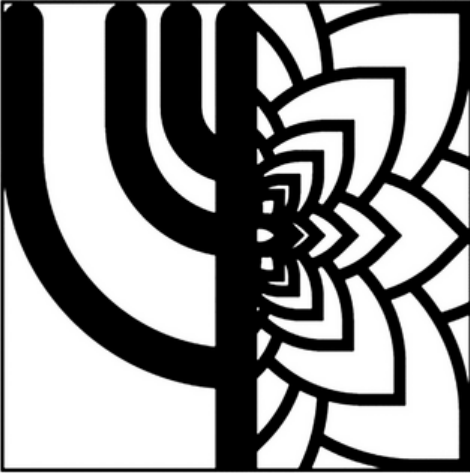


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for Succulent Plant Study

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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.*

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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. *hestermaleensis*.
- 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, Skalnickárúv Rok 66: 34, ill., 2012. Typus: *Holzbecher* s.n. (BRNU).
- Gibbaeum hartmannianum** Thiede & Niesler, *Haseltonia* 18: 38-40, ill., 2012. Typus: *Thiede & al.* 110200 (BOL).
- Lithops karasmontana** var. *immaculata* D. T. Cole, *Cactus & Co.* 16(1): 10-12, ill., 2012. Typus: *Cole* 417 (PRE).
- Malotigena** Niederle, Skalnickárúv 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, Skalnickárúv 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, ill., 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, ill., 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).

- 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).
- Rhytidocaulon elegantissimum** Hanáček & Ríčaněk, *Haseltonia* 17: 97-100, ills., 2012. Typus: *Ríčaněk & Hanáček* 873 (HTU, BRNM).
- Sulcolluma mirbatensis** T. A. McCoy, *Cact. Succ. J. (Los Angeles)* 84(2): 103, ills. (pp. 101-102), 2012. Typus: *McCoy* 3862 (FT).

ASPHODELACEAE

- Aloe analavelonensis** Letsara & al., *Malagasy Nat.* 6: 47, ills. (pp. 48, 50), 2012. Typus: *Letsara & al.* 938 (TAN, CAS, K).
- Aloe xanosyana** J.-P. Castillon, *Adansonia*, n.s. [ser. 3], 34(1): 20, fig. 5, 2012. Typus: *Decary* 10778 (P). [= *Aloe helenae* × *A. divaricata* ssp. *vaotsohy*.]
- Aloe beankaensis** Letsara & al., *Malagasy Nat.* 6: 49, ills. (pp. 50-51), 2012. Typus: *Letsara* 937 (TAN, CAS, K). [Name first used as provisional name (*nom. inval.*, ICBN Art. 29.1, 36.1, cf. RPS 62) in figure caption only by J.-B. & J.-P. Castillon, *Aloe Madagascar*, *Addendum No. 1*: 13, ills., 2011.]
- Aloe braamvanwykii** G. F. Smith & Figueiredo, *Bradleya* 30: 162-165, ills., 2012. Typus: *Smith & Figueiredo* 1 (PRE).
- Aloe condyae** van Jaarsveld & P. Nel, *Bradleya* 30: 169, ills. (pp. 168, 170), 2012. Typus: *van Jaarsveld & Nel* 24252 (PRE).
- Aloe divaricata** ssp. *tulearensis* (T. A. McCoy & Lavranos) J.-P. Castillon, *Adansonia*, n.s. [ser. 3], 34(1): 18-19, fig. 4, 2012. Basionym: *Aloe tulearensis*. [First published provisionally (*nom. inval.*, ICBN Art. 34.1b, 33.4) in *Aloe Madagascar*, 27, 2010 (cf. RPS 61).]
- Aloe divaricata** ssp. *vaotsohy* (Decorse & Poisson) J.-P. Castillon, *Adansonia*, n.s. [ser. 3], 34(1): 18, fig. 1 (p. 15), 2012. Basionym: *Aloe vaotsohy*.
- 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].]
- Aloe ivakoanyensis** Letsara & al., *Malagasy Nat.* 6: 52, ills. (pp. 50, 53), 2012. Typus: *Letsara & Andriamihajarivo* 624 (TAN).
- 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).
- Haworthia attenuata** var. **glabrata** (Salm-Dyck) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 37, 2012. Basionym: *Aloe glabrata*. [Republished in Alsterworthia Int. 12(1): 14, 5. 3. 2012.]
- Haworthia cooperi* var. *minima* M. B. Bayer, Haworthia Update Vol. 7, Part 4, 32, 2012. Based on *Tuck s.n.*. *Nom. inval.* (ICN Art. 41.5). [Based on *Haworthia minima* Baker 1880 (*nom. illeg.*, Art. 53.1). Repeated in Alsterworthia International 12(1): 9, 2012, and in Haworthia Nomenclator, 7, 2012, but all are invalid for lack of a direct reference to the replaced name. In addition, the name would be incorrect as a prioritable name at the same rank is enumerated as synonym.]
- 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.]
- Haworthia mirabilis** var. **atrofusca** (G. G. Smith) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 34, 2012. Basionym: *Haworthia atrofusca*. [Republished in Alsterworthia Int. 12(1): 11, 5. 3. 2012.]
- Haworthia mirabilis** var. **heidelbergensis** (G. G. Smith) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 34, 2012. Basionym: *Haworthia heidelbergensis*. [Republished in Alsterworthia Int. 12(1): 11, 5. 3. 2012.]
- Haworthia mirabilis** var. **magnifica** (von Poellnitz) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 34, 2012. Basionym: *Haworthia magnifica*. [Republished in Alsterworthia Int. 12(1): 11, 5. 3. 2012.]
- Haworthia mirabilis* var. *maraisii* (von Poellnitz) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 34, 2012. Incorrect name (ICN Art. 11.4), based on *Haworthia maraisii*. [Republished in Alsterworthia Int. 12(1): 11, 5. 3. 2012. Incorrect because several prioritable names from 1940 are cited as synonyms.]
- Haworthia mirabilis** var. **meiringii** (M. B. Bayer) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Basionym: *Haworthia maraisii* var. *meiringii*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012.]
- Haworthia mirabilis** var. **mundula** (G. G. Smith) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Basionym: *Haworthia mundula*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012.]
- Haworthia mirabilis* var. *notabilis* (von Poellnitz) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Incorrect name (ICN Art. 11.4), based on *Haworthia notabilis*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012. Incorrect because the prioritable *H. schuldiana* var. *erecta* Triebner & von Poellnitz 1940 is cited as synonym.]
- Haworthia mirabilis** var. **scabra** (M. B. Bayer) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Basionym: *Haworthia heidelbergensis* var. *scabra*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012.]
- Haworthia mirabilis** var. **splendens** (S. A. Hammer & J. D. Venter) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Basionym: *Haworthia magnifica* var. *splendens*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012.]
- Haworthia mirabilis** var. **toonensis** (M. B. Bayer) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Basionym: *Haworthia heidelbergensis* var. *toonensis*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012.]
- Haworthia nortieri** var. **albispina** (M. Hayashi) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 35, 2012. Basionym: *Haworthia albispina*. [Republished in Alsterworthia Int. 12(1): 12, 5. 3. 2012.]
- Haworthia nortieri** var. **devriesii** (Breuer) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia devriesii*. [Republished in Alsterworthia Int. 12(1): 13, 5. 3. 2012.]
- Haworthia pygmaea** var. **acuminata** (M. B. Bayer) M. B. Bayer, Haworthia Update Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia retusa* fa. *acuminata*. [Republished in Alsterworthia Int. 12(1): 13, 5. 3. 2012.]

- Haworthia pygmaea** var. **dekenahii** (G. G. Smith) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia dekenahii*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
- Haworthia pygmaea** var. **fusca** (Breuer) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia fusca*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
- Haworthia pygmaea** var. **vincentii** (Breuer) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia vincentii*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
- Haworthia retusa** var. **longibracteata** (G. G. Smith) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia longibracteata*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
- 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.]
- Haworthia retusa** var. **suberecta** (von Poellnitz) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia turgida* var. *suberecta*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
- Haworthia retusa** var. **turgida** (Haworth) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36, 2012. Basionym: *Haworthia turgida*. [Republished in *Alsterworthia Int.* 12(1): 13, 5. 3. 2012.]
- Haworthia rossouwii** var. **minor** (M. B. Bayer) M. B. Bayer, *Haworthia Update* Vol. 7, Part 4, 36-37, 2012. Basionym: *Haworthia heidelbergensis* var. *minor*. [Republished in *Alsterworthia Int.* 12(1): 13-14, 5. 3. 2012.]

#### ASTERACEAE

- Caputia** B. Nordenstam & Pelsler, *Compositae Newslett.* 50: 59, 2012. Typus: *Senecio medley-woodii* Hutchinson. [Name first used invalidly (ICBN Art. 34.1b, 36.1) in *Amer. J. Bot.* 97(5): 867, 2010 (cf. RPS 61).]
- 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).

#### CACTACEAE

- 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*.]
- Austrocactus ferrarii** R. Kiesling & al., *Kakt. and. Sukk.* 63(12): 330, ill. (pp. 327-330), 2012. Typus: *Kiesling & Sarnes* 10427 (MERL).
- Bolivicereus samaipatanus** ssp. **divimiseratus** (Cárdenas) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Bolivicereus 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*.
- Borzicactus pachycladus** (Rauh & Backeberg) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Loxanthocereus pachycladus*.
- Borzicactus xylorhizus** (F. Ritter) G. Charles, *Cactaceae Syst. Init.* 26: 14, 2012. Basionym: *Loxanthocereus xylorhizus*.
- Browningia utcubambensis** 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*.
- Copiapoa algarrobensis* Kattermann, *Cact. Succ. J. (Los Angeles)* 84(2): 69-75, ill., 2012. Based on Kattermann 530. *Nom. inval.* (ICN Art. 40.2, 40.4). [The purported holotype specimen at SGO is reported to be an illustration, which is contrary to ICN Art. 40.2, 40.4.]
- 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 nigripina** 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).
- Eriocephala lenninghausii** ssp. **minor** (F. Ritter) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Eriocactus lenninghausii* var. *minor*.
- Eriocephala magnifica** (F. Ritter) Guiggi, *Cactology* 3: 6, 2012. Basionym: *Eriocactus magnificus*.
- Eriocephala 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.]
- Eriocephala 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.]
- Eriocephala schumanniana** ssp. **nigripina** (K. Schumann) Guiggi, *Cactology* 3(Suppl. III): 1, 2012. Basionym: *Echinocactus nigripinus*. [First used invalidly (ICN Art. 35.1) by Guiggi in l.c. 3: 6, 2012.]
- Eriocephala 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. Brandege) 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. quadratumbonata* on the same page of the paper. Repeated (with full reference) in l.c. 29: 5, 2013.]
- Soehrensia quadratumbonata** (F. Ritter) Schlumpberger, *Cactaceae Syst. Init.* 28: 31, 2012. Basionym: *Trichocereus quadratumbonatus*.
- 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, ills. (pp. 119, 121-124), 2012. Basionym: *Sulcorebutia sormae*.
- Sulcorebutia callichroma** J. de Vries, *Succulenta (Netherlands)* 91(2): 62-63, ills. (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, ills. (pp. 207-214), 2012. Typus: *Gertel* 248 (LPB, ZSS).
- Sulcorebutia trojapampensis** Gertel & Jucker, *Kakt. and. Sukk.* 73(5): 128-130, ills. (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: *Maihuenopsis 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: *Medioactus 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, Pflanze 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** Yıldırımli, *Ot Sist. Bot. Dergisi* 19(1): 24, ills. (pp. 25-26), 2012. Typus: *Yıldırımli* 38413 (Herb. Yıldırımli).

**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. *hebdomadalis* 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*.
- Portulaca sardoa** Danin & al., Pl. Biosystems 146(Suppl. 1): 139, 2012. Typus: *Lippi* S42D (SS).
- Portulaca zaffranii** Danin, Quad. Bot. Ambient. Appl. 21: 189, 2010. Typus: *Danin & Domina* s.n. (PAL). [Omitted previously. First published invalidly (ICBN 37.1) in Fl. Medit. 18: 92, fig. 10 (p. 100), 2008 (cf. RPS 61).]



## RUSCACEAE

- Beaucarnea** Sect. **Papillatae** (Trelease) Thiede, *Phytoneuron* 2012(77): 2, 2012. Basionym: *Beaucarnea* [?] *Papillatae*.
- Dracaena jayniana** Wilkin & Suksathan, *Kew Bull.* 67(4): 698-703, ills., 2012. Typus: *Kerr* 9989 (K, BM, C, L, P).
- Nolina excelsa** García-Mendoza & E. Solano, *Bot. Sci.* 90(1): 22, ills. (p. 23), 2012. Typus: *Redonda-Martínez & al.* 481 (MEXU, FEZA).
- Sansevieria formosa** Chahinian, *Sansevieria* 26: 2-5, ills., 2012. Typus: *Burdett* s.n. in *Chahinian* 319 (K, MO).
- Sansevieria pinguicula** ssp. **disticha** Pfenning ex Butler, *Sansevieria* 28: 17-18, ills., 2012. Typus: *Bally* 14976 (EA, ZSS).

## URTICACEAE

- Pilea fairchildiana** Jestrow & Jiménez-Rodríguez, *Taxon* 61(3): 598, ills. (p. 593), 2012. Typus: B †, BR [lecto] [Lectotype designated by Jestrow & al., *Taxon* 61: 598, 2012.]. [*Nom. nov. pro Sarcopilea dominicensis* Urban (*non Pilea domingensis* Urban 1912.)]
- Pilea microphylla** var. **dominguensis** Groult ex Acevedo-Rodríguez, *Smithsonian Contr. Bot.* 98: 925, 2012. Typus: *Richard* s.n. (P). [*Nom. nov. pro Pilea succulenta* var. *dominguensis* Groult 1999 (incorrect name, ICBN Art. 11.4.)]

## VITACEAE

- Cyphostemma darainense** Wahlert & Philipson, *Candollea* 67(2): 278-281, ills., 2012. Typus: *Randrianaivo & al.* 1308 (P, CNARP, MO, TAN).

## BIBLIOGRAPHIA

- [1] **Abraham, W.-R. (2012)** Wenig bekannte Wigginsien: *Wigginsia* sp. n. WRA 36. Internoto 33(2): 40-44, ills.
- [2] **Abraham, W.-R. (2012)** Wenig bekannte Wigginsien: *Wigginsia* sp. WRA 962. Internoto 33(4): 97-103, ills. [On *Notocactus neohorstii* var. *prestlei*.]
- [3] **Abud, H. F., Gonçalves, N. R., Pereira, M. de S., Pereira, D. de S., Reis, R. de G. E. & Bezerra, A. M. E. (2012)** Germination and morphological characterization of the fruits, seeds, and seedlings of *Pilosocereus gounellei*. Brazil. J. Bot. 35(1): 11-16, ills.
- [4] **Acevedo-Rodríguez, P. & Strong, M. T. (2012)** Catalogue of seed plants of the West Indies. Smithsonian Contr. Bot. 98: i-xxv, 1-1192, maps.
- [5] **Ádám, S. & Arújo Aximoff, I. (2012)** *Schlumbergera* 'Candida': Egy különleges ritka faj? – avagy pusztán egyedi mutáció? Debreceni Pozsgás-Tár 2012(3): 20-33, ills.
- [6] **Aditya, S. (2012)** *Caralluma pauciflora*, an endemic *Caralluma* taxon from India. Asklepios 112: 15-16, ills. [Volume for 2011, received at ZSS 19. Jan. 2012.]
- [7] **Aditya, S. (2012)** Further notes on *Caralluma adscendens* v. *carinata* and v. *geniculata*. Asklepios 112: 17-20, ills. [Volume for 2011, received at ZSS 19. Jan. 2012.]
- [8] **Aditya, S. (2012)** Corolla variability in the Indian distribution of *Caralluma adscendens* var. *fimbriata* (Wallich) Grav. & Mayur. Cactus-World 30(1): 23-27, ills. [German translation in Avonia News 2013(11): 12-20, ills., 2013.]
- [9] **Aditya, S. (2012)** Dendroid *Euphorbia* species from India (part 1). Euphorbia World 8(2): 10-13, ills.
- [10] **Adolt, R., Habrova, H. & Madera, P. (2012)** Crown age estimation of a monocotyledonous tree species *Dracaena cinnabari* using logistic regression. Trees (Berlin) 26: 1287-1298, ills. [URL](#)
- [11] **Afferni, M. (2012)** A revision of series *Cepaea* in the genus *Sedum*. CactusWorld 30(1): 57-60, ills.
- [12] **Afferni, M. (2012)** *Euphorbia dendroides* L.: A semi-succulent shrub. Euphorbia World 8(2): 24-26, ills.
- [13] **Afferni, M. (2012)** *Kunkeliella subsucculenta* Kammer, endemismo succulento dell'isola di Tenerife (Canarie, Spagna). Pianta Grasse 32(2): 18-23, ills. [Simultaneously also published in an English edition.]
- [14] **Aguilar-García, S. A., Figueroa-Castro, D. M. & Castañeda-Posadas, C. (2012)** Pollen morphology of *Pachycereus weberi* (Cactaceae): An evaluation of variation in pollen size. Pl. Syst. Evol. 298(10): 1845-1850, ills. [URL](#)
- [15] **Albesiano, S. (2012)** A new taxonomic treatment of the genus *Trichocereus* (Cactaceae) in Chile. Haseltonia 18: 116-139, ills., keys. [URL](#)
- [16] **Albesiano, S. & Kiesling, R. (2012)** Identity and neotypification of *Cereus macrogonus*, the type species of the genus *Trichocereus* (Cactaceae). Haseltonia 17: 24-34, ills. [URL](#)
- [17] **Albesiano, S. & Terrazas, T. (2012)** Cladistic analysis of *Trichocereus* (Cactaceae: Cactoideae: Trichocereae) based on morphological data and chloroplast DNA sequences. Haseltonia 17: 3-23, ills. [URL](#)
- [18] **Alcalá, R. E. & Dominguez, C. A. (2012)** Genetic structure of the carnivorous plant *Pinguicula moranensis* (Lentibulariaceae) on the Transvolcanic Mexican Belt. Biochem. Genet. 50: 416-427, map, ills. [URL](#)
- [19] **Ali, S. S., Yu, Y., Pfosser, M. F. & Wetschnig, W. (2012)** Inferences of biogeographical histories within subfamily Hyacinthoideae using S-DIVA and Bayesian binary MCMC analysis implemented in RASP (Reconstruct Ancestral State in Phylogenies). Ann. Bot. (Oxford), n.s. 109(1): 95-107, maps, keys. [URL](#)
- [20] **Almirón, M., Carretero, E. M. & Martínez, C. E. (2013)** Spatial distribution of *Tephrocactus aoracanthus* (Lem.) Lem. in relation to shrubs in the hyperarid regions of west-central Argentina. Austral Ecol. 38(2): 131-138. [Pre-published online 12. 4. 2012.] [URL](#)

- [21] **Alonso-Pedano, M. & Ortega-Baes, P. (2012)** Generalized and complementary pollination system in the Andean cactus *Echinopsis schickendantzii*. *Pl. Syst. Evol.* 298(9): 1671-1677, ills. [URL](#)
- [22] **Anceschi, G. & Magli, A. (2012)** The last populations of *Parodia rechensis* (Buining) F. H. Brandt. *Cact. Explorer* 5: 30-34, ills.
- [23] **Anceschi, G. & Magli, A. (2012)** *Parodia turbinata* (Arechavaleta) Hofacker: A confused taxon. *Cact. Explorer* 6: 26-33, ills., map.
- [24] **Andrade, A. R., Páez, V. de los A., Lozzia, M. E. & Muruaga, N. B. (2012)** Estudios citológicos en *Echinopsis albispinosa* (Cactaceae). *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 9(1): 33-37, ills.
- [25] **Andrés-Hernández, A. R., Espinosa, D., Fraile-Ortega, M. E. & Terrazas, T. (2012)** Venation patterns of *Bursera* species Jacq. ex L. (*Burseraceae*) and systematic significance. *Pl. Syst. Evol.* 298: 1723-1731, ills. [URL](#)
- [26] **Appenzeller, O. (2012)** Zweihundert Jahre Gattung *Mammillaria* Haworth (Teil 1) / (Teil 2) / (Teil 3) / (Teil 4). *Mitteilungsbl. Arbeitskreises Mammillarienfr.* 36(1): 10-21, (2): 91-93, 100-106, (3): 154-157, 165-169, (4): 254-256, ills. [Continued in l.c. 37, 2013.]
- [27] **Appenzeller, O. (2012)** Johannes Gessner, *Tabulae Phytographicae, 1795-????*. *Mitteilungsbl. Arbeitskreises Mammillarienfr.* 36(4): 218-221, ills.
- [28] **Applequist, W. L. (2012)** Report of the Nomenclature Committee for Vascular Plants: 64. *Taxon* 61(5): 1108-1117. [Includes a comment on a proposal concerning *Echinocactus acanthodes*.]
- [29] **Arias, S. & Sánchez-Martínez, E. (2012)** [Czech:] New *Strombocactus* species – *S. correjidorae* S. Arias & E. Sanchez from Rio Moctezuma, Querétaro, México. *Kaktusy (Brno)* 48(1): 8-11, ills. [Included for the illustrations.]
- [30] **Baard, J. (2012)** *Gasteria polita*, an endangered succulent from South Africa. *Cactus-World* 30(3): 159-161, ills., map. [German translation in *Avonia News* 2013(9): 38-43, ills., 2013.]
- [31] **Baard, J. (2012)** Discovery on the Garden Route. Another population of the rare *Gasteria polita* found. *Veld. Fl.* (1975+) 98(1): 20-21, ills., map.
- [32] **Baker, S. (2012)** *Haworthia emelyae* – a collector's view. *Haworthiad* 26(2): 49-52, ills.
- [33] **Baltisberger, M. (2012)** In: Marhold, K. (ed.): *IAPT / IOPB chromosome data 13*. *Taxon* 61(4): 889. [Includes *Sempervivum marmoratum*.]
- [34] **Barbier, E. (2012)** Observations on *Sedum litoreum* Gussone (1826) at Mont Rose (Marseille – Bouches du Rhône – France). *Newslett. Sedum Soc.* 103: 12-18, ills., map.
- [35] **Bárceñas, R. T., Hawkins, J. A. & Chiang, F. (2012)** Typification of four North American club-chollas: The names of four Engelmannian species from Mexico and Southwestern United States. *Haseltonia* 17: 66-69. [URL](#)
- [36] **Barrios, D., González-Torres, L. R. & García-Beltrán, J. A. (2012)** Vivipary in Cuban cacti: A pioneer study in *Leptocereus scopulophilus*. *Bradleya* 30: 147-150, ills.
- [37] **Bates, B. (2012)** A must see site – Suripujio. *Cact. Explorer* 6: 43-45, ills. [Includes data on a naturally occurring *Echinopsis ferox* × *Oreocereus celsianus* hybrid.]
- [38] **Baumgärtner, R. (2012)** Die Hybride *Moraquipa*. *Hybriden-J.* 2012(2): 18-19, ill. (p. 39). [On the cross *Morawetzia doelziana* × *Arequipa rettigii*.]
- [39] **Bayer, M. B. (2012)** *Haworthia* update. *Essays on Haworthia*, Volume 8. St. Michaels on Wyre (GB): *Alsterworthia International / Harry Mays*. 64 pp., ills.
- [40] **Bayer, M. B. (2012)** *Haworthia* update. *Essays on Haworthia*, Volume 7 (part 1 / 2 / 3 / 4). St. Michaels on Wyre (GB): *Alsterworthia International / Harry Mays*. 65 + 83 + 61 + 45 pp., ills. [Undated, publication date recorded as 20. 2. 2012 by IPNI. Vol. 7(4): 30-40 is pre-printed from *Alsterworthia Int.* 12(1): 7-17 (received 5. 3. 2012 at ZSS).]
- [41] **Bayer, M. B. (2012)** *Haworthia marxii* and *H. truteriorum* in relation to rational classification. *Alsterworthia Int.* 12(3): 6-7.
- [42] **Bayer, M. B. (2012)** New finds in *Haworthia*. *Cact. Succ. J.* (Los Angeles) 84(1): 41-50,

ills., map. [On *Haworthia marginata*, *H. minima* and *H. retusa*.]

[43] **Bayer, M. B. (2012)** Just what do we do with names for *Haworthia*? *CactusWorld* 30(4): 211-214, ills.

[44] **Bayer, M. B. & Manning, J. C. (2012)** The *Haworthia* nomenclator: A list of accepted species with some guidelines for infraspecific names. Redditch (GB): Haworthia Society. 24 pp. [= Haworthiad special edition. Almost identical to the paper by the same authors in *Alsterworthia* 12(1), 2012, with some minor changes in the text and name list, including 1 new combination.]

[45] **Bayer, M. B. & Manning, J. C. (2012)** A rationalization of names in *Haworthia*. A list of species with new combinations and new synonyms. *Alsterworthia* Int. 12(1): 7-17. [Received at ZSS 5. 3. 2012. Reprinted from M. B. Bayer, *Haworthia Update* 7(4): 30-40, recorded as published on 20. 2. 2012 by IPNI. A slightly different version was also published as "The *Haworthia* Nomenclator" by the Haworthia Society as "Haworthiad Special Edition".]

[46] **Becerra, J. X., Noge, K., Olivier, S. & Venable, D. L. (2012)** The monophyly of *Bursera* and its impact for divergence times of *Burseraceae*. *Taxon* 61(2): 333-343.

[47] **Becker, R., Moller, A. & Veldhuisen, R. van (2012)** About sticks and pencils (part 5): *Euphorbia indecora* N. E. Br. *Euphorbia World* 8(3): 5-7, ills.

[48] **Benzing, D. H. (2012)** Air plants. Epiphytes and aerial gardens. Ithaca (US) / London (GB): Comstock Publishing Associates. xiv + 239 pp., ills.

[49] **Berazategui, P. (2010)** *Lepismium aculeatum* (F. A. C. Weber) Barthlott (*Cactaceae*): Primer registro para la flora del Uruguay. *Comun. Bot. Mus. Hist. Nat. Montevideo* 6 (140): 1-7, ills., map. [Omitted previously.]

[50] **Bercht, L. (2012)** Het geslacht *Gymnocalycium* – een overzicht (XVIII) / (XIX) / (XX) / (XXI). *Succulenta* (Netherlands) 91(2): 73-78, (3): 133-136, (4): 188-191, (5): 220-226, ills. [Continued from l.c. 90(6), 2011.]

[51] **Bercht, L. (2012)** *Echinopsis aurea*. Hoe vormenrijk kan een soort zijn. *Succulenta* (Netherlands) 91(6): 287-294, ills., map.

[52] **Berka, L. (2012)** *Astrophytum caput-medusae* × *Astrophytum ornatum*. *Kaktusy* (Brno) 48 (2): 43, ill.

[53] **Berresford, P. (2012)** Weed-in's small-flowered hedgehog cactus. *CactusWorld* 30(4): 215-219, ills.

[54] **Berthold, W. (2012)** Ein etwas eigenwilliger Besuch bei / A somewhat stubborn visit to *Mammillaria igualensis*. *Mitteilungsbl. Arbeitskreises Mammillarienfr.* 36(2): 84-90, ills. [Partial Russian version in *Kakt. Tolko* 2012(4"): 35-36, iii, ills., 2012.]

[55] **Bester, S. P., Herman, P. P. J. & Klopper, R. R. (2012)** National Herbarium plant collecting programme reveals new country and provincial distribution records from South African National Parks (*Apocynaceae*, *Asteraceae* & *Xanthorrhoeaceae: Asphodeloideae*). *Phytotaxa* 62: 44-56, maps., ills. [Includes data on *Bulbine ophiophylla*.]

[56] **Blum, W. & Lange, M. J. (2012)** Old news from Comodu: Interesting news from Baja California. *Cact. Succ. J. (Los Angeles)* 84 (5): 254-258, ills. [On *Echinocereus pacificus*.]

[57] **Blum, W., Felix, D. & Bauer, H. (2012)** *Echinocereus*. Die Sektion *Echinocereus*. Eine Zusammenfassung der Erkenntnisse und Beobachtungen nach unserem heutigen Wissensstand. *Echinocereenfreund* 25: Sonderausgabe, 336 pp., ills., maps, key.

[58] **Bockemühl, J. & Bauer, R. (2012)** Wildformen von *Schlumbergera truncata* (Haworth) Moran. *EPIG* 70: 19-30, ills.

[59] **Bonnefond, J. (2012)** Le genre *Ferocactus*: Une contribution à sa culture. *Terra Seca* 2012 (3): 18-31, ills. [Includes a tabular survey of spine numbers per areole.]

[60] **Brand, T. (2012)** *Agave dasylyrioides* in Blüte. *Kakt. and. Sukk.* 63(3): 77-81, ills. [Included for the illustrations.]

[61] **Bressan, E. de A., Scotton, D. C., Ferreira, R. R., Jorge, E. C., Sebbenn, A. M., Gerald, L. T. S. & Figueira, A. (2012)** Development of microsatellite primers for *Jatropha curcas* (*Euphorbiaceae*) and transferability to congeners. *Amer. J. Bot.* 2012: e237-e239, ills. [URL](#)

[62] **Brockington, S. F., Rudall, P. J.,**

**Frohlich, M. W., Oppenheimer, D. G., Soltis, P. S. & Soltis, D. E. (2012)** "Living stones" reveal alternative petal identity programs within the core eudicots. *Plant J.* 69: 193-203, ills. [URL](#)

[63] **Bruyns, P. V. (2012)** Nomenclature and typification of southern African species of *Euphorbia*. *Bothalia* 42(2): 217-245.

[64] **Bryant, M., Reynolds, J., DeFalco, L. A. & Esque, T. C. (2012)** Short seed longevity, variable germination conditions, and infrequent establishment events provide a narrow window for *Yucca brevifolia* (*Agavaceae*) recruitment. *Amer. J. Bot.* 99(10): 1647-1654, ills. [URL](#)

[65] **Busch, L. (2012)** Vergessen? *Mediolobivia fauxiana* Backbg. *Echinopseen* 9(1): 43-45, ills.

[66] **Busch, L. (2012)** Die gelbblütigen *Digitorebutia*. Teil 6: *Digitorebutia haagei* var. HJW 131e. *Echinopseen* 9(1): 45-48, iii, ills., map.

[67] **Busch, L. (2012)** Meine Gedanken zu [*Mediolobivia*] *atrovirens*. *Echinopseen* 9(2): 74-77, ills. [Included for the illustrations depicting areole and spine variability.]

[68] **Butler, A. (2012)** *Sansevieria* mysteries. *Sansevieria* 26: 23-28, ills. [On various unnamed collections.]

[69] **Butler, A. (2012)** Dave Richards' *Sansevieria* collection. *Sansevieria* 28: 13-16. [Included for the locality data in the fieldnumber list.]

[70] **Butler, A. (2012)** *Sansevieria × itumea* (Mbugua) Jankal. history and further thoughts. *Sansevieria* 28: 19-20, ills.

[71] **Byalt, V. V. (2012)** [Russian:] *Tillaea vailantii* Willd. (*Crassulaceae*), an overlooked species for the "Flora of China". *Novosti Sist. Vyssh. Rast.* 43: 66-69.

[72] **Byalt, V. V. (2012)** [Russian:] A new system of the genus *Graptopetalum* Rose (*Crassulaceae*). *Novosti Sist. Vyssh. Rast.* 43: 70-83.

[73] **Cacho, N. I. & Baum, D. A. (2012)** The Caribbean slipper spurge *Euphorbia tithymaloides*: The first example of a ring species in plants. *Proc. Roy. Soc., Biol. Sci., Ser. B*, 279: 3377-3383, ills., map. [URL](#)

[74] **Calvente, A. (2012)** A new subgeneric classification of *Rhipsalis* (*Cactoidae, Cactaceae*). *Syst. Bot.* 37(4): 983-988, key. [URL](#)

[75] **Cares, R. C., Medel, R. & Botto-Mahan, C. (2012)** Efecto nodriza en dos cactáceas columnares endémicas de Chile semiárido. *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 9(2): 5-6, ills.

[76] **Carneiro-Torres, D. S., Cordeiro, I., Giulietti, A. M. & Riina, R. (2012)** *Euphorbia flaviana*, a new species from the inselbergs of Bahia (Brazil) and lectotypification of *E. crossadenia*. *Syst. Bot.* 37(3): 688-693, ills., key, map. [Includes data on *Euphorbia apparicioniana* and related species.] [URL](#)

[77] **Carter, S. (2012)** Non-spiny succulent euphorbias of eastern tropical Africa. *Euphorbia World* 8(1): 5-9, ills.

[78] **Castillon, J. P. (2012)** Révision du groupe de l'*Aloe divaricata* Berger; correction d'une synonymie, combinaisons nouvelles et description d'un nouvel hybride. *Adansonia, n.s.* [ser. 3], 34(1): 13-21, ills., map. [URL](#)

[79] **Chahinian, J. (2012)** The *Sansevieria trifasciata* varieties – a new look - [part I] / part II. *Sansevieria* 27: 2-6, 28: 2-12, ills. [Said to be an updated version of the introduction to the author's book on the subject published 1986.]

[80] **Chalet, J. M. (2012)** Chile 2010, i cactus. Chile 2010, The cacti. *Cactus & Co.* 16(3): 4-37, ills. [Included for the illustrations.]

[81] **Chalet, J. M. (2012)** Cuatro Ciénegas. Un paradiso per cactofili. A paradise for cactophiles. *Cactus & Co.* 16(3): 60-75, ills. [Included for the illustrations.]

[82] **Charles, G. (2012)** Observations on *Borzicactus icosagonus* (Kunth) Br. & R. and *Borzicactus humboldtii* (Kunth) Br. & R. *Bradleya* 30: 93-102, ills., map.

[83] **Charles, G. (2012)** Recent new descriptions. *Cact. Explorer* 3: 13-15, ills. [On *Cumuloportia iturbicola*.]

[84] **Charles, G. (2012)** Recent new descriptions. *Cact. Explorer* 4: 8-12, ills. [On *Maihueniopsis glochidiata*.]

[85] **Charles, G. (2012)** Recent new descriptions. *Cact. Explorer* 5: 16, ills. [On *Corryocactus erici-marae*.]

- [86] **Charles, G. (2012)** *Thrixanthocereus senilis*. *Cact. Explorer* 5: 22, ills. [On flower colour.]
- [87] **Charles, G. (2012)** Recent new descriptions. *Cact. Explorer* 6: 15-16, ills. [On *Browningia utubambensis*.]
- [88] **Charles, G. (2012)** *Matucana aurantiaca* in the Cordillera Blanca? *Cact. Explorer* 6: 49-51, ills., map.
- [89] **Cházaro-Basáñez, M., Acevedo-Rosas, R. & Machuca-Núñez, J. A. (2012)** On *Graptopetalum marginatum* (*Crassulaceae*). *Cact. Succ. J. (Los Angeles)* 84(3): 155-158, ills.
- [90] **Cházaro-Basáñez, M., Gheno Heredia, Y. A., Oliva Rivera, H. & Ramón Fariás, F. (2012)** *Agave ellemeetiana* (*Agavaceae*). A new record for the State of Veracruz, Mexico. *Int. Cact.-Advent.* 96: 29-35, ills. [Simultaneously published in French, English and Spanish versions.]
- [91] **Chen, J.-L., Li, C., Sun, Y., Wang, F.-G. & Xing, F.-W. (2012)** Microsatellite markers for *Kleinia nerifolia*, an endemic *Asteraceae* species on the Canary Islands. *Amer. J. Bot.* 99(12): e474-e476. [URL](#)
- [92] **Christenhusz, M. J. M. (2012)** On African Violets and Cape Primroses – towards a monophyletic *Streptocarpus* (*Gesneriaceae*). *Phytotaxa* 46: 3-9, key. [Includes a key to the tropical East African species of *Streptocarpus* Subgen. *Streptocarpella*.] [URL](#)
- [93] **Clark, J. L., Funke, M. M., Duffy, A. M. & Smith, J. F. (2012)** Phylogeny of a neotropical clade in the *Gesneriaceae*: More tales of convergent evolution. *Int. J. Pl. Sci.* 173(8): 894-916, ills. [URL](#)
- [94] **Coles, J. J., Decker, K. L. & Naumann, T. S. (2012)** Ecology and population dynamics of *Sclerocactus mesae-verdae* (Boissév. & C. Davidson) L. D. Benson. *W. N. Amer. Naturalist* 72(3): 311-322. [URL](#)
- [95] **Colpaert, P. (2012)** *Corryocactus huincensis* Ritter. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 25(3): 42-44, ills.
- [96] **Córdova-Acosta, E., Vite, F. & Valverde, P. L. (2012)** Efecto de la orientación y caracteres de las flores en el éxito reproductivo de *Pachycereus weberi* en la región de Tehuacán-Cuicatlán. *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 9(1): 7-8, ills.
- [97] **Corman, P. (2012)** A day trip to the peak of Botija, Chile. *Cact. Explorer* 6: 37-42, ills. [Included for the illustrations of *Copiapoa* spp.]
- [98] **Corman, P. & Laroze, A. (2012)** Sur quelques *Copiapoa* du Chili récemment décrits ou renommés. *Cact. Succ.* 4(1): 18-23, ills.
- [99] **Cousins, S. R. & Witkowski, E. T. F. (2012)** African *Aloe* ecology: A review. *J. Arid Environm.* 85: 1-17, map. [URL](#)
- [100] **Crawley, S. S. & Hilu, K. W. (2012)** *Caryophyllales*: Evaluating phylogenetic signal in *trnK* intron versus *matK*. *J. Syst. Evol.* 50(5): 387-410, ills. [URL](#)
- [101] **Crawley, S. S. & Hilu, K. W. (2012)** Impact of missing data, gene choice, and taxon sampling on phylogenetic reconstruction: The *Caryophyllales* (angiosperms). *Pl. Syst. Evol.* 298(2): 297-312. [URL](#)
- [102] **Danin, A. (2012)** *Portulacaceae*. In: Greuter, W. & Raus, T. (eds.): *Med-Checklist Notulae*, 31. *Willdenowia* 42(2): 291. [On *Portulaca sardoa*.] [URL](#)
- [103] **Danin, A. & Raus, T. (2012)** A key to 19 microspecies of the *Portulaca oleracea* aggregate. In: Timonin, A. K. & al. (eds.): *Caryophyllales: New insights into phylogeny, systematics and morphological evolution of the order*; Proceedings of the symposium held on 24th - 27th September 2012; pp. 70-83, SEM-ills. Moscow (RU): M. V. Lomonosov State University.
- [104] **Davies, C. (2012)** Field Notes 7 – Mexico 2010. *J. Mammillaria Soc.* 52(3): 58-66, ills. [On *Mammillaria wrightii* ssp. *wilcoxii*.]
- [105] **Davies, C. (2012)** Field Notes 8 – Mexico 2010. *J. Mammillaria Soc.* 52(4): 87-93, ills. [On *Mammillaria grahamii* etc.]
- [106] **De-Nova, J. A., Medina, R., Montero, J. C., Weeks, A., Rosell, J. A., Olson, M. E., Eguiarte, L. E. & Magallón, S. (2012)** Insights into the historical construction of species-rich Mesoamerican seasonally dry tropical forests: The diversification of *Bursera* (*Burseraceae*, Sapindales). *New Phytol.* 193(1): 276-287, map. [URL](#)

- [107] **Dehgan, B. (2012)** Flora Neotropica, vol. 110: *Jatropha* (*Euphorbiaceae*). Bronx (US): New York Botanical Garden Press. 273 pp., ills., maps, keys.
- [108] **Dehn, R. N. (2012)** *Ferocactus macrodiscus* und seine Unterarten. Kakt. and. Sukk. 63(9): 225-233, ills. [Included for the illustrations.]
- [109] **Dehn, R. N. (2012)** Zu Besuch an einem Standort von / A visit to a location of *Mammillaria eriakantha* Pfeiffer. Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(1): 2-9, ills.
- [110] **Dehn, R. N. (2012)** Ein Besuch am Standort von / A visit to the location of *Mammillaria theresae*. Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(3): 180-190, ills.
- [111] **Dehn, R. N. (2012)** Ein Besuch am Standort von *Mammillaria pennispinosa*. A visit to the *Mammillaria pennispinosa* location. Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(4): 238-248, ills.
- [112] **Delage, A. & Jeanmonod, D. (2012)** *Crassulaceae*. In: Jeanmonod, D. & Schlüssell, A. (eds.): Notes et contributions à la flore de Corse, XXIV. Candollea 67(2): 310-311, map. [On *Crassula vaillantii*.]
- [113] **Demin, D. (2012)** [Russian]: Obscure cacti from Argentina: *Puna subterranea*. Kakt. Tolko 2012(4<sup>th</sup>): 18-34, ills.
- [114] **Díaz-Segura, O., Jiménez-Sierra, C. L., Matías-Palafox, M. L. & Vázquez-Díaz, E. (2012)** Evaluación del estado de conservación del peyote queretano *Lophophora diffusa* Croizat (Bravo), cactácea endémica del desierto Querétaro-Hidalguense, México. Cact. Suc. Mex. 57(3): 68-85, ills., map.
- [115] **Diop, E. H. M., Coundoul, M. & Elie Akpo, L. (2012)** Caractéristiques morpho-anatomiques des feuilles de *Maerua crassifolia* Forssk. Sécheresse 23(1): 31-37, ills. [URL](#)
- [116] **Dobignard, A. & Chatelain, C. (2011)** Index Synonymique de la Flore d'Afrique du Nord, Volume 3: Dicotyledonae, *Balsaminaceae* à *Euphorbiaceae*. Genève (CH): Conservatoire et Jardin Botaniques de la Ville de Genève. 449 pp. [Omitted previously.]
- [117] **Domina, G., Danin, A. & El Mokni, R. (2012)** *Portulacaceae*. In: Greuter, W. & Raus, T. (eds.): Med-Checklist Notulae, 31. Willdenowia 42(2): 291. [On *Portulaca granulatosellulata* and *P. nitida*.]
- [118] **Donati, D. (2012)** In un luogo che vuol chiamarsi Persia. Piante Grasse 31(4): 150-161, ills. [Dated 2011, received at ZSS Feb. 2012. Included for the illustration of *Sempervivum iranicum*.]
- [119] **Donati, D. & Dumont, G. (2012)** Tempo di *Sempervivum* – I. Urcaela, *Sempervivum calcareum* Jord. Piante Grasse 32(1): 34-45, ills., map. [Simultaneously also published in an English edition. Republished (with additional illustrations) in Acta Succ. 1(1): 53-72, 2013 (in parallel English, Italian and French editions).]
- [120] **Donati, D. & Dumont, G. (2012)** Tempo di *Sempervivum* – 2. Urcaela. *Sempervivum wulfenii*, the Sun Houseleek. Piante Grasse 32(2): 30-45, ills., map. [Also published in a simultaneous English edition.]
- [121] **Donati, D. & Dumont, G. (2012)** Tempo di *Sempervivum* – 3. Urcaela. *Sempervivum grandiflorum* Haw. Il semprevivo dall'odore ... di piedi. Piante Grasse 32(3): 34-45, ills., map. [Simultaneously also published in an English edition.]
- [122] **Dornig, V. (2012)** *Crassula sarcocaulis* Ecklon & Zehyer ssp. *rupicola* Tolken var. *mulanjeana* R. Fernandes. Avonia-News 2012(12): 18-20, ills. [Included for the illustrations.]
- [123] **Dosedal, U. (2012)** Aktion "*burrensis*". Echinocereenfreund 25(2): 33-39, ills., map. [On finding *Echinocereus reichenbachii* ssp. *burrensis*.]
- [124] **Dráb, I. (2012)** *Euphorbia tardieuana* Léandri. Atlas Suk. 13: t. 507 [2 pp.], ill.
- [125] **Dringman, D. (2012)** The *Opuntia fragilis* hybrids of Babcock Bench. Cactus-World 30(1): 30-34, ills. [The paper includes a long comment by E. Ribbens (pp. 33-34).]
- [126] **Dringman, D. (2012)** [Czech:] *Opuntia erinacea* var. *columbiana* from the Yakima Riverside, Washington, USA. Kaktusy (Brno) 48(1): 23-25, ills.
- [127] **Duarte, W. (2012)** Kommt *Notocactus gutierrezii* Abraham auch in Uruguay vor? Internoto 33(2): 61-64.
- [128] **Duncan, G. (2012)** The genus *Lachena-*



*lia*. Richmond (GB): Kew Publishing, Royal Botanic Gardens, Kew. xv + 479 pp., ills., key, maps.

[129] **Earle, R. (2012)** Number of heads and head size in a *Lithops karsmontana* ssp. *eberlanzii* population in habitat. Mesemb Study Group Bull. 27(2): 48-50, ills.

[130] **Earle, R. & Schoeman, T. (2012)** Observations at in-habitat populations of the *Lithops pseudotruncatella* susp. *groendrayensis* / *dendritica* complex in Namibia. Mesemb Study Group Bull. 27(3): 73-76, ills.

[131] **Earle, R. & Schoeman, T. (2012)** Unequal sized head formation in *Lithops ruschiorum* subsp. *ruschiorum* in habitat. Mesemb Study Group Bull. 27(4): 101-102, ills.

[132] **Earle, R., Mouton, H. & Round, J. (2012)** In-population variation in *Lithops julii* ssp. *julii* in habitat. Mesemb Study Group Bull. 27(2): 51, ills. (p. 50).

[133] **Echeverría, J. & Niemeyer, H. M. (2012)** Alkaloids from the native flora of Chile: A review. Bol. Latinoamer. Caribe Pl. Med. Aromat. 11(4): 291-305, ills. [Includes reports for *Cactaceae* (2 species).]

[134] **Echeverría, J. & Niemeyer, H. M. (2012)** Phenylethylamines from *Browningia candelaris* (*Cactaceae*). Bol. Latinoamer. Caribe Pl. Med. Aromat. 11(4): 341-344.

[135] **Edwards, E. J. (2012)** Phylogeny and ecological adaptation in the *Portulacineae* and relatives (Caryophyllales). In: Timonin, A. K. & al. (eds.): Caryophyllales: New insights into phylogeny, systematics and morphological evolution of the order; proceedings of the symposium held on 24th - 27th September 2012; pp. 27-29, ills. Moscow (RU): M. V. Lomonosov State University.

[136] **Eggli, U. (2012)** De fichas a bases de datos computarizadas. Una historia de 61 años de éxitos: Repertorium Plantarum Succulentarum. Bol. Soc. Latinoamer. Caribe Cact. otras Suc. 8(3): 3-5, ills. [Dated 2011, received 18. Jan. 2012.]

[137] **Eggli, U. & Crouch, N. R. (2012)** Notes on African plants. *Hyacinthaceae*. *Drimys echinostachya*, correcting a nomenclatural oversight. Bothalia 42(1): 43.

[138] **Eggli, U. & Walter, H. (2012)** (2075) Proposal to reject the name *Cactus coquimbanus* (*Cactaceae*). Taxon 61(3): 686-687.

[139] **Eichler, M. (2012)** Die Parodienfunde von Dietrich Herzog (2). Mitteilungsbl. Inter-Parodia-Kette 28: 3-4, ills. [Continued from l.c. 27, 2011.]

[140] **Ervin, G. N. (2012)** Indian Fig Cactus (*Opuntia ficus-indica* (L.) Miller) in the Americas: An uncertain history. Haseltonia 17: 70-81, ills., map. [URL](#)

[141] **Espejo-Serna, A. (2012)** El endemismo en las *Liliopsida* mexicanas. Acta Bot. Mex. 100: 195-257. [URL](#)

[142] **Ettelt, J. (2012)** Ein Perlenschnur-*Senecio* am Standort. Avonia-News 2012(5): 14-19, ills. [On *Senecio rowleyanus*, with superb photographs.]

[143] **Etter, J. & Kristen, M. (2012)** Agaven im mexikanischen Bundesstaat Jalisco. *Agave* species in the Mexican State of Jalisco. Avonia 30(2): 79-96, XXVIII-XXXII, ills.

[144] **Etter, J. & Kristen, M. (2012)** The rediscovery of the elusive *Echeveria tobarensis*. Cact. Succ. J. (Los Angeles) 83(6): 275-283, ills. [Volume for 2011, publ. 9. Jan. 2012 (inside front cover).]

[145] **Faden, R. B. (2012)** *Commelinaceae*. In: Beentje, H. J. (ed.): Flora of Tropical East Africa. Richmond (GB): Royal Botanic Gardens, Kew, on behalf of the East African Governments. 245 pp., ills., keys.

[146] **Fehér, M. (2012)** [Hungarian]: Natural variability of *Echinocactus horizonthalonius*. Kaktusz Vilag 35(5): 214-221. [Volume for 2011, publ. Jan. 2012. Included for the illustrations.]

[147] **Fehlberg, S. D., Allen, J. M. & Church, K. (2012)** A novel method of genomic DNA extraction for *Cactaceae*. Applic. Pl. Sci. 1(3): 1200013 [5 pp.]. [URL](#)

[148] **Ferrer-Cervantes, M. E., Méndez-González, E., Quintana-Ascensio, P. F., Dorantes, A., Dzib, G. & Durán, R. (2012)** Population dynamics of the cactus *Mammillaria gaumeri*: An integral projection model approach. Populat. Ecol. 54(2): 321-334. [URL](#)



- [149] **Figueiredo, E. & Smith, G. F. (2012)** Clarifying the application of the long-confused name *Aloe commutata*, and the establishment of *Aloe ×commutata* Tod. (*Asphodelaceae*). *Bradleya* 30: 25-32, ills.
- [150] **Fonseca, R. B. S., Funch, L. S. & Borba, E. L. (2012)** Dispersão de sementes de *Melocactus glaucescens* e *M. paucispinus* (*Cactaceae*), no Município de Morro do Chapéu, Chapada Diamantina - BA. *Acta Bot. Brasil.* 26 (2): 481-492, ills. [URL](#)
- [151] **Fraass, F. (2012)** Funck's Hauswurz (*Sempervivum ×funkii* F. Braun ex W. D. J. Koch) in Bad Berneck. *Avonia* 30(4): 178-195, ills. [First half also published in *Semperpost* 40: 4-21, ills., 2012.]
- [152] **Franck, A. R. (2012)** Synopsis of *Harrisia* including a newly described species, several typifications, new synonyms, and a key to species. *Haseltonia* 18: 95-104, ills., key. [URL](#)
- [153] **Franck, A. R., Cochrane, B. J. & Garey, J. R. (2012)** Low-copy nuclear primers and ycf1 primers in *Cactaceae*. *Amer. J. Bot.* 99(10): e405-407. [URL](#)
- [154] **Freeman, D. (2012)** The largest *Echinocereus* in the world (?). *Cact. Explorer* 4: 40-45, ills. [On a giant form of *Echinocereus triglochidiatus* from White Sands National Monument.]
- [155] **Frick, W. F., Price, R. D., Heady, P. A. & Kay, K. M. (2013)** Insectivorous bat pollinates columnar cactus more effectively per visit than specialized nectar bat. *Amer. Naturalist* 181(1): 137-144. [Electronically published Dec. 2012, print version Jan. 2013.] [URL](#)
- [156] **Fritz, G. (2012)** Serendipitous discoveries of some interesting plants in southern Gauteng. *Aloe* 49(1): 21-23, ills. [Includes data on *Aloe*, *Brachystelma*, *Crassula* and *Orbea*.]
- [157] **Fritz, G. (2012)** Review of the three species accepted in *Chortolirion* A. Berger (*Xanthorrhoeaceae: Asphodeloideae*). *Aloe* 49(1): 4-9, ills.
- [158] **Frohning, H. (2012)** Beobachtungen an *Ascleps*. *Caralluma* 14(1): 22-25, ills. [Superb pictures of flies carrying *Stapelia* pollinaria.]
- [159] **Gallegos-Vázquez, C., Scheinvar, L., Núñez-Colín, C. A. & Mondragón-Jacobo, C. (2012)** Morphological diversity of xocostles (*Opuntia* spp.) or acidic cactus pears: A Mexican contribution to functional foods. *Fruits* 67 (2): 109-120, ills. [URL](#)
- [160] **Gallo, L. (2012)** *Sempervivum ×luisae* Gallo (*Crassulaceae*) hybr. nov., endemico dell'Italia centrale. *Ann. Mus. Civici Rovereto, Sez. Archeol., Storia, Sci. Nat.* 27: 287-296, ills., key. [Volume for 2011, publ. 2012. Includes a key to *Sempervivum* taxa in the Apennines.]
- [161] **Gallo, L. (2012)** Natural hybrids in *Sedum* series *Rupestris* Berger (*Crassulaceae*): A review of taxonomy and nomenclature. *Forum Geobot.* 6: 1-13, ills. [URL](#)
- [162] **Gallo, L. & Jeanmonod, D. (2012)** *Crassulaceae*. In: Jeanmonod, D. & Schlüssel, A. (eds.): Notes et contributions à la flore de Corse, XXIV. *Candollea* 67(2): 312. [On *Sedum litoreum*.]
- [163] **Galvez, M. J., Prat, M. I. & Villamil, C. B. (2012)** Immunochemical properties of seed proteins as systematic markers in *Cactaceae*. *Biochem. Syst. Ecol.* 44: 20-26. [URL](#)
- [164] **Gao, Q., Zhang, D., Duan, Y., Zhang, F., Li, Y., Fu, P. & Chen, S. (2012)** Intraspecific divergences of *Rhodiola alsia* (*Crassulaceae*) based on plastid DNA and internal transcribed spacer fragments. *Bot. J. Linn. Soc.* 168(2): 204-215, map. [URL](#)
- [165] **García de Almeida, O. J., Sartori Paoli, A. A. & Cota-Sánchez, J. H. (2012)** A macro- and micromorphological survey of floral and extrafloral nectaries in the epiphytic cactus *Rhipsalis teres* (*Cactoideae: Rhipsalideae*). *Flora* 207(2): 119-125, ills. [URL](#)
- [166] **Garcia, J. dos S., Scremin-Dias, E. & Soffiatti, P. (2012)** Stem and root anatomy of two species of *Echinopsis* (*Trichocereaceae: Cactaceae*). *Revista Mex. Biodivers.* 83: 1036-1044, ills. [URL](#)
- [167] **Gardner, A. G., Vaio, M., Guerra, M. & Emshwiller, E. (2012)** Diversification of the American bulb-bearing *Oxalis* (*Oxalidaceae*): Dispersal to North America and modification of the tristylous breeding system. *Amer. J. Bot.* 99 (1): 152-164, ills., maps. [URL](#)
- [168] **Gentili, A. & Calestani, G. (2012)** Fra la diagonale e la trasversale: Il complesso di *Sulcorebutia crispata* e le *sulcorebutie* del sudest.

Between the diagonal and the transversal: The complex of *Sulcorebutia crispata* and the sulcorebutias of the south-east. Cactus & Co. 14(4): 52-69, ills., map. [Dated 2011, received at ZSS Feb. 2012.]

[169] **Gerbaulet, M. (2012)** One or many genera in *Mesembryanthemoideae* (*Aizoaceae*)? Discussion of a conflict in genus perception. *Bradleya* 30: 187-198, ills.

[170] **Gerloff, N. (2012)** Fortsetzung: Bemerkungen zur Abgrenzung von *Notocactus submammulosus* (Lemaire) Berger ex Backeberg. *Internoto* 33(1): 23-32, ills. [Continued from *l.c.* 32(4), 2011.]

[171] **Gerloff, N. (2012)** *Notocactus tetraacanthus* (Lemaire) N. Gerloff & J. Neduchal. Eine vernachlässigte Pflanze vom Rio Uruguay. *Internoto* 33(2): 53-58, ills.

[172] **Gerloff, N. (2012)** Die südlichste Population von *N.[otocactus] multicosatus* Buining & Brederoo. *Internoto* 33(4): 94-96, ills.

[173] **Gerloff, N. & Klein, S. H. (2012)** [Czech:] *Notocactus rechensis* Buining in its habitat. *Kaktusy* (Brno) 48(4): 130-132, ills.

[174] **Gertel, W. (2012)** Einige Bemerkungen zu dem Artikel "Ergänzende Anmerkungen zur Beschreibung der *Sulcorebutia tiraquensis* var. *huanacumiensis*" in *KuaS* 3/2012. *Echinopseen* 9(2): 50-54, ills.

[175] **Gertel, W. & Jucker, H. (2012)** *Sulcorebutia azurduyensis* var. *sormae* – eine neue Varietät aus der südlichen Cordillera Mandinga, Chuquisaca, Bolivien. *Echinopseen* 9(2): 55-60, ills., map.

[176] **Geuens, M., Goris, R. & Siebold, K. (2012)** Zum Status des *Echinocereus fendleri* ssp. *hempalii*. *Echinocereenfreund* 25(4): 166-181, ills.

[177] **Giani, M. (2012)** *Copiapoa taltalensis* in the vicinity of Sierra Esmeralda. *Cact. Explorer* 6: 52-56, ills.

[178] **Gildenhuys, S. D. & Marx, G. (2012)** An honorary *Ariocarpus* in Africa. Notes and updated information regarding *Haworthia marxii*. *Alsterworthia* Int. 12(2): 15-28, ills.

[179] **Goldblatt, P., Manning, J. C. & Forest, F. (2012)** A review of chromosome cytology in *Hyacinthaceae* subfamilies *Urgineoideae* and

*Hyacinthoideae* (tribes *Hyacintheae*, *Masonieae*, *Pseudoprosperaeae*) in sub-Saharan Africa. *S. African J. Bot.* 83: 134-144, ills. [URL](#)

[180] **González Granados, J. (2011)** Descubrimiento de una nueva subespecie de *Sedum* en el centro de España. *Foresta* 54: 70-83, ills. [Undated, date established from the metadata of the data file.]

[181] **González-Torres, L. R., Barrios, D. & Palmarola, A. (2012)** The ecology and natural history of *Leptocereus scopulophilus* (*Cactaceae*). *CactusWorld* 30(2): 110-114, ills.

[182] **Gorelick, R. (2012)** *Euphorbia antiquorum* and James Bond. *Cact. Succ. J.* (Los Angeles) 84(5): 244-246, ills. [Included for the habitat illustrations.]

[183] **Gorelick, R. & Machado, M. (2012)** Axillary branching of lateral cephalia of *Coleocephalocereus* (*Cactaceae*). *Haseltonia* 17: 35-41, ills. [URL](#)

[184] **Gosavi, K. V. C., Kambale, S. S. & Yadav, S. R. (2012)** In: Marhold, K. & Breitwieser, I. (eds.): IAPT / IOPB chromosome data 14. *Taxon* 61(6): 1338. [Includes data on Indian *Brachystelma* and *Ceropegia* species.]

[185] **Goyder, D., Harris, T., Masinde, S., Meve, U. & Venter, J. (2012)** *Apocynaceae* (part 2). In: Beentje, H. J. (ed.): *Flora of Tropical East Africa*. Richmond (GB): Royal Botanic Gardens, Kew, on behalf of the East African Governments. pp. 115-530, ills., maps, keys. [This part covers subfamilies *Asclepiadoideae*, *Periplocoideae* and *Secamonoideae* and thus the majority of the succulents of the family.]

[186] **Grätz, S. (2012)** *Desmidorchis acutangula* im Norden Kenias. *Caralluma* 14(1): 2-4, ills. [Included for the illustrations.]

[187] **Grätz, S. & Ruwa, A. K. (2012)** A visit to Lamu Archipelago. *Sansevieria* 27: 7-11, ills. [On *Sansevieria powysii*.]

[188] **Green, C. W. & Ferguson, D. J. (2011)** Pricklypears commonly found in the United States and Mexico. *sine loco* (US): pricklypeargreen.com. 140 pp., ills., maps. [Omitted previously.]

[189] **Green, K. (2012)** Sassi fioriti. Incontro di sottospecie. Flowering stones. Where subspecies meet. *Cactus & Co.* 16(3): 76-87, ills. [On

*Lithops pseudotruncatella* ssp. *groendrayensis* and ssp. *dendritica*.]

[190] **Grenier, F. (2012)** Variability in / Variabilità in *Crassula deceptor*. *Cactus & Co.* 16(1): 4-7, ill.

[191] **Greulich, M. (2012)** Am Standort von *Agave angustiarum* Trelease (*Agavaceae*) in Chalcatzingo (Morelos, Mexiko) und Anmerkungen zur Variabilität und Taxonomie. *Avonia* 30(1): 25-36, ill. [English version l.c. xi-xv.]

[192] **Greulich, M. (2012)** *Agave cundinamarcensis* A. Berger – eine interessante Agavenart aus Kolumbien. *Avonia* 30(2): 113-117, ill.

[193] **Greulich, M. (2012)** *Agave montana* Villareal und *Agave gentryi* Ullrich. Am Standort im mexikanischen Bergland der Sierra Madre Oriental. *Wüstengarten* 3: 35-55, ill.

[194] **Griffith, M. P., Sustache, J. S., Francisco-Ortega, J. & Santiago-Valentín, E. (2012)** *Cactus, succulent, and pachycaul flora of Mona Island*. *Haseltonia* 18: 56-66, map, ill. URL

[195] **Grubenmann, M. (2012)** *Euphorbia razafinjohanii* [sic!] aus Madagaskar. *Kakt. and. Sukk.* 63(12): 322-325, ill.

[196] **Guiggi, A. (2012)** Reassessment of the infra-specific variability of *Opuntia sulphurea* Gillies ex Salm-Dyck (*Opuntioideae* – *Opuntieae*) from Argentina and Bolivia. *Cactology* 3: 10-13, ill.

[197] **Guiggi, A. (2012)** Neotypification of *Opuntia miquelii* Monville (*Opuntioideae* – *Opuntieae*) from Chile. *Cactology* 3: 14-16, ill.

[198] **Guiggi, A. (2012)** Typification and new combinations in the genus *Trichocereus* (A. Berger) Riccobono. *Cactology* 3(Suppl. II): 5-11, ill.

[199] **Guillot Ortiz, D., Meer, P. van der & Puche, C. (2012)** *Agave ingens* A. Berger y sus cultivares en España. *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 9(1): 11-18, ill.

[200] **György, Z., Szabó, M., Bacharov, D. & Pedryc, A. (2012)** Genetic diversity within and among populations of roseroot (*Rhodiola rosea* L.) based on molecular markers. *Notul. Bot. Horti Agrobot. Cluj-Napoca Inst. Agron.* "Dr. Petru Groza" 40(2): 266-273, ill., map.

[201] **Hadrava, J. (2012)** [Czech:] The complex

of *S.[empervivum] marmoreum* Grisebach – 1 / 2. *Cactaceae etc.* 22(2): 70-73, (3): 102-104, ill., map.

[202] **Hadrava, J. (2012)** [Czech:] Succulents from Corsica, with emphasis on the genus *Sempevivum*. *Cactaceae etc.* 22(4): 152-156, ill.

[203] **Haigh, A. & Boyce, P. C. (2012)** *Araçaeae*. In: Timberlake, J. R. & Martins, E. S. (eds.): *Flora Zambesiaca*, Volume 12, part 1; pp. 1-52, ill., keys. Richmond (GB): Royal Botanic Gardens, Kew, for *Flora Zambesiaca* Managing Committee. [Includes *Zamioculcas* (pp. 22-24).]

[204] **Hale, T. (2012)** My favourite *Crassulaceae*. *Newslett. Sedum Soc.* 101: 60-63, ill. [On *Prometheum serpenticum*.]

[205] **Halford, D. A. & Harris, W. K. (2012)** A taxonomic revision of *Euphorbia* section *Anisophyllum* Roeser (*Euphorbiaceae*) in Australia. *Austrobaileya* 8(4): 441-600.

[206] **Hanáček, P. & Ricánek, M. (2012)** *Rhytidocaulon elegantissimum* Hanáček & Ricánek, a new species from Yemen. *Haseltonia* 17: 96-100, ill., key. [Includes a key to *Rhytidocaulon* species from the Arabian Peninsula.] URL

[207] **Hans, W., Kellner, H. & Neumann, A. (2012)** *Hybridenbuch AG Echinopsishybriden*. Köthen (DE): Arbeitsgemeinschaft Echinopsis-Hybriden. 274 pp., ill. [Illustrating the incredible diversity of artificially produced hybrids in *Trichocereinae*.]

[208] **Hartl, M. (2012)** *Caralluma burchardii* auf Fuerteventura. *Kakt. and. Sukk.* 63(1): 1-6, ill.

[209] **Hartmann, H. E. K. & Niesler, I. M. (2012)** A Gordion knot in *Ruschioideae* (*Aizoaceae*): *Acrodon* and *Brianhuntleya* in an attempt to disentangle the confusion. *Bradleya* 30: 33-60, ill., map, keys.

[210] **Hayashi, M. (2012)** New arrangement of the [*Haworthia*] *obtusata* group. *Haworthia Study* 27: 16-17, ill.

[211] **Hayashi, M. (2012)** [*Haworthia*] *maxima* group. *Haworthia Study* 27: 18-19, ill.

[212] **Heibl, C. & Renner, S. S. (2012)** Distribution models and a dated phylogeny for Chilean *Oxalis* species reveal occupation of new habitats by different lineages, not rapid adaptive

radiation. Syst. Biol. 61(5): 823-834, ills, maps. [URL](#)

[213] **Heiduk, A., Meve, U. & Dötterl, S. (2012)** *Ceropegia sandersonii* und *Ceropegia denticulata* – der Trick mit dem "Sonntagsbraten". Caralluma 14(1): 8-11, ills. [On pollination ecology.]

[214] **Heim, A. (2012)** *Yucca recurvifolia* × *thompsoniana* (ex "thompsonifolia"). Eine äusserst gartenwürdige Hybride. Wüstengarten 3: 56-60, ills.

[215] **Hermesmeier, U., Grann, J. & Plescher, A. (2012)** *Rhodiola integrifolia*: Hybrid origin and Asian relatives. Botany 90(11): 1185-1190. [URL](#)

[216] **Hochstätter, F. (2012)** Die Gattung *Nolina* (*Nolinaceae*) Michaux. Kaktusblüte 2012: 30-33, ills. [Condensed synopsis of Sect. *Nolina*.]

[217] **Hochstätter, F. (2012)** *Dasylyrion*: le specie / the species. Parte / Part 3. Sezione / section *Glaucophyllum* Hochstätter. Pianta Grasse 31(4): 162-181, ills., map. [Dated 2011, received at ZSS Feb. 2012. Continued from l.c. 31(3), 2011.]

[218] **Hörger, G. & Niesel, C. (2012)** Die *Weingartia trollii*. Kakt. and. Sukk. 63(11): 286-289, ills.

[219] **Hofacker, A. (2012)** Some notes on *Wigginsia corynodes*. Cact. Explorer 4: 26-34, ills.

[220] **Hofacker, A. (2012)** *Schlumbergera opuntioides* (Löfgren & Dusén) D. R. Hunt – Beobachtungen am natürlichen Standort. EPIG 70: 5-18, ills., map.

[221] **Hofacker, A. (2012)** Zur Nomenklatur der Gattungen *Parodia* und *Notocactus* sowie ihrer Synonyme. Internoto 33(3): 74-85, ills.

[222] **Holmgren, N. H., Holmgren, P. K., Reveal, J. L. & al. (2012)** Intermountain Flora. Vascular plants of the Intermountain West, USA. Volume two, part A: Subclasses Magnoliidae - Caryophyllidae. Bronx (US): New York Botanical Garden. 742 pp., ills., keys. [Includes *Aizoaceae* (pp. 568-572), *Montiaceae* (pp. 606-632), *Portulacaceae* (pp. 632-634) and *Cactaceae* (pp. 634-697).]

[223] **Horn, J. W., Ee, B. W. van, Morawetz, J. J., Riina, R., Steinmann, V. W., Berry, P. E.**

**& Wurdack, K. J. (2012)** Phylogenetics and the evolution of major structural characters in the giant genus *Euphorbia* L. (*Euphorbiaceae*). Molec. Phylogen. Evol. 63(2): 305-326, ills. [URL](#)

[224] **Horner, H. T., Wanke, S. & Samain, M. S. (2012)** A comparison of leaf crystal macro-patterns in the two sister genera *Piper* and *Peperomia* (*Piperaceae*). Amer. J. Bot. 99(6): 983-997, ills. [URL](#)

[225] **Houyelle, S. (2012)** Pollinisation manuelle des *Uncarina*. Succulentopia 1: 6-10, ills. [Includes photographs of a hybrid *Uncarina stellulifera* × *U. grandidieri* obtained in cultivation.]

[226] **Hoxey, P. (2012)** *Mammillaria luethyi*. In search of a botanical jewel from Mexico. Cact. Explorer 3: 30-36, ills.

[227] **Hoxey, P. (2012)** Recent new descriptions. Cact. Explorer 5: 6-12, ills. [On *Browningia hernandezii* from Colombia.]

[228] **Hoxey, P. (2012)** *Copiapoa griseoviola* – A re-description of *Copiapoa cuprea*? Cactaceae Syst. Init. 27: 10-12, ills.

[229] **Hoxey, P. (2012)** *Opuntioideae* of Peru – an overview. Tephrocactus Study Group 17(4): 47-51, 54-56, ills. (incl. p. 60). [Dated 2011, received March 2012. Continued l.c. 18(1), 2012.]

[230] **Hoxey, P. (2012)** *Opuntioideae* of Peru – an overview. Part 2. Tephrocactus Study Group 18(1): 3-7, 11, ills. [Continued from l.c. 17(4), 2012 ('2011').]

[231] **Hübner, F. & Tränkle, U. (2012)** Die *Ascleps* des Rössing-Berges östlich Swakopmund (Namibia) Caralluma 14(1): 12-19, ills., map.

[232] **Hunt, D. R. (2012)** A brief outline of the cacti of Nicaragua. Cactaceae Syst. Init. 26: 21-29, ills., map.

[233] **Hunt, D. R. (2012)** Taxonomic implications of DNA studies relating to *Cactaceae* subfam. *Cactoideae*. Cactaceae Syst. Init. 26: 5-11.

[234] **Hunt, D. R. (2012)** NCL updates etc. *Austrocactus*. Cactaceae Syst. Init. 27: 17-20, ills.

[235] **Hunt, D. R. (2012)** A first record of *Hyl-*

*cereus escuintlensis* for Nicaragua. Cactaceae Syst. Init. 28: 24-25, ills.

[236] **Hunt, D. R. (2012)** Tricky Trichos. Cactaceae Syst. Init. 28: 3-4. [Continued l.c. 29: 5, 2013.]

[237] **Ibarra-Manríquez, G., Cornejo-Tenorio, G., González-Castañeda, N., Piedra-Malagón, E. M. & Luna, A. (2012)** El género *Ficus* L. (*Moraceae*) en México. Bot. Sci. 90 (4): 389-452, ills., keys, map.

[238] **James, G. & Drover, C. (2012)** *Dudleya stolonifera*, the Laguna Beach *Dudleya*. Cact. Succ. J. (Los Angeles) 84(6): 268-270, ills.

[239] **Janeba, Z. (2012)** Recent new descriptions. Cact. Explorer 5: 13-15, ills. [On *Maihueniopsis glochidiata*.]

[240] **Janeba, Z. (2012)** *Escobaria robbinsorum* (W. H. Earle) D. R. Hunt, a botanical gem from the US-Mexico border. CactusWorld 30 (2): 82-84, ills.

[241] **Jestrow, B., Valdés, J. J., Jiménez-Rodríguez, F. & Francisco-Ortega, J. (2012)** Phylogenetic placement of the Dominican Republic endemic genus *Sarcopilea* (*Uricaceae*). Taxon 61(3): 592-600, ills.

[242] **Jewell, C., Papineau, A. D., Freyre, R. & Moyle, L. C. (2012)** Patterns of reproductive isolation in *Nolana* (Chilean Bellflower). Evolution 66(8): 2628-2636, ills., map. [URL](#)

[243] **Jimeno-Sevilla, H. D., Carrillo-Reyes, P., Pérez-Calix, E. & Cházaro-Basáñez, M. J. (2012)** Additions to the *Crassulaceae* of the State of Veracruz, Mexico. Haseltonia 18: 140-152, ills., maps. [URL](#)

[244] **Jonkers, B. (2012)** Zwei Neue *Aeonium*-Hybrid-Kultivare. Avonia 30(1): 47-52, ills. [English version l.c., xx-xxi]

[245] **Käsinger, F. (2012)** *Parodia sanguiniflora* Fric ex Backeberg. Mitteilungsbl. Inter-Parodia-Kette 28: 17-18, ills.

[246] **Kakuta, K., Baba, M., Ito, S., Kinoshita, K., Koyama, K. & Takahashi, K. (2012)** New triterpenoid saponins from cacti and anti-type I allergy activity of saponins from cactus. Bioorg. Med. Chem. Lett. 22(14): 4793-4800, ills. [URL](#)

[247] **Kambale, S. S. & Yadav, S. R. (2012)**

On the identity and occurrence of *Ceropegia gardneri* Thwaites in India. Asklepios 114: 23-26, ills.

[248] **Kattermann, F. (2012)** Observation of the Chilean *Opuntioideae*. Part V, *Tunilla* / Part VI, *Tephrocactus*. Cact. Succ. J. (Los Angeles) 84(2): 94-99, ills., map.

[249] **Kirkel, J. (2012)** *Euphorbia gamkensis* J. G. Marx and *Euphorbia colliculina* White, Dyer & Sloane – Two rare and interesting *Euphorbia* species endemic to the De Rust – Calitzdorp valley in the Klein Karoo. Aloe 49(1): 10-17, ills. [German translation in Avonia News 2013(6): 6-14, ills., 2013.]

[250] **Klak, C. (2012)** Two new species of *Cleretum* (*Ruschioideae* – *Dorotheanthaeae*, *Aizoaceae*) from the Northern Cape, South Africa. Haseltonia 18: 27-33, ills., map, key. [Includes a key to the species of *Cleretum*.] [URL](#)

[251] **Klak, C. & Bruyns, P. V. (2012)** Phylogeny of the *Dorotheanthaeae* (*Aizoaceae*), a tribe of succulent annuals. Taxon 61(2): 293-307, maps.

[252] **Klein, S. H. (2012)** *Notocactus catarinensis* (F. Ritter) Theunissen. Internoto 33(2): 35-39, ills., map.

[253] **Klein, S. H. (2012)** *Notocactus multicos-tatus* Buining & Brederoo mit braunen Dornen! Internoto 33(4): 91-94, ills.

[254] **Klopper, R. R., Lane, S. S., Msekandiana-Mkwapatira, G. & Smith, G. F. (2012)** The genus *Aloe* L. (*Asphodelaceae: Alooideae*) in Malawi. Bradleya 30: 65-92, ills., maps, key.

[255] **Knutti, B. & Hefti, C. (2012)** Am Standort von *Notocactus concinnus* Monville (Berger ex Backeberg) [sic!] auf dem Cerro de Montevideo. Internoto 33(1): 3-12, ills.

[256] **Köllner, G. (2012)** Untersuchungen zum Blütenduft bei Echinopseem. Echinopseem 9(2): 80-84. [Cont. from l.c. 7(1): 35, 2010.]

[257] **Köllner, G. & Scholz, E. (2012)** *Trichocereus volcanensis* Ritter. Echinopseem 9(2): 85-88, ills.

[258] **Kozhevnikova, Z. V. & Kozhevnikov, A. E. (2012)** In: Marhold, K. & Breitwieser, I. (eds.): IAPT / IOPB chromosome data 14. Taxon 61(6): 1340-1341. [Includes data on *Sedum ussuriense*.]

[259] **Krajca, R. (2012)** [Czech:] *Uebelmannia buiningii*. Cactaceae etc. 22(2): 43-46, ills. [Included for the illustrations.]

[260] **Kubota, S., Konno, I. & Kanno, A. (2012)** Molecular phylogeny of the genus *Asparagus* (*Asparagaceae*) explains interspecific crossability between the garden asparagus (*A. officinalis*) and other *Asparagus* species. Theor. Appl. Genet. 124(2): 345-354, map. [URL](#)

[261] **Kunte, L. & Snicer, J. (2012)** [Czech:] Colour variability of flowers of *Thelocactus conothelos* (Regel et Klein) Backeb. et Knuth. Kaktusy (Brno) 48(1): 33-34, ills.

[262] **Lange, M. (2012)** Notizen zu *Echinocereus hempehii* Fobe. Echinocereenfreund 25(4): 152-155, ills.

[263] **Laub, G. (2012)** Was ist *atrovirens*? Teil II, *Lobivia* – *Mediolobivia* – *Digitorebutia* – etc. Echinopseen 9(1): 36-42, ills. [Continued from l.c. 7(1), 2010.]

[264] **Lechner, P. (2012)** Ergänzende Anmerkungen zur Beschreibung der *Sulcorebutia tiraquensis* var. *huanacuniensis*. Kakt. and. Sukk. 63(3): 71-76, ills. [Partial Russian version in Kakt. Tolko 2012(4): 32-36, iii, ills., 2012.]

[265] **Lenzi, M. & Orth, A. I. (2011)** Visitantes florais de *Opuntia monacantha* (*Cactaceae*) em restingas de Florianópolis, SC, Brasil. Acta Biol. Paran. 40: 19-32. [Omitted previously.]

[266] **Lenzi, M. & Orth, A. I. (2012)** Mixed reproduction systems in *Opuntia monacantha* (*Cactaceae*) in southern Brazil. Brazil. J. Bot. 35(1): 49-58, maps. [URL](#)

[267] **Leuenberger, B. E. (2012)** The misnamed *Cleistocactus* of Tupiza. Cactaceae Syst. Init. 27: 12-17, ill.

[268] **Lindsay, D. L., Edwards, C. E., Jung, M. G., Bailey, P. & Lance, R. F. (2012)** Novel microsatellite loci for *Agave parryi* and cross-amplification in *Agave palmeri* (*Agavaceae*). Amer. J. Bot. 99(7): e295-e297, ills., map. [URL](#)

[269] **Linzen, T. (2012)** Ein Juwel unter den Echeverien – *Echeveria laui*. Kakt. and. Sukk. 63(4): 93-98, ills. [Included for the habitat illustrations.]

[270] **Linzen, T. (2012)** Der mittlere Westen

von Mexiko – ein wenig bekanntes *Mammillaria*-Gebiet; Teil 1: Reppenhagens "Zierliche" aus Colima. / The mid-west of Mexico – a little known *Mammillaria* area; part 1: Reppenhagens "elegans" from Colima. Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(1): 48-64, ills.

[271] **Linzen, T. (2012)** *Mammillaria hamata* Lehmann ex Pfeiffer – oder was sonst? *Mammillaria hamata* Lehmann ex Pfeiffer – or? Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(2): 66-80, ills. [Partial Russian version in Kakt. Tolko 2012(4): 18-24, ills., maps, 2012.]

[272] **Linzen, T. (2012)** Der mittlere Westen von Mexiko – ein wenig bekanntes *Mammillaria*-Gebiet; Teil 2: Die schöne nördliche Fortsetzung der *M. voburnensis*. / The mid-west of Mexico – a little known *Mammillaria* area; part 2: The pretty northern continuation of *Mammillaria voburnensis*. Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(4): 194-217, ills., map.

[273] **Lodé, J. (2012)** *Leuenbergeria*, un nouveau genre de Cactée. Cact.-Avent. Int. 97: 25-27. [Dated Jan. 2013 but publ. 28. 12. 2012 fide IPNI. The parallel English edition was published in early Jan. and differs slightly in pagination.]

[274] **Lodé, J. (2012)** Cactus and dinosaurs: Did they coexist? Cact.-Avent. Int. 97: 9-17, ills. [Dated Jan. 2013, published 28. 12. 2012 fide IPNI for *Leuenbergeria*. Simultaneously published in French, English and Spanish versions.]

[275] **Lodé, J. (2012)** The true story of *Leuchtenbergia principis* or the taxonomy towards the future. Int. Cact.-Advent. 95: 15-19, ills. [Simultaneously published in French, English and Spanish versions.]

[276] **Lodé, J. (2012)** The true story of *Borzicactus* Riccobono. Int. Cact.-Advent. 96: 24-26, ills. [Simultaneously published in French, English and Spanish versions.]

[277] **López-Gómez, V., Zedillo-Avelleyra, P., Anaya-Hong, S. Y., González-Lozada, E. & Cano-Santana, Z. (2012)** Efecto de la orientación de la ladera sobre la estructura poblacional y ecomorfología de *Neobuxbaumia tetetzo* (*Cactaceae*). Bot. Sci. 90(4): 453-457, ills. [URL](#)

[278] **Lowry, M. (2012)** A visit to Cajas Bajo,



- Bolivia. *Cact. Explorer* 4: 37-39, ills. [On *Rebutia flavistyla*, *R. pulvinosa* and *R. albiflora*.]
- [279] **Lowry, M. (2012)** *Echinopsis*. A further note on *E. rojasii* / *E. calorubra*. *Cactaceae Syst. Init.* 28: 22-24, ill., map.
- [280] **Lowry, M. (2012)** On the identity of *Parodia mairanana* Card. *Cactaceae Syst. Init.* 28: 26-27, ill., map.
- [281] **MacRoberts, M. H. & MacRoberts, B. R. (2012)** *Portulaca umbraticola* (*Portulacaceae*) in Louisiana. *Phytoneuron* 2012(6): 1-4, ills., map.
- [282] **Mahr, D. (2012)** *Commiphora*: An introduction to the genus. *Cact. Succ. J. (Los Angeles)* 84(3): 140-154, ills. map.
- [283] **Majure, L. C. & Ribbens, E. (2012)** Chromosome counts of *Opuntia* (*Cactaceae*), prickly pear cacti, in the midwestern United States and environmental factors restricting the distribution of *Opuntia fragilis*. *Haseltonia* 17: 58-65, ills., maps. [URL](#)
- [284] **Majure, L. C., Judd, W. S., Soltis, P. S. & Soltis, D. E. (2012)** Cytogeography of the *Humifusa* clade of *Opuntia* s.s. Mill. 1754 (*Cactaceae*, *Opuntioideae*): Correlations with pleistocene refugia and morphological traits in a polyploid complex. *Comp. Cytogen.* 6(1): 53-77, ills., maps. [URL](#)
- [285] **Majure, L. C., Puente, R. & Pinkava, D. J. (2012)** Miscellaneous chromosome numbers in *Opuntieae* DC. (*Cactaceae*) with a compilation of counts for the group. *Haseltonia* 18: 67-78, ills. [URL](#)
- [286] **Majure, L. C., Puente, R., Griffith, M. P., Judd, W. S., Soltis, P. S. & Soltis, D. E. (2012)** Phylogeny of *Opuntia* s.s. (*Cactaceae*): Clade delineation, geographic origins and reticulate evolution. *Amer. J. Bot.* 99(5): 847-864, map. [URL](#)
- [287] **Mandujano, M. del C., Carrillo-Angelès, I., Martínez-Peralta, C. & Golubov, J. (2010)** Reproductive biology of *Cactaceae*. In: Ramawat, K. G. (ed.): *Desert Plants*; pp. 197-230. Berlin & Heidelberg (DE): Springer-Verlag. [Omitted previously.]
- [288] **Manning, J. C. & Goldblatt, P. (2012)** Plants of the Greater Cape Floristic Region. 1: The core Cape Flora. Pretoria (ZA): SANBI. xiv + 853 pp., keys, maps. [= *Strelitzia* 29.]
- [289] **Manning, J. C., Goldblatt, P., Parker, E. & Kaiser, R. (2012)** First record of pollination in the Afro-Eurasian *Dipcadi* Medik. (*Hyacinthaceae*): Pollination of *D. brevifolium* by the owlet moth *Syngrapha circumflexa* (*Noctuidae*). *S. African J. Bot.* 81(1): 15-18, ills. [URL](#)
- [290] **Mansfeld, P. A. (2012)** Alles über *Sansevieria*. Handbuch über Herkunft, Anzucht und Pflege. Hamburg (DE): Published by the author / Books on Demand GmbH. 128 pp., ills. [A similar, somewhat augmented book, was published 2013.]
- [291] **Martínez-Azorín, M., Clark, V. R., Crespo, M. B., Dold, A. P. & Barker, N. P. (2011)** The rediscovery of *Albuca tenuifolia*, an orophilous species from the eastern Great Escarpment in South Africa. *Nordic J. Bot.* 29: 465-470. [Omitted previously.] [URL](#)
- [292] **Martínez-Azorín, M., Crespo, M. B. & Dold, A. P. (2012)** Notes on African plants. *Hyacinthaceae*. *Albuca tenuifolia* and *A. shawii* (*Ornithogaloideae*), two distinct species from South Africa. *Bothalia* 42(2): 193-196, ills.
- [293] **Martínez-Ávalos, J. G., Martínez Gallegos, R. & Bergmann Backer, K. (2012)** Nota sobre la descripción taxonómica de *Turbinicarpus nieblae* (*Cactaceae*) una especie endémica de Tamaulipas, México. *Cact. Suc. Mex.* 57(1): 16-24, ills., map.
- [294] **Martínez-Cabrera, H. I., Schlichting, C. D., Silander, J. A. & Jones, C. S. (2012)** Low levels of climate niche conservatism may explain clade diversity patterns in the South African genus *Pelargonium* (*Geraniaceae*). *Amer. J. Bot.* 99(5): 954-960, ill. [URL](#)
- [295] **Martínez-Peralta, C. & Mandujano, M. C. (2012)** Biología de la polinización y fenología reproductiva del género *Ariocarpus* Scheidweiler (*Cactaceae*). *Cact. Suc. Mex.* 57(4): 114-127, ills.
- [296] **Maruri Aguilar, B., Sánchez Martínez, E. & Golubov Figueroa, J. (2012)** *In situ* analysis of the current conservation status of *Mammillaria herrerae* Werderm. in the southern Chihuahuan Desert. *Bradleya* 30: 111-126, ills., maps.
- [297] **Marx, G. (2012)** Fish tails and fish tales. Some comments upon *Haworthia mirabilis*

(Haw.) Haw. *Alsterworthia* Int. 12(3): 18-25, ills.

[298] **Marx, G. (2012)** *Haworthia jakubii* I. Breuer. *Alsterworthia* Int. 12(3): 8-13, ills.

[299] **Marx, G. (2012)** Le euforbie globose sudafricane. The South African spherical surges. *Euphorbia obesa* Hook. f. & *E. meloformis* Aiton. *Cactus & Co.* 16(2): 68-97, ills. [Included for the illustrations. German translation in *Avonia News* 2013(11): 21-49, ills., 2013.]

[300] **Marx, G. (2012)** *Haworthia truteriorum* I. Breuer & G. Marx. A member of a significant and neglected transitional species group. *Haworthiad* 26(2): 41-48, ills.

[301] **Marx, G. (2012)** Another miniature *H.[aworthia] truncata*. *Haworthiad* 26(3): 66-71, ills.

[302] **Masrahi, Y. S. & Bosly, H. A. (2011)** Floral biology and visitor behaviour of *Caralluma acutangula* (Decne.) N. E. Br. in Jazan region, southwestern Saudi Arabia. *J. Jazan Univ. (Appl. Sci. Branch)* 1(1): 68-76. [Omitted previously.]

[303] **Masrahi, Y. S., Al-Yemeni, M. N. & Sayed, O. H. (2012)** Nurse association of the stem succulent *Caralluma acutangula* in its natural habitat. *Ekologia (Bratislava)* 31(1): 46-53. [URL](#)

[304] **Mathieu, G., Symmank, L., Callejas, R., Wanke, S., Neinhuis, C., Goetghebeur, P. & Samain, M.-S. (2011)** New geophytic *Peperomia* (*Piperaceae*) species from Mexico, Belize and Costa Rica. *Revista Mex. Biodivers.* 82: 357-382, key, ills, maps. [Omitted previously. Includes a key to the species of *Peperomia* sect. *Tildenia* from Mexico and C America.]

[305] **Matulová, R. (2012)** [Czech:] Touch-me-not! Succulent species of the genus *Impatiens* Linné. *Adenium* 2012: 20-25, ills.

[306] **Matulová, R. & Maule, J. (2012)** Sukulentý a další zajímavé rostliny celedi *Vitaceae*. *Kaktusy (Brno)* 48(Special 2): 1-36, ills.

[307] **Matuszewski, G. (2012)** [Russian:] How I found *Mammillaria roemerii* W. Krueger & W. Rischer. *Kakt. Klub* 15(1-2): 28-33, ills. [Dated 2011, received at ZSS April 2012.]

[308] **Matuszewski, G. (2012)** [Polish:] Mini-

ature plants from the Pacific coast. *Thelecephala*. The genus *Eriosyce*, part 3. *Swiat Kakt. (Warsaw, 1966+)* 45: 28-37, ills. [Dated 2011, publication estimated to be 2012. Included for the illustrations.]

[309] **McIntyre, P. J. (2012)** Polyploidy associated with altered and broader ecological niches in the *Claytonia perfoliata* (*Portulacaceae*) species complex. *Amer. J. Bot.* 99(4): 655-662, maps. [URL](#)

[310] **McKain, M. R., Wickett, N., Zhang, Y., Ayyampalayam, S., McCombie, W. R., Chase, M. W., Pires, J. C., dePamphilis, C. W. & Leebens-Mack, J. (2012)** Phylogenomic analysis of transcriptome data elucidates co-occurrence of a paleopolyploid event and the origin of bimodal karyotypes in *Agavoideae* (*Asparagaceae*). *Amer. J. Bot.* 99(2): 397-406, ills. [URL](#)

[311] **Meiado, M. V., Machado, M. C., Zappi, D. C., Taylor, N. P. & Filho, J. (2012)** Cacti of the São Francisco watershed: Ecological attributes, geographic distribution and endemism. In: Siqueira Filho, J. A. (ed.): *Flora of the caatingas of the São Francisco River. Natural history and conservation*; pp. 264-305, ills. Rio de Janeiro (BR): Andrea Jakobsson Estúdio Editorial. [Also published simultaneously in a Portuguese edition.]

[312] **Meier, E. (2012)** Eine ungewöhnliche *Schlumbergera*. *Kaktusblüte* 2012: 22-29, ills. [On a specimen with aberrant malformed flowers. Almost the same paper also published in *EPIG* 69: 5-13, ills., 2012.]

[313] **Méndez, E. (2012)** Poblaciones de *Echinopsis leucantha* (*Cactaceae*) en el centro oeste de Argentina. *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 8(3): 22-27, ills. [Dated 2011, received 18. Jan. 2012.]

[314] **Menezes, M. O. T., Taylor, N. P. & Castro, A. S. F. (2012)** New disjunct record of *Melocactus violaceus* in Ceará, north-eastern Brazil. *Bradleya* 30: 151-154, ills., map.

[315] **Meng, A., Zhang, Z., Li, J., Ronse de Craene, L. & Wang, H. (2012)** Floral development of *Stephania* (*Menispermaceae*): Impact of organ reduction on symmetry. *Int. J. Pl. Sci.* 173(8): 861-874, ills. [URL](#)

[316] **Metzing, D. (2012)** Nacktdistel und



Spinnenkaktus. Die Gattung *Gymnocalycium*. Adelsdorf (DE): Deutsche Kakteen-Gesellschaft. 143 pp., ills., maps.

[317] **Metzing, D. (2012)** Le genre *Gymnocalycium*. Terra Seca 2012(4): 6-13, ills.

[318] **Meyrán García, J. (2011)** Nota: *Stenocactus tetraxiphus*. Cact. Suc. Mex. 56(4): 112-114. [Omitted previously.]

[319] **Middleditch, H. (ed.) (2012)** Impressions of the coastal hills. Chileans 22(70): 1-11, ills., map. [Dated 2011, publ. Feb. 2012. On *Copiapoa ahremephiana*, *C. conglomerata*, *C. decorricans* and *C. atacamensis*.]

[320] **Middleditch, H. (ed.) (2012)** Finding *Pyrhocactus umadeave*. Chileans 22(70): 16-22, ills., map. [Dated 2011, publ. Feb. 2012.]

[321] **Mihalte, L., Sestras, R. E., Feszt, G. & Sestras, A. F. (2010)** Variability of seed traits in interspecific and intergeneric combinations between different genotypes of *Cactaceae*. Notul. Bot. Horti Agrobot. Cluj-Napoca Inst. Agron. "Dr. Petru Groza" 38(3): 246-252, ills. [Omitted previously.]

[322] **Misiewicz, T. M. & Zerega, N. C. (2012)** Phylogeny, biogeography and character evolution of *Dorstenia* (*Moraceae*). Edinburgh J. Bot. 69(3): 413-440, ills., map. [URL](#)

[323] **Momberger, P. (2012)** *Astrophytum asterias*. Fundorte, Habitatbeschreibungen und Kulturerfahrungen. *Astrophytum* 2: 14-26, ills.

[324] **Moraes, E. M., Perez, M. F., Téó, M. F., Zappi, D. C., Taylor, N. P. & Machado, M. C. (2012)** Cross-species amplification of microsatellites reveals incongruence in the molecular variation and taxonomic limits of the *Pilosocereus aurisetus* group (*Cactaceae*). *Genetica* 140 (7-9): 277-285. [URL](#)

[325] **Moreira, N. S., Nascimento, L. B. S., Leal-Costa, M. V. & Tavares, E. S. (2012)** Comparative anatomy of leaves of *Kalanchoe pinnata* and *Kalanchoe crenata* in sun and shade conditions, as a support for their identification. *Revista Brasil. Farmacogn.* 22(5): 929-936, ills. [URL](#)

[326] **Morree, J. J. de (2012)** Vetplanten in de Pyreneeën, met de nadruk of Andorra. *Succulenta* (Netherlands) 91(6): 258-264, ills.

[327] **Mottram, R. (2012)** The first *Aylostera*.

Cact. Explorer 5: 41-44, ills. [On the application of the name *Aylostera deminuta*.]

[328] **Mottram, R. (2012)** Reinstatement and typification of *Crassula obvallata* L. *Crassulaceae* 1: 3-9, ills.

[329] **Mottram, R. (2012)** A re-evaluation of *Crassula obvallata* L. *Crassulaceae* 1.1: 3-8, ills. [This paper supersedes the paper published I.c. No. 1, Dec. 2012.]

[330] **Müller-Doblies, U. (2012)** The enigma of *Albuca tenuifolia* Baker resolved. *Feddes Repert.* 121(7-8): 285-298, ills., map. [URL](#)

[331] **Muñoz-Schick, M., Morales, V. & Moreira-Muñoz, A. (2012)** La colección de tipos de plantas vasculares del Herbario Nacional de Chile (SGO). Análisis histórico, temporal y espacial. *Gayana, Bot.* 69(1): 123-135, ills., maps.

[332] **Munthali, C. R. Y., Chirwa, P. W. & Akinnifesi, F. K. (2012)** Phenotypic variation in fruit and seed morphology of *Adansonia digitata* L. (baobab) in five selected wild populations in Malawi. *Agroforest. Systems* 85: 279-290, ills., map. [URL](#)

[333] **Muro-Pérez, G., Sánchez Salas, J., Estrada Castellón, E. & García Aranda, M. A. (2012)** *Peniocereus greggii* variety *greggii* (*Cactaceae*) in Durango, Mexico. *S.W. Naturalist* 57(3): 337-338. [URL](#)

[334] **Muruaga, N. M. & Guantay, M. E. (2012)** Aspectos epidérmicos en especies de *Rebutia* (*Cactaceae* – *Cactoideae*) de la Argentina. *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 8 (3): 19-22, ills. [Dated 2011, received 18. Jan. 2012.]

[335] **Nájera Quezada, P. (2012)** Notes on Peotillo (*Pelecyphora aselliformis* Ehrenberg, 1843): A brief description of its potential distribution and intrinsic aspects about its conservation. *Xerophilia* 1(2): 19-25, map, ills.

[336] **Nakayama, H., Yamaguchi, T. & Tsukaya, H. (2012)** Acquisition and diversification of cladodes: Leaf-like organs in the genus *Asparagus*. *Pl. Cell* 24: 929-940, ills. [URL](#)

[337] **Neirinck, G. (2012)** *Pierrebraunia brauniorum* Esteves. *Cact. Explorer* 6: 17-18, ills. [Included for the illustrations.]

[338] **Neuhuber, G. J. A. (2012)** Verbreitung

und Diversität des / Distribution and variability of *Gymnocalycium carolinense*. *Gymnocalycium* 25(1): 1007-1012, ill. [Russian version in *Kakt. Tolko* 2012(4'): 33-36, iii, ill., 2012.]

[339] **Neut, P. (2012)** *Parodia chlorocarpa* Ritter 1980. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 25(1): 12-13, ill.

[340] **Neut, P. (2012)** De wirwar omtrent het geslacht *Escobaria* in 't algemeen en *Escobaria 'gigantea'* in 't bijzonder. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 25(2): 21-23, ill.

[341] **Neut, P. (2012)** *Parodia pluricentralis* Backbg. & Brandt 1971. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 25(6): 90-92, ill.

[342] **Neut, P. (2012)** *Notocactus langsdorffii* var. *leprosorium* (Ritter 1973) A. Hofacker 1993. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 25(9): 135-138, ill.

[343] **Nevarez de los Reyes, M. (2012)** *Digitostigma caput-medusae*. A dieci anni dalla sua scoperta. *Piante Grasse* 32(2): 14-17, ill. [Simultaneously also published in an English edition.]

[344] **Newton, L. E. (2012)** The identity of *Sansevieria bagamoyensis*. *Bradleya* 30: 103-106, ill.

[345] **Newton, L. E. (2012)** Going, going, nearly gone – a highly endangered tree species in Kenya. *Euphorbia World* 8(3): 27-30, ill. [On *Euphorbia cussonioides*.]

[346] **Newton, L. E. (2012)** Comments on *Sansevieria powellii*. *Sansevieria* 26: 6.

[347] **Newton, L. E. (2012)** The genus *Aloe* in West Africa. *Nigerian Field* 77: 21-24, ill.

[348] **Nichols, W. F. (2012)** Three non-native plant species newly documented for New Hampshire. *Rhodora* 114(958): 209-213, ill. [Includes data on *Opuntia humifusa*.] [URL](#)

[349] **Niemeyer, W. (2012)** *Schlechterella africana* – eine Caudexrarität aus Ostafrika. *Caraluma* 14(1): 20-21, ill.

[350] **Nordenstam, B. (2012)** *Crassothonna* B. Nord., a new African genus of succulent *Compositae-Senecioneae*. *Compositae Newslett.* 50: 70-77.

[351] **Nordenstam, B. & Pelsner, P. B. (2012)** *Caputia*, a new genus to accommodate four suc-

culent South African *Senecioideae* (*Compositae*) species. *Compositae Newslett.* 50: 56-69, ill., key.

[352] **Nyhuus, T. (2012)** Presentation of species. *Hoya rotundiflora* Rodda & Simonsson. *Hoya mariae* (Schltr.) L. Wanntorp & Meve. *Hoya omlorii* (Livsh. & Meve) L. Wanntorp & Meve. *Hoya fraterna* Blume. *Hoya Telegraph* 1 (1): 4-21, ill.

[353] **Nyhuus, T. (2012)** [Presentation of species] *Hoya chlorantha* Rechinger var. *chlorantha*. *Hoya flagellata* Kerr. *Hoya ilagiorum* Kloppenb. & al. *Hoya Telegraph* 1(2): 4-17, ill.

[354] **Nyhuus, T. (2012)** [Presentation of species] *Hoya lockii* V. T. Pham & Aver. *Hoya mirabilis* Kidyoo. *Hoya juannguoana* Kloppenb. *Hoya Telegraph* 1(3): 5-19, ill.

[355] **Nyhuus, T. (2012)** [Presentation of species] *Hoya lithophytica* Kidyoo & Watthana. *Hoya ignorata* T. B. Tran et al. *Hoya kastbergii* Kloppenb. *Hoya Telegraph* 1(4): 5-18, ill.

[356] **Ocampo, G. & Columbus, J. T. (2012)** Molecular phylogenetics, historical biogeography, and chromosome number evolution of *Portulaca* (*Portulacaceae*). *Molec. Phylogen. Evol.* 63: 97-112, ill. [URL](#)

[357] **Ogburn, R. M. & Edwards, E. J. (2012)** Quantifying succulence: A rapid, physiologically meaningful metric of plant water storage. *Pl. Cell Environm.* 35(9): 1533-1542. [URL](#)

[358] **Ohr, M. & Ohr, A. (2012)** Two small jewels of the genus / Due piccoli gioielli del genere *Echinocereus* in Texas. *Cactus & Co.* 16 (1): 14-29, ill. [On *Echinocereus viridiflorus* var. [erroneously given as ssp.] *canus* and *E. rusanthus* ssp. *weedinii*.]

[359] **Ordones Rego, J., Villaron Franceschini, E. & Zappi, D. C. (2012)** Reproductive biology of a highly endemic species: *Cipocereus laniflorus* N. P. Taylor & Zappi (*Cactaceae*). *Acta Bot. Brasil.* 26(1): 243-250, ill.

[360] **Ortega-Baes, P., Bravo, S., Sajama, J., Sühring, S., Arrueta, J., Sotola, E., Alonso-Pedano, M., Godoy-Bürki, A. C., Frizza, N. R., Galíndez, G., Gorostiague, P., Barrionuevo, A. & Scopel, A. (2012)** Intensive field surveys in conservation planning: Priorities for cactus diversity in the Saltenian Calchaquíes

Valleys (Argentina). *J. Arid Environm.* 82: 91-97, maps. [URL](#)

[361] **Páez, V. de los A., Andrada, A. R., Elozzia, M. & Muruaga, N. B. (2012)** Número cromosómico y cariotipo de *Gymnocalycium saglionis* (Cactaceae). *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 9(2): 24-28, ills.

[362] **Palazzesi, L., Gottschling, M., Barreda, V. & Weigend, M. (2012)** First miocene fossils of *Vivianiaceae* shed new light on phylogeny, divergence times, and historical biogeography of Geraniales. *Biol. J. Linn. Soc.* 107: 67-85, ills., maps.

[363] **Palomino, G., Martínez, J., Cepeda-Cornejo, V. & Pimienta-Barrios, E. (2012)** Nuclear genome size and cytotype analysis in *Agave cupreata* Trel. & Berger (Agavaceae). *Caryologia* 65(4): 281-294, ills. [URL](#)

[364] **Papsch, W. (2012)** *Gymnocalycium bruchii*: History, ecology, and systematics. Part 1. *Schütziana* 3(2): 4-43, ills., maps. [Cont. I.c. 4(1), 2013.]

[365] **Pavlíček, K. & Simon, P. (2012)** [Czech:] *Echinocactus grusonii* and *Echinocactus grusonii*. *Kaktusy* (Brno) 48(2): 39-42, ills.

[366] **Petignat, A. (2012)** Baobabs de Madagascar. Les arbres à l'envers. Antananarivo (MG): Carambole Éditions Madagascar. vi + 98 pp., ills.

[367] **Pettigrew, J. D., Bell, K. L., Bhagwandin, A., Grinan, E., Jillani, N., Meyer, J., Wabuyele, E. & Vickers, C. F. (2012)** Morphology, ploidy and molecular phylogenetics reveal a new species from Africa in the baobab genus *Adansonia* (Malvaceae: Bombacoideae). *Taxon* 61(6): 1240-1250, ills. [Erratum I.c. 62(1): 189, 2013.]

[368] **Pfossier, M., Knirsch, W., Pinter, M., Ali, S. S., Dutta, S. & Wetschnig, W. (2012)** Phylogenetic relationships of Malagasy *Hyacinthaceae*. *Pl. Ecol. Evol.* 145(1): 65-72, ills. [Includes data on *Drimia cryptopoda*.] [URL](#)

[369] **Phillips, C. (2012)** Guiengola. Softly in the footsteps of Thomas MacDougall. *Cact. Succ. J. (Los Angeles)* 84(4): 195-204, ills. [On *Agave guiengola* history etc.]

[370] **Piedade Kiill, L. H., Batista Santos, A. P., Vasconcelos Dias Martins, C. T. de,**

**Barbosa Guimarães da Silva, N. & Almeida da Silva, T. (2012)** Ecologia da polinização da cactácea *Arrojadoa rhodantha* em caatinga hiperxerófila. *Sitientibus, Sér. Ci. Biol.* 12(2): 23 pp.

[371] **Pilbeam, J. (2012)** Why *Echeveria penduliflora*? *Cact. Explorer* 3: 47-49, ills. [Included for the illustrations.]

[372] **Pilbeam, J. (2012)** *Echeveria nebulorum* at a heady height. *Cact. Explorer* 4: 66-69, ills.

[373] **Pilbeam, J. (2012)** To the bridge of God and beyond. *Cact. Succ. J. (Los Angeles)* 84(6): 294-297, ills. [Included for the data on *Echeveria halbingeri*.]

[374] **Pinter, M. (2012)** Taxonomie und Phylogenie ausgewählter Vertreter der Gattung *Dipcadi* (Asparagaceae, Scilloideae, Ornithogaleae). Saarbrücken (DE): Akademikerverlag. [x] + 121 pp., ills.

[375] **Pirajá, M. (2012)** After the fire. Paying a visit to a locality of *Stephanocereus luetzelburgii*. Po pozarze. Z wizyta na stanowisku *Stephanocereus luetzelburgii*. *Kakt. Inne* 8(1): 20-25, ills. [Included for the illustrations.]

[376] **Popov, G. (2012)** [Russian:] A fresh look on *Tephrocactus weberi*. *Kakt. Klub* 15(1-2): 5-14, ills., maps. [Dated 2011, received at ZSS April 2012.]

[377] **Price, T. M. & Ferguson, D. J. (2012)** A new combination in *PheMERanthus* (Montiaceae) and notes on the circumscription of *PheMERanthus* and *Talinum* (Talinaceae) from the southwestern United States and northern Mexico. *Novon* 22(1): 67-69. [URL](#)

[378] **Probatova, N. S., Kazanovsky, S. G., Rudyka, E. G., Seledets, V. P. & Nechaev, V. A. (2012)** In: Marhold, K. (ed.): IAPT / IOPB chromosome data 13. *Taxon* 61(4): 899-902. [Includes 3 counts for *Aizopsis* (Crassulaceae) and 1 count for *Portulaca*.]

[379] **Procházká, J. (2012)** An interesting discovery of *Gymnocalycium* *catamarcense* from Palo Blanco and discussion around it. *Schütziana* 3(1): 13-20, ills.

[380] **Proctor, G. R. (2012)** Flora of the Cayman Islands. Richmond (GB): Kew Publishing. Ed. 2, 788 pp., ills., keys. [First edition publ. 1984.]

- [381] **Pützschel, R. (2012)** *Pygmaeocereus densiaculeatus* blüht doch. *Kakt. and. Sukk.* 63 (2): 40-41, ills. [Included for the illustrations.]
- [382] **Raczko, D. (2012)** [Polish:] *Eriosyce laui*: Searching for ... and found! *Swiat Kakt.* (Warsaw, 1966+) 45(1): 4-10, ills. [Dated 2011, publication estimated to be 2012.]
- [383] **Raes, P. (2012)** Two rare and unusual *Crassulaceae* from the Antalya area of the Turquoise coast of Turkey. *Newslett. Sedum Soc.* 101: 76-78, ills. [On *Rosularia pallidiflora* and *Sedum hispanicum*.]
- [384] **Rahayu, S. (2012)** *Hoya* (*Apocynaceae*: *Asclepiadoideae*) diversity in Gunung Gede Pangrango National Park, West Java, Indonesia. *Reinwardtia* 13(4): 331-339. [Also published as *Proc. Soc. Indonesian Biodiv. Int. Conf.* 1: 77-81, 2012.]
- [385] **Rahayu, S. & Wanntorp, L. (2012)** Notes on the species diversity of *Hoya* (*Apocynaceae* – *Asclepiadoideae*) of Sumatra. *Asklepios* 113: 17-26, ills., key, map.
- [386] **Rajakullayiswamy, K., Sandhyarani, S., Karuppasamy, S. & Pullaiah, T. (2012)** The rediscovery of *Brachystelma volubile* (*Apocynaceae* – *Asclepiadoideae*). *Rheedea* 22(2): 107-110, ills.
- [387] **Ramachandra Naik, M. & Krishnamurthy, Y. L. (2012)** Xerophyte *Caralluma stalagmifera* var. *longipetala* (*Asclepiadaceae*): A new record to the flora of Karnataka, India. *J. Threat. Taxa* 4(6): 2656-2659, ills., map.
- [388] **Ramos-Ordoñez, M. F., Arizmendi, M. del C. & Márquez-Guzmán, J. (2012)** The fruit of *Bursera*: Structure, maturation and parthenocarpy. *AoB Pl.* 2012(pls027): 1-16, ills. [URL](#)
- [389] **Rasingam, L. (2012)** *Aizoaceae* (Magnoliopsida: Caryophyllales) – a new family record to the flora of Andaman Islands, India. *J. Threat. Taxa* 4(6): 2653-2655, ills.
- [390] **Rebmann, N. (2012)** Le genre *Ferocactus* Britton & Rose aux Etats-Unis. *Cact. Succ.* 4 (1): 24-30, ills., map.
- [391] **Rebmann, N. (2012)** *Kalanchoe rebmanii* Descoings. *Cact. Succ.* 4(2): 48-51, ills.
- [392] **Rentsch, J. D. & Leebens-Mack, J. (2012)** Homoploid hybrid origin of *Yucca glori-osa*: Intersectional hybrid speciation in *Yucca* (*Agavoideae*, *Asparagaceae*). *Ecol. & Evol.* 2 (9): 2213-2222, ills., map. [URL](#)
- [393] **Repka, R. (2012)** [Czech:] New and prominent discovery by Czech cactus lovers in Argentina – *Gymnocalycium esperanzae*. *Kaktusy (Brno)* 48(1): 12-16, ills.
- [394] **Repka, R. & Gebauer, R. (2012)** Micromorphological and anatomical spine features of selected *Escobaria* species (*Cactaceae*). *Bradleya* 30: 138-146, ills.
- [395] **Repka, R. & Mráček, J. (2012)** *Gymnocalycium esperanzae*: A nothospecies? *Haseltonia* 18: 105-115, ills. [URL](#)
- [396] **Ribbens, E. & Fieldseth, H. (2012)** *Opuntia fragilis* in Minnesota. *Cact. Succ. J. (Los Angeles)* 84(5): 250-253, ills.
- [397] **Ribeiro-Silva, S. & Ferreira Lima, V. (2012)** La importancia de los campos rupestres para la persistencia de poblaciones de *Uebelmannia pectinifera* Buining (*Cactaceae*) en la Cadena del Espinhaço, Minas Gerais, Brasil. *Bol. Soc. Latinoamer. Caribe Cact. otras Suc.* 9 (2): 16-18, ills.
- [398] **Richter, I. (2012)** *Sedum* in den Bergen von Korsika. *Avonia* 30(3): 136-142, ills.
- [399] **Richter, I. (2012)** *Austrocaactus* – taxonomie en enkele opmerkingen. *Succulenta (Netherlands)* 91(4): 167-170, ills.
- [400] **Ritz, C. M., Reiker, J., Charles, G., Hoxey, P., Hunt, D., Lowry, M., Stuppy, W. & Taylor, N. (2012)** Molecular phylogeny and character evolution in terete-stemmed Andean *Opuntias* (*Cactaceae* – *Opuntioideae*). *Molec. Phylogen. Evol.* 65(2): 668-681. [URL](#)
- [401] **Roberts, E. (2012)** Variability in *Tephrocactus molinensis*. *Tephrocactus Study Group* 17(4): 58-59, ills. (pp. 52-53). [Dated 2011, received March 2012. Included for the illustrations.]
- [402] **Roberts, T. (2012)** *Gasteria rawlinsonii* in the Baviaanskloof. *Cact. Explorer* 3: 26-28, ills. [Included for the habitat illustrations.]
- [403] **Rodda, M. (2012)** Taxonomy of *Hoya lyi*, *Hoya yuennanensis* and *Hoya mekongensis* (*Apocynaceae* – *Asclepiadoideae*). *Edinburgh J. Bot.* 69(1): 83-93, ills., map. [URL](#)

- [404] **Rodda, M. (2012)** (2074) Proposal to conserve the name *Hoya mitrata* against *H. wallichiana* (Apocynaceae, Asclepiadoideae). Taxon 61(3): 685-686.
- [405] **Rodda, M. & Simonsson Juhonewe, N. (2012)** Taxonomic notes on the long-lost *Hoya burmanica* (Apocynaceae, Asclepiadoideae) from Myanmar. Kew Bull. 67(3): 565-570, ills, map. [URL](#)
- [406] **Roosbroeck, J. van (2012)** Het complex *Agave victoriae-reginae*. Succulenta (Netherlands) 91(4): 163-166, ills.
- [407] **Rowe, D. J. (2012)** Some arboreal ant-house plants of Australasia and the southwest Pacific. Cact. Succ. J. (Los Angeles) 84(2): 60-68, ills.
- [408] **Rowe, D. J. (2012)** Some new ant-plant locations. New Zealand Cact. Succ. J. 65(1): 14-16, ills. (incl. back cover). [Mainly on *Hydnophytum kajewskii*.]
- [409] **Rowley, G. D. (2012)** Worthwhile hybrid succulents 13: *Cleretum* and the Livingstone Daisies. CactusWorld 30(3): 177-180, ills. [Cultivar group and individual cultivar names not further indexed in this issue.]
- [410] **Rowley, G. D. (2012)** Salm-Dyck's Mammillarias. Supplement. J. Mammillaria Soc. 52 (2): 41-43. [Main paper published l.c. 50(3): 79-96, 2010.]
- [411] **Rudzinski, H. (2012)** *Mammillaria compacticaulis* Reppenhagen – Gedanken zum Artikel von Th. Linzen in Mtbl. AfM 35(3): 144 ff. 2011. Mitteilungsbl. Arbeitskreises Mammillarienfr. 36(3): 142-145, ills.
- [412] **Ruinaard, H. P. (2012)** *Echinocereus yavapaiensis* M. A. Baker. Echinocereenfreund 25(1): 12-25, ills.
- [413] **Ruinaard, H. P. (2012)** *Echinocereus bonkeriae* ssp. *apachensis* (Blum & Rutow) A. D. Zimmerman. Echinocereenfreund 25(3): 108-128, ills., map.
- [414] **Sadasivaiah, B. & Rao, B. R. P. (2012)** Tribe: *Ceropegieae* (Apocynaceae, Asclepiadoideae) in Eastern Ghats of Andhra Pradesh, India. In: Maiti, G. & Mukherjee, S. K. (eds.): Systematics of Flowering Plants: International Seminar on "Multidisciplinary approaches in angiosperm systematics"; 86-94, key. Kalyani (IN): University of Kalyani. 86-94, keys.
- [415] **Samek, R. (2012)** Does *Mammillaria yucatanensis* still exist in Yucatán? Cact. Explorer 4: 46-49, ills.
- [416] **Samek, R. (2012)** Cacti of Jamaica. CactusWorld 30(3): 147-153, ills.
- [417] **Samek, R. & Hill, A. (ed.) (2012)** *Maihueniopsis darwinii* / *hickenii*. Tephrocactus Study Group 18(1): 11-13, ills. (pp. 8-10).
- [418] **Santecchia, S. & Rajal, M. V. (2012)** *Blossfeldia liliputana* in the neighbourhood of / nelle vicinanze del Rio Las Juntas, Guachipas, Salta. Cactus & Co. 16(1): 30-47, 50-51, ills. [Included for the illustrations.]
- [419] **Sapic, I., Segota, V. & Alegro, A. (2012)** Where does *Sedum cepaea* L. (Crassulaceae) – one of the rarest species of Croatian flora – really grow? Acta Bot. Croat. 71(1): 177-185, ills., map.
- [420] **Sarnes, E. & Sarnes, N. (2012)** Cactus de Patagonia. Eschweiler (DE): Published by the authors. 80 pp., ills.
- [421] **Sarwar, G. R. & Qaiser, M. (2012)** A numerical taxonomy of the genus *Rosularia* (DC.) Stapf from Pakistan and Kashmir. Pakistan J. Bot. 44(1): 349-354, maps, key.
- [422] **Sarwar, G. R. & Qaiser, M. (2012)** Distribution pattern, ecology and endemism of family *Crassulaceae* in Pakistan and Kashmir. Pakistan J. Bot. 44(6): 2055-2061, maps.
- [423] **Schaub, I. & Keim, R. (2012)** *Copiapoa megarhiza* subsp. *echinata* bei Perales (Chile). Kakt. and. Sukk. 63(7): 183-189, ills.
- [424] **Schick, R. (2012)** *Echinopsis sensu stricto* and *Trichocereus*: Differentiating the genera. Cact. Succ. J. (Los Angeles) 83(6): 248-255, ills. [Volume for 2011, publ. 9. Jan. 2012 (inside front cover).]
- [425] **Schlüssel, A. & Lambinon, J. (2012)** *Aizoaceae*. In: Jeanmonod, D. & Schlüssel, A. (eds.): Notes et contributions à la flore de Corse, XXIV. Candollea 67(2): 303. [On *Lampranthus brownii*.]
- [426] **Schlumberger, B. O. (2012)** A survey on pollination modes in cacti and a potential key innovation. In: Patiny, S. (ed.): Evolution of plant-pollinator relationships; pp. 301-321, ills.,

maps. Cambridge (GB): Cambridge University Press.

[427] **Schlumberger, B. O. (2012)** On the identity of *Parodia saint-pieana* Backeb. Cactaceae Syst. Init. 28: 27-28.

[428] **Schröder, C. (2012)** *Delosperma pilosulum* L. Bolus. Avonia-News 2012(6): 8-13, ills.

[429] **Schropp, K. (2012)** *Sempervivum* in Iran. Cactus & Co. 16(1): 52-73, ills., map.

[430] **Schweingruber, F. H., Börner, A. & Schulze, E.-D. (2011)** Atlas of stem anatomy in herbs, shrubs and trees. Volume 1. Berlin / Heidelberg (DE): Springer-Verlag. viii + 495 pp., ills. [Omitted previously. This volume includes *Aizoaceae*, *Amaranthaceae*, *Ancardiaceae*, *Apoynaceae*, *Brassicaceae*, *Capparaceae*, *Crassulaceae*, *Cucurbitaceae*, *Euphorbiaceae*, *Piperaceae*, *Portulacaceae* and *Vitaceae*.]

[431] **Schweingruber, F. H., Börner, A. & Schulze, E.-D. (2012)** Atlas of stem anatomy in herbs, shrubs and trees. Volume 2. Berlin / Heidelberg (DE): Springer-Verlag. viii + 415 pp., ills. [Dated 2013, published autumn 2012. This volume includes *Asteraceae* and *Convolvulaceae*.]

[432] **Seberg, O., Petersen, G., Davis, J. I., Pires, J. C., Stevenson, D. W., Chase, M. W., Fay, M. F., Devey, D. S., Jorgensen, T., Sytsma, K. J. & Pillon, Y. (2012)** Phylogeny of the Asparagales based on three plastid and two mitochondrial genes. *Amer. J. Bot.* 99(5): 875-889, ills. [URL](#)

[433] **Sebsebe Demissew & Nordal, I. (2010)** Aloes and lilies of Ethiopia and Eritrea. E-published, without publisher's details. Ed. 2; 358 pp., ills., keys, maps. [Omitted previously. Ed. 1 publ. 2003.]

[434] **Seda, V. & Petricková, J. (2012)** [Czech:] New miniature cactus from Bolivia – *Aylosteria azurduyensis* de Vries. *Kaktusy (Brno)* 48(4): 124-129, ills., map.

[435] **Simonsson Juhonewe, N. (2012)** Recovered after 100 years: *Hoya oreostemma*. *Hoya Telegraph* 1(3): 34-36, ills.

[436] **Slaba, R. (2012)** [Czech:] *Gymnocalycium kieslingii* Ferrari – A species from three provinces and three shapes. *Kaktusy (Brno)* 48(2): 52-56, ills.

[437] **Slaba, R. (2012)** [Czech:] *Lobivia lateritia* (Gürke) Br. et R. – one of the most spiny *Lobivias*. *Kaktusy (Brno)* 48(4): 111-116, ills. [Included for the illustrations depicting variability.]

[438] **Slaba, R. (2012)** [Czech:] Yellow-flowering *Sulcorebutias*. *Kaktusy (Brno)* 48 (Special 1): 1-36, ills. [Simultaneously also published in a German edition.]

[439] **Smith, G. F. & Figueiredo, E. (2012)** A second species of *Furcraea* Vent. (*Agavaceae*), *F. tuberosa* (Mill.) W. T. Aiton, naturalised in South Africa. *Bradleya* 30: 107-110, ills., key.

[440] **Smith, G. F. & Figueiredo, E. (2012)** A further species of *Agave* L., *A. salmiana* Otto ex Salm-Dyck (subsp. *salmiana*) var. *salmiana* (*Agavaceae*), naturalised in the Eastern Cape Province of South Africa. *Bradleya* 30: 179-186, ills.

[441] **Smith, G. F. & Figueiredo, E. (2012)** South Africa's ongoing *Opuntia* Mill. (*Cactaceae*) problem: The case of *Opuntia tomentosa* Salm-Dyck. *Bradleya* 30: 61-64, ills.

[442] **Smith, G. F., Figueiredo, E. & Crouch, N. R. (2012)** A first record of *Yucca aloifolia* L. (*Agavaceae* / *Asparagaceae*) naturalized in South Africa with notes on its uses and reproductive biology. *Haseltonia* 17: 87-93, ills., map. [URL](#)

[443] **Smith, G. F., Figueiredo, E., Klopper, R. R. & Crouch, N. R. (2012)** *Aloe maculata* All. (*Asphodelaceae*) in the Free State Province, South Africa, and resurrection of 'var. *ficksburgensis*'. *Bradleya* 30: 13-18, ills., map.

[444] **Smith, G. F., Figueiredo, E., Klopper, R. R. & Crouch, N. R. (2012)** Summer-flowering species of maculate *Aloe* L. (*Asphodelaceae: Alooideae*) in the *Aloe zebra*-complex from South Africa: Reinstatement of four names, and description of *A. braamvanwykii* Gideon F. Sm. & Figueiredo. *Bradleya* 30: 155-166, ills., map.

[445] **Smith, G. F., Klopper, R. R., Figueiredo, E. & Crouch, N. R. (2012)** Aspects of the taxonomy of *Aloe arborescens* Mill. (*Asphodelaceae: Alooideae*). *Bradleya* 30: 127-137, ills., map.

[446] **Snijman, D. A. (2012)** A revision of the *Brunsvigia radula*-group (*Amaryllidaceae: Amaryllidoideae*) of species in South Africa, in-



cluding the description of *Brunsvigia garipeensis*, a new species from Bushmanland in Northern Cape. S. African J. Bot. 79(1): 106-116, ills, maps, key. [URL](#)

[447] **Solichon, J.-M. (2012)** *Apteranthes joannis* (Apocynaceae subf. Asclepiadoideae). Cact. Succ. 4(1): 31-34, ills. [Included for the superb illustrations.]

[448] **Solti, A. & Calvente, A. (2012)** A hűsvéti- (*Hatiora*) és tagoltlevélkaktuszok (*Schlumbergera*) molekuláris filogenetikai alapon történt összevonása és következményei. Kaktusz Világ 36(1): 15-25, ills.

[449] **Staník, R. (2012)** [Czech]: *Thelocephala odieri* and other *Thelocephala* species just south of Caldera (Chile). Cactaceae etc. 22(4): 142-146, ills.

[450] **Starha, R. (2012)** [Czech:] Grass Aloes from South Tanzania. Adenium 2012: 16-19, ills. [Included for the illustrations.]

[451] **Starha, R. (2012)** [Czech:] Aloes from eastern Ethiopia. Cactaceae etc. 22(4): 148-151, ills.

[452] **Starr, G. (2012)** Agaves. Living sculptures for landscapes and containers. Portland (US) / London (GB): Timber Press. 342 pp., ills.

[453] **Stephenson, R. (2012)** *Apteranthes burckhardtii* (N. E. Br.) Plowes – an den Standorten beider Varietäten [sic!] / both subspecies in the wild. Avonia 30(4): 175-177, lili, ills.

[454] **Stephenson, R. (2012)** A troglodytic succulent: *Sedum fragrans*. Cact. Succ. J. (Los Angeles) 84(1): 26-29, ills. [Included for the illustrations.]

[455] **Stephenson, R. (2012)** *Sedum affin. multicaule* in cultivation. Newslett. Sedum Soc. 100: 42-43, ills.

[456] **Stephenson, R. (2012)** *Sedum x battandieri* Maire in cultivation. Newslett. Sedum Soc. 100: 55, ills.

[457] **Stephenson, R. (2012)** Jean Metzger's *Sedum aytacianum*. Newslett. Sedum Soc. 101: 78-80, ills.

[458] **Stephenson, R. (2012)** *Sedum lancerotense* – a species in decline? Newslett. Sedum Soc. 102: 95-99, ills.

[459] **Stephenson, R. (2012)** *Telmisssa* surprise

SSS1269. Newslett. Sedum Soc. 103: 20-21, ills. [On *Sedum microcarpum*. Included for the illustrations.]

[460] **Stephenson, R. (2012)** *Sedum oteroi* Moran. Newslett. Sedum Soc. 103: 21-23, ills.

[461] **Stephenson, R. (2012)** *Sedum versadense* var. *villadioides* Kimmach. Newslett. Sedum Soc. 103: 4-6, ills.

[462] **Stephenson, R. (2012)** *Sedum copalense* Kimmach. Newslett. Sedum Soc. 103: 9-12, ills.

[463] **Stuchlík, S. (2012)** [Czech:] Colour variability of flowers of *Thelocactus conothelos* (Regel et Klein) Backeb. et Knuth. Kaktusy (Brno) 48(1): 32-34, ills.

[464] **Stuchlík, S. (2012)** [Czech:] Diversity of *Notocactus uebelmannianus* Buining. Kaktusy (Brno) 48(1): 4-7, ills., map.

[465] **Stuchlík, S. (2012)** [Czech:] *Notocactus magnificus* (F. Ritter) Krainz ex N. P. Taylor grows near Toropi. Kaktusy (Brno) 48(2): 44-47, ills., map.

[466] **Stuchlík, S. (2012)** [Czech:] Notocacti from the series *Melchersianae* with red flowers. Minimus 43(1-2): 1-5, ills.

[467] **Stuchlík, S. (2012)** [Czech:] Wanderings through the range of the localities of *Notocactus uebelmannianus*. Minimus 43(3-4): 1-4, ills.

[468] **Swadek, R. K. (2012)** *Phemeranthus calcaricus* (Montiaceae) new to Texas. J. Bot. Res. Inst. Texas 6(1): 303-307.

[469] **Swanepoel, W. (2012)** *Euphorbia melanohydrata* subsp. *conica* (Euphorbiaceae), a new subspecies from Namibia, with notes on the identification of similar medusoid euphorbias. Phytotaxa 62: 33-38, ills., map.

[470] **Symes, C. T. (2012)** Seed dispersal and seed banks in *Aloe marlothii* (Asphodelaceae). S. African J. Bot. 78: 276-280, ills. [URL](#)

[471] **Taylor, N. P. (2012)** Cacti and their habitats. Cactaceae Syst. Init. 28: 5-15.

[472] **Tel-Zur, N., Dudai, M., Raveh, E. & Mizrahi, Y. (2012)** Selection of interspecific vine cacti hybrids (*Hylcoereus* spp.) for self-compatibility. Pl. Breeding 131: 681-685, ills. [URL](#)

[473] **Tel-Zur, N., Mouyal, J., Cisneros, A. &**

- Mizrahi, Y. (2012)** Intergeneric hybridization within the tribe *Hylocereeae*, subfamily *Cactoidae* (*Cactaceae*). *Israel J. Pl. Sci.* 60: 325-334, ill. [URL](#)
- [474] **Terry, M. K., Pepper, A. E., Strong, A. W., Tarin, D. M., Price, D. M. & Manhart, J. R. (2012)** Genetic structure of a population of the endangered star cactus (*Astrophytum asterias*) in southern Texas. *S.W. Naturalist* 57(2): 182-188. [URL](#)
- [475] **Thiede, J. (2012)** Geschichte, Einführung, Gartenkultur, Biologie und Taxonomie von *Agave bulliana* (Baker) Thiede & Eggli (*Agavaceae* / *Asparagaceae*) – einzige Art der früheren Gattung *Prochnyanthes* S. Watson. *Avonia* 30(1): 37-45, ill. [English version l.c. xvi-xix.]
- [476] **Thiede, J. (2012)** Nomenclatural status of unranked names published by Trelease (1911) in *Beaucarnea*, *Dasyliirion*, and *Nolina* (*Asparagaceae* – *Nolinoideae*). *Phytoneuron* 2012(77): 1-4.
- [477] **Thiede, J. & Niesler, I. M. (2012)** Taxonomy of the genus *Gibbaeum* (*Aizoaceae*) and clarification of the confusion around *Gibbaeum haagii*, with a new species *Gibbaeum hartmannianum*. *Haseltonia* 18: 34-44, ill., key. [URL](#)
- [478] **Thiombiano, A., Schmidt, M., Dressler, S., Ouédraogo, A., Hahn, K. & Zizka, G. (2012)** Catalogue des plantes vasculaires du Burkina Faso. *Boissiera* 65: [ix] + 391 pp.
- [479] **Thorwarth, H.-J. R. (2012)** Die sukku-lenten *Asclepiadaceae* des Tiras-Gebirges in Süd-Namibia – eine vorläufige Zusammenstellung. *Caralluma* 14(2): 49-60, ill., map.
- [480] **Thulin, M., Thiede, J. & Liede-Schumann, S. (2012)** Phylogeny and taxonomy of *Tribulocarpus* (*Aizoaceae*): A paraphyletic species and an adaptive shift from zoochorous trample burrs to anemochorous nuts. *Taxon* 61 (1): 55-66, ill., key.
- [481] **Till, H. & Amerhauser, H. (2012)** Die Gymnocalycien des Gran Chaco und der Savannen aus Argentinien, Bolivien und Paraguay. Teil XI. Die *Gymnocalycium delaetii* Linie der Series j *Schickendantziana*. / The Gymnocalyciums of the Gran Chaco and the savannas in Argentina, Bolivia and Paraguay. Part XI. The *Gymnocalycium delaetii* line of the series j *Schickendantziana*. *Gymnocalycium* 25(3): 1035-1046, ill.
- [482] **Till, H., Berger, F. & Till, W. (2012)** Die Sonderstellung des *Gymnocalycium saglionis* und seine morphologische Diversität und Arealdifferenzierung. The particular position of *Gymnocalycium saglionis* and its morphological diversity and geographic differentiation. *Gymnocalycium* 25(2): 1023-1034, ill., maps. [Partial Russian version in *Kakt. Tolko* 2012(4"): 8-17, ill., 2012.]
- [483] **Timonin, A. K. (2011)** [Russian:] Anomalous secondary thickening in Centrosperms: The specificity of plant morphofunctional evolution. Moscow (RU): KMK Science Press. 356 pp., ill. [Omitted previously.]
- [484] **Timonin, A. K. (ed.) (2012)** Caryophyllales: New insights into phylogeny, systematics and morphological evolution of the order; Proceedings of the symposium held on 24th - 27th September 2012 at Moscow M. V. Lomonosov State University. Moscow (RU): M. V. Lomonosov State University. 129 pp.
- [485] **Tränkle, U. (2012)** *Ceraria namaquensis* (*Didiereaceae*) in Natur und Kultur. *Kakt. and. Sukk.* 63(3): 63-67, ill. [Included for the illustrations.]
- [486] **Trias-Blasi, A., Parnell, J. A. N. & Hodkinson, T. R. (2012)** Multi-gene region phylogenetic analysis of the grape family (*Vitaceae*). *Syst. Bot.* 37(4): 941-950. [URL](#)
- [487] **Trvdík, M. (2012)** [Czech:] *Gymnocalycium catamarcense* H. Till a W. Till. *Gymnofil* 40(1): 14-19, figs. 1-9b, map (back cover).
- [488] **Uotila, P., Sennikov, A. N. & Danin, A. (2012)** The nomenclature of *Portulaca oleracea* and *P. sativa* (*Portulacaceae*). *Willdenowia* 42 (1): 25-28. [URL](#)
- [489] **Valencia-Díaz, S., Flores-Palacios, A. & Castillo-Campos, G. (2012)** Tamaño poblacional y características del hábitat de *Mammillaria ericantha*, una cactácea endémica del centro de Veracruz, México. *Bot. Sci.* 90(2): 195-202.
- [490] **Vanecek, J. & Seda, V. (2012)** [Czech:] The Genus *Rebutia* K. Schumann 1895 (subgenus *Pygmaeolobivia*, 3. section *Setirebutia* Buin. & Don. 1963). *Cactaceae etc.* 22(1): 4-13, ill.
- [491] **Vanecek, J. & Seda, V. (2012)** [Czech:]



- The genus *Rebutia* K. Schumann 1895 (subgenus *Pygmaeobolivia*, 4. section *Digitorebutia* Buin. & Don. 1963). *Cactaceae* etc. 22(3): 108-115, (4): 123-139, ills.
- [492] **Vasko, Z. (2012)** The discovery of *Escobaria abdita* Repka & Vasko. *Cact. Explorer* 4: 13-15, ills.
- [493] **Vázquez-Sánchez, M., Terrazas, T. & Arias, S. (2012)** El hábito y la forma de crecimiento en la tribu *Cacteae* (*Cactaceae*, *Cactoideae*). *Bot. Sci.* 90(2): 97-108.
- [494] **Veldhuisen, R. van (2012)** Following the trail of the spectacular *Euphorbia filiflora* Marloth. *Euphorbia World* 8(3): 20-26, ills.
- [495] **Veldhuisen, R. van (2012)** Some additional notes on *Euphorbia schoenlandii* Pax. *Euphorbia World* 8(3): 8-9, ills.
- [496] **Verheulpen, W. (2012)** Wie ist es denn noch mit ... *Parodia gibbulosoides*? *Mitteilungsbl. Inter-Parodia-Kette* 28: 5-13, ills., maps.
- [497] **Veselova, T. D., Dzhililova, K. K. & Timonin, A. C. (2012)** [Russian:] Structure of funicle and seed coat in *Talinum paniculatum* (Jacq.) Gaertn. and *Talinum triangulare* (Jacq.) Willd. (*Portulacaceae* s. ampl.). In: Timonin, A. C. (ed.): Leonid Vasilievich Kudrjashov. Ad memoriam; pp. 195-207. Moscow (RU): MAKSPress Publisher.
- [498] **Veselova, T. D., Dzhililova, K. K., Remizowa, M. V. & Timonin, A. C. (2012)** Embryology of *Talinum paniculatum* (Jacq.) Gaertn. and *T. triangulare* (Jacq.) Willd. (*Portulacaceae* s.l., Caryophyllales). *Wulfenia* 19: 107-129, ills.
- [499] **Vích, J. (2012)** Unerwarteter Fund am Rio Cavernosa, Parana. *Internoto* 33(1): 16-20, ills., map. [On *Notocactus linkii*. Translated from the Czech original in *Minimus* 42, 2011.]
- [500] **Vích, J. (2012)** [Czech:] *Notocactus carambeiensis* Buining et Brederoo 1973 and its relationship to *Notocactus villa-velhensis* (Bckbg. et Voll) Slaba 1984. *Kaktusy* (Brno) 48(3): 96-101, ills., map.
- [501] **Vladimirov, V., Dane, F. & Tan, K. (eds.) (2012)** New floristic records in the Balkans: 19. *Phytol. Balcan.* 18(2): 205-230, ills. [Includes new records for *Opuntia humifusa* and *Sedum urvillei*.]
- [502] **Vladimirov, V., Dane, F. & Tan, K. (eds.) (2012)** New floristic records in the Balkans: 20. *Phytol. Balcan.* 18(3): 333-373, ills. [Includes records for *Sedum album*, *S. eriocarpum* ssp. *epiroticum*, *S. ochroleucum*, *Umbilicus luteus* and *U. rupestris*.]
- [503] **Vladimirov, V., Dane, F., Matevski, V. & Tan, K. (eds.) (2012)** New floristic records in the Balkans: 18. *Phytol. Balcan.* 18(1): 69-92, ills, map. [Includes records for *Sedum caespitosum* and *Sempervivum erythraeum*.]
- [504] **Voigt, M. & Hoefler, D. (2012)** *Euphorbia bupleurifolia* × *Euphorbia susannae*. *Kakt. and Sukk.* 63(2): 38-39, ills.
- [505] **Vries, J. de (2012)** Clarification of the correct application of the names *Sulcorebutia caracarensis* (Cárdenas) Donald and *S. inflexiseta* (Cárdenas) Donald, and a re-evaluation of *S. pulchra* (Cárdenas) Donald. *CactusWorld* 30(1): 9-22, ills. [Substantially revised version of a paper first published in Dutch in *Succulenta* 89(2): 56-67, ills., 2010, and in German in *Echinopseen* 8(1): 1-17, ills., 2011.]
- [506] **Wagner, D. R. (2012)** First encounters with *Stomatium* – the winter-rainfall highlands. *Aloe* 49(2): 31-43, ills. [Included for the illustrations.]
- [507] **Wagner, G. F. (2012)** Eine gelb blühende Population von *Conophytum ectypum* 'limbatum' aff. aus der Umgebung des Rietkloof se berg, Northern Cape, RSA. *Avonia* 30(3): 132-135, ills.
- [508] **Wagner, G. F. (2012)** Das Problem der taxonomischen Trennung von *Conophytum bilobum* (Marloth) N. E. Br. und *Conophytum meyeri* N. E. Br., dargestellt an den weiss blühenden Populationen in Küstennähe und den normal gelb blühenden im Gebiet zwischen Port Nolloth, Kleinsee und den T'Nouroegas se berge, Northern Cape, RSA. *Avonia* 30(4): 195-202, ills.
- [509] **Walter, J., Dobes, C. & Vekslyarska, T. (2012)** Flow cytometric, chromosomal, and morphometric analyses of the *Portulaca oleracea* agg. In: Timonin, A. K. & al. (eds.): Caryophyllales: New insights into phylogeny, systematics and morphological evolution of the order; Proceedings of the symposium held on

24th - 27th September 2012; pp. 48-52, ills. Moscow (RU): M. V. Lomonosov State University.

[510] **Walters, M., Figueiredo, E., Crouch, N. R., Winter, P. J. D., Smith, G. F., Zimmermann, H. G. & Mashope, B. K. (2011)** Naturalised and invasive succulents of southern Africa. *Abc-Taxa* 11: x + 359 pp., ills., maps, keys. [Omitted previously.]

[511] **Wanderley, M. das G. L. & al. (2012)** Flora fanerogâmica do Estado de São Paulo. Vol. 7. São Paulo (BR): FAPESP. 379 pp., ills., keys. [This volume includes *Begoniaceae* and *Piperaceae*.]

[512] **Weissbeck, S. (2012)** Leopold Graebener's Hinterlassenschaft. *Yucca ×karlsruhensis* – Die älteste dokumentierte *Yucca*-Hybride der Welt. *Wüstengarten* 3: 61-73, ills.

[513] **Weng, M. L., Ruhlman, T. A., Gibby, M. & Jansen, R. K. (2012)** Phylogeny, rate variation, and genome size evolution of *Pelargonium* (*Geraniaceae*). *Molec. Phylogen. Evol.* 64: 654-670, ills. [URL](#)

[514] **Williamson, G. (2012)** The remarkable *Boophone disticha* (L.f.) Herb. (*Amaryllidaceae*); survivor from the northern tropical savanna woodlands to the South African semi-arid Karoo. *Cact. Succ. J. (Los Angeles)* 84 (2): 88-91, ills., map. [Includes a distribution map.]

[515] **Wittau, H.-J. (2012)** Naturhybride oder was ??? *Echinopseen* 9(2): 78-79, ills. [On a possible hybrid *Lobivia hertrichiana* × *L. maximiliana* var. *sicuanensis*.]

[516] **Wittner, H. (2012)** *Matucana myriacantha* and *M. comacephala* are different species. *Cact. Explorer* 4: 50-57, ills.

[517] **Wittner, H. (2012)** In search of *Matucana madisoniorum*. *Int. Cact.-Advent.* 93: 7-11, ills., map. [Simultaneously published in French, English and Spanish versions.]

[518] **Wittner, H. (2012)** Die Landschaft prägend: *Espostoa utcubambensis*. *Kakt. and. Sukk.* 63(6): 149-153, ills.

[519] **Woolnough, I. (2012)** An unexpected discovery of a *Weingartia neumanniana* population in northern Argentina. *CactusWorld* 30(2): 91-93, ills.

[520] **Wutzler, K. (2012)** Ein Rätsel gelöst – aber noch weitere Fragen offen. Zu Lau 459 *Lobivia kuehnrichii* Potrero, Salta, auf 2300 m. *Echinopseen* 9(2): 61-65, ills.

[521] **Xhonneux, G. (2012)** An unexpected *Selenicereus*. *Int. Cact.-Advent.* 94: 25-30, ills., map. [Illustrating *Selenicereus inermis* from Colombia. Simultaneously published in French, English and Spanish editions.]

[522] **Yang, Y., Riina, R., Morawetz, J. J., Haevermans, T., Aubriot, X. & Berry, P. E. (2012)** Molecular phylogenetics and classification of *Euphorbia* subgenus *Chamaesyce* (*Euphorbiaceae*). *Taxon* 61(4): 764-789, ills.

[523] **Young, A. (2012)** "Conophytum central"? *Mesemb Study Group Bull.* 27(4): 96-97, maps.

[524] **Záhora, J., Matuszewski, G. & Mysák, V. (2012)** *Mammillaria scheinvariana* rediscovered? *Cact. Explorer* 5: 45-48, ills.

[525] **Zeddäm, A. & Raus, T. (2012)** *Crassulaceae*. In: Greuter, W. & Raus, T. (eds.): *Med-Checklist Notulae*, 31. *Willdenowia* 42(2): 290. [*Kalanchoe daigremontiana* reported as neophyte for Algeria.]

[526] **Zimer, E. (2012)** Is Horokaka (*Disphyma australe* ssp. *australe*) more than a regional form of *Disphyma crassifolium*? *Xerophilia* 1 (2): 51-70, ills.

[527] **Zito, P. & Sajeva, M. (2012)** *Caralluma europaea* on Lampedusa Island. *Asklepios* 112: 3-14, ills. [Volume for 2011, received at ZSS 19. Jan. 2012.]

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