

ISSN 0486-4271



International Organization
for Succulent Plant Study

Organización Internacional
para el Estudio de
Plantas Suculentas

Organisation International
de Recherche sur les
Plantes Succulentes

Internationale Organisation
für Sukkulenten-Forschung

IOS

**Repertorium
Plantarum
Succulentarum
LX (2009)**

Repertorium Plantarum Succulentarum LX (2009)

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

International Organization for Succulent Plant Study
Internationale Organisation für Sukkulente nfor schung

November 2010

ISSN 0486-4271

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 Index Herbariorum, ed. 8 and supplements as published in Taxon. 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.
- Abbreviations for periodicals are those suggested in 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995') for specialized periodicals, or those of Bibliographia Periodicorum Huntianum Ed. 2 (BPH2) for most other periodicals.

Konventionen im Zusammenhang mit dem Repertorium Plantarum Succulentarum

- Das Repertorium Plantarum Succulentarum ist eine jährlich herausgegebene Zusammenstellung neuer Namen für sukkulente Pflanzen und der relevanten systematischen Literatur. Neue Namen, die nach der Drucklegung der Ausgabe des betreffenden Jahres bekannt werden, erscheinen in der nächsten erreichbaren Ausgabe. Spezialisierte Zeitschriften werden umfassend durchgesehen, soweit sie in den Bibliotheken von Z und ZSS vorhanden sind oder den Herausgebern privat vorliegen. Die Herausgeber bitten alle Autoren dringend, Separata relevanter Publikationen zur Verfügung zu stellen, vor allem wenn es sich um Beiträge in schwer zugänglichen Serien handelt.
- Gültig veröffentlichte Namen werden in **Fettschrift** wiedergegeben (ausgenommen Cultivar-Namen), ergänzt durch den nomenklatorischen Typ für neue Taxa (Name oder Belegexemplar je nach Rangstufe; gefolgt von den Herbarabkürzungen [entsprechend Index Herbariorum, ed. 8, und in Taxon publizierten Supplementen] der publizierten Hinterlegungsorte für Holotyp [1. Abkürzung] und Isotypen). Für Umkombinationen wird das Basionym angegeben. Ungültige, illegitime oder falsch angewandte Namen erscheinen in *Kursivschrift* unter Angabe (in Klammer) derjenigen Artikel des ICBN oder ICNCP, die verletzt worden sind. In allen Fällen folgen die kompletten bibliographischen Angaben.
- Die Herausgeber weisen mit aller Deutlichkeit darauf hin, dass sie keinen Namen anerkennen, der zufälligerweise in dieser Ausgabe des RPS validiert worden sein könnte.
- Beiträge, welche nur die Namen eines oder weniger neuer Taxa veröffentlichen, werden in der Regel in der bibliographischen Liste nicht separat aufgeführt.
- Die Abkürzungen für spezialisierte Sukkulente-Zeitschriften richten sich nach 'Bibliography of Succulent Plant Periodicals' (U. Eggli in Friciana 60: 1-139, 1998 ('1995')), für allgemein botanische Zeitschriften in der Regel nach Bibliographia Periodicorum Huntianum Ed. 2 (BPH2).

Compiled by / Zusammengestellt von:

U. Eggli, Sukkulente-Sammlung Zürich, Mythenquai 88, CH-8002 Zürich, Switzerland.

R. Nyffeler, Institut für Systematische Botanik der Universität Zürich, Zollikerstrasse 107, CH-8008 Zürich, Switzerland.

Available from (incl. back issues) / Erhältlich durch (inkl. bereits erschienene Hefte):

IOS, c/o The Manse, Chapel Lane, Milborne Port, DT9 5DL, U.K.

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ISSN 0486-4271.

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Compilers' Preface

This issue of *Repertorium Plantarum Succulentarum* marks 60 years of continuity in the compilation of information on succulent plant diversity. The 60 issues now published cover the time from 1950 to 2009, and constitute the best available record of the results of 50 years of succulent plant research as far as the names of succulent plants are concerned.

Having assisted with the compilation of RPS for more than a decade, Daniela Zappi (Royal Botanic Gardens, Kew) has recently relinquished her role as Assistant Editor. We are very grateful to her for all her help since she joined the editorial team in 1996.

As in previous years, the compilation of the *Repertorium* would not have been possible without the help of numerous colleagues from around the world. First of all, a word of thanks goes to all the authors who supply the compilers directly with separate prints of their publications. Several colleagues have devoted their time to discussions of nomenclatural issues, and we are personally most grateful for this help. We specially thank Nigel Taylor for his helping hand. As in previous years, a special word of thanks goes to Katherine Challis of the IPNI Team at Kew. Rainer Mailänder, Zürich, has again scanned a good selection of more "general" biological journals, and we are grateful for his support of our work.

Future issues of RPS: As announced in the preface to RPS 59, the IOS Board is planning to publish and distribute future issues of RPS electronically. Until further notice, printed copies will continue to be available for regular subscribers and (at a charge towards printing and postage costs) for IOS members who do not have Internet access, or who prefer the printed publication.

Vorwort der Herausgeber

Diese Ausgabe des *Repertorium Plantarum Succulentarum* markiert 60 Jahre Kontinuität in der Zusammenstellung von Informationen über die Diversität der Sukkulenten. Die 60 bisher veröffentlichten Hefte decken den Zeitraum von 1950 bis 2009 ab und präsentieren sich als die beste erhältliche Auflistung der Resultate von 50 Jahren Sukkulentenforschung, zumindest soweit die Namen der sukkulenten Pflanzen betroffen sind.

Nach über über einem Jahrzehnt hat Daniela Zappi (Royal Botanic Gardens, Kew) leider das Herausgeberteam des RPS verlassen. Wir sind ihr für ihre seit 1996 im Redaktionsteam als Assistant Editor geleistete engagierte Arbeit sehr dankbar.

Wie in frühen Jahren wäre die Zusammenstellung des *Repertorium* ohne die Hilfe zahlreicher Kollegen aus der ganzen Welt nicht möglich gewesen. Ein Wort des Dankes geht zuerst an alle die Autorinnen und Autoren, welche uns als Herausgeber direkt mit Separatdrucken ihrer Arbeiten versorgt haben. Mehrere Kolleginnen und Kollegen haben sich Zeit für die Diskussion nomenklatorischer Fragen genommen, und wir sind persönlich für diese Hilfe sehr dankbar. Ein besonderer Dank gebührt in dieser Hinsicht Nigel Taylor. Ein spezielles Dankeswort geht in dieser Hinsicht an Katherine Challis vom IPNI-Team in Kew. Rainer Mailänder, Zürich, hat wieder eine gute Auswahl "allgemeiner" biologischer Zeitschriften durchgesehen, und wir sind für diese Unterstützung unserer Arbeit sehr dankbar.

Zukünftige Ausgaben: Wie bereits im Vorwort zu RPS 59 angekündigt, plant der Vorstand der IOS, zukünftige RPS-Ausgaben nur noch elektronisch zu veröffentlichen und zu verteilen. Bis auf weiteres werden gedruckte Hefte aber auch in Zukunft für die regelmäßigen Bezieher des RPS sowie (gegen Übernahme der Druck- und Versandkosten) für IOS-Mitglieder ohne Internet-Anschluss sowie für diejenigen, welche ein gedrucktes Heft bevorzugen, erhältlich sein.

Corrections to previous volumes

- In the case of the new *Sansevieria* names included in RPS 59, and published by Mbugua in 2007, it was stated that they were published invalidly in the earlier thesis of that author. Since British theses are not published, there can't be any intention to actually publish a taxonomic novelty – new names can merely be proposed, and this was the status of the names in question in the 1995-thesis of P. Mbugua. We are grateful to Len Newton for pointing this out to us.
- The names *Aeonium ×davidii*, *A. ×gordonii* and *A. ×tahodiense* were all incorrectly shown as validly published in RPS 58. They are invalid since the replaced synonyms were not validly published themselves (Art. 36.1, 45.1), and the intended new names are themselves invalid under Art. 37.4.

Korrekturen zu früheren Bänden

- Für die in RPS 59 aufgelisteten, von Mbugua 2007 publizierten *Sansevieria*-Namen wurde gesagt, dass diese in der bereits vorher erschienenen Dissertation des Autors ungültig veröffentlicht worden wären. Da britische Dissertationen nicht in gedruckter Form veröffentlicht werden, kann dem Autor nicht unterstellt werden, dass er tatsächlich die Publikation von taxonomischen Neuheiten beabsichtigte – neue Namen können lediglich "vorgeschlagen" werden, und das ist auch der Status der Namen in der Dissertation von 1995 von P. Mbugua. Wir sind Len Newton für diese Klarstellung zu Dank verpflichtet.
- Die Namen *Aeonium ×davidii*, *A. ×gordonii* und *A. ×tahodiense* wurden im RPS 58 alle fälschlicherweise als gültig veröffentlicht betrachtet. Sie sind aber ungültig weil die ersetzten Synonyme ihrerseits nicht gültig veröffentlicht wurden (Art. 36.1, 45.1), und die aufgezählten Namen sind deshalb unter Art. 37.4 ungültig.

NOMINA NOVA

AGAVACEAE

- Hesperaloe parviflora** ssp. **bechtoldii** Hochstätter, *Cact. World* 27(2): 103-105, ills., 2009. Typus: *Bechtold* 733 (HEID).
- Manfreda parva** Aaron Rodríguez, *Acta Bot. Mex.* 88: 2-5, ills., 2009. Typus: *Rodríguez & Pérez-Álvarez* 5518 (IBUG, ENCB, IEB, MEXU, WIS).

AIZOACEAE

- Conophytum antonii** S. A. Hammer, *Cact. Succ. J. (US)* 81(4): 194, ill. (p. 193), 2009. Typus: *Hammer & Arthurs* 2678 (NBG).
- Conophytum hyracis** S. A. Hammer, *Cact. Succ. J. (US)* 81(4): 194, ill. (p. 192), 2009. Typus: *Helme & al.* 2730 (NBG).
- Conophytum pium** S. A. Hammer, *Cact. Succ. J. (US)* 81(4): 194, ill. (p. 191), 2009. Typus: *Helme & Hammer* 2734 (NBG).

ALOACEAE

- Aloe acutissima** var. **itampoloana** J.-B. Castillon, *Cact.-Avent. Int. No.* 83: 30, ill. (p. 29), 2009. Typus: *Castillon* 43 (TAN).
- Aloe antandroi** ssp. **toliarana** J.-B. Castillon, *Cact.-Avent. Int. No.* 83: 31, ill. (p. 32), 2009. Typus: *Reynolds* 7857 (P).
- Aloe capitata** var. **angavoana** J.-P. Castillon, *Cact.-Avent. Int. No.* 81: 12-13, ills., 2009. Typus: *Castillon* 34 (TAN, HBG).
- Aloe darainensis** J.-P. Castillon, *Cact. World* 27(3): 177-178, ills., 2009. Typus: *Castillon* 44 (TAN).
- Aloe deltoideodonta** ssp. **amboahangyensis** Rebmann, *Cact.-Avent. Int. No.* 84: 28-29, ills., 2009. Typus: *Rebmann* 17 (BR).
- Aloe deltoideodonta** ssp. **brevifolia** (H. Perrier) Rebmann, *Cact.-Avent. Int. No.* 84: 24, 26, 2009. Basionym: *Aloe deltoideodonta* var. *brevifolia*.
- Aloe deltoideodonta** ssp. **candicans** (H. Perrier) Rebmann, *Cact.-Avent. Int. No.* 84: 24, 26, 2009. Basionym: *Aloe deltoideodonta* var. *candicans*.
- Aloe deltoideodonta** ssp. **esomonyensis** Rebmann, *Cact.-Avent. Int. No.* 84: 30-31, ills., 2009. Typus: *Rebmann* 16 (BR).
- Aloe deltoideodonta** ssp. **fallax** (J.-B. Castillon) Rebmann, *Cact.-Avent. Int. No.* 84: 24, 26, 2009. *Nom. inval.* (Art. 33.4, Note 1), based

on *Aloe deltoideodonta* var. *fallax*.

- Aloe fievetii** var. **altimatsiatrae** (J.-B. Castillon) J.-B. Castillon, *Cact.-Avent. Int. No.* 84: 32, 2009. Basionym: *Aloe altimatsiatrae*. [Combination first published invalidly (Art. 33.4) in *I.c. No.* 83: 29, 2009.]
- Aloe fontainei** Rebmann, *Cact.-Avent. Int. No.* 82: 2-5, ills., 2009. Typus: *Rebmann* 18 (BR).
- Aloe hahnii** G. F. Smith & Klopper, *Bothalia* 39(1): 98-99, ills., 2009. Typus: *Hahn* 2172 (PRE).
- Aloe johannis-philippeii** J.-B. Castillon, *Cact. World* 27(1): 52-55, ills., 2009. Typus: *Castillon* 42 (TAN).
- Aloe kannelii** van Jaarsveld, *Aloe* 46(2): 38-39, ills., 2009. Typus: *van Jaarsveld & al.* 22166 (NBG, PRE).
- Aloe massawana** ssp. **sakoankenke** (J.-B. Castillon) J.-B. Castillon, *Cact.-Avent. Int. No.* 84: 32, 2009. Basionym: *Aloe sakoankenke*. [Combination first published invalidly (Art. 33.4) in *I.c. No.* 83: 27, 2009.]
- Aloe newtonii** J.-B. Castillon, *Bradleya* 27: 152, ills. (p. 151), 2009. Based on *Reynolds* 7885. *Nom. illeg.* (Art. 52.1). [*Nom. illeg. superfl. versus A. subacutissima* G. D. Rowley, which is cited as synonym.]
- Aloe perdita** Ellert, *Aloe* 45(4): 76-77, ills., 2009. Based on *Ellert* 172. *Nom. inval.* (Art. 8.2). [Dated 2008, received at ZSS 3. 2. 2009.]
- Aloe rapanarivoi** J.-P. Castillon, *Cact.-Avent. Int. No.* 81: 16-19, ills., 2009. Typus: *Castillon* 39 (TAN).

ASCLEPIADACEAE

- Angolluma doddsiae** Plowes & T. A. McCoy, *Asklepios* No. 103: 14, ills. (pp. 9-15), 2009. Typus: *McCoy* 2632 (MO, P). [Dated Dec. 2008, received at ZSS 3. 3. 2009.]
- Angolluma taitica** (Bruyns) Plowes, *Asklepios* No. 103: 4, ill. (p. 3), 2009. Basionym: *Orbea taitica*. [Dated Dec. 2008, received at ZSS 3. 3. 2009.]
- Asclepias minor** (S. Moore) Goyder, *Kew Bull.* 64: 392, 2009. Basionym: *Odontostelma minus*.
- Asclepias mtorwiensis** Goyder, *Kew Bull.* 64(3): 391, 2009. Typus: *Brummitt & al.* 18142 (K).
- Brachystelma pruinatum** Bruyns, *Novon* 19(1): 18-19, ills., 2009. Typus: *Bruyns* 8021 (BOL, K, WIND).
- Brachystelma tenuissimum** Bruyns, *Novon* 19(1): 19-20, ills., 2009. Typus: *Bruyns* 9641 (BOL).
- Brachystelma theronii** Bruyns, *Novon* 19(1): 21-22, ills. (p. 20), 2009. Typus: *Bruyns & Theron* 4839 (BOL).

- Caralluma wilhelmii** Thulin, Kew Bull. 64(3): 477-478, ills., 2009. Typus: *Thulin & al.* 11219 (ETH, K, UPS).
- Ceropegia gypsophila** Thulin, Kew Bull. 64(3): 480-483, ills., 2009. Typus: *Thulin & al.* 11418 (ETH, K, UPS).
- Ceropegia kaariyei** Thulin, Kew Bull. 64(3): 479-480, ills. (pp. 481-482), 2009. Typus: *Thulin & al.* 11145 (ETH, K, UPS).
- Ceropegia thailandica** Meve, Bradleya 27: 161-163, ills., 2009. Typus: *Pooma & al.* 7347 (BKF, UBT).
- Eriostemma obtusifolioides** Gilding & T. Green, Fraterna 22(3): 5-6, ills., 2009. Typus: *Green* 97048TG (BISH 736375) [Ex cult. Hort. T. Green.]. [Sphalm. 'obtusifolioides'.]
- Hoya aurantiaca** Kloppenburg & al., Asia Life Sci. 18(1): 140-143, ills., 2009. Typus: *Siar & Cajano* 5962 (CAHUP 70395).
- Hoya baishaensis** S. Y. He & P. T. Li, Ann. Bot. Fenn. 46(2): 155-157, ills., 2009. Typus: *He & al.* 608011 (CANT).
- Hoya bawanglingensis** S. Y. He & P. T. Li, Novon 19(3): 357-359, ills., 2009. Typus: *He & Lin* 0708081 (CANT).
- Hoya fitchii** Kloppenburg, Fraterna 22(4): 16-20, ills., 2009. Typus: *Fitch* 8 (UC 20096) [Ex cult.].
- Hoya inflata** (P. I. Forster & al.) L. Wanntorp & P. I. Forster, Ann. Missouri Bot. Gard. 94(1): 45, 2007. Basionym: *Madangia inflata*. [Omitted previously.]
- Hoya krohniana* Kloppenburg & Siar, Fraterna 22(4): 9-12, ills., 2009. Typus: CAHUP 70365. *Nom. inval.* (Art. 37.1).
- Hoya landgrantensis** Kloppenburg & al., Asia Life Sci. 18(1): 147-150, ills., 2009. Typus: *Siar & Cajano* 5963 (CAHUP 70617).
- Hoya lucardenasiana** Kloppenburg & al., Asia Life Sci. 18(1): 144-147, ills., 2009. Typus: *Siar & Cajano* 5961 (CAHUP 70615).
- Hoya panayensis** Kloppenburg & Siar, Fraterna 22(4): 12-15, ills., 2009. Typus: *McGregor* s.n. (UC 32378, BO).
- Hoya paulshirleyi* T. Green & Kloppenburg, Fraterna 22(4): 5-8, ills., 2009. Based on *Shirley* 8844. *Nom. inval.* (Art. 36.1, 37.1).
- Hoya persimicoronaria** S. Y. He & P. T. Li, Novon 19(4): 475-478, ills., 2009. Typus: *He & Lin* 0708086 (CANT).
- Hoya savaiiensis** Kloppenburg, Fraterna 22(4): 21-23, ills., 2009. Typus: *Whistler* s.n. (HAW 9456).
- Hoya smithii* Kloppenburg, Fraterna 22(4): 24-27, ills., 2009. Based on *Smith* 399. *Nom. illeg.* (Art. 52.1). [Illegitimate versus *Hoya intermedia* A. C. Smith 1942, which is based on the same collection.]
- Hoya soligamiana** Kloppenburg & al., Asia Life Sci. 18(1): 151-154, ills., 2009. Typus: *Siar & Cajano* 5868 (CAHUP 70619).
- Orbea cucullata** (Plowes) Meve, Asklepios No. 105: 20, 2009. Basionym: *Angolluma cucullata*.
- Orbea fenestrata** (Plowes) Meve, Asklepios No. 105: 20, ill. (p. 19), 2009. Basionym: *Angolluma fenestrata*.
- Orbea parviloba* (Bruyns) Meve, Asklepios No. 105: 22, ills. (pp. 20-21), 2009. *Nom. illeg.* (Art. 52.1), based on *Orbea wissmannii* var. *parviloba*. [*Nom. illeg.*, because *Orbea nardii* Raffaelli & al. 2008, included as synonym, has priority at species rank (cf. Meve, l.c. no. 106: 12, 2010 ('2009')).]
- Raphionacme splendens** ssp. **bingeri** (A. Chevalier) Venter, South Afr. J. Bot. 75: 337, 2009. Basionym: *Brachystelma bingeri*.

CACTACEAE

- ×**Astroferocactus** Licznerski, Kakt. Inne 6(3): 101, 2009. [= *Astrophytum* × *Ferocactus*.]
- Aylostera** Subgen. **Mediolobivia** (Backeberg) G. D. Rowley, Cact. World 27(2): 89, 2009. Basionym: *Mediolobivia*.
- Bragaia** Esteves & al., Kakt. and. Sukk. 60(12): 328, 2009. Typus: *Bragaia estevesii* Hofacker & P. J. Braun.
- Bragaia estevesii** Hofacker & P. J. Braun, Kakt. and. Sukk. 60(12): 328-331, ills., 2009. Typus: *Braga Nascimento* 118 (UFG).
- ×**Cleistochinocana** Licznerski, Kakt. Inne 6(3): 101, 2009. [= *Cleistocactus* × *Echinopsis* × *Matucana*.]
- Copiapoa coquimbana** ssp. **andina** I. Schaub & Keim, Cactus & Co. 13(1): 11-15, ills., 2009. Typus: *Schaub & Keim* s.n. (SGO 157240).
- Copiapoa schulziana** I. Schaub & Keim, Cactus & Co. 13(1): 16-23, ills., 2009. Typus: *Schaub & Keim* s.n. (SGO 157239).
- Cumulopuntia leucophaea** (Philippi) Hoxey, Tephrocactus Study Group 15(4): 57, 2009. Basionym: *Opuntia leucophaea*.
- Cylindropuntia** ×**cardenche** (Griffiths *pro sp.*) Pinkava & M. A. Baker, Haseltonia 15: 119, 2009. Basionym: *Opuntia cardenche*. [Treated as the hybrid *C. imbricata* × *C. kleimiae* by the combining authors. Name first used by E. F. Anderson, Cact. Fam. 209, 2001, and attributed to F. M. Knuth in Backeberg & Knuth, Kaktus-ABC, 126, 1936 ('1935') (*nom. inval.*, Art. 33.1).]
- Cylindropuntia imbricata** var. **spinitecta** (Griffiths) M. A. Baker, Haseltonia 15: 119, 2009. Basionym: *Opuntia spinitecta*.
- ×**Disolocereus** E. Meier, EPIG No. 64: 26, 2009. [= *Disocactus* × *Hylocereus*.]
- ×**Disophyllum charltonii** (G. D. Rowley) E. Meier, EPIG No. 62: 28, 2008. Basionym: *Phyllocactus charltonii*. [Erroneously omitted in RPS 59. First published invalidly (Art. 33.4) in l.c. No. 57: 17, 2006 (cf. RPS 57).]

- Echinocereus acifer** ssp. **ventanensis** Rischer, *Echinocereenfreund* 22(3): 63-65, ills. (pp. 67-69, 76), 2009. Typus: *Kinnach* 563 (HNT).
- Echinocereus chaletii** Rischer, *Cactus & Co.* 13(3): 49, 53-55, ills. (pp. 38-56), 2009. Typus: *Chalet* 4335 (IBUG). [Sphalm. 'chaleti'.]
- Echinocereus koehresianus** (G. R. W. Frank) Rischer, *Echinocereenfreund* 22(3): 73, 2009. Basionym: *Echinocereus scheeri* var. *koehresianus*.
- Echinopsis millarensis** Rausch, *Echinopseen* 6(2): 45-46, ills., 2009. Typus: *Rausch* 293 (LPB).
- Epicactus** 'Werner Uebelmann' E. Meier, *EPIG* No. 63: 29-31, ills., 2009. [Based on *Horst & Uebelmann HU* 988, allegedly collected in the wild in Santa Catarina, Brazil.]
- Eriosyce islayensis* fa. *bicolor* (Akers & Buining) S. Hinz, *Swiat Kakt.* 41(1): 17, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya bicolor*. [Omitted previously.]
- Eriosyce islayensis* fa. *brevicylindrica* (Rauh & Backeberg) S. Hinz, *Swiat Kakt.* 41(1): 17, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya brevicylindrica*. [Omitted previously.]
- Eriosyce islayensis* fa. *grandis* (Rauh & Backeberg) S. Hinz, *Swiat Kakt.* 41(2): 29, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya grandis*. [Omitted previously.]
- Eriosyce islayensis* fa. *krainziana* (F. Ritter) S. Hinz, *Swiat Kakt.* 41(1): unnumbered p. following p. 18, in caption to ills., 2007. *Nom. inval.* (Art. 33.4), based on *Islaya krainziana*. [Omitted previously. Basionym not given, and here deduced from the epithet.]
- Eriosyce islayensis* fa. *maritima* (F. Ritter) S. Hinz, *Swiat Kakt.* 41(2): 30, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya maritima*. [Omitted previously.]
- Eriosyce islayensis* fa. *minor* (Backeberg) S. Hinz, *Swiat Kakt.* 41(2): 31, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya minor*. [Omitted previously.]
- Eriosyce islayensis* fa. *molendensis* (Vaupel) S. Hinz, *Swiat Kakt.* 41(2): 31-32, 2007. *Nom. inval.* (Art. 33.4), based on *Echinocactus molendensis*. [Omitted previously.]
- Eriosyce islayensis* fa. *pseudomollendensis* (F. Ritter) S. Hinz, *Swiat Kakt.* 41(2): 28, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya copiapoides* var. *pseudomollendensis*. [Omitted previously.]
- Eriosyce islayensis* var. *divaricatiflora* (F. Ritter) S. Hinz, *Swiat Kakt.* 41(2): 29, 2007. *Nom. inval.* (Art. 33.4), based on *Islaya divaricatiflora*. [Omitted previously.]
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- Ferocactus* group *Glaucescens* Wozniak, *Ferokaktusy*, 29, 2009. *Nom. inval.* (Art. 36.1, 37.1).
- Ferocactus* group *Hamatacanthus* Wozniak, *Ferokaktusy*, 53, 2009. *Nom. inval.* (Art. 36.1, 37.1).
- Ferocactus* group *Latispinus* Wozniak, *Ferokaktusy*, 39, 2009. *Nom. inval.* (Art. 36.1, 37.1).
- Ferocactus* group *Pottsii* Wozniak, *Ferokaktusy*, 99, 2009. *Nom. inval.* (Art. 36.1, 37.1).
- Ferocactus* group *Robustus* Wozniak, *Ferokaktusy*, 63, 2009. *Nom. inval.* (Art. 36.1, 37.1).
- Gymnocalycium baldianum** ssp. **sanguiniflorum** (Werdermann) C. A. L. Bercht, *Succulenta* 88(2): 59, ills. (p. 58), 2009. Basionym: *Echinocactus sanguiniflorus*.
- Gymnocalycium bruchii** fa. **svectianum** (Pazout ex H. Till) Neuhuber, *Gymnocalycium* 22(1): 847, ill., 2009. Basionym: *Gymnocalycium andreae* fa. *svectianum*.
- Gymnocalycium bruchii** ssp. **atroviride** Neuhuber, *Gymnocalycium* 22(3): 873, ills., 2009. Typus: *Neuhuber* 93-787 (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **cumbrecitense** Neuhuber, *Gymnocalycium* 22(1): 843, ills., 2009. Typus: *Neuhuber* 90-232 (CORD [ex WU], WU). [Spelling of the subspecific epithet first given as 'cumbresitense', corrected l.c. (3): 874, 2009.]
- Gymnocalycium bruchii** ssp. **elegans** Neuhuber, *Gymnocalycium* 22(3): 869-870, ills., 2009. Typus: *Neuhuber* 99-1051 (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **implexum** Neuhuber, *Gymnocalycium* 22(3): 870-871, ills., 2009. Typus: *Neuhuber* 99-1048 (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **lacumbrense** Neuhuber, *Gymnocalycium* 22(1): 839, ills. (pp. 839, 841), 2009. Typus: *Neuhuber* 93-791 (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **melojeri** Neuhuber, *Gymnocalycium* 22(1): 844-845, ills., 2009. Typus: *Neuhuber* 99-1063 p.p. (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **multicostatum** Neuhuber, *Gymnocalycium* 22(3): 871-872, ills., 2009. Typus: *Neuhuber* 99-1045 (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **renatae** Neuhuber, *Gymnocalycium* 22(1): 843-844, ills., 2009. Typus: *Neuhuber* 90-236 (CORD [ex WU], WU).
- Gymnocalycium bruchii** ssp. **shimadae** Neuhuber, *Gymnocalycium* 22(1): 841, ills. (pp. 841-842), 2009. Typus: *Neuhuber* 93-531 (CORD [ex WU], WU).
- Gymnocalycium bruchii** var. **rubroalabastrum** Neuhuber, *Gymnocalycium* 22(1): 845, ills., 2009. Typus: *Neuhuber* 99-1063 p.p. (CORD [ex WU], WU).

- Gymnocalycium castellanosii** ssp. **armillatum** (Piltz) Papsch, *Cactus* & Co. 12(4): 200, 2009. Basionym: *Gymnocalycium castellanosii* var. *armillatum*. [Dated 2008, received Feb. 2009. First published invalidly (Art. 33.4, Note 1) l.c. 12(2): 98, 2008.]
- Gymnocalycium friedrichii** ssp. **eytianum** (Cárdenas) H. Till & Amerhauser, *Gymnocalycium* 22(4): 893, ills., 2009. Basionym: *Gymnocalycium eytianum*.
- Gymnocalycium horridispinum** ssp. **achirasense** (H. Till & Schatzl ex H. Till) G. Charles, *Gymnocalycium Habitat & Culture*, 154, ills., 2009. Basionym: *Gymnocalycium achirasense*.
- Gymnocalycium marianae** Perea & al., *Kakt. and. Sukk.* 60(2): 36-37, ills. (pp. 35-42), 2009. Typus: *Kiesling & al.* 10235 (MERL).
- Gymnocalycium marsoneri** ssp. **megatae** (Y. Ito) G. Charles, *Gymnocalycium Habitat & Culture*, 241, ills., 2009. Basionym: *Gymnocalycium megatae*.
- Gymnocalycium monvillei** var. **safronovii** Gapon, *Gymnocalycium* 22(4): 886, ill., 2009. Typus: *Neuhuber* 93-369 (CORD [ex WU]). [Also published simultaneously in *Kakt. Klub* 2009(1-2): 33, ills. (pp. 34-35), 2009, but with a confusing typification statement.]
- Gymnocalycium riojense** ssp. **vertongenii** Amerhauser, *Gymnocalycium* 21(2): 857-860, ills., 2009. Typus: *Vertongen* 1438 (CORD).
- Gymnocalycium schreiteri** H. Till, *Gymnocalycium* 22(1): 854-855, ills., 2009. Typus: *Bertz* 573 (CORD, WU) [Ex cult. H. Till, acc. no. 3550].
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- ×**Haagespostoa mirabilis** (Rauh & Backeberg) Ostolaza, *Quepo* No. 23: 67, ills., 2009. Basionym: *Neobinghamia mirabilis*.
- Lemaireocereus lepidanthus** (Eichlam) S. Arias & Terrazas, *Syst. Bot.* 34(1): 81-82, 2009. Basionym: *Cereus lepidanthus*.
- Lobivia hoevenii** Rausch, *Kakt. and. Sukk.* 60(12): 319-320, ills., 2009. Typus: *Rausch* 1013 (BA).
- Lobivia krahn-juckeri** Diers, *Kakt. and. Sukk.* 60(8): 216-220, ills., 2009. Typus: *Krahn* 1000 (LPB, WU).
- Lobivia kuehhasii** Rausch, *Kakt. and. Sukk.* 60(12): 320-321, ills., 2009. Typus: *Rausch* 817b (BA).
- Lophocereus marginatus** (De Candolle) S. Arias & Terrazas, *Syst. Bot.* 34(1): 82, 2009. Basionym: *Cereus marginatus*.
- Loxanthocereus acanthurus** ssp. **pullatus** (Rauh & Backeberg) Ostolaza, *Cact. World* 27(1): 46, 2009. Basionym: *Loxanthocereus pullatus*.
- Mammillaria bombyrosae* Linzen, *J. Mammillaria Soc.* 49(1): 5, 2009. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
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- Mammillaria guelzowiana** 'Zrzka' Lřbal, *Kaktusy* 45(2): 66-67, 2009. [A redbrown-spined horticultural selection.]
- Mammillaria huitzilopochtli* fa. *minichii* Linzen, *J. Mammillaria Soc.* 49(1): 5, ills. (p. 13), 2009. Based on *Linzen* 329. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name, first used by W. Bruns, *Mitteilungsbl. AfM* 24(2): 103, 2000.]
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- Mammillaria huitzilopochtli* var. *coyopoliana* Linzen, *J. Mammillaria Soc.* 49(1): 5, ills. (p. 13), 2009. Based on *Linzen* 34. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Mammillaria huitzilopochtli* var. *imperialis* Linzen, *J. Mammillaria Soc.* 49(1): 5-6, ill. (p. 14), 2009. Based on *Linzen* 185. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name.]
- Mammillaria icatlanensis* Linzen, *J. Mammillaria Soc.* 49(1): 6, ill. (p. 14), 2009. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name, based on several field numbers.]
- Mammillaria maycobensis** Schreier ex Rogozinski & Plein, *Mitteilungsbl. AfM* 33(4): 193-195, ills. (pp. 188-191), 2009. Typus: *Rogozinski* 738 (UAT 22254). [First used as provisional name by Schreier, *Kakt. and. Sukk.* 27(2): 41-43, 1976 (*nom. inval.*, Art. 36.1, 37.1).]
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- Mammillaria reyensis* Linzen, *J. Mammillaria Soc.* 49(1): 6, ill. (p. 15), 2009. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name, based on several field numbers.]
- Mammillaria yoloxis* Linzen, *J. Mammillaria Soc.* 49(1): 6-7, ills. (p. 15), 2009. *Nom. inval.* (Art. 34.1b, 36.1). [Published as provisional name, based on several field numbers.]
- Opuntia chiangiana** Scheinvar & Manzanero, *Novon* 19(2): 222-224, ills., 2009. Typus: *Manzanero* 370 (MEXU, MO, OAX).
- Parodia hummeliana** var. **glischrocarpa** (F. Ritter) Käsinger, *Mitteilungsbl. Inter-Parodia-Kette* No. 26: 6, ills., 2009. Basionym: *Parodia glischrocarpa*.
- Parodia hummeliana** var. **rubristaminea** (F. Ritter) Käsinger, *Mitteilungsbl. Inter-Parodia-Kette* No. 26: 3, ill., 2009. Basionym: *Parodia rubristaminea*.
- Parodia rosariana* hort. ex H. Thiele, *Succulenta* 88(4): 175-176, ills., 2009. *Nom. inval.* (Art. 34.1a, 36.1). [Published as provisional name, previously mentioned in *Mitteilungsbl. In-*

- ter-Parodia-Kette No. 16: 17, 2001.]
- Parodia samaensis* H. Thiele, Succulenta 88(4): 173-175, ill., 2009. *Nom. inval.* (Art. 34.1a, 36.1). [Published as provisional name.]
- Parodia spegazziniana** var. **lembckei** (Weskamp) Käisinger, Mitteilungsbl. Inter-Parodia-Kette No. 26: 15, ill., 2009. Basionym: *Parodia lembckei*.
- Parodia spegazziniana** var. **spanisa** (F. H. Brandt) Käisinger, Mitteilungsbl. Inter-Parodia-Kette No. 26: 19, ill., 2009. Basionym: *Parodia spanisa*.
- Pilosocereus pseudosuperflocosus** P. J. Braun & Esteves, Kakt. and. Sukk. 60(7): 185-188, ill., 2009. Typus: *Braun* 658 (UFG, HAL, ZSS). [Suspected hybrid *Pilosocereus densiareolatus* × *P. pachycladus*.]
- Pterocereus gaumeri** ssp. **foetidus** (T. MacDougal & Miranda) S. Arias & Terrazas, Syst. Bot. 34(1): 81, 2009. Basionym: *Pterocereus foetidus*.
- Rebutia** Subgen. **Weingartia** (Werdermann) G. D. Rowley, Cact. World 27(2): 89, 2009. Basionym: *Weingartia*.
- Rebutia borealis** Diers & Krahn, Kakt. and. Sukk. 60(5): 119-121, ill., 2009. Typus: *Krahn* 1033 (LPB).
- Rebutia malochii** Slaba & L. Fischer ex Slaba, Kaktusy 45(1): 11, ill. (pp. 8-10), 2009. Typus: *Slaba* 31-02 (PR).
- Rhipsalis aurea** M. F. Freitas & J. M. A. Braga, Syst. Bot. 34(3): 505-507, ill., 2009. Typus: *Braga* 7494 (RB, R).
- Selenicereus dorschianus** Ralf Bauer, EPIG No. 64: 16-17, ill. (pp. 6-8, 12), 2009. Typus: *Böhme* s.n. (ZSS).
- Tephrocactus dispar* (A. Castellanos & Lelong) G. Popov, Kakt. Klub 2009(1-2): 15, 2009. *Nom. illeg.* (Art. 52.1), based on *Opuntia weberi* var. *dispar*. [*Nom. illeg.* since the prioritable *Tephrocactus setiger* Backeberg 1936 is included as synonym (as fa. *setiger*).]
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- Tephrocactus dispar* ssp. *deminutus* (Rausch) G. Popov, Kakt. Klub 2009(1-2): 15, 2009. Incorrect name (Art. 11.4), based on *Tephrocactus weberi* var. *deminutus*.
- Weingartia mentosa** ssp. **cylindrica** (Donald & A. B. Lau) Gertel & J. de Vries, Cactus & Co. 12(4): 264, 2009. Basionym: *Sulcorebutia cylindrica*. [Dated Dec. 2008, received 2. Feb. 2009.]
- Weingartia mentosa** var. **crucensis** (Donald ex Gertel) Gertel & J. de Vries, Cactus & Co. 12(4): 264, 2009. Basionym: *Sulcorebutia cylindrica* var. *crucensis*. [Dated Dec. 2008, received 2. Feb. 2009. Repeated in Echinopseen 6(1): 21, April 2009.]
- Weingartia mentosa** var. **cylindrica** (Donald & A. B. Lau) Gertel & J. de Vries, Cactus & Co. 12(4): 264, 2009. Basionym: *Sulcorebutia cylindrica*. [Dated Dec. 2008, received 2. Feb. 2009.]
- Weingartia purpurea** ssp. **santiaginiensis** (Rausch) Gertel & de Vries, Cactus & Co. 12(4): 264, 2009. Basionym: *Sulcorebutia santiaginiensis*. [Dated Dec. 2008, received 2. Feb. 2009.]
- Weingartia steinbachii** ssp. **markusii** (Rausch) Gertel & J. de Vries, Echinopseen 6(1): 16, ill., 2009. Basionym: *Sulcorebutia markusii*.
- Weingartia steinbachii** var. **mizquensis** (Rausch) Gertel & J. de Vries, Echinopseen 6(1): 16, 2009. Basionym: *Sulcorebutia mizquensis*.
- Weingartia steinbachii** var. **tintinensis** (Gertel) Gertel & J. de Vries, Echinopseen 6(1): 16, ill., 2009. Basionym: *Sulcorebutia markusii* ssp. *tintinensis*. [Sphalm. 'tintiniensis'.]
- Weingartia tiraquensis** ssp. **krahni** (Rausch) Gertel & J. de Vries, Echinopseen 6(1): 20, 2009. Basionym: *Sulcorebutia krahni*.
- Weingartia tiraquensis** ssp. **mariae** (Swoboda) Gertel & J. de Vries, Echinopseen 6(1): 20, 2009. Basionym: *Sulcorebutia mariae*. [Sphalm. 'mariana'.]
- Weingartia tiraquensis** ssp. **totorensis** (Cárdenas) Gertel & J. de Vries, Echinopseen 6(1): 19, ill., 2009. Basionym: *Rebutia totorensis*.
- Weingartia tiraquensis** var. **augustinii** (Hentzschel) Gertel & J. de Vries, Echinopseen 6(1): 20, 2009. Basionym: *Sulcorebutia augustinii*.
- Weingartia tiraquensis** var. **australis** (Rausch) Gertel & J. de Vries, Echinopseen 6(1): 20, 2009. Basionym: *Sulcorebutia steinbachii* var. *australis*.
- Weingartia tiraquensis** var. **loui** (Brederoo & Donald) Gertel & J. de Vries, Echinopseen 6(1): 20, 2009. Basionym: *Sulcorebutia vizcarrae* var. *loui*.
- Weingartia tiraquensis** var. **oenantha** (Rausch) Gertel & J. de Vries, Echinopseen 6(1): 19, 2009. Basionym: *Sulcorebutia oenantha*.
- Wigginsia** Subgen. **Gymnocephala** (Backeberg ex Sida) van Vliet, Succulenta 88(4): 156, 2009. *Nom. inval.* (Art. 36.1, 33.4).
- Wigginsia** Subgen. **Neonotocactus** (Backeberg) van Vliet, Succulenta 88(4): 156, 2009. *Nom. inval.* (Art. 33.4).
- Wigginsia** Subgen. **Notobrasilia** (Havlicek) van Vliet, Succulenta 88(4): 156, 2009. *Nom. inval.* (Art. 33.4).

CRASSULACEAE

- Adromischus coleorum** G. Williamson, Cactus & Co. 12(4): 267, ill. (pp. 266, 268-269), 2009. Typus: *Cole & Cole* A36 in *Williamson* 6055 (BOL). [Dated Dec. 2008, received 2. Feb.

- 2009.]
- Crassula perforata** ssp. **kougaensis** van Jaarsveld & A. E. van Wyk, *Aloe* 46(1): 22-23, ills., 2009. Typus: *van Jaarsveld* 9905 (NBG).
- Crassula smithii** van Jaarsveld & al., *Aloe* 45(4): 90-91, ills., 2009. Typus: *Styles* s.n. (PRE). [Dated 2008, received at ZSS 3. 2. 2009.]
- ×**Cremnosedum** ‘Penn Ar Ru’ Moullec, *Subtropica* No. 22: 5, ills. (p. 2), 2008. [Supposed parentage is *Cremnophila linguifolia* × *Sedum adolphii* or *S. nussbaumerianum*.]
- Echeveria cuicatecana** Reyes & al., *Cact. Suc. Mex.* 49(3): 80-81, ills. (pp. 65, 82-84), 2004. Typus: *Pérez* 584 (MEXU). [Erroneously omitted previously.]
- Echeveria duwei* Hort. Neuwirth, *Kakt. and. Sukk.* 60(2): 48-50, ills., 2009. *Nom. inval.* (Art. 36.1, 37.1). [Probably a hybrid *Echeveria derenbergii* × *E. multicaulis* (l.c., p. 51).]
- Echeveria krahni** Kimmach, *Avonia* 27(2): 42, ills., 2009. Typus: *Krahn* 1078 (HNT, LP).
- Echeveria tamaulipana** Martínez-Avalos & al., *Revista Mex. Biodivers.* 80(2): 309-312, ills., 2009. Typus: *Martínez-Avalos* 123 (UAT).
- ×**Graptosedum** ‘Blue Giant’ M. Stuetzer, *Sedum Soc. Newslett.* No. 90: 94-95, ills., 2009. [Based on cultivated material of unknown parentage, perhaps *Graptopetalum amethystinum* × *Sedum treleasei*.]
- ×**Graptosedum** ‘Gaëlle-Aline’ Carrot, *Subtropica* No. 26: 4-5, ills. (pp. 2, 5), 2009. [= *Graptopetalum paraguayense* × *Sedum confusum*.]
- Hylotelephium** ‘Thundercloud’ R. Stephenson, *Sedum Soc. Newslett.* No. 88: 42-43, ills., 2009. [Probably *Hylotelephium populifolium* × *H. spectabile*.]
- ×**Lenoveria** ‘Ajax’ M. Bischofberger, *Sedum Soc. Newslett.* No. 90: 89-92, ills., 2009. [Possibly *Echeveria fimbriata* × *Lenophyllum* sp., described on the base of cultivated material without known parentage.]
- ×**Pachevedum** M. Bischofberger, *Cact.-Avent. Int.* No. 81: 27, 2009. [= *Pachyphytum* × *Echeveria* × *Sedum*.]
- ×**Pachevedum** ‘Ray’s Comfit’ M. Bischofberger, *Cact.-Avent. Int.* No. 81: 27, ills., 2009. [= *Pachyphytum oviferum* × (*Echeveria derenbergii* × *Sedum morganianum*).]
- ×**Pachyveria** ‘Calypso’ M. Bischofberger, *Sedum Soc. Newslett.* No. 88: 44-46, ills., 2009. [Of unknown parentage.]
- Prometheum chrysanthum** ssp. **uludaghense** Kaynak & al., *Ann. Bot. Fenn.* 46(5): 456-457, ills., 2009. Typus: *Kaynak & Yilmaz* 28745 (BULU).
- Sedum isidorum** Pino, *Haseltonia* 15: 10, ills. (pp. 12-13), 2009. Typus: *Pino* 1710 (USM).
- Sedum palmeri** ‘Guatemalan Mini’ R. Stephenson, *Sedum Soc. Newslett.* No. 90: 92-94, ills., 2009. [A dwarf form acquired on a market in Guatemala.]
- Sedum roberti** Veldkamp, *Haseltonia* 15: 79, 2009. Typus: *Clausen* 773022 (BH). [*Nom. nov. pro Sedum multiflorum* R. T. Clausen 1978 (*non Sedum multiflorum* Boenninghausen 1829/1830). The spelling of the specific epithet proposed by the author is in accordance with ICBN Rec. 60C2.]
- Sempervivum matricum** Blanár & Letz *ex* Letz, *Preslia* 81: 301-303, ills., 2009. Typus: *Futák* s.n. (SLO). [First used as provisional invalid name by Blanár & Letz, *Reussia* 2(2): 132, 2005 (cf. RPS 58), and also previously used as unpublished name "to be published 2007" by Hadrava & Miklánek, *Kaktusy* 43(Special 1): 14, 2007 (cf. RPS 58), and probably first used in the unpublished thesis of D. R. Letz.]
- ×**Tacisedum** M. Bischofberger, *Cact.-Avent. Int.* No. 81: 24, 2009. [= *Tacitus* × *Sedum*.]
- ×**Tacisedum** ‘Barton Glory’ M. Bischofberger, *Cact.-Avent. Int.* No. 81: 25-26, ills., 2009. [= ×*Tacisedum* ‘Heswall’? × *Tacitus bellus*.]
- ×**Tacisedum** ‘Barton Pink’ M. Bischofberger, *Cact.-Avent. Int.* No. 81: 24-25, ills., 2009. [= *Tacitus bellus* × ×*Tacisedum* ‘Heswall’?]
- Tylecodon bruynsii** van Jaarsveld & S. A. Hammer, *Cact. Succ. J. (US)* 81(5): 239, ills. (pp. 235-238), 2009. Typus: *van Jaarsveld & al.* 21117 (WIND).
- Villadia aureistella** Pino & Cieza, *Haseltonia* 15: 18-20, ills., 2009. Typus: *RRP* 810 (USM).
- Villadia kimmachii** Pino & Cieza, *Haseltonia* 15: 24-25, ills., 2009. Typus: *Pino* 1147 (USM).
- Villadia klopfensteinii** Pino & Cieza, *Haseltonia* 15: 16-19, ills., 2009. Typus: *Hutchison & Wright* 5117 (UCB, F, K).
- Villadia paniculata** Pino & Cieza, *Haseltonia* 15: 22-23, ills., 2009. Typus: *RRP* 321 (USM).
- Villadia thiedeii** Pino & Cieza, *Haseltonia* 15: 20-21, ills., 2009. Typus: *Pino* 1882 (USM).

CUCURBITACEAE

- Momordica mossambica** H. Schaefer, *Nordic J. Bot.* 27(5): 360-361, ills., 2009. Typus: *Torre & Paiva* 9867 (MO, C, COI, EA, K, LMA, LISC, WAG).

DRACAENACEAE

- Sansevieria** Sect. **Cephalantha** Jankalski, *Sansevieria* No. 19: 10, 2009. Typus: *Sansevieria kirkii* Baker.
- Sansevieria** Sect. **Dracomima** Jankalski, *Sansevieria* No. 19: 9, 2009. Typus: *Sansevieria ehrenbergii* Schweinfurth *ex* Baker.
- Sansevieria dumetescens** L. E. Newton, *Bradleya* 27: 156-158, ills., 2009. Typus: *Newton* 3761 (K, EA).

Sansevieria ×itumea (Mbugua *pro var.*) Jankalski, *Sansevieria* No. 20: 20, 2009. Basionym: *Sansevieria aethiopica* var. *itumea*. [Interpreted as the possible hybrid *S. raffillii* × *S. gracilis*. Rank of the basionym erroneously given as 'ssp.'.]

Sansevieria pfisteri D. J. Richards, *Sansevieria* No. 19: 4-7, ills., 2009. Typus: *Downs & Pfister* s.n. (SRGH).

EUPHORBACEAE

Euphorbia berevoensis Lawant & Buddensiek, *Euphorbia* World 4(1): 6-9, ills., 2008. Typus: *Rössli & Hoffmann* 43/93 (P). [Erroneously omitted previously.]

Euphorbia chamaeclada Bruyns, *Bothalia* 39(2): 219-220, ills., 2009. Typus: *Bruyns* 10402a (BOL, E, MO).

Euphorbia iloitaii A. Powys & S. Carter, *Cact. World* 27(4): 211, ills. (pp. 209-212), 2009. Typus: *Powys* 420 (EA).

Euphorbia maromokotrensis Rebmann, *Cact. Succ.* 1(2): 44-45, ills., 2009. Typus: *Rebmann* 12 (BR). [Name first mentioned (*nom. inval.*, Art. 36.1, 37.1) in *Succulentent 2007(Spécial)*: 44, ill., 2007 (cf. RPS 58).]

Euphorbia maryrichardsiae G. Williamson, *Euphorbia* World 4(3): 9-11, ills., 2009. Typus: *Williamson* 6022A (BOL). [Dated Dec. 2008, received at ZSS 16. 3. 2009.]

Euphorbia michaelii Thulin, *Kew Bull.* 64(3): 474-476, ills. (incl. p. 472), 2009. Typus: *Thulin & al.* 11606 (ETH, K, UPS).

Euphorbia otjingandu Swanepoel, *South Afr. J. Bot.* 75: 497-498, ills. (pp. 499-500), 2009. Typus: *Swanepoel* 268 (WIND, PRU).

Euphorbia piceoides Thulin, *Kew Bull.* 64(3): 471, 473-474, ills., 2009. Typus: *Thulin & al.* 11329 (ETH, K, UPS).

Euphorbia suborbicularis Thulin, *Kew Bull.* 64(3): 469-470, ills., 2009. Typus: *Thulin & al.* 11302 (ETH, K, UPS).

GERANIACEAE

Pelargonium carnosum ssp. **ferulaceum** (Burman *fil.*) M. Becker & F. Albers, *Bothalia* 39(1): 76, 2009. Basionym: *Geranium ferulaceum*. [The combining authors propose to ascribe the basionym name to Cavanilles 1787, rather than to Burman *fil.* 1758, on the presumption that the Burman description does not belong to the plate published by Burman 1738, and proposed as type.]

HYACINTHACEAE

Albuca Sect. **Branciona** (Salisbury) J. C. Manning & Goldblatt, *Taxon* 58(1): 96, 2009. Basionym: *Branciona*.

Albuca Sect. **Falconera** (Salisbury) J. C. Manning & Goldblatt, *Taxon* 58(1): 97, 2009. Basionym: *Falconera*.

Albuca Sect. **Osmyne** (Salisbury) J. C. Manning & Goldblatt, *Taxon* 58(1): 94, 2009. Basionym: *Osmyne*.

Albuca Ser. **Clavifolia** (U. & D. Müller-Doblies) J. C. Manning & Goldblatt, *Taxon* 58(1): 95, 2009. Basionym: *Ornithogalum* Ser. *Clavifolia*.

Albuca Ser. **Falconera** (Salisbury) J. C. Manning & Goldblatt, *Taxon* 58(1): 97, 2009. Basionym: *Falconera*.

Albuca Ser. **Zebrina** (U. & D. Müller-Doblies) J. C. Manning & Goldblatt, *Taxon* 58(1): 95, 2009. Basionym: *Ornithogalum* Ser. *Zebrina*.

Albuca Subgen. **Osmyne** (Salisbury) J. C. Manning & Goldblatt, *Taxon* 58(1): 93, 2009. Basionym: *Osmyne*.

Albuca Subgen. **Urophyllon** (Salisbury) J. C. Manning & Goldblatt, *Taxon* 58(1): 93, 2009. Basionym: *Urophyllon*.

Albuca bracteata (Thunberg) J. C. Manning & Goldblatt, *Taxon* 58(1): 93, 2009. Basionym: *Ornithogalum bracteatum*.

Albuca dilucula (Obermeyer) J. C. Manning & Goldblatt, *Taxon* 58(1): 95, 2009. Basionym: *Ornithogalum diluculum*.

Albuca kirstenii (J. C. Manning & Goldblatt) J. C. Manning & Goldblatt, *Taxon* 58(1): 97, 2009. Basionym: *Ornithogalum kirstenii*.

Albuca scabrocostata (U. & D. Müller-Doblies) J. C. Manning & Goldblatt, *Taxon* 58(1): 95, 2009. Basionym: *Ornithogalum scabrocostatum*.

Albucaeae J. C. Manning & Goldblatt, *Taxon* 58(1): 91, 2009. Typus: *Albuca* Linné.

Dipcadi Ser. **Uropetalon** (Burchell *ex Ker Gawler*) J. C. Manning & Goldblatt, *Taxon* 58(1): 99, 2009. Basionym: *Uropetalon*.

Drimia fimbriarginata Snijman, *Bothalia* 39(2): 234-235, ills., 2009. Typus: *Harrower* 2762 (NBG, PRE).

Drimia oliverorum J. C. Manning, *Bothalia* 39(2): 225-226, ills., map, 2009. Typus: *Oliver & Oliver* 9164 (NBG).

Ornithogalum lithopsoides van Jaarsveld, *Aloe* 46(1): 20-21, ills., 2009. Typus: *van Jaarsveld* 15240 (NBG).

Ornithogalum pendens van Jaarsveld & A. E. van Wyk, *Aloe* 46(2): 30-31, ills., 2009. Typus: *van Jaarsveld & al.* 21108 (NBG).

LAMIACEAE

- Plectranthus auriglandulosus** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 307, 2009. Typus: *Luke & al.* TPR605 (K, EA).
- Plectranthus caninus** ssp. **flavovirens** (Gürke) A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 345, 2009. Basionym: *Coleus flavovirens*.
- Plectranthus cinereus** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 247, 2009. Typus: *Greenway & Kanuri* 11151 (K, EA).
- Plectranthus confertiflorus** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 303, 2009. Typus: *Abdallah & al.* 96/129 (K, C, NHT, P).
- Plectranthus dupuisii** (Briquet) A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 329-330, 2009. Basionym: *Coleus dupuisii*.
- Plectranthus gymnostomus** (Gürke) A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 337, 2009. Basionym: *Coleus gymnostomus*.
- Plectranthus mafiensis** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 267, 2009. Typus: *Greenway* 5218 (EA, K).
- Plectranthus platyphyllus** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 331-333, ills., 2009. Typus: *Richards* 17354 (K, EA).
- Plectranthus radiatus** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 277, 2009. Typus: *Milne-Redhead & Taylor* 7842 (K).
- Plectranthus scopulicola** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 259-261, ills., 2009. Typus: *Drummond & Hemsley* 2846 (K, BR, EA, K).
- Plectranthus strangulatus** A. J. Paton, in A. J. Paton & al., Fl. Trop. East Afr., Lamiaceae, 246-247, figs. 39: 12 (p. 238), 40: 1-2 (p. 248), 2009. Typus: *Bruce* 957 (K).
- Plectranthus tetradeniifolius** A. J. Paton, Fl. Trop. East Afr., Lamiaceae, 304-306, ills., 2009. Typus: *Tweedie* 2665 (K). [Sphalm. 'tetradeniifolius'.]
- Thorncroftia greenii** Changwe & K. Balkwill, Flow. Pl. Afr. 61: 112-116, t. 2256, 2009. Typus: *Balkwill & al.* 12202 (J, K, PRE).

MELASTOMATACEAE

- Sonerila anaimudica** Lundin & B. Nordenstam, Novon 19(1): 76-77, ills., 2009. Typus: *Klackenberg & Lundin* 429 (S, K).

PORTULACACEAE

- Avonia albissima** var. **grisea** G. Williamson, Aloe 46(3): 70, ills. (pp. 69, 71), 2009. Typus: *van Thiel* s.n. in *Williamson* 6050 (BOL).
- Avonia lavbleckiana** G. Williamson, Aloe 46(3): 65, ills. (pp. 65-67), 2009. Typus: *Williamson & Williamson* 6057 (BOL).
- Avonia lavbleckiana** ssp. **major** G. Williamson, Aloe 46(3): 70, ills. (pp. 67-68), 2009. Typus: *van Thiel* s.n. in *Williamson* 6049 (BOL). [Sphalm. 'magniora'.]
- Montia racemosa** (Buchanan) Heenan, New Zealand J. Bot. 45: 438, 2007. Basionym: *Claytonia australasica* var. *racemosa*. [Erroneously omitted previously.]
- Montia sessiliflora** (G. Simpson) Heenan, New Zealand J. Bot. 45: 438, 2007. Basionym: *Claytonia australasica* var. *sessiliflora*. [Erroneously omitted previously.]
- Portulaca socotrana** Domina & Raimondo, Webbia 64(1): 10, ills., 2009. Typus: *Domina & al.* s.n. (PAL, PAL).

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 Schröder, C.: → Wagner, G. F.
 Shipunov, A.: → Serebryanaya, A.
 Singh, K.: → Buys, M. H.
 Smith, G. F.: → Figueiredo, E.
 Smith, W. K. (eds.): → Barrera, E. de la
 Snicer, J.: → Janeba, Z.
 Stead, J.: → Houston, D.
 Sujatha, M.: → Basha, S. D.
 Taylor, N.: → Hunt, D.
 Terrazas, T.: → Arias, S.
 Trujillo Argueta, S.: → Castillo, R. F. del
 Tränkle, U.: → Hübner, F.
 Vila, M.: → Bartomeus, I.
 Vries, J. de: → Gertel, W.
 Weiblen, G. D.: → Clement, W. L.
 Wiland-Szymánska, J.: → Klimko, M.
 Wittau, H.- J.: → Köllner, G.
 Yadav, S. R.: → Shimpale, V. B.