. 18), 2011. Typus: *Charles & al.* 407A (K).
- Maihueiniopsis hickenii** (Britton & Rose) D. R. Hunt, *Cactaceae Syst. Init.* 25: 21, ill. (p. 19), 2011. Basionym: *Opuntia hickenii*.
- Maihueiniopsis platyacantha** (Pfeiffer) D. R. Hunt, *Cactaceae Syst. Init.* 25: 24, ill. (pp. 19, 28), 2011. Basionym: *Opuntia platyacantha*.
- Maihueiniopsis reicheana* (Espinosa) Kattermann, *Cact. Succ. J.* (Los Angeles) 83(4): 155, figs. 26-27 (p. 157), 2011. *Nom. inval.* (Art. 33.4), based on *Opuntia reicheana*.
- Mammillaria cielenis** Martínez-Ávalos & al., *Acta Bot. Mex.* 97: 84-86, ill., 2011. Typus: *Martínez-Ávalos* 890 (UAT, ANSM, MEXU, UT).
- Parodia catamarcensis** var. **mesembrina** (F. H. Brandt) Käisinger, *Mitteilungsbl. Inter-Parodia-Kette* 27: 18, ill., 2011. Basionym: *Parodia mesembrina*.
- Parodia lenninghausii** (F. Haage) F. H. Brandt ex Eggli & Hofacker, *Novon* 20(1): 31, 2010. Basionym: *Pilocereus lenninghausii*. [First published invalidly (Art. 33.7(d) by F. H. Brandt, *Kakt. Orch.-Rundschau* 7(4): 61,

1982. Name given with incorrect basionym and bracket author in RPS 61.]
- Peruviopuntia** Guiggi, *Cactology* 2(Suppl.): 1-2, 2011. Typus: *Opuntia pachypus*.
- Peruviopuntia pachypus** (K. Schumann) Guiggi, *Cactology* 2(Suppl.): 2, 2011. Basionym: *Opuntia pachypus*.
- Pilosocereus frewenii** Zappi & N. P. Taylor, *Bradleya* 29: 132, figs. 3-11 (pp. 133-135), 2011. Typus: *Zappi & Taylor* 2208 (SPF, RB).
- Pilosocereus panchesorium** Xhonneux, *Cact.-Avent. Int.* 92: 13-17, ill., 2011. Typus: *Xhonneux* 2840 (COL).
- Punotia** D. R. Hunt, *Cactaceae Syst. Init.* 25: 26, 2011. Typus: *Opuntia lagopus* K. Schumann.
- Punotia lagopus** (K. Schumann) D. R. Hunt, *Cactaceae Syst. Init.* 25: 26, 2011. Basionym: *Opuntia lagopus*.
- Rebutia albidula** Slaba & al., *Kaktusy (Brno)* 47(3): 76-79, ill., 2011. Typus: *Slaba* 12d-99 (PRC).
- Rhipsalis hileibaiana** (N. P. Taylor & Barthlott) N. Korotkova & Barthlott, *Amer. J. Bot.* 98(9): 1565, 2011. Basionym: *Rhipsalis baccifera* ssp. *hileibaiana*.
- Salmiopuntia salmiana** (J. Parmentier ex Pfeiffer) Fric ex Guiggi, *Cactology* 2(1): 2, 2011. Basionym: *Opuntia salmiana*. [First published by Fric in Kreuzinger, *Verzeichn. amerik. Kakt. and. Sukk.*, 41, 1935, when the generic name was not yet validly published.]
- ×*Schickara* Mordhorst, *Kakt. and. Sukk.* 62(9): 228, 2011. *Nom. inval.* (Art. H4.1). [= ×*Cleistochinocana* Licznarski 2009 = *Cleistocactus* × *Echinopsis* × *Matucana*.]
- Schlumbergera lutea** Calvente & Zappi, *Molec. Phylogen. Evol.* 58: 467, 2011. Typus: *Campos-Porto* s.n. (B [fragment]). [*Nom. nov. pro Rhipsalis epiphylloides* Campos-Porto & Werdermann 1935.]
- Schlumbergera lutea** ssp. **bradei** (Campos-Porto & A. Castellanos) Calvente & Zappi, *Molec. Phylogen. Evol.* 58: 467, 2011. Basionym: *Hariota epiphylloides* var. *bradei*.
- Schlumbergera rosea** (Lagerheim) Calvente & Zappi, *Molec. Phylogen. Evol.* 58: 467, 2011. Basionym: *Rhipsalis rosea*.
- Sulcorebutia atrospinosa** J. de Vries, *Succulenta (Netherlands)* 90(1): 11-17, ill., 2011. Typus: *de Vries & van Zomeren* 657 (LPB, WU).
- Sulcorebutia insperata** R. Müller, *Kakt. and. Sukk.* 62(7): 185-186, ill. (pp. 183-189), 2011. Typus: *Müller* 812 (HAL, LPB). [Name first used as provisional name (*nom. inval.*, Art. 36.1, 37.1; cf. RPS 61) in *Echinopseen* 7(1): 26-27, ill., 2010.]
- Sulcorebutia lamprochlora** J. de Vries, *Succulenta (Netherlands)* 90(1): 12, 15-19, ill., 2011. Typus: *de Vries & van Zomeren* 658 (LPB, WU).
- Sulcorebutia sormae** Hertus & al., *Kaktusy (Brno)* 47(1): 31-33, ill., 2011. Typus: *Horáček* 1663 (PRC).
- Sulcorebutia tiraquensis** var. **huanacuniensis** Gertel, *Kakt. and. Sukk.* 62(11): 284-285, ill., 2011. Typus: *Gertel* 183/8 (LPB, ZSS).
- Tacinga subcylindrica** (M. Machado & N. P. Taylor) M. Machado & N. P. Taylor, *Bradleya* 29: 23, 2011. Basionym: *Tacinga inamoena* ssp. *subcylindrica*.
- Tephrocactus recurvatus** (Gilmer & Thomas) D. R. Hunt & Ritz, *Cactaceae Syst. Init.* 25: 27, ill. (p. 29), 2011. Basionym: *Cumulopuntia recurvata*.
- Tephrocactus verschaffeltii** (J. F. Cels ex F. A. C. Weber) D. R. Hunt & Ritz, *Cactaceae Syst. Init.* 25: 27, 2011. Basionym: *Opuntia verschaffeltii*.
- Thelocactus lophothele** ssp. **freudenbergeri** (R. Haas) Matuszweski, *Thelocactus Syst. Wystep.* Uprawa, 184, ill., 2011. Basionym: *Thelocactus rinconensis* var. *freudenbergeri*.
- Thelocactus lophothele** ssp. **hintonii** (J. Lüthy) Matuszweski, *Thelocactus Syst. Wystep.* Uprawa, 177, ill., 2011. Basionym: *Thelocactus rinconensis* ssp. *hintonii*.
- Thelocactus lophothele** ssp. **nidulans** (Quehl) Matuszweski, *Thelocactus Syst. Wystep.* Uprawa, 180, ill., 2011. Basionym: *Echinocactus nidulans*.
- Thelocactus lophothele** ssp. **palomaensis** (Pavlíček & Zatloukal) Matuszweski, *Thelocactus Syst. Wystep.* Uprawa, 188, ill., 2011. Basionym: *Thelocactus rinconensis* ssp. *palomaensis*.
- Thelocactus lophothele** ssp. **rinconensis** (Poselger) Matuszweski, *Thelocactus Syst. Wystep.* Uprawa, 170, ill., 2011. Basionym: *Echinocactus rinconensis*.

- Thelocephala challensis** (I. Schaub & Keim) Faúndez & Saldivia, *Gayana, Bot.* 68(2): 317, 2011. Basionym: *Eriosyce napina* ssp. *challensis*.
- Thelocephala lembckeii** (Kattermann) Faúndez & Saldivia, *Gayana, Bot.* 68(2): 317, 2011. Basionym: *Eriosyce napina* var. *lembckeii*.
- Thelocephala monte-amarguensis** (Kattermann) Faúndez & Saldivia, *Gayana, Bot.* 68(2): 317, 2011. Basionym: *Eriosyce odieri* var. *monte-amargensis*.
- Thelocephala riparia** (Mächler & H. E. Walter) Faúndez & Saldivia, *Gayana, Bot.* 68(2): 317, 2011. Basionym: *Eriosyce napina* ssp. *riparia*.
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- Trichopuntia shaferi** (Britton & Rose) Guiggi, *Cactology* 2(Suppl.): 2, 2011. Basionym: *Opuntia shaferi*.
- Trichopuntia shaferi** ssp. **humahuacana** (Backeberg) Guiggi, *Cactology* 2(Suppl.): 2, 2011. Basionym: *Cylindropuntia humahuacana*.
- Trichopuntia vestita** (Salm-Dyck) Guiggi, *Cactology* 2(Suppl.): 2, 2011. Basionym: *Opuntia vestita*.
- Turbincarpus graminispinus** Matuszewski & al., *Cactus & Co.* 14(4): 21, ills. (pp. 14-31), 2011. Typus: *Hinton* 29084 (Herb. G. B. Hinton). [Volume for 2010, received at ZSS March 2011.]
- Turbincarpus saueri** ssp. **nieblae** (García-Morales & al.) A. Hofer, *Terra Seca* 2011(2): 42, ill., 2011. Basionym: *Turbincarpus nieblae*.
- Weingartia gemmae** ssp. **naunacaensis** (J. de Vries) Gertel, *Echinopseen* 8(2): 58, 2011. Basionym: *Sulcorebutia naunacaensis*.
- Weingartia gemmae** var. **elizabethae** (J. de Vries) Gertel, *Echinopseen* 8(2): 58, 2011. Basionym: *Sulcorebutia elizabethae*.
- Weingartia gemmae** var. **naunacaensis** (J. de Vries) Gertel, *Echinopseen* 8(2): 58, 2011. Basionym: *Sulcorebutia naunacaensis*.
- Weingartia pucarensis** Diers & Jucker, *Kakt. and. Sukk.* 62(5): 129-131, ills., 2011. Typus: *Jucker* 1201 (LPB, WU).

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- Adromischus ×fosteri** J. M. H. Shaw, *Cactus-World* 29(4): 204, ill., 2011. Typus: WSY. [= *Adromischus humilis* × *A. phillipsiae*. Obtained in cultivation.]
- Aeonium arboreum** ssp. **korneliuslemsii** (H. Y. Liu) Dobignard, in Dobignard & Chatelain, *Index Syn. Fl. Afrique* N. 3: 354, 2011. Basionym: *Aeonium korneliuslemsii*.
- Crassula fragarioides** van Jaarsveld & Helme, *Bradleya* 29: 53-54, ills. (pp. 52, 55), 2011. Typus: *Helme* 6109 (NBG, BOL).
- Echeveria aurantiaca** Reyes & al., *Cact. Suc. Mex.* 56(3): 70-71, ills. (pp. 69, 72-74), 2011. Typus: *Reyes* 6012 (MEXU).
- Echeveria gudeliana** Véliz & García-Mendoza, *Cact.-Avent. Int.* 91: 2-5, ills., 2011. Typus: *Véliz* 22564 (BIGU, CAS, F, MEXU, MO).
- Echeveria guerrerensis** Reyes & al., *Cact. Suc. Mex.* 56(3): 78-79, ills. (pp. 76-77, 80-81), 2011. Typus: *Salazar* 7478 (MEXU).
- Echeveria novogaliciana** Reyes & al., *Cact. Suc. Mex.* 56(3): 89-91, ills. (pp. 84-85, 88-89, 92), 2011. Typus: *Reyes & al.* 5184 (MEXU).
- Echeveria purhepecha** I. García, *Revista Mex. Biodivers.* 82(1): 63-64, ills. (pp. 66-67), 2011. Typus: *García & Machuca* 4491 (IEB, CIMI, ENCB, MEXU, MICH).
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- Rhodiola feiyongii** H. Ohba & al., *J. Jap. Bot.* 86(2): 100-103, figs. 5-6, 2011. Typus: *Wu & al.* 5009 (KUN, TI).
- Rhodiola fushuhsiae** H. Ohba & al., *J. Jap. Bot.* 86(2): 105-107, figs. 8-9, 2011. Typus: *Wu & al.* 1835 (KUN, TI).
- Rhodiola kunlunica** H. Ohba & al., *J. Jap. Bot.* 86(2): 96, figs. 1-2, 2011. Typus: *Wu* 1977 (KUN, TI).

- Rhodiola saxicola** H. Ohba & al., J. Jap. Bot. 86(2): 107-109, figs. 10-11, 2011. Typus: Wu & al. 2076 (KUN, TI).
- Sedum** Sect. **Bracteata** (Fröderström) N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 244, 2011. Basionym: *Sedum* group *Bracteata*.
- Sedum* Sect. **Chamaetelephium** (Fröderström) N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 247, 2011. *Nom. illeg.* (Art. 52.1). [Sphalm. 'Chamae-telephium'. Illegitimate because *Sedum* Sect. *Populisedum* A. Berger 1930 is included as synonym.]
- Sedum* Sect. **Japonica** (Maximowicz) N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 254, 2011. *Nom. inval.* (Art. 33.4). [The name used as basionym is itself a combination and this is here corrected, together with the bracket author citation. The combination remains invalid under Art. 33, Ex. 20.]
- Sedum** Sect. **Perpusilla** (Fröderström) N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 220-221, 2011. Basionym: *Sedum* subgroup *Perpusilla*.
- Sedum** Sect. **Roborowskia** (Fröderström) N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 236, 2011. Basionym: *Sedum* subgroup *Roborowskia*.
- Sedum* Subgen. **Kyphocarpia** N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 241-242, 2011. *Nom. illeg.* (Art. 52.1). [Based on *Sedum* Sect. *Asiatica Genuina Kyphocarpia* Fröderström 1931, but illegitimate since *Sedum* Subgen. *Aizoon* is cited in the synonymy.]
- Sedum* Subgen. **Orthocarpia** N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 208, 2011. *Nom. illeg.* (Art. 52.1). [Based on *Sedum* Sect. *Asiatica Genuina Orthocarpia* Fröderström 1931, but illegitimate since *Sedum* Subgen. *Oreades* and *Sedum* Subgen. *Sedum* are cited in the synonymy.]
- Sedum beauverdii** ssp. **vietnamense** (V. V. Byalt) J. M. H. Shaw, Plantsman, n.s., 10(4): 237, 2011. Basionym: *Sedum vietnamense*.
- Sedum pedicellatum* N. B. Singh & U. C. Bhattacharyya, in N. B. Singh & al., Crassulaceae India, 230-231, t. 43 (p. 233), 2011. Based on Pant & Naithani 39603. *Nom. illeg.* (Art. 53.1). [Non *Sedum pedicellatum* Boissier & Reuter 1842.]
- Sedum plumbizincicola* L.-H. Wu & al., Soils 38(5): 632-633, 2006. *Nom. inval.* (Art. 36.1). [Omitted previously.]
- Sedum salazarii** Reyes & González Zorzano, Cact. Succ. J. (Los Angeles) 83(5): 237, ills. (pp. 236-239), 2011. Typus: Salazar & al. 7432 (MEXU).
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- Sempervivum davisii** ssp. **furseorum** (Muirhead) F. Karaer, Nordic J. Bot. 29(1): 51, 2011. Basionym: *Sempervivum furseorum*.
- Sempervivum globiferum** ssp. **glabrescens** (Sabransky) M. Werner, Avonia 28(4): 130, 2011. Basionym: *Sempervivum hirtum* fa. *glabrescens*. [Volume for 2010, published Feb. 2011.]
- Sempervivum globiferum** ssp. **preissianum** (Domin) M. Werner, Avonia 28(4): 191, 2011. Basionym: *Sempervivum preissianum*. [Volume for 2010, published Feb. 2011.]
- Sempervivum globiferum** var. **hillebrandtii** (Schott) M. Werner, Avonia 28(4): 130, 2011. Basionym: *Sempervivum hillebrandtii*. [Volume for 2010, published Feb. 2011.]
- Sempervivum montanum* fa. **grande** P. Horáček, SempPress 2011: 7, ills., 2011. *Nom. inval.* (Art. 36.1, 37.1). [Sphalm. 'grandum'.]
- Tylecodon opelii** van Jaarsveld & S. A. Hammer, Cact. Succ. J. (Los Angeles) 83(4): 140-143, ills., 2011. Typus: van Jaarsveld 22751 (NBG).
- Tylecodon paniculatus** ssp. **glaucus** van Jaarsveld, Aloe 48(4): 93-95, ills., 2011. Typus: van Jaarsveld & Swanepoel 21098 (WIND).
- Vauanthes** Sect. **Dinacria** (Harvey) V. V. Byalt, Novosti Sist. Vyssh. Rast. 42: 171, 2011. Basionym: *Dinacria*.
- Vauanthes depressa** (Ecklon & Zeyher) V. V. Byalt, Novosti Sist. Vyssh. Rast. 42: 170, 2011. Basionym: *Grammanthes depressa*.
- Vauanthes filiformis** (Ecklon & Zeyher) V. V. Byalt, Novosti Sist. Vyssh. Rast. 42: 171, 2011. Basionym: *Grammanthes filiformis*.

Vauanthes grammanthoides (Schönland) V. V. Byalt, Novosti Sist. Vyssh. Rast. 42: 171, 2011. Basionym: *Dinacria grammanthoides*.

Vauanthes sebaeoides Byalt & Fedor, Novosti Sist. Vyssh. Rast. 40: 330, 2008. Basionym: *Grammanthes sebaeoides*. [Omitted previously, cited from Byalt, Novosti Sist. Vyssh. Rast. 42: 171, 2011.]

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Cucumis Sect. **Cucumella** (Chioevda) H. Schaefer, Blumea 52: 170, 2007. Basionym: *Cucumella*. [Omitted previously.]

Cucumis Subgen. **Humifructus** H. Schaefer, Blumea 52: 167, 2007. Typus: *Cucumis humifructus* Stent. *Nom. nov. pro Cucumis* Ser. *Humifructosi* J. H. Kirkbride 1993. Omitted previously.

Cucumis bryoniifolius (Merxmüller) Ghebretinsae & Thulin, Novon 17(2): 177 [20. June], 2007. Basionym: *Hymenosicyos bryoniifolius*. [Combination repeated by H. Schaefer, Blumea 52(1): 170 [4. July 2007]. Omitted previously.]

Momordiceae H. Schaefer & S. S. Renner, Taxon 60(1): 130, 2011. Typus: *Momordica* Linné.

Thladiantheae H. Schaefer & S. S. Renner, Taxon 60(1): 130, 2011. Typus: *Thladiantha* Bunge.

Xerosicyos hirtellus (Humbert) H. Schaefer & S. S. Renner, Taxon 60(1): 135, 2011. *Nom. inval.*, based on *Zygosicyos hirtellus*, *nom. inval.* (Art. 34.1b).

Xerosicyos tripartitus (Humbert) H. Schaefer & S. S. Renner, Taxon 60(1): 135, 2011. Basionym: *Zygosicyos tripartitus*.

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Eriospermum strachaniae van Jaarsveld, Aloe 48(3): 52-53, ills., 2011. Typus: *van Jaarsveld & al.* 21045 (WIND).

EUPHORBIACEAE

Euphorbia polygona var. **nivea** D. H. Schnabel, Euphorbia World 7(1): 25-26, ills. (pp. 20, 23-24, 26), 2011. Typus: *Schnabel* 1 (GRA).

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Pelargonium elandsmontanum E. M. Marais ex J. C. Manning & Goldblatt, S. African J. Bot. 77(1): 242, ills., 2011. Typus: *Manning* 3210 (NBG, MO).

GESNERIACEAE

Primulina carnosifolia (C. Y. Wu & H. W. Li) Y. Z. Wang, J. Syst. Evol. 49(1): 60-61, 2011. Basionym: *Chirita carnosifolia*.

Primulina dryas (Dunn) Mich. Möller & A. Weber, Taxon 60(3): 782, 2011. Basionym: *Chirita dryas*.

Primulina maguanensis (Z. Yu Li & al.) Mich. Möller & A. Weber, Taxon 60(3): 783, 2011. Basionym: *Chirita maguanensis*.

Primulina sinensis (Lindley) Y. Z. Wang, J. Syst. Evol. 49(1): 62, 2011. *Nom. illeg.* (Art. 53.1), based on *Chirita sinensis*. [*Non Primulina sinensis* Hooker fil. 1890.]

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Albuca gariepensis J. C. Manning & Goldblatt, Bothalia 41(2): 315-317, ills., 2011. Typus: *Manning* 3294 (NBG, MO, PRE).

Albuca lebaensis (van Jaarsveld) J. C. Manning & Goldblatt, Bothalia 41(2): 297, 2011. Basionym: *Ornithogalum lebaense*.

Eliokarmos geniculatus (Obermeyer) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 29, 2011. Basionym: *Ornithogalum geniculatum*.

Eliokarmos naviculus (F. W. Barker ex Obermeyer) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 29, 2011. Basionym: *Ornithogalum naviculum*.

- Eliokarmos neomaculatus** Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 29, 2011. [*Nom. nov. pro Ornithogalum maculatum* Jacquin 1791 (*non Eliokarmos maculatus* Rafinesque 1837).]
- Nicipe capillifolia** (Fourcade) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 31, 2011. Basionym: *Ornithogalum capillifolium*.
- Nicipe comptonii** (F. M. Leighton) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 31, 2011. Basionym: *Ornithogalum comptonii*.
- Nicipe filifolia** (Thunberg) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 31, 2011. Basionym: *Anthericum filifolium*.
- Nicipe juncifolia** (Jacquin) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 32, 2011. Basionym: *Ornithogalum juncifolium*.
- Nicipe petraea** (Fourcade) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 32, 2011. Basionym: *Ornithogalum petraeum*.
- Nicipe sardienii** (van Jaarsveld) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 32, 2011. Basionym: *Ornithogalum sardienii*.
- Nicipe tortuosa** (Baker) Martínez-Azorín & al., Ann. Bot. (Oxford), n.s. 107: 32, 2011. Basionym: *Ornithogalum tortuosum*.

MONTIACEAE

- Calandrinia flava** Obbens, Nuytsia 21(1): 2-4, ills., 2011. Typus: *Obbens & Newman* 56/08 (PERTH, CANB).
- Calandrinia pentavalvis** Obbens, Nuytsia 21(1): 9-12, ills., 2011. Typus: *Obbens & Bromilow* 16/04 (PERTH).
- Calandrinia sculpta** Obbens & J. G. West, Nuytsia 21(1): 12-15, ills., 2011. Typus: *Obbens* 64/03 (PERTH, CANB, MEL).
- Calandrinia tholiformis** Obbens, Nuytsia 21(1): 6-8, ills., 2011. Typus: *Obbens* 24/03 (PERTH, CANB, MEL).
- Calandrinia vernicosa** Obbens, Nuytsia 21(1): 15-18, ills., 2011. Typus: *Obbens & al.* 04/08 (PERTH [2 sheets], CANB).
- Phemeranthus piedmontanus** Ware, J. Bot. Res. Inst. Texas 5(1): 2-3, ills., 2011. Typus: *Ludwig* 5051 (UNC, NY, VDB, WILLI).

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- Peperomia ayacuchoana** Pino & Samain, Pl. Ecol. Evol. 144: 155-156, ills., 2011. Typus: *Samain & al.* 2009-040 (USM, BR, GENT).
- Peperomia cerrateae** Pino & G. Mathieu, Pl. Ecol. Evol. 144: 156-157, ills., 2011. Typus: *Cerrate & al.* 4436 (USM).
- Peperomia gigantea** G. Mathieu, Pl. Ecol. Evol. 144: 158-159, ills., 2011. Typus: *Mathieu & Symmank* 2009-158 (USM, BR, GENT).
- Peperomia jalcaensis** Pino, Pl. Ecol. Evol. 144: 159-160, ills., 2011. Typus: *Pino* 663 (USM).
- Peperomia klopfensteinii** Pino & Cieza, Pl. Ecol. Evol. 144: 160-161, ills., 2011. Typus: *Klopfenstein* RRP-343 (USM).
- Peperomia lilliputiana** (Pino & Cieza) Pino, Pl. Ecol. Evol. 144: 162, 2011. Basionym: *Peperomia macrorrhiza* var. *lilliputiana*.
- Peperomia ocoresensis** G. Mathieu & Pino, Pl. Ecol. Evol. 144: 162-163, ills., 2011. Typus: *Mathieu & al.* 2009-042 (USM, BR, GEN, K, MO).
- Peperomia parvisagittata** G. Mathieu & Pino, Pl. Ecol. Evol. 144: 162-164, ills., 2011. Typus: *Mathieu & Symmank* 2009-020 (USM, BR, GENT).
- Peperomia pseudoperuviana** (Pino) Pino, Pl. Ecol. Evol. 144: 165, 2011. Basionym: *Peperomia andina* var. *pseudoperuviana*.
- Peperomia pseudoverruculosa** G. Mathieu, Pl. Ecol. Evol. 144: 165-166, ills., 2011. Typus: *Samain & al.* 2009-052 (USM, BR, GENT).
- Peperomia pugnicaudex** Pino, Pl. Ecol. Evol. 144: 167-168, ills., 2011. Typus: *Pino* 792 (USM).
- Peperomia purpureonervosa** G. Mathieu, Pl. Ecol. Evol. 144: 168-169, ills., 2011. Typus: *Symmank & al.* 2008-051 (BR, GENT, LPB, MO).
- Peperomia querocochana** G. Mathieu & Pino, Pl. Ecol. Evol. 144: 168-170, ills., 2011. Typus: *Mathieu & Symmank* 2009-017a (USM, BR, GENT, MO).
- Peperomia radiatinervosa** G. Mathieu, Pl. Ecol. Evol. 144: 171-172, ills., 2011. Typus: *Samain & al.* 2008-090 (BR, G, GENT, K, LPB, MO).
- Peperomia umbrosa** G. Mathieu, Pl. Ecol. Evol. 144: 172-173, ills., 2011. Typus: *Mathieu & al.* 2009-122 (USM, BR, GENT).

Peperomia wernerrauhii Pino & Samain, Pl. Ecol. Evol. 144: 172-174, ills., 2011. Typus: *Samain & al.* 2009-214 (USM, BR, GENT).

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Portulaca daninii Galasso & al., Atti Soc. Ital. Sci. Nat. Mus. Civico Storia Nat. Milano 152(2): 96, 2011. Typus: *Klug* 1214 (US). [*Nom. nov. pro Portulaca oleracea* ssp. *tuberculata* Danin & H. G. Baker 1979.]

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Dasyllirion Sect. **Glaucophyllum** Hochstätter, *Piante Grasse* 30(1): 28, 2011. Typus: *Dasyllirion glaucophyllum* Hooker.

Dasyllirion occidentale Bogler *ex* Hochstätter, *Piante Grasse* 30(1): 28, ill. (p. 27), 2011. Typus: *Bogler* 790 (TEX, MEXU).

Dasyllirion treleasei (Bogler) Hochstätter, *Piante Grasse* 30(1): 28, ill. (p. 27), 2011. Basionym: *Dasyllirion longissimum* var. *treleasei*.

VITACEAE

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