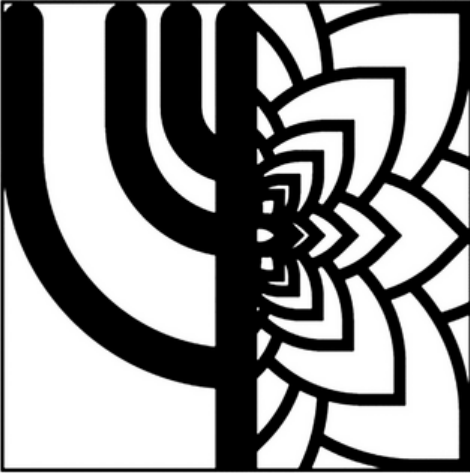


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International Organization
for Succulent Plant Study

Organización Internacional
para el Estudio de
Plantas Suculentas

Organisation Internationale
de Recherche sur les
Plantes Succulentes

Internationale Organisation
für Sukkulenten-Forschung

IOS

**Repertorium
Plantarum
Succulentarum
LXI (2010)**

A short history of *Repertorium Plantarum Succulentarum*

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

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

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

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

Now, after 60 issues conventionally printed, *Repertorium Plantarum Succulentarum* is being made available from this issue, no. 61, in digital form in pdf format (‘portable document format’), as an ‘open access’ publication, accessible over the internet.

Repertorium Plantarum Succulentarum LXI (2010)

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

International Organization for Succulent Plant Study

November 2011

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Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in **bold face** type (except for epithets of new cultivars), accompanied, in the case of newly described taxa, by an indication of the nomenclatural type (name or specimen dependent on rank), followed by the herbarium acronyms of the herbaria where the holotype and possible isotypes are said to be deposited (first acronym for holotype), according to the Index Herbariorum database. Invalid, illegitimate, or incorrect names are given in *italic* type face. In either case a full bibliographic reference is given. For new combinations, the basionym is listed. For invalid, illegitimate or incorrect names, the articles of the ICBN or ICNCP which have been contravened are indicated in brackets.
- The compilers would like to point out that they do not accept any names that might be inadvertently validated in this volume of RPS.
- Bibliographic details of papers dealing only with the names of one or few new taxa are usually not repeated in the bibliographic section.
- Starting with RPS 61, abbreviations for periodicals are those suggested in Bibliographia Periodicorum Huntianum Ed. 2 (BPH2), or are constructed according to BPH2 guidelines for other periodicals. For some titles where BPH2 has incomplete data, the abbreviations suggested in 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995')) are used.

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Compilers' Preface

The present issue of *Repertorium Plantarum Succulentarum* shows quite a number of innovations, and it is the first that is distributed primarily in digital format as a portable document in pdf format. RPS is produced as an 'open access' journal, and is freely available from the IOS website (www.iosweb.org) under a Creative Commons 3.0 licence (see copyright page).

Associated with switching to electronic publication is a small change in paper size, which is now reduced to the conventional A5 paper format. With this change, it is easy to produce a neat A5-sized booklet on paper for those who favour this method of accessing RPS.

Other changes concern some of the standards that have been in use for the past issues:

- Family classification: The family classification used for the Repertorium has long remained unchanged, but became increasingly outdated. Starting with this issue, we switch to the classification proposed by Nyffeler & Egli (An up-to-date familial and suprafamilial classification of succulent plants, *Bradleya* 28: 125-144, 2010), which largely follows APG III, but with some modifications.
- Literature references: Literature references are now following the standards as set out in BPH/2 (*Bibliographia Periodicorum Huntianum*, ed. 2).
- Bibliographic data: In contrast to past practice, and in line with the standards used by many journals, we now show all authors of a publication, instead of using "et al." for papers with more than two authors. On the other hand, the cross-reference index to author names is now omitted, since RPS is produced in searchable digital format.

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

For help with nomenclatural questions, we thank Katherine Challis and her colleagues at the IPNI team at Kew. Rainer Mailänder, Zürich, continued his great help by scanning many more "general" biological journals. Daniele Cicuzza has added most of the bibliographic data during an internship at ZSS.

Finally, a word of thanks is due to all those organizations and societies that help to make this digital version of RPS more widely accessible, esp. the Sociedad Latinoamericana y del Caribe de Cactáceas y otras Suculentas.

NOMINA NOVA

AGAVACEAE

Agave gomezpompae Cházaro & Jimeno-Sevilla, *Cact.-Avent. Int. No. 88*: 2-11, *ills.*, 2010. Typus: *Jimeno-Sevilla & al.* 247 (XAL, CHAP, CHAPA, ENCB, IBUG, IEB, MEXU).

Agave nussaviorum García-Mendoza, *Acta Bot. Mex.* 91: 78-80, *ills.*, 2010. Typus: *García-Mendoza & al.* 9204 (MEXU, ENCB, IEB, MO, OAX, US).

Agave nussaviorum ssp. **deltoidea** García-Mendoza, *Acta Bot. Mex.* 91: 83-85, *ills.*, 2010. Typus: *García-Mendoza & Martínez* 6051 (MEXU, OAX).

Hesperaloe malacophylla Hochstätter & Martínez-Ávalos, *Piante Grasse* 30(1): 20-22, *ills.*, 2010. Typus: *Martínez-Ávalos* 898 (UAT).

×**Mangave** D. Klein, *Kakt. and. Sukk.* 61(8): 211-212, *ills.*, 2010. [The statement of parentage as required by Art. H9.1 is cryptically hidden on p. 212.] [= *Manfreda* × *Agave*.]

×**Mangave** 'Bloodspot' hort. *ex* D. Klein, *Kakt. and. Sukk.* 61(8): 211-212, *ill.*, 2010. [= *Agave macroacantha* × *Manfreda maculosa*.]

×**Mangave** 'Macho Mocha' hort. *ex* D. Klein, *Kakt. and. Sukk.* 61(8): 212-214, *ills.*, 2010. [= *Agave celsii* × *Manfreda variegata*?]

AIZOACEAE

Antimima hexamera (L. Bolus) Klak, *South Afr. J. Bot.* 76: 307, 2010. Basionym: *Ruschia hexamera*.

Antimima radicans (L. Bolus) Klak, *South Afr. J. Bot.* 76: 307, 2010. Basionym: *Ruschia radicans*.

×**Carpophyma mutabile** Heenan & Sykes, *New Zealand J. Bot.* 48(3-4): 226-227, 2010. Typus: *Sykes* 374/98 (CHR). [= *Disphyma australe* × *Carpobrotus edulis*.]

×**Carpophyma pallidum** Sykes & Heenan, *New Zealand J. Bot.* 48(3-4): 227-229, 2010. Typus: *Moss* s.n. (CHR). [= *Carpobrotus chilensis* × *Disphyma australe*.]

Mesembryanthemum knolfonteinense Klak, *South Afr. J. Bot.* 76: 299-301, *ills.*, 2010. Typus: *Klak* 1770 (BOL).

×**Neomat** S. A. Hammer, *Mesemb Study Group Bull.* 25(3): 56, 2010. *Nom. inval.* (Art. H6.2). [= *Neohenricia* × *Stomatium*.]

×**Neomat** 'Lindsey' S. A. Hammeer, *Mesemb Study Group Bull.* 25(3): 56, 2010. Incorrect name (Art. 11.4). [= *Stomatium geofreyi* × *Neohenricia spiculata*.]

Octopoma tanquamum Klak, *South Afr. J. Bot.* 76: 302-303, *ills.*, 2010. Typus: *Bruyns* 10797 (BOL).

Phiambolia littlewoodii (L. Bolus) Klak, *South Afr. J. Bot.* 76: 306, 2010. Basionym: *Ruschia littlewoodii*.

Vlokia montana Klak, *South Afr. J. Bot.* 76: 303-305, *ills.*, 2010. Typus: *Bruyns* 10515 (BOL).

ANACAMPSEROTACEAE

Anacampseros coahuilensis (S. Watson) Eggl & Nyffeler, *Taxon* 59(1): 240, 2010. Basionym: *Talinum coahuilense*.

Anacampseros decapitata Burgoyne & J. van Thiel, *Novon* 20(4): 381-383, *ills.*, 2010. Typus: *Burgoyne & van Thiel* 2 (PRE, BOL, K, MO).

Anacampserotaceae Eggl & Nyffeler, *Taxon* 59(1): 232, 2010. Typus: *Anacampseros* Linné.

APOCYNACEAE

Caralluma faucicola Bruyns, *South Afr. J. Bot.* 76(2): 249-251, *ill.*, 2010. Typus: *Bruyns* 10263 (E, BOL, M).

Desmidorchis impostor Jonkers, *Bradleya* 28: 76, *figs.* 1G-J, 10-15 (pp. 68, 73), 2010. Typus: *Jonkers* 76 (ON).

Hoya 'Hagar' Al-Witri, *Asklepios* 108: 26-27, *ills.*, 2010. [= *H. obovata* × *H. sp.*, obtained in cultivation.]

Hoya apoensis var. *sagittarius* Kloppenburg & al., *Fraterna* 23(4): 5-8, ills., 2010. Based on *Ferreras* 737. *Nom. inval.* (Art. 43.1). [Varietal epithet to be treated as noun in apposition.]

Hoya carmelae Kloppenburg & al., *Fraterna* 23(4): 9-13, ills., 2010. Typus: *Ferreras* 782 (PUH 14598).

Hoya corazoniae Kloppenburg & al., *Fraterna* 23(4): 15-19, ills., 2010. Typus: *Ferreras* 800 (PUH 14601).

Hoya ferrerasii Kloppenburg & Siar, *Fraterna* 23(4): 21-23, ills., 2010. Typus: *Ferreras* 741 (CAHUP 71723).

Hoya kanlaonensis Kloppenburg & al., *Fraterna* 23(4): 24-27, ills., 2010. Typus: *Ferreras* 771 (PUH 14600).

Hoya minutiflora Rodda & Simonsson, *Webbia* 65(2): 174-175, ills., 2010. Typus: *Ridsdale* s.n. (L) [Ex cult. BG Leiden].

Hoya paulshirleyi T. Green & Kloppenburg, *Fraterna* 23(1): [5-8], ills., 2010. Typus: *Shirley* 8844 (UC) [Ex cult. T. Green, Green Plant Research]. [First published invalidly (Art. 36.1, 37.1) in *L.c.* 22(4): 5-8, 2009 (cf. RPS 60). The valid publication in 2010 is in the form of replacement pages for issue 22(4); see 23(1): 4, 2010, for an explanation.]

Hoya plicata ssp. *rundumensis* T. Green, *Asklepios* 108: 19-20, ills., 2010. Typus: *Green* 93039 (BISH) [Ex cult. Hort. T. Green].

Hoya recurvula ssp. *bokorensis* Kloppenburg & Yap, *Asklepios* 108: 5-6, ills., 2010. Typus: *Yap* s.n. (SING).

Hoya surigaensis Kloppenburg & al., *Asklepios* No. 107: 23-26, ills., 2010. Typus: *Gilding* 897 (CAHUP 71719) [Ex cult. T. Nyhuus.].

Hoya ubudensis Kloppenburg & Yap, *Asklepios* 108: 7-8, ills., 2010. Typus: *Yap* 080126 (SING).

Huernia humpatana Bruyns, *South Afr. J. Bot.* 76(3): 585-587, ills., 2010. Typus: *Bruyns* 10418a (BOL, E).

33.4), based on *Aloe berevoana*. [Suggested change in status on a provisional base.]

Aloe candicans (H. Perrier) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 27, 2010. *Nom. inval.* (Art. 34.1b, 33.4), based on *Aloe deltoideodonta* var. *candicans*. [Suggested change in status on a provisional base. *Non Aloe candicans* (Haworth) Roemer & Schultes 1829.]

Aloe candicans var. *fallax* (J.-B. Castillon) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 27, 2010. *Nom. inval.* (Art. 34.1b, 33.4), based on *Aloe deltoideodonta* var. *fallax*. [Suggested change in status on a provisional base.]

Aloe cipolinicola (H. Perrier) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 28, 2010. Basionym: *Aloe capitata* var. *cipolinicola*.

Aloe deltoideodonta var. *ruffingiana* (Rauh & Petignat) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 28, 2010. Basionym: *Aloe ruffingiana*.

Aloe divaricata ssp. *deinacantha* (T. A. McCoy & al.) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 27, 2010. *Nom. inval.* (Art. 34.1b, 33.4), based on *Aloe deinacantha*. [Suggested change in status on a provisional base.]

Aloe divaricata ssp. *tulearensis* (T. A. McCoy & Lavranos) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 27, 2010. *Nom. inval.* (Art. 34.1b, 33.4), based on *Aloe tulearensis*. [Suggested change in status on a provisional base.]

Aloe divaricata var. *deinacantha* (T. McCoy & al.) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 27, 2010. *Nom. inval.* (Art. 34.1b, 33.4), based on *Aloe deinacantha*. [Suggested change in status on a provisional base.]

Aloe fievetii var. *ambatofinandrahanensis* J.-B. Castillon, *Cact.-Avent. Int. No. 85*: 6-7, ills., 2010. Typus: *Castillon* 46 (TAN, P).

Aloe gneissicola (H. Perrier) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 28, 2010. Basionym: *Aloe capitata* var. *gneissicola*.

Aloe martialii J.-B. Castillon, *Cact.-Avent. Int. No. 85*: 3-4, ills., 2010. Typus: *Malcomber & al.* 1185 (MO).

Aloe neilcrouchii Klopffer & G. F. Smith, *Bothalia* 40(1): 94-95, ills., 2010. Typus: *Crouch & Johnson* 1247 (PRE, NH).

ASPHODELACEAE

Aloe acutissima var. *berevoana* (Lavranos) J.-B. Castillon & J.-P. Castillon, *Aloe Madagascar*, 27, 2010. *Nom. inval.* (Art. 34.1b,

- Aloe newtonii** J.-B. Castillon, Bradleya 27: 152, ill. (p. 151), 2009. Typus: *Reynolds* 7885 (TAN, K, PRE). [The name was incorrectly treated as illegitimate under Art. 52.1 in RPS 60 because of a confusing citation of synonymies.]
- Aloe nicholsii** G. F. Smith & N. Crouch, Bradleya 28: 103-106, ill., 2010. Typus: *Crouch* 1270 (PRE, NH).
- Aloe perdita** Ellert, Aloe 46(3): 51, 2010. Typus: *Ellert* 172 (ARIZ) [Ex cult. Bulawayo, Zimbabwe and Tucson, Arizona.]. [First published invalidly (Art. 8.2) in l.c. 45(4): 76-77, ill., 2009 ('2008') (cf. RPS 60).]
- Aloe rugosquamosa** (H. Perrier) J.-B. Castillon & J.-P. Castillon, Aloe Madagascar, 28, 2010. Basionym: *Aloe compressa* var. *rugosquamosa*.
- Aloe sebanica** Orlando & El Azzouni, CactusWorld 28(4): 208-210, ill., 2010. Typus: *Orlando & El Azzouni* 241504 (FT).
- Aloe versicolor** var. **steffanicana** (Rauh) J.-B. Castillon & J.-P. Castillon, Aloe Madagascar, 28, 2010. Basionym: *Aloe steffanicana*. [Sphalm. 'steffaniana'.]
- Bulbinella calcicola** J. C. Manning & Goldblatt, Bothalia 40(2): 197-199, ill., 2010. Typus: *Claassens & Claassens* 11 (NBG, K, MO).
- Chortolirion latifolium** Zonneveld & G. Fritz, Bradleya 28: 32-33, ill., 2010. Typus: *Fritz* 1025 (PRE).
- Haworthia** 'Ollason's Pride' P. I. Forster, Alsterworthia Int. 10(3): 2-3, ill., 2010. [A hybrid with *H. cooperi* as one parent. Based on *Haworthia ollasonii* G. R. Hayer 1971 (*nom. inval.*, Art. 36.1, 37.1).]
- Haworthia** Sect. **Attenuatae** (Pilbeam) Breuer, Gen. Haworthia Book 1, 4, 2010. Basionym: *Haworthia* Subsect. *Attenuatae*.
- Haworthia** Sect. **Turgidae** (Pilbeam) Breuer, Gen. Haworthia Book 1, 4, 2010. Basionym: *Haworthia* Subsect. *Turgidae*.
- Haworthia adelaidensis** (Poellnitz) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia reinwardtii* var. *adelaidensis*.
- Haworthia angustata** (Poellnitz) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia cymbiformis* var. *angustata*.
- Haworthia anna* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia araneoides* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia arcana** (G. F. Smith & N. Crouch) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia limifolia* var. *arcana*.
- Haworthia baviens* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia brevicula** (G. G. Smith) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia reinwardtii* var. *brevicula*.
- Haworthia calitzdorpensis** (Breuer) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia mucronata* var. *calitzdorpensis*. [Sphalm. 'calitzensis'.]
- Haworthia cocksia* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia compacta** (Triebner) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia cymbiformis* var. *compacta*.
- Haworthia coriacea** (Resende & Poellnitz) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia tessellata* var. *coriacea*.
- Haworthia corticosa* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia depauperata** (Poellnitz) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia triebneriana* var. *depauperata*.
- Haworthia diversicolor** (Triebner & Poellnitz) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia triebneriana* var. *diversicolor*.
- Haworthia flaccida** (M. B. Bayer) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia herbacea* var. *flaccida*.
- Haworthia glaucophylla** (M. B. Bayer) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia limifolia* var. *glaucophylla*.
- Haworthia ikra** Breuer, Gen. Haworthia Book 1, 7, 2010. Typus: [neo – icono]: H. Jacobsen, Handb. Sukk. Pfl. 2: 724, fig. 644, 1956. [Neotype designated by Breuer, World Haworthias 1: 201, 1998, for the replaced name.]. [*Nom. nov. pro Haworthia obtusa* f.

- truncata* H. Jacobsen 1955, although labelled as "stat. nov.".]
- Haworthia inspida** Breuer, Gen. Haworthia Book 1, 7, 2010. Typus: *Bayer* 1702 (NBG). [*Nom. nov. pro Haworthia zantmeriana* var. *minor* M. B. Bayer 1999, although labelled as "stat. nov.".]
- Haworthia janvlokii** (Breuer) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia picta* var. *janvlokii*.
- Haworthia johanii** (M. Hayashi) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia scabra* var. *johanii*.
- Haworthia lavrani** (C. L. Scott) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia sordida* var. *lavrani*.
- Haworthia namaquensis** (M. B. Bayer) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia arachnoidea* var. *namaquensis*.
- Haworthia obesa** (Poellnitz) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia cymbiformis* var. *obesa*.
- Haworthia olivacea** (G. G. Smith) Breuer, Gen. Haworthia Book 1, 7, 2010. Basionym: *Haworthia reinwardtii* var. *olivacea*.
- Haworthia pallidifolia** (G. G. Smith) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia turgida* var. *pallidifolia*. [Repeated by Breuer, Gen. Haworthia Book 1, 7, 2010.]
- Haworthia papillaris** Breuer, Gen. Haworthia Book 1, 7, 2010. Typus: *de Vries* 124 in *Breuer* 5379 (Res. Inst. Evol. Biol. Tokyo). [*Nom. nov. pro Haworthia truncata* var. *minor* Breuer 2003, although given as "stat. nov.".]
- Haworthia patriae* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia paucifolia** (G. G. Smith) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia angustifolia* var. *paucifolia*.
- Haworthia platinosa* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia rooivleiensis** (M. B. Bayer) Breuer, Gen. Haworthia Book 1, 7, 2010. Typus: *Bayer* s.n. in *Karoo Garden* 36/70 (NBG). [*Nom. nov. pro Haworthia heidelbergensis* var. *minor* M. B. Bayer 1999, although given as "stat. nov.".]
- Haworthia salina** (von Poellnitz) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia stayneri* var. *salina*.
- Haworthia scabrida** Breuer, Gen. Haworthia Book 1, 8, 2010. Typus: *Bayer* 1700 (NBG). [*Nom. nov. pro Haworthia heidelbergensis* var. *scabra* M. B. Bayer 1999, although given as "stat. nov.".]
- Haworthia scabrispina** (M. B. Bayer) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia arachnoidea* var. *scabrispina*.
- Haworthia setulifera** (Poellnitz) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia planifolia* var. *setulifera*.
- Haworthia similis* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia simofuri* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia standeri** (J. Esterhuizen) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia integra* var. *standeri*.
- Haworthia suberecta** (Poellnitz) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia turgida* var. *suberecta*.
- Haworthia sublineata** (Poellnitz) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia triebneriana* var. *sublineata*.
- Haworthia swanae* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Haworthia tenuis** (G. G. Smith) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia reinwardtii* var. *tenuis*.
- Haworthia toonensis** (M. B. Bayer) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia heidelbergensis* var. *toonensis*.
- Haworthia tricolor** (Breuer) M. Hayashi, Haworthia Study 22: 11, 2010. Basionym: *Haworthia picta* var. *tricolor*.
- Haworthia variabilis** (Breuer) Breuer, Gen. Haworthia Book 1, 8, 2010. Basionym: *Haworthia viscosa* var. *variabilis*.
- Haworthia viridula* M. Hayashi, Haworthia Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]

Haworthia yarrowa M. Hayashi, *Haworthia* Study 22: 10, ill., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]

ASTERACEAE

Caputia Pelser, *Amer. J. Bot.* 97(5): 867, 2010. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name ("ined.").]

Caputia medley-woodii (Hutchinson) Pelser, *Amer. J. Bot.* 97(5): 867, 2010. *Nom. inval.* (Art. 34.1b), based on *Senecio medley-woodii*. [Used as provisional name ("ined.").]

Caputia scaposa (De Candolle) Pelser, *Amer. J. Bot.* 97(5): 867, 2010. *Nom. inval.* (Art. 34.1b), based on *Senecio scaposus*. [Used as provisional name ("ined.").]

BALSAMINACEAE

Impatiens pingxiangensis H.-Y. Bi & S.-X. Yu, *Nordic J. Bot.* 28: 304-306, ill., 2010. Typus: *Yu* 3088 (PE, IBK).

CACTACEAE

×*Astrobergia* A. Piñal, *Revista Circ. Colec. Cact. Crasas Rep. Argent.* 9(1): 25, ill. (fig. 15), 2010. [= *Astrophytum* × *Leuchtenbergia*.]

Borzicactus hutchisonii G. Charles, *Bradleya* 28: 3, figs. 4-11 (pp. 4-6), 2010. Typus: *Calderón & al.* s.n. in *Charles* 608.02 (Herb. Jard. Bot. Univ. La Molina, Lima 03.73.2).

Borzicactus longiserpens (Leuenberger) G. Charles, *Bradleya* 28: 7, figs. 16-18 (p. 9), 2010. Basionym: *Cleistocactus longiserpens*.

Borzicactus longiserpens ssp. *erectus* G. Charles, *Bradleya* 28: 9-11, figs. 19-24, 2010. Typus: *Charles* 568.03 (K).

Cereus yungasensis A. Fuentes & Quispe, *Revista Soc. Boliv. Bot.* 4(2): 198-201, ill., 2009. Typus: *Fuentes & Quispe* 11275 (LPB, BOLV, LPB, MO, USZ). [Omitted

previously.]

Corynopuntia guccinii D. Donati, *Piante Grasse* 30(32): 118, ill. (pp. 115-119), 2010. Typus: *Hinton & al.* 29067 (Herb. G. B. Hinton, MEXU).

Digitorebutia pygmaea var. *knizei* (Rausch) L. Busch, *Echinopseen* 7(2): 76, ill., 2010. *Nom. inval.* (Art. 33.4, 43.1), based on *Lobivia pygmaea* var. *knizei*.

Echinocereus bonkeriae ssp. *apachensis* (Blum & Rutow) A. Zimmerman, *Haseltonia* 15: 120, 2009. Basionym: *Echinocereus apachensis*.

Echinocereus engelmannii fa. *munzii* (Parish) Ruinaard, *Succulenta* 89(3): 104-111, 2010. *Nom. inval.* (Art. 33.4), based on *Cereus munzii*.

Echinocereus viereckii ssp. *santamariensis* W. Blum & D. Felix, *Echinocereenfreund* 23(4): 65-66, ill. (pp. 69-74), 2010. Typus: *Taylor* 194 (K).

Echinopsis obrepanda var. *hystrichoides* (F. Ritter) Eb. Scholz, *Echinopseen* 7(1): 12, 2010. *Nom. inval.* (Art. 33.4), based on *Echinopsis hystrichoides*. [Ascribed to F. Ritter 1980.]

Epithelantha greggii ssp. *polycephala* (Backeberg) D. Donati & Zanovello, *Piante Grasse* 30(4): 185, ill. (p. 174), 2010. Basionym: *Epithelantha polycephala*.

Epithelantha greggii ssp. *potosina* D. Donati & Zanovello, *Piante Grasse* 30(4): 186, ill. (p. 175), 2010. Typus: *Hinton & al.* 29229 (Herb. G. B. Hinton, MEXU).

Epithelantha ilariae D. Donati & Zanovello, *Piante Grasse* 30(4): 186, ill. (p. 182), 2010. Typus: *Hinton & al.* 29075 (Herb. G. B. Hinton, MEXU).

Epithelantha pachyrhiza ssp. *elongata* (Backeberg) D. Donati & Zanovello, *Piante Grasse* 30(4): 185, ill. (p. 178), 2010. Basionym: *Epithelantha pachyrhiza* var. *elongata*.

Epithelantha pachyrhiza ssp. *parvula* D. Donati & Zanovello, *Piante Grasse* 30(4): 185, ill. (p. 177), 2010. Typus: *Hinton & al.* 29211 (Herb. G. B. Hinton, MEXU).

Epithelantha pachyrhiza ssp. *pulchra* D. Donati & Zanovello, *Piante Grasse* 30(4): 185, ill. (p. 179), 2010. Typus: *Hinton & al.* 29078 (Herb. G. B. Hinton, MEXU).

Epithelantha unguispina (Boedeker) D. Donati & Zanovello, *Piante Grasse* 30(4): 186, ill. (p. 180), 2010. Basionym: *Mammillaria*

- micromeris* var. *unguispina*.
- Epithelantha unguispina** ssp. **huastecana** D. Donati & Zanovello, *Piante Grasse* 30(4): 186, ills. (p. 181), 2010. Typus: *Hinton* & al. 29228 (Herb. G. B. Hinton, MEXU).
- Gymnocalycium achirasense** ssp. **echinatum** (Neuhuber) Gapon, 11'000 Kilometers around Argentina in *Search of Cacti*, 89, 2010. Basionym: *Gymnocalycium monvillei* var. *echinatum*.
- Gymnocalycium achirasense** ssp. **kainradliae** (Neuhuber) Gapon, 11'000 Kilometers around Argentina in *Search of Cacti*, 89, 2010. Basionym: *Gymnocalycium monvillei* var. *kainradliae*.
- Gymnocalycium achirasense** var. **chacrasense** (Neuhuber) Gapon, 11'000 Kilometers around Argentina in *Search of Cacti*, 89, 2010. Basionym: *Gymnocalycium monvillei* var. *chacrasense*.
- Gymnocalycium achirasense** var. **orientale** (Neuhuber) Gapon, 11'000 Kilometers around Argentina in *Search of Cacti*, 89, 2010. Basionym: *Gymnocalycium monvillei* var. *orientale*.
- Gymnocalycium achirasense** var. **villamercedense** (H. Till & Neuhuber) Gapon, 11'000 Kilometers around Argentina in *Search of Cacti*, 89, 2010. Basionym: *Gymnocalycium monvillei* fa. *villamercedense*.
- Gymnocalycium gertii** Gapon & Schelkunova, *Kakt. Klub* 2010(1-2): 46, ills. (pp. 47-49), 2010. Typus: *Gapon* 08-707 (CORD, WU).
- Gymnocalycium megatae** ssp. **zecheri** Amerhauser, *Gymnocalycium* 23(4): 965, ill., 2010. Typus: *Amerhauser* 01-1636-6 (PY).
- Gymnocalycium morroense** Kulhánek & al., *Gymnocalycium* 23(3): 948-949, ills., 2010. Typus: *Repka* 432 (CORD, WU). [First used as provisional name in *l.c.* 23(2): 915-916, 2010.]
- Gymnocalycium parvulum** ssp. **agnesiae** F. Berger, *Gymnocalycium* 23(3): 957, ills. (pp. 956-957), 2010. Typus: *Berger* 00-175/751 (CORD).
- Lobivia kuehnrichii** var. **antennifera** Rausch, *Echinopseen* 7(2): 49-50, ills., 2010. Typus: *Rausch* 238b (BA).
- Lymanbensonia brevispina** (Barthlott) Barthlott & N. Korotkova, *Willdenowia* 40: 166, 2010. Basionym: *Lepismium brevispinum*.
- Lymanbensonia incachacana** (Cárdenas) Barthlott & N. Korotkova, *Willdenowia* 40: 167, 2010. Basionym: *Rhipsalis incachacana*.
- Lymanbensonieae** N. Korotkova & Barthlott, *Willdenowia* 40: 166, 2010. Typus: *Lymanbensonia* Kimmach.
- Maihueiniopsis nigrispina** ssp. **atroglobosa** Backeberg ex Guiggi & P. Palacios, *Kakt. and. Sukk.* 61(12): 331-332, ills., 2010. Typus: *Ritter* 95 (ZSS 14226). [Based on *Tephrocactus atroglobosus* Backeberg 1962 (*nom. inval.*).]
- Mammillaria columbiana* ssp. *guatemalensis* (Eichlam) Linzen, *Mitteilungsbl. AfM* 34(4): 177-178, 2010. *Nom. inval.* (Art. 33.4), based on *Mammillaria celsiana* var. *guatemalensis*. [The name appears more-over to be illegitimate vs. *M. columbiana* ssp. *yucatanensis*, which is enumerated as synonym.]
- Mammillaria scrippsiana** ssp. **schumacheri** Linzen, *Kakt. and. Sukk.* 61(6): 159-160, ills. (pp. 155-161), 2010. Typus: *Schumacher* 1076 (JE). [English version: *J. Mammillaria Soc.* 50(4): 105-108, ills. (p. 112), 2010.]
- Matucana oreodoxa** ssp. **roseiflora** G. Charles, *Quepo* 24: 64-66, ills., 2010. Typus: *Charles* & al. 1084.04 (USM 230572).
- Matucana paucicostata** ssp. **hoxeyi** G. Charles, *Quepo* 24: 67-70, ills., 2010. Typus: *Charles* & al. 1088.03 (USM 230573).
- Melocactus caesius** ssp. **lobelii** (Suringar) Guiggi, *Cactology* No. 2: 5, 2010. Basionym: *Melocactus lobelii*.
- Melocactus macracanthos** ssp. **stramineus** (Suringar) Guiggi, *Cactology* No. 2: 35, 2010. Basionym: *Melocactus stramineus*.
- Melocactus mazelianus** fa. **guanensis** (Xhonneux & Fernández-Alsono) Guiggi, *Cactology* No. 2: 7, 2010. Basionym: *Melocactus guanensis*.
- Melocactus mazelianus** ssp. **andinus** (R. Gruber ex N. P. Taylor) Guiggi, *Cactology* No. 2: 7, 2010. Basionym: *Melocactus andinus*.
- Melocactus mazelianus** ssp. **schatzlii** (H. Till & R. Gruber) Guiggi, *Cactology* No. 2: 7, 2010. Basionym: *Melocactus schatzlii*.
- Monvillea krapovickiana** R. Kiesling, *Bonplandia (Corrientes)* 19(1): 60-61 ills., 2010. Typus: *Guaglianone* & *Múlgura* 2227 (SI).

- Notocactus albigenmatus* N. Gerloff, Internoto 31(4): 120, ills., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Provisional name used in caption to illustration only.]
- Notocactus spegazzinii* (Gürke) Vích, Kaktusy 47(3): 101, 2010. *Nom. illeg.*, based on *Echinocactus spegazzinii*, *nom. illeg.* (Art. 52.1).
- Notocactus spegazzinii* var. *alacriportanus* (F. Ritter) Vích, Kaktusy 47(3): 101, 2010. *Nom. inval.*, based on *Notocactus arechavaletae* var. *alacriportanus*, *nom. inval.* (Art. 37.1). [This name is moreover invalid under Art. 37.1 and incorrect under Art. 11.4.]
- Notocactus spegazzinii* var. *aureus* (F. Ritter) Vích, Kaktusy 47(3): 101, 2010. *Nom. inval.* (Art. 33.4), based on *Notocactus arechavaletae* var. *aureus*. [This name is moreover incorrect under Art. 11.4.]
- Notocactus theunissenianus* N. Gerloff, Minimus 41(3-4): 11-12, ills., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Used as provisional name.]
- Notocactus variabilis* N. Gerloff, Minimus 41(3-4): 9-11, ills., 2010. Based on Gerloff 1241. *Nom. inval.* (Art. 36.1, 37.1). [Used as provisional name, probably already in earlier publications.]
- Notocactus wolmannianus* N. Gerloff, Minimus 41(3-4): 9-11, ills., 2010. *Nom. inval.* (Art. 36.1, 37.1). [Used as provisional name, probably already in earlier publications.]
- Opuntia lindheimeri** ‘Linguiformis’ (Griffiths) Guiggi, Rivista Piemont. Storia Nat. 31: 47, 2010. Basionym: *Opuntia linguiformis*.
- Parodia lenninghausii** (K. Schumann) F. H. Brandt ex Eggli & Hofacker, Novon 20(1): 31, 2010. Basionym: *Echinocactus lenninghausii*. [First published invalidly (Art. 33.7(d) by F. H. Brandt, Kakt. Orch.-Rundschau 7(4): 61, 1982.)]
- Parodia neobuenekeri** (F. Ritter) Anceschi & Magli, Cactusinhabitat South America 2005/2010, 33, 2010. Basionym: *Notocactus neobuenekeri*.
- Peleciphora strobiliformis** ‘Fluffy White’ Cattabriga, Cactus & Co. 13(4): 64, ills. (pp. 58-62), 2010. Typus: BOLO 501728 [Ex cult.]. [Dated Dec. 2009, received at ZSS 18. 2. 2010.]
- Pilosocereus crassisepalus** (Buining & Brederoo) Anceschi & Magli, Cactusinhabitat South America 2005/2010, 33, 2010. Basionym: *Cereus crassisepalus*.
- Pilosocereus lanuginosus** ssp. **colombianus** (Rose) Guiggi, Cactology No. 2: 12, 2010. Basionym: *Cephalocereus colombianus*.
- Pilosocereus lanuginosus** ssp. **moritzianus** (Otto ex Pfeiffer) Guiggi, Cactology No. 2: 12, 2010. Basionym: *Cereus moritzianus*.
- Pilosocereus lanuginosus** ssp. **tillianus** (R. Gruber & Schatzl) Guiggi, Cactology No. 2: 13, 2010. Basionym: *Pilosocereus tillianus*.
- Praepilosocereus** Guiggi, Cactology No. 2: 18, 2010. Typus: *Pilocereus mortensenii* Croizat.
- Praepilosocereus mortensenii** (Croizat) Guiggi, Cactology No. 2: 19, 2010. Basionym: *Pilocereus mortensenii*.
- Rebutia minuscula** ssp. **wessneriana** (Bewerunge) Muruaga, Darwiniana 46(2): 326, 2008. Basionym: *Rebutia wessneriana*. [Omitted previously.]
- Selenicereus inermis** ssp. **tricae** (D. R. Hunt) Ralf Bauer, EPIG 66: 12, ills. (pp. 5-15), 2010. Basionym: *Selenicereus tricae*.
- Strombocactus corregidorae** S. Arias & E. Sánchez, Revista Mex. Biodivers. 81: 620, ills. (p. 622), 2010. Typus: Sánchez 338 (MEXU, IEB, QMEX).
- Subpilocereus fricii** (Backeberg) Guiggi, Cactology No. 2: 19, 2010. Basionym: *Cereus fricii*.
- Subpilocereus fricii** ssp. **horrispinus** (Backeberg) Guiggi, Cactology No. 2: 20, 2010. Basionym: *Cereus horrispinus*.
- Sulcorebutia insperata* R. Müller, Echinopseen 7(1): 26-27, ills., 2010. Based on Müller 812. *Nom. inval.* (Art. 36.1, 37.1). [Published as provisional name.]
- Sulcorebutia viridis** P. Lechner & Draxler, Kakt. and. Sukk. 61(3): 67-68, ills., 2010. Typus: Lechner 20.483 (LPB).
- Uebelmannia horrida** (P. J. Braun) Anceschi & Magli, Cactusinhabitat South America 2005/2010, 33-34, 2010. Basionym: *Uebelmannia pectinifera* var. *horrida*. [Name informally used in horticulture at least since the 1990ies, and first cited as synonym by Nyffeler, Bot. Jahrb. Syst. 120: 162, 1998.]
- Uebelmannia pectinifera** var. **eriacactoides** Repka & al., Cactus & Co. 14(1): 19, 23, ills. (pp. 4-27), 2010. Typus: Krajca & Toman RNK078 (HUEFS).

Weberbauerocereus madidiensis Quispe & A. Fuentes, *Novon* 20: 326-327, ills., 2010. Typus: *Fuentes & Quispe* 11285 (LPB, MO, USM).

Weingartia camargoensis (Gertel & Jucker) Amerhauser & K. Augustin, *Gymnocalycium* 23(2): 924, 2010. Basionym: *Sulcorebutia camargoensis*.

Wigginsia horstii var. *prestlei* (Gerloff) Vích, *Cactaceae etc.* 20(3): 106-110, 2010. *Nom. inval.* (Art. 33.4), based on *Notocactus neohorstii* var. *prestlei*. [Combination ascribed to Gerloff.]

CRASSULACEAE

Aeonium 'Rangitoto' E. Zimer, *New Zealand Cact. Succ. J.* 53(2): 37, ill., 2010. [Probably (*Aeonium haworthii* × *A. undulatum*) × *A. haworthii*, found in a neophyte stand in New Zealand.]

Echeveria 'Green Enigma' M. Bischofberger & Mottram, *CactusWorld* 28(1): 52, ills. (p. 50), 2010. [Parentage unknown, usually cultivated under the name *Echeveria* 'Pulchella'.]

Echeveria brachetii Reyes & González Zorzano, *Cact. Suc. Mex.* 54(3): 76-81, ills., 2009. Typus: *Reyes & Brachet* 5728 (MEXU). [Omitted previously.]

Echeveria carminea ssp. *ozolotepecensis* Reyes & Brachet, *Cact. Suc. Mex.* 54(3): 93-95, 2009. *Nom. inval.* (Art. 34.1b). [Used as provisional name. Omitted previously.]

Echeveria mondragoniana Reyes & Brachet, *Cact. Suc. Mex.* 54(3): 85-89, ills., 2009. Typus: *Reyes & Brachet* 6287 (MEXU). [Omitted previously.]

Echeveria perezcalixii Jimeno-Sevilla & Carrillo, *Brittonia* 62(4): 303-306, ills., 2010. Typus: *Jimeno-Sevilla & al.* 671 (IEB, IBUG, MEXU, NY, XAL).

Echeveria roseiflora Reyes & González Zorzano, *Cact. Suc. Mex.* 55(1): 20-25, ills., 2010. Typus: *Salazar & Soto* 7249 (MEXU).

Echeveria zorzaniana Reyes & Brachet, *Cact. Suc. Mex.* 54(3): 91-94, ills., 2009. Typus: *Reyes* 5118 (MEXU). [Omitted previously.]

Jovibarba pseudohirta (Leute) Landolt, *Fl. Indicativa*, 269, 2010. Basionym: *Diopogon arenarius* ssp. *pseudohirtus*.

Pachyphytum cuicatecanum (Reyes & al.) Kimmach, *Cact. Succ. J. (US)* 82(3): 125, ill., 2010. Basionym: *Echeveria cuicatecana*.

Rhodiola bouffordii H. Ohba, *Makinoa*, n.s. 7: 63-67, ills., 2008. Typus: *Boufford & al.* 26847 (HNWP, A, PE, TI). [Omitted previously.]

Rhodiola wenchuanensis Tao Li & Hao Zhang, *Novon* 20(1): 53-55, ills., 2010. Typus: *Li* 060707 (WCU).

Rosularia alpestris var. **vvedenskyi** (U. P. Prato) Lazkov, *Bot. Zhurn. (Moscow & Leningrad)* 95(6): 886, 2010. Basionym: *Rosularia vvedenskyi*.

Sedum 'Canny Hinny' R. Stephenson, *Newslett. Sedum Soc. No.* 94: 73-75, ills., 2010. [= *Sedum burrito* × *S. clavatum*.]

Sedum hypogaeum Reyes & al., *Cact. Suc. Mex.* 54(3): 69-74, ills., 2009. Typus: *Reyes* 5407 (MEXU). [Omitted previously.]

Sedum valens Björk, *Madroño* 57(2): 136-137, ills., 2010. Typus: *Björk* 8008 (ID, WS).

Sempervivum armenum ssp. **insigne** (Muirhead) F. Karaer, *Bangladesh J. Bot.* 39(1): 104, 2010. Basionym: *Sempervivum armenum* var. *insigne*.

Sempervivum globiferum ssp. **lagarinianum** (Gallo) R. Stephenson, *CactusWorld* 28(4): 233, ill., 2010. Basionym: *Jovibarba globifera* ssp. *lagariniana*.

Sempervivum tunaekimii Yildirimly & F. Karaer ex Yildirimli, *Ot Sist. Bot. Dergisi* 16(1): 12-13, 2010. Based on *Güner* 1062. *Nom. illeg.* (Art. 52.1). [Omitted previously. Illegitimate versus *Sempervivum ekimii* Karaer 2008, which is validly published, contrary to the assumptions of the authors. Even though the new taxon is based on a different type than *Sempervivum ekimii*, the name is superfluous under ICBN 7.5.)]

EUPHORBIACEAE

Euphorbia subgen. **Epiphyllodes** Binoj Kumar & M. S. Balakrishnan, *Gen. Euphorbia India Tax. Revis.*, 287, 2010. Typus: *Euphorbia epiphyllodes* Kurz.

Euphorbia ambovombensis var. *ambatomenahensis* Rebmann, Cact. Succ. 2(1): 30-31, ill., 2010. Based on *Rebmann* 11. *Nom. inval.* (Art. 36.1). [First published invalidly (Art. 37.7) in *Succulentas* 2003(3): 20, 2003. The attempted "validation" fails for lack of a direct reference to the previously published Latin diagnosis.]

Euphorbia fusiformis var. ***khandallensis*** (Blatter & Hallberg) Binojkumar & N. P. Balakrishnan, *Fam. Euphorbiac.* India, 280, 2007. Basionym: *Euphorbia khandallensis*. [Omitted previously.]

Euphorbia neochamaeclada Bruyns, *Bothalia* 40(2): 178, 2010. Typus: *Bruyns* 10402a (BOL, E, MO). [*Nom. nov. pro Euphorbia chamaeclada* Bruyns 2009 (*non Euphorbia chamaeclada* Ule 1908).]

GERANIACEAE

Pelargonium alternans ssp. ***longicalcar*** M. Becker & F. Albers, *Schumannia* 6: 213, ill. (pp. 209-211), 2010. Typus: *Albers & Becker* 4458 (MSUN 3904).

Pelargonium alternans ssp. ***parviinflorescens*** M. Becker & F. Albers, *Schumannia* 6: 213, ill. (pp. 209-211), 2010. Typus: *Albers & Becker* 4402 (MSUN 3890).

GESNERIACEAE

Sinningia bullata Chautems & M. Peixoto, *Candollea* 65(2): 242, figs. 1-2 (pp. 243-244), 2010. Typus: *Reis & al.* 5040 (HBR, G, HUMC, US).

Sinningia canastrensis Chautems, *Candollea* 65(2): 246, figs. 4-5 (pp. 247-248), 2010. Typus: *Romero & al.* 3258 (HUFU, G).

Sinningia gerdiana Chautems, *Candollea* 65(2): 248-249, figs. 6-7 (pp. 250-251), 2010. Typus: *Hatschbach* 33846 (MBM, Z).

Sinningia globulosa Chautems & M. Peixoto, *Candollea* 65(2): 252, figs. 8-9 (pp. 253-254), 2010. Typus: *Souza* s.n. in *Peixoto* 25 (HUMC).

Sinningia helioana Chautems & Rossini, *Candollea* 65(2): 255, figs. 10-11 (pp. 256-257), 2010. Typus: *Boudet Fernandes & al.* 3237 (MBML).

Sinningia muscicola Chautems & al., *Candollea* 65(2): 258, figs. 12-13 (pp. 259-260), 2010. Typus: *Braga & Bovini* 5095 (RUSU).

HYACINTHACEAE

Coilonox scabrocostatum (U. & D. Müller-Doblies) Speta, *Stapfia* 75: 175, 2001. Basionym: *Ornithogalum scabrocostatum*. [Omitted previously.]

Coilonox unifoliatum (G. D. Rowley) Speta, *Stapfia* 75: 176, 2001. Basionym: *Albuca unifoliata*. [Omitted previously.]

Coilonox zebrinum (Baker) Speta, *Stapfia* 75: 176, 2001. Basionym: *Albuca zebrina*. [Omitted previously.]

Ornithogalum lebaense van Jaarsveld, *Herbertia*, [ser. 3], 64: 92-93, ill. (pp. 95-96, 100-103), 2010. Typus: *van Jaarsveld* 22611 (LUB, NBG, WIND).

MONTIACEAE

Calyptridium arizonicum (J. T. Howell) M. G. Simpson & al., *Madroño* 57(3): 158, 2010. Basionym: *Calyptridium parryi* var. *arizonicum*.

Claytonia parviflora var. ***utahensis*** (Rydberg) N. H. Holmgren, *Brittonia* 62(3): 265, 2010. Basionym: *Limnia utahensis*.

Lewisia kelloggii ssp. ***yosemitana*** (Jepson) D. W. Taylor, *Fl. Yosemite Sierra*, 373, 2010. Basionym: *Lewisia yosemitana*.

Lewisia pygmaea var. ***sierrae*** (Ferris) D. W. Taylor, *Fl. Yosemite Sierra*, 373, 2010. Basionym: *Lewisia sierrae*.

Phemeranthus punae (R. E. Fries) Egli & Nyffeler, *Taxon* 59(1): 240, 2010. Basionym: *Calandrinia punae*.

OXALIDACEAE

- Oxalis flava** var. **fabaefolia** (Jacquin) Dreyer & Oberlander, *Blumea* 55: 256, 2010. Basionym: *Oxalis fabaefolia*.
- Oxalis flava** var. **unifoliolata** Dreyer & Oberlander, *Blumea* 55: 258, ill. (p. 257), 2010. Typus: *Dreyer* 829 (STEU, BOL, NBG).

PIPERACEAE

- Peperomia glauca** (Pino) Pino, *Avonia* 28(2): 48, figs. 26-30 (pp. 49, 51), 2010. Basionym: *Peperomia galioides* var. *glauca*.
- Peperomia inaequalifolia** var. **galioides** (Kunth) Pino, *Avonia* 28(2): 45, figs. 16-25 (pp. 46, 49), 2010. Basionym: *Peperomia galioides*.
- Peperomia nivalis** var. **lepadiphylla** (Trelease) Pino, *Avonia* 28(2): 52, figs. 35-40 (pp. 51, 53), 2010. Basionym: *Peperomia lepadiphylla*. [Incorrectly given as "var. nov.".]

PORTULACACEAE

- Portulaca cypria** Danin, *Fl. Medit.* 18: 92, fig. 6 (p. 98), 2008. Typus: *Hadjikiryakou* 6976 (PAL, B, HUI, Herb. Hadjikyriakou). [Omitted previously.]
- Portulaca papillatostellulata** (Danin & H. G. Baker) Danin, *Lagascalia* 26: 76, 2006. Basionym: *Portulaca oleracea* ssp. *papillatostellulata*. [Sphalm. 'papillato-stellulata'. Omitted previously.]
- Portulaca rausii** Danin, *Fl. Medit.* 18: 92, fig. 5 (p. 98), 2008. Typus: *Danin & Domina* s.n. (PAL). [Omitted previously.]
- Portulaca sicula** Danin & al., *Fl. Medit.* 18: 92, fig. 9 (p. 100), 2008. Typus: *Danin & Domina* s.n. (PAL). [Omitted previously.]
- Portulaca trituberculata** Danin & al., *Fl. Medit.* 18: 91, fig. 2 (p. 96), 2008. Typus: *Danin & Domina* s.n. (PAL, HUI). [Omitted previously.]
- Portulaca zaffranii* Danin, *Fl. Medit.* 18: 92, fig. 10 (p. 100), 2008. *Nom. inval.* (Art. 37.1). [Omitted previously.]

RUBIACEAE

- Phialiphora** Groeninckx, *Taxon* 59(6): 1821, 2010. Typus: *Phialiphora bevazahensis* Groeninckx.
- Phialiphora bevazahensis** Groeninckx, *Taxon* 59(6): 1822, ill. (pp. 1821-1822), 2010. Typus: *De Block & Rakotonasolo* 822 (BR, MO, P, TAN).
- Phialiphora capitulata** Groeninckx, *Taxon* 59(6): 1823-1824, ill., 2010. Typus: *Decary* 8084 (P).

RUSCACEAE

- Sansevieria ascendens** L. E. Newton, *Bradleya* 28: 19-21, ill., 2010. Typus: *Newton* 5842 (K, EA).
- Sansevieria bacularis** Pfennig ex A. Butler & Jankalski, *Sansevieria* No. 22: 3-4, ill. (pp. 3-7), 2010. Typus: *Bequaert* 5367 (BR). [First used as provisional name (*nom. inval.*, Art. 36.1, 37.1), by Pfennig in Morgenstern, *Sansevierias*, 28, fig. 11, 1979.]
- Sansevieria ballyi** 'Ann Robertson' L. E. Newton, *Sansevieria* No. 22: 12, ill. (p. 11), 2010. Based on *Newton & al.* 5981.
- Sansevieria powysii** L. E. Newton, *Bradleya* 28: 23-25, ill., 2010. Typus: *Powys* 1250 (K, EA).

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