



IOS

**Repertorium
Plantarum
Succulentarum
XLIX (1998)**

Repertorium Plantarum Succulentarum XLIX (1998)

*Index nominum novarum plantarum succulentarum anno MCMXCVIII
editorum nec non bibliographia taxonomica ab U. Eggli et D. C. Zappi
compositus.*

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Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in bold face type, accompanied 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 also listed. For invalid, illegitimate or incorrect names, the articles of the ICBN which have been contravened are indicated in brackets (note that the numbering of some regularly cited articles has changed in the Tokyo (1994) edition of ICBN).
- 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 description of one or two new taxa are not repeated in the bibliographic section.
- Abbreviations for periodicals are those suggested in 'Bibliography of Succulent Plant Periodicals' (U. Eggi in *Friciana* 60: 1-139, 1998 ('1995')) for specialized periodicals, or those of *Bibliographia Periodicorum Huntianum* (including Supplement) 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 unter Angabe des nomenklatorischen Typs (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). Ungültige, illegitime oder falsch angewandte Namen erscheinen in *Kursivschrift* unter Angabe (in Klammer) derjenigen Artikel des ICBN, die verletzt worden sind. In allen Fällen folgen die kompletten bibliographischen Angaben. Für Umkombinationen wird auch das Basionym angegeben. Dabei ist zu beachten, dass die Nummerierung einiger häufig zitierter Artikel mit dem Erscheinen der Tokyo-Version (1994) des ICBN geändert hat.
- 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 Beschreibungen eines oder zweier Taxa enthalten, werden in der bibliographischen Liste nicht separat aufgeführt.
- Die Abkürzungen für spezialisierte Sukkulente-Zeitschriften richten sich nach 'Bibliography of Succulent Plant Periodicals' (U. Eggi in *Friciana* 60: 1-139, 1998 ('1995')), für allgemeine botanische Zeitschriften in der Regel nach *Bibliographia Periodicorum Huntianum* und Supplement.

Compiled by / Zusammengestellt von:

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

D. C. Zappi, The Herbarium, Royal Botanic Gardens Kew, Richmond, Surrey TW9 3AE, U.K.

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Preface

This is the largest issue of RPS ever published! The reasons for this flood of new names and literature references are several-fold: On one hand, novelties are still being found and described from around the World. On the other hand, the forthcoming new Succulent Plant Lexicon, as well as the second edition of the CITES *Cactaceae* Checklist (published May 1999), have led to a number of new combinations. And thirdly, some important (in terms of numbers of new names) papers published in 1997 have only recently become available and are now included. Finally, numerous additional literature references have become available, especially through the help of Reto Nyffeler. Words of thank are due to Reto, as well to all the colleagues that have provided us with separate prints of their papers.

The Compilers

Vorwort

Dies ist die umfangreichste je publizierte RPS-Ausgabe! Die Gründe für diese Flut neuer Namen und Literaturhinweise sind vielfältig: Einerseits werden weiterhin in der ganzen Welt Neuheiten gefunden und beschrieben. Andererseits haben sowohl das in Arbeit befindliche neue Sukkulentenlexikon, wie auch die im Mai 1999 publizierte zweite Ausgabe der CITES *Cactaceae* Checklist zahlreiche Neukombinationen nötig gemacht. Schliesslich sind drittens einige wichtige (insbesondere mit Blick auf die Anzahl neuer Namen) bereits 1997 veröffentlichte Beiträge erst kürzlich zugänglich geworden, und werden in dieser Ausgabe behandelt. Im Weiteren wurden zahlreiche zusätzliche Literaturverweise aus früheren Jahren eingearbeitet, in erster Linie dank der Hilfe von Reto Nyffeler. Worte des Dankes gehen an Reto, sowie an alle Kolleginnen und Kollegen, die uns mit Separatdrucken ihrer Beiträge versorgt haben.

Die Herausgeber

Corrections to previous volumes

- Wolfgang Papsch, Austria, has kindly pointed out a spelling error in RPS 47, where the name *Gymnocalycium gibbosum* fa. *cerebriforme* has been mis-spelled as 'crebriforme'.
- The name *Sinocrassula luteorubra* var. *maculosa*, included as valid in RPS 48, is invalid under Art. 43.1, since the name *Sinocrassula luteorubra* is invalid under Art. 33. Our thanks go to J. Thiede for pointing out this error.

Korrekturen zu früheren Bänden

- Wolfgang Papsch, Österreich, hat freundlicherweise auf einen Schreibfehler in RPS 47 aufmerksam gemacht, wo *Gymnocalycium gibbosum* var. *cerebriforme* irrtümlich als 'crebriforme' geschrieben wurde.
- Der Name *Sinocrassula luteorubra* var. *maculosa* wurde in RPS 48 irrtümlich als gültig aufgenommen, ist aber unter Art. 43.1 ungültig, weil der Name *Sinocrassula luteorubra* selbst unter Art. 33 ungültig ist. Unser Dank geht an J. Thiede, der uns auf diesen Fehler hingewiesen hat.

NOMINA NOVA

AGAVACEAE

- Yucca capensis* L. W. Lenz, Cact. Succ. J. (US) 70(6): 289-293, ills., 1998. Typus: Lenz 4501 (RSA).
- Yucca mixtecana* García-Mendoza, Acta Bot. Mex. 42: 1-4, ills., 1998. Typus: *García-Mendoza et al.* 6198 (MEXU, BM, ENCB, MO, OAX, TEX).
- Yucca nana* Hochstätter, Succulenta 77(2): 71-74, ills., 1998. Typus: *Hochstätter* 1178.78 (SRP). [Simultaneously also published in *Kaktusblüte* No. 15: 29-32, ills., 1998.]

AIZOACEAE

- Acrodon purpureostylus* (L. Bolus) Burgoyne, Aloe 35(2): 61, ills., 1998. Basionym: *Mesembryanthemum purpureostylum*.
- Amphibolia hutchinsonii* (L. Bolus) H. E. K. Hartmann, Bradleya 16: 46, 1998. Basionym: *Ruschia hutchinsonii*.
- Amphibolia obscura* H. E. K. Hartmann, Bradleya 16: 47, ills. (p. 50), 1998. Typus: *Hartmann et al.* 20805 (HBG).
- Amphibolia saginata* (L. Bolus) H. E. K. Hartmann, Bradleya 16: 48, ills. (p. 50), 1998. Basionym: *Ruschia saginata*.
- Amphibolia succulenta* (L. Bolus) H. E. K. Hartmann, Bradleya 16: 48, ills. (p. 51), 1998. Basionym: *Ruschia succulenta*.
- Antimima addita* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Ruschia addita*.
- Antimima amoena* (Schwantes) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Ruschia amoena*.
- Antimima androsacea* (Marloth & Schwantes) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Mesembryanthemum androsacea*.
- Antimima argentea* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Ruschia argentea*.
- Antimima biformis* (N. E. Brown) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Mesembryanthemum biforme*.
- Antimima bina* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Ruschia bina*.
- Antimima bracteata* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Ruschia bracteata*.
- Antimima brevicarpa* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 70, 1998. Basionym: *Ruschia brevicarpa*.
- Antimima brevicollis* (N. E. Brown) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Mesembryanthemum brevicolle*.
- Antimima buchbergensis* (Dinter) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Ruschia buchbergensis*.
- Antimima compacta* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Ruschia biformis*.
- Antimima compressa* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Ruschia compressa*.
- Antimima concinna* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Ruschia concinna*.
- Antimima condensata* (N. E. Brown) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Mesembryanthemum condensum*.
- Antimima crassifolia* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Ruschia crassifolia*.
- Antimima dasyphylla* (Schlechter) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Mesembryanthemum dasyphyllum*.
- Antimima defecta* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 71, 1998. Basionym: *Ruschia defecta*.
- Antimima dekenahii* (N. E. Brown) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Mesembryanthemum dekenahii*.
- Antimima distans* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Mesembryanthemum distans*.
- Antimima dolomitica* (Dinter) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Mesembryanthemum dolomiticum*.
- Antimima eendornensis* (Dinter) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Mesembryanthemum eendornense*.
- Antimima elevata* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Ruschia elevata*.
- Antimima emarcescens* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Ruschia emarcescens*.
- Antimima erosa* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Ruschia erosa*.
- Antimima evoluta* (N. E. Brown) H. E. K. Hartmann, Bothalia 28(1): 72, 1998. Basionym: *Mesembryanthemum evolutum*.
- Antimima exurgens* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 73, 1998. Basionym: *Ruschia exurgens*.
- Antimima fenestrata* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 73, 1998. Basionym: *Ruschia fenestrata*.
- Antimima fergusoniae* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 73, 1998. Basionym: *Ruschia fergusoniae*.
- Antimima gracillima* (L. Bolus) H. E. K. Hartmann, Bothalia 28(1): 73, 1998. Basionym: *Ruschia gracillima*.
- Antimima granitica* (L. Bolus) H. E. K. Hart-

- mann, *Bothalia* 28(1): 73, 1998. Basionym: *Mesembryanthemum graniticum*.
- Antimima hallii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 73, 1998. Basionym: *Ruschia hallii*.
- Antimima hamatilis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 73, 1998. Basionym: *Ruschia hamatilis*.
- Antimima herrei** (Schwantes) H. E. K. Hartmann, *Bothalia* 28(1): 73-74, 1998. Basionym: *Ruschia herrei*.
- Antimima intervallaris** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Ruschia intervallaris*.
- Antimima ivorii** (N. E. Brown) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Mesembryanthemum ivorii*.
- Antimima karroidea** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Ruschia karroidea*.
- Antimima klaverensis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Mesembryanthemum klaverense*.
- Antimima koekenaapensis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Ruschia koekenaapensis*.
- Antimima komkansica** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Ruschia komkansica*.
- Antimima lawsonii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Mesembryanthemum lawsonii*.
- Antimima leipoldtii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 74, 1998. Basionym: *Ruschia leipoldtii*.
- Antimima leucanthera** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Mesembryanthemum leucantherum*.
- Antimima limbata** (N. E. Brown) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Mesembryanthemum limbatum*.
- Antimima lodewykii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia lodewykii*.
- Antimima loganii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia loganii*.
- Antimima lokenbergensis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia lokenbergensis*.
- Antimima luckhoffii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia luckhoffii*.
- Antimima maleolens** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia maleolens*.
- Antimima maxwellii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia maxwellii*.
- Antimima menniei** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 75, 1998. Basionym: *Ruschia menniei*.
- Antimima mesklipensis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 76, 1998. Basionym: *Ruschia mesklipensis*.
- Antimima meyeræ** (Schwantes) H. E. K. Hartmann, *Bothalia* 28(1): 76, 1998. Basionym: *Ruschia meyeræ*.
- Antimima minima** (Tischer) H. E. K. Hartmann, *Bothalia* 28(1): 76, 1998. Basionym: *Cheiridopsis minima*.
- Antimima minutifolia** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 76, 1998. Basionym: *Ruschia minutifolia*.
- Antimima modesta** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 76, 1998. Basionym: *Ruschia modesta*.
- Antimima mucronata** (Haworth) H. E. K. Hartmann, *Bothalia* 28(1): 76, 1998. Basionym: *Mesembryanthemum mucronatum*.
- Antimima mutica** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 76-77, 1998. Basionym: *Ruschia mutica*.
- Antimima nobilis** (Schwantes) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia nobilis*.
- Antimima nordenstamii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia nordenstamii*.
- Antimima oviformis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia oviformis*.
- Antimima papillata** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia papillata*.
- Antimima paucifolia** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia paucifolia*.
- Antimima pauper** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia pauper*.
- Antimima peersii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia peersii*.
- Antimima perforata** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 77, 1998. Basionym: *Ruschia perforata*.
- Antimima persistens** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Ruschia persistens*.
- Antimima pilosula** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Ruschia pilosula*.
- Antimima piscodora** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Ruschia piscodora*.
- Antimima prolongata** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Ruschia prolongata*.
- Antimima propinqua** (N. E. Brown) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Ruschia propinqua*.
- Antimima prostrata** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Ruschia prostrata*.
- Antimima pumila** (L. Bolus ex Fedde & Schuster) H. E. K. Hartmann, *Bothalia* 28(1): 78, 1998. Basionym: *Mesembryanthemum pumilum*.
- Antimima pusilla** (Schwantes) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym:

- Ruschia pusilla*.
- Antimima pygmaea** (Haworth) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Mesembryanthemum pygmaeum*.
- Antimima quarzítica** (Dinter) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Mesembryanthemum quarziticum*.
- Antimima roseola** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Mesembryanthemum roseolum*.
- Antimima saturata** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Ruschia saturata*.
- Antimima saxicola** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Ruschia saxicola*.
- Antimima schlechteri** (Schwantes) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Ruschia schlechteri*.
- Antimima simulans** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 79, 1998. Basionym: *Ruschia simulans*.
- Antimima sobrina** (N. E. Brown) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Mesembryanthemum sobrinum*.
- Antimima solida** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Mesembryanthemum solidum*.
- Antimima stayneri** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Ruschia stayneri*.
- Antimima stokoei** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Ruschia stokoei*.
- Antimima subtruncata** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Ruschia subtruncata*.
- Antimima triquetra** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Ruschia triquetra*.
- Antimima tuberculosa** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Ruschia tuberculosa*.
- Antimima turneriana** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 80, 1998. Basionym: *Ruschia turneriana*.
- Antimima vanzylii** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 81, 1998. Basionym: *Ruschia vanzylii*.
- Antimima varians** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 81, 1998. Basionym: *Ruschia varians*.
- Antimima ventricosa** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 81, 1998. Basionym: *Mesembryanthemum ventricosum*.
- Antimima verruculosa** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 81, 1998. Basionym: *Ruschia verruculosa*.
- Antimima watermeyeri** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 81, 1998. Basionym: *Ruschia watermeyeri*.
- Antimima wittebergensis** (L. Bolus) H. E. K. Hartmann, *Bothalia* 28(1): 81, 1998. Basionym: *Mesembryanthemum wittebergense*.
- Caulipsolon** Klak, Bot. Jahrb. Syst. 120(3): 364, 1998. Typus: *Mesembryanthemum rapaceum* Jacquin.
- Caulipsolon rapaceum** (Jacquin) Klak, Bot. Jahrb. Syst. 120(3): 364, 1998. Basionym: *Mesembryanthemum rapaceum*.
- Cerochlamys gemina** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 53, ill. (p. 51), 1998. Basionym: *Ruschia gemina*.
- Cerochlamys purpureostyla** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 56, 1998. Basionym: *Mesembryanthemum purpureostylum*.
- Conophytum bruynsii** S. A. Hammer, *Cactus & Co.* 2(4): 5-6, ill. (incl. p. 8), 1998. Typus: *Bruyns* 6784 (BOL, HNT).
- Conophytum jarmilae** Halda, *Acta Mus. Richnov. Sect. Nat.* 5(4): 164, 1998. Typus: *Halda* 97080159 (Herb. Halda).
- Dorotheanthus clavatus** (Haworth) Struck, *Feddes Repert.* 109(5-6): 379-383, 1998. Basionym: *Mesembryanthemum clavatum*.
- Eberlanzia cyathiformis** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 60, ill. (p. 54), 1998. Basionym: *Ruschia cyathiformis*.
- Eberlanzia dichotoma** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 60, ill. (p. 54), 1998. Basionym: *Ruschia dichotoma*.
- Eberlanzia ebracteata** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 60, ill. (p. 54), 1998. Basionym: *Ruschia ebracteata*.
- Eberlanzia gravida** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 61, 1998. Basionym: *Ruschia gravida*.
- Eberlanzia parvibracteata** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 61, ill. (p. 55), 1998. Basionym: *Ruschia parvibracteata*.
- Eberlanzia schneideriana** (A. Berger) H. E. K. Hartmann, *Bradleya* 16: 61, ill. (p. 55), 1998. Basionym: *Mesembryanthemum schneiderianum*.
- Erepisia aristata** (L. Bolus) Liede & H. E. K. Hartmann, *Bradleya* 16: 64, ill. (p. 55), 1998. Basionym: *Ruschia aristata*.
- Esterhuysenia drepanophylla** (Schlechter & A. Berger) H. E. K. Hartmann, *Bradleya* 16: 65, 1998. Basionym: *Mesembryanthemum drepanophyllum*.
- Esterhuysenia inclaudens** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 66, 1998. Basionym: *Ruschia inclaudens*.
- Esterhuysenia stokoei** (L. Bolus) H. E. K. Hartmann, *Bradleya* 16: 66, 1998. Basionym: *Mesembryanthemum stokoei*.
- Gibbaeum nebrownii** ssp. *johnstonii* (van Jaarsveld & S. A. Hammer) Pavelka, *Astridia* 3: 39, 1998. Basionym: *Gibbaeum johnstonii*. [Dated 1997, publ. Dec. 1998. Sphalm. 'johnsonii'.]
- Hammeria Burgoyne**, *Cact. Succ. J. (US)* 70(4): 204-205, 1998. Typus: *Ruschia salteri* L. Bolus.
- Hammeria gracilis** Burgoyne, *Cact. Succ. J. (US)* 70(4): 206-208, ill., 1998. Typus: *Hammer et Vtok* 1406 (PRE).
- Hammeria salteri** (L. Bolus) Burgoyne, *Cact. Succ. J. (US)* 70(4): 206, ill. (pp. 204-206),

1998. Basionym: *Ruschia salteri*.
- Lampranthus amphibolius** (G. D. Rowley) H. E. K. Hartmann, Bradleya 16: 67, 1998. Basionym: *Ruschia amphibolia*.
- Lampranthus arenarius** H. E. K. Hartmann, Bradleya 16: 67, 1998. Typus: Bolus 19304II (BOL [lecto]) [Lectotype designated from among 2 sheets by H. E. K. Hartmann, l.c., 1998]. [Nom. nov. pro *Ruschia arenosa* L. Bolus 1933 (non *Lampranthus arenosus* (L. Bolus) L. Bolus).]
- Lampranthus curviflorus** (Haworth) H. E. K. Hartmann, Bradleya 16: 67, 1998. Basionym: *Mesembryanthemum curviflorum*.
- Lampranthus dissimilis** (G. D. Rowley) H. E. K. Hartmann, Bradleya 16: 67-68, 1998. Basionym: *Ruschia dissimilis*.
- Lampranthus francesiae** H. E. K. Hartmann, Bradleya 16: 68, 1998. Typus: Leighton 21422 (BOL). [Nom. nov. pro *Ruschia leightoniae* L. Bolus 1935 (non *Lampranthus leightoniae* (L. Bolus) L. Bolus).]
- Lampranthus marginatus** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 68, 1998. Basionym: *Ruschia marginata*.
- Lampranthus mutatus** (G. D. Rowley) H. E. K. Hartmann, Bradleya 16: 68, 1998. Basionym: *Ruschia mutata*.
- Lampranthus pakpassensis** H. E. K. Hartmann, Bradleya 16: 70, 1998. Typus: Bolus 20479 (BOL). [Nom. nov. pro *Ruschia pakhuisensis* L. Bolus 1933 (Non *Lampranthus pakhuisensis* (L. Bolus) L. Bolus).]
- Lampranthus profundus** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 70, 1998. Basionym: *Ruschia profunda*.
- Lampranthus tanquanus** H. E. K. Hartmann, Bradleya 16: 70, 1998. Lectotypus: Salter 2668 (BOL [lecto]) [Lectotype designated from among 2 syntypes by H. E. K. Hartmann l.c. 1998]. [Nom. nov. pro *Ruschia salteri* L. Bolus 1932 (non *Lampranthus salteri* (L. Bolus) L. Bolus).]
- Ocotopoma quadrisepalum** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 73, ill. (p. 82), 1998. Basionym: *Ruschia quadrisepala*.
- Ocotopoma tetrasepalum** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 74, 1998. Basionym: *Ruschia tetrasepala*.
- Oscularia alba** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 75, 1998. Basionym: *Mesembryanthemum album*.
- Oscularia cedarbergensis** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 76, 1998. Basionym: *Mesembryanthemum cedarbergense*.
- Oscularia compressa** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 76, 1998. Basionym: *Lampranthus compressus*.
- Oscularia comptonii** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 76, 1998. Basionym: *Mesembryanthemum comptonii*.
- Oscularia copiosa** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 76, 1998. Basionym: *Mesembryanthemum copiosum*.
- Oscularia excedens** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 77, 1998. Basionym: *Mesembryanthemum excedens*.
- Oscularia falciformis** (Haworth) H. E. K. Hartmann, Bradleya 16: 77, ill. (p. 83), 1998. Basionym: *Mesembryanthemum falciforme*.
- Oscularia guthriae** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 77, 1998. Basionym: *Mesembryanthemum guthriae*.
- Oscularia lunata** (Willdenow) H. E. K. Hartmann, Bradleya 16: 77, 1998. Basionym: *Mesembryanthemum lunatum*.
- Oscularia ornata** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 78, 1998. Basionym: *Lampranthus ornatus*.
- Oscularia paardebergensis** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 78, 1998. Basionym: *Mesembryanthemum paardebergense*.
- Oscularia piquetbergensis** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 78, 1998. Basionym: *Mesembryanthemum piquetbergense*.
- Oscularia prasina** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 78, 1998. Basionym: *Lampranthus prasinus*.
- Oscularia primiverna** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 79, 1998. Basionym: *Mesembryanthemum primivernum*.
- Oscularia steenbergensis** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 79, ill. (p. 83), 1998. Basionym: *Mesembryanthemum steenbergense*.
- Oscularia superans** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 79, 1998. Basionym: *Mesembryanthemum superans*.
- Oscularia thermanum** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 79, 1998. Basionym: *Mesembryanthemum thermanum*.
- Oscularia vernicolor** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 79, 1998. Basionym: *Mesembryanthemum vernicolor*.
- Oscularia vredenburgensis** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 79, 1998. Basionym: *Lampranthus vredenburgensis*.
- Rhombophyllum albanense** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 81, ill. (p. 86), 1998. Basionym: *Hereroa albanensis*.
- Rhombophyllum dyeri** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 81, 1998. Basionym: *Hereroa dyeri*.
- Ruschia dielsiana** (A. Berger) H. Jacobsen ex H. E. K. Hartmann, Bradleya 16: 84, 1998. Basionym: *Mesembryanthemum dielsianum*. [Name first used (nom. inval., Art. 33.2) by H. Jacobsen, Handb. Succ. Pl. 3: 1272, 1378, 1960.]
- Ruschia punctulata** (L. Bolus) H. E. K. Hartmann, Bradleya 16: 85, 1998. Basionym: *Mesembryanthemum punctulatum*. [Attributed to L. Bolus 1950 in RPS 1, but such a combination was not published before.]
- Ruschia recurva** (Moench) H. E. K. Hartmann, Bradleya 16: 85, 1998. Basionym: *Mesembryanthemum recurvum*.
- Ruschia sessilis** (Thunberg) H. E. K. Hartmann, Bradleya 16: 85, 1998. Basionym: *Mesembryanthemum sessile*.
- Ruschia vetovalida** H. E. K. Hartmann, Bradleya

16: 85, 1998. *Typus: Bowie s.n. (K). [Nom. nov. pro Mesembryanthemum validum Haworth 1826 (non Ruschia valida Schwantes).] Zeuktophyllum calycinum (L. Bolus) H. E. K. Hartmann, Bradleya 16: 88-89, ill. (p. 87), 1998. Basionym: Ruschia calycina.*

ALOACEAE

- Aloe cv. Benvenue** P. I. Forster, *Haworthiad* 12(1): 12, 1998. [= *Aloe jucunda* × *A. jacksonii*.]
- Aloe cv. Bill Morris** P. I. Forster, *Haworthiad* 12(1): 12, 1998. [= (*Aloe jucunda* × *A. bakeri*) × *A. somaliensis*.]
- Aloe cv. Blackdown** P. I. Forster, *Haworthiad* 12(1): 12, 1998. [= *Aloe deltoideodonta* × *A. bellatula*.]
- Aloe cv. Blue Lady** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [= (*Aloe albida* × *A. albiflora*) × *A. antandroi*.]
- Aloe cv. Bountiful** (G. D. Rowley) P. I. Forster, *Haworthiad* 12(1): 12, 1998. Basionym: *Allauminia* cv. *Bountiful*.
- Aloe cv. Bromley** P. I. Forster, *Haworthiad* 12(1): 12, 1998. [= (*Aloe bellatula* × *A. bakeri*) × *A. rauhii*.]
- Aloe cv. Connal** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [= *Aloe thompsoniae* × *A. jacksonii*.]
- Aloe cv. Dainty** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [= *Aloe descoingsii* × *A. haworthioides*.]
- Aloe cv. Delaine** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [Parentage unknown.]
- Aloe cv. Dorian Black R. Wright** ex P. I. Forster & D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [Parentage unknown.]
- Aloe cv. Dreamer** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [Parentage unknown but including *Aloe haworthioides*.]
- Aloe cv. Dunnet** P. I. Forster, *Haworthiad* 12(1): 12, 1998. [= (*Aloe bakeri* × *A. millotii*) × *A. bellatula*.]
- Aloe cv. Eleta** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [Parentage unknown.]
- Aloe cv. Elga** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [= (*Aloe jucunda* × *A. jacksonii*) × (*A. millotii* × *A. bellatula*).]
- Aloe cv. Fabia** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [= (*Aloe aristata* × *A. sp.*) × *A. rauhii*.]
- Aloe cv. Gaila** D. M. Cumming, *Haworthiad* 12(1): 12, 1998. [= *Aloe albiflora* × *A. antandroi*.]
- Aloe cv. Green Shark** D. M. Cumming, *Haworthiad* 12(1): 12, fig. 14 (p. 30), 1998. [Additional data in *I.c.* 13(1): 28-29, 1999. Parentage unknown but including *Aloe haworthioides*.]
- Aloe cv. Green Wonder** P. I. Forster, *Haworthiad* 12(1): 13, 1998. [= *Aloe rauhii* × *A. saundersiae*.]
- Aloe cv. Hestia** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= *Aloe perrieri* × *A. millotii*.]
- Aloe cv. Irmadel** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe bellatula* × *rauhii*) × (*A. albiflora* × *A. millotii*).]
- Aloe cv. Japade** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown.]
- Aloe cv. Jason** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown.]
- Aloe cv. Jelena** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= *Aloe bakeri* × *A. karasbergensis*.]
- Aloe cv. Jofrid** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= *Aloe bakeri* × *A. rauhii*.]
- Aloe cv. Landis** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe brevifolia* × *A. somaliensis*) × *A. antandroi*.]
- Aloe cv. Link** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe bellatula* × *A. millotii*) × *A. jacksonii*.]
- Aloe cv. Little One** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe descoingsii* × *A. haworthioides*) × *A. descoingsii*.]
- Aloe cv. Little Three** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown but including *Aloe descoingsii*.]
- Aloe cv. Lok** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown.]
- Aloe cv. Luther** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= *Aloe perrieri* × *A. millotii*.]
- Aloe cv. Lysa** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= *Aloe bakeri* × *A. variegata*.]
- Aloe cv. Madora** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe albida* × *A. albiflora*) × *A. jacksonii*.]
- Aloe cv. Moyna** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe bellatula* × *A. rauhii*) × *A. jacksonii*.]
- Aloe cv. Novar** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown.]
- Aloe cv. Parjay** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown but including *Aloe descoingsii* and *A. parvula*.]
- Aloe cv. Pink Sensation** P. I. Forster, *Haworthiad* 12(1): 13, 1998. [= *Aloe bakeri* × *A. antandroi*.]
- Aloe cv. Purple Delight** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown but including *Aloe descoingsii* and *A. parvula*.]
- Aloe cv. Purple Dream** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown but including *Aloe parvula*.]
- Aloe cv. Purple Shark** D. M. Cumming, *Haworthiad* 12(1): 13, fig. 4 (p. 21), (4): 142-143, 1998. [Parentage unknown but including *Aloe descoingsii* and *A. haworthioides*.]
- Aloe cv. Sabra** (Innes) P. I. Forster, *Haworthiad* 12(1): 13, 1998. Basionym: *Allauminia* cv. *Sabra*.
- Aloe cv. Silver Cloud** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= (*Aloe parvula* × *A. rauhii*) × *A. sp.*]
- Aloe cv. Surprise** D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [= *Aloe ferox* × *A. millotii*.]
- Aloe cv. Versad** D. M. Cumming, *Haworthiad*

- 12(1): 13, 1998. [Parentage unknown but including *Aloe variegata*.]
- Aloe* cv. *Winter Sky* S. Lyons ex P. I. Forster, *Haworthiad* 12(1): 13, 1998. [= *Aloe descoingsii* × *A. rauhii*.]
- Aloe* cv. *Zygo* D. M. Cumming, *Haworthiad* 12(1): 13, 1998. [Parentage unknown.]
- Aloe* *anivoranoensis* (Rauh & Hedding) L. E. Newton & G. D. Rowley, *Bradleya* 16: 114, 1998. Basionym: *Lomatophyllum anivoranoense*.
- Aloe* *ballii* var. *makurupiniensis* Ellert, *Cact. Succ. J. (US)* 70(3): 130-131, ill., 1998. Typus: *Ellert* 525 (SRGH).
- Aloe* *berevoana* Lavranos, *Kakt. and. Sukk.* 49(7): 161-162, ill., 1998. Typus: *Rööslü et Hoffmann* s.n. (P, MO).
- Aloe* *compressa* var. *paucituberculata* Lavranos, *Kakt. and. Sukk.* 49(7): 158-159, ill., 1998. Typus: *Rööslü et Hoffmann* 7/95 (P, MO, TAN).
- Aloe* *cyrtophylla* Lavranos, *Kakt. and. Sukk.* 49(7): 159-161, ill., 1998. Typus: *Rööslü et Hoffmann* 36/95 (P, MO, TAN).
- Aloe* *lucile-allorgeae* Rauh, *Bradleya* 16: 97-98, 100, ill., 1998. Typus: *Humbert* 13738 (P).
- Aloe* *megalocarpa* Lavranos, *Kakt. and. Sukk.* 49(7): 162-163, ill., 1998. Typus: *Lavranos et al.* 28728 (P).
- Aloe* *namorokaensis* (Rauh) L. E. Newton & G. D. Rowley, *Bradleya* 16: 114, 1998. Basionym: *Lomatophyllum namorokaense*.
- Aloe* *pembana* L. E. Newton, *Cact. Succ. J. (US)* 70(1): 27-31, ill., 1998. Typus: *Brown* 206 (K, EA).
- Aloe* *propagulifera* (Rauh & Razafindratsira) L. E. Newton & G. D. Rowley, *Bradleya* 16: 114, 1998. Basionym: *Lomatophyllum propaguliferum*.
- Aloe* *rauhii* cv. *Tuberculata* Rauh, *Succ. Xerophyt. Pl. Madag.* 2: 297, ill., 1998.
- Astroloba* *corrugata* N. L. Meyer & G. F. Smith, *Bothalia* 28(1): 61-62, ill., 1998. Typus: *van Jaarsveld* 13913 (PRE).
- ×*Gasteraloe sculptilis* G. D. Rowley ex L. E. Newton, *Haseltonia* 5: 94, 1998. Typus: [icon]: *Cact. Succ. J. (US)* 7(9): 136, 1936. [First used by G. D. Rowley, *Nation. Cact. Succ. J.* 37(2): 49, 1982, as combination for *Gastrolea sculptilis* Poindexter 1936 (*nom. inval.*, Art. 36.1, 43).]
- Gasteria* cv. *Fader* hort. ex R. Scott, *Haworthiad* 12(2): 71, fig. 15 (p. 70), 1998. [Parentage unknown.]
- Gasteria* cv. *Old Man Silver* hort. ex R. Scott, *Haworthiad* 12(2): 69, fig. 12 (p. 70), 1998. [Name probably in circulation since c. 1980.]
- Gasteria* cv. *Perfectus* D. M. Cumming ex R. Scott, *Haworthiad* 12(2): 69, 1998. [= *Gasteria armstrongii* (cv. ?) × *G. 'Old Man Silver'*.]
- Gasteria* cv. *Platinum* Hort. Burks ex R. Scott, *Haworthiad* 12(2): 71, 1998. [Parentage unknown.]
- Gasteria* cv. *Schweickerdtiana* hort. ex R. Scott, *Haworthiad* 12(2): 72, 1998. [Parentage unknown.]
- Gasteria* cv. *Silver Star* hort. ex R. Scott, *Haworthiad* 12(2): 71, fig. 14 (p. 70), 1998. [= *Gasteria liliputana* × *G. 'Old Man Silver'*.]
- Gasteria* cv. *Silver Toad* Hort. Hummel ex R. Scott, *Haworthiad* 12(2): 71, fig. 13 (p. 70), 1998. [Parentage unknown.]
- Gasteria* *carinata* var. *glabra* (Salm-Dyck) van Jaarsveld, *Cact. Succ. J. (US)* 70(2): 70, ill. (p. 68), 1998. Basionym: *Aloe glabra*.
- Gasteria* *carinata* var. *thunbergii* (N. E. Brown) van Jaarsveld, *Cact. Succ. J. (US)* 70(2): 4, ill., 1998. Basionym: *Gasteria thunbergii*.
- Gasteria* *glauca* van Jaarsveld, *Cact. Succ. J. (US)* 70(2): 65-66, ill., 1998. Typus: *van Jaarsveld et Welsh* 14670 (PRE).
- Haworthia* cv. *Down Under* R. Evans, *Haworthiad* 12(1): 23, fig. 10 (p. 20), 1998. [Parentage unknown but including *Haworthia truncata*.]
- Haworthia* cv. *Gerald Barad* Southwell, *Cact. Succ. J. (US)* 70(4): 198, ill., 1998. [= *Haworthia maughanii* × *H. gigas*.]
- Haworthia* cv. *Harry Johnson* hort., *Haworthiad* 12(1): 23, 1998. [Parentage unknown but including *Haworthia truncata*.]
- Haworthia* cv. *Tropic World* R. Evans, *Haworthiad* 12(1): 23, fig. 9 (p. 20), 1998. [= *Haworthia truncata* × *H. retusa*.]
- Haworthia* Subgen. *Fusiformes* (W. F. Barker) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 34, 1997. Basionym: *Haworthia* Sect. *Fusiformes*. [Omitted previously, including all the remaining combinations by Halda 1997.]
- Haworthia* *arachnoidea* ssp. *pearsonii* (C. H. Wright) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 43, 1997. Basionym: *Haworthia pearsonii*.
- Haworthia* *arachnoidea* ssp. *setata* (Haworth) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 43, 1997. Basionym: *Haworthia setata*.
- Haworthia* *arachnoidea* ssp. *tenera* (von Poellnitz) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 44, 1997. Basionym: *Haworthia tenera*.
- Haworthia* *arachnoidea* var. *bolusii* (Baker) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 43, 1997. Basionym: *Haworthia bolusii*.
- Haworthia* *arachnoidea* var. *gracilis* (von Poellnitz) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 44, 1997. Basionym: *Haworthia gracilis*.
- Haworthia* *arachnoidea* var. *marumiana* (Uite-waal) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 44, 1997. Basionym: *Haworthia marumiana*.
- Haworthia* *arachnoidea* var. *pearsonii* (C. H. Wright) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 44, 1997. Basionym: *Haworthia pearsonii*.
- Haworthia* *arachnoidea* var. *pehlemanniae* (C. L. Scott) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 44, 1997. Basionym: *Haworthia pehlemanniae*.
- Haworthia* *arachnoidea* var. *semiviva* (von Poellnitz) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 43, 1997. Basionym: *Haworthia bo-*

- lusii* var. *semiviva*.
- Haworthia arachnoidea* var. *tenera* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 44, 1997. Basionym: *Haworthia tenera*.
- Haworthia arachnoidea* var. *translucens* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 43, 1997. Basionym: *Aloe translucens*.
- Haworthia arachnoidea* var. *xiphophylla* (Baker) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 43, 1997. Basionym: *Haworthia xiphophylla*. [Repeated by M. B. Bayer, *Haworthia Revisited*, 36, 1999.]
- Haworthia aristata* ssp. *helmiciae* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 48, 1997. Basionym: *Haworthia helmiciae*.
- Haworthia blackburniae* ssp. *graminifolia* (G. G. Smith) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 34, 1997. Basionym: *Haworthia graminifolia*.
- Haworthia chloracantha* ssp. *angustifolia* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia angustifolia*.
- Haworthia chloracantha* ssp. *baylissii* (C. L. Scott) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 41, 1997. Basionym: *Haworthia baylissii*.
- Haworthia chloracantha* ssp. *variegata* (L. Bolus) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia variegata*.
- Haworthia chloracantha* var. *angustifolia* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia angustifolia*.
- Haworthia chloracantha* var. *floribunda* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia floribunda*.
- Haworthia chloracantha* var. *mclarenii* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia mclarenii*.
- Haworthia chloracantha* var. *monticola* (Fourcade) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia monticola*.
- Haworthia chloracantha* var. *pulchella* (M. B. Bayer) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia pulchella*.
- Haworthia chloracantha* var. *serrata* (M. B. Bayer) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia serrata*.
- Haworthia chloracantha* var. *variegata* (L. Bolus) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia variegata*.
- Haworthia chloracantha* var. *zantneriana* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 42, 1997. Basionym: *Haworthia zantneriana*.
- Haworthia cooperi* ssp. *batteniae* (C. L. Scott) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 48, 1997. Basionym: *Haworthia batteniae*.
- Haworthia limifolia* ssp. *koelmaniorum* (Obermeyer & D. S. Hardy) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 38, 1997. Basionym: *Haworthia koelmaniorum*.
- Haworthia magnifica* var. *splendens* S. A. Hammer & D. J. Venter, Cact. Succ. J. (US) 70(4): 180-182, ill., 1998. Typus: *Venter* 93/57 (NBG).
- Haworthia mucronata* ssp. *lockwoodii* (Archibald) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 45, 1997. Basionym: *Haworthia lockwoodii*.
- Haworthia mucronata* var. *altilinea* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 45, 1997. Basionym: *Haworthia altilinea*.
- Haworthia mucronata* var. *nortieri* (G. G. Smith) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 45, 1997. Basionym: *Haworthia nortieri*. [The name is not indicated as "stat. nov." as are all other new names in the same paper, and the basionym (incl. reference) is cited *before* the entry for the new name, but all of these shortcomings can be interpreted as "bibliographical inaccuracies"]
- Haworthia pumila* ssp. *attenuata* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 36, 1997. Basionym: *Aloe attenuata*.
- Haworthia pumila* ssp. *fasciata* (Willdenow) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 37, 1997. Basionym: *Apicra fasciata*.
- Haworthia pumila* ssp. *longiana* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 37, 1997. Basionym: *Haworthia longiana*.
- Haworthia pumila* ssp. *minima* (Aiton) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 36, 1997. Basionym: *Aloe margaritifera* var. *minima*.
- Haworthia pumila* ssp. *radula* (Jacquin) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 37, 1997. Basionym: *Aloe radula*.
- Haworthia pumila* var. *kingiana* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 36, 1997. Basionym: *Haworthia kingiana*.
- Haworthia pumila* var. *smitii* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 36, 1997. Basionym: *Haworthia smitii*.
- Haworthia reinwardtii* ssp. *coarctata* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 40, 1997. Basionym: *Haworthia coarctata*.
- Haworthia reinwardtii* ssp. *glauca* (Baker) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 41, 1997. Basionym: *Haworthia glauca*.
- Haworthia reinwardtii* var. *coarctata* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 40, 1997. Basionym: *Haworthia coarctata*.
- Haworthia reinwardtii* var. *glauca* (Baker) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 41, 1997. Basionym: *Haworthia glauca*.
- Haworthia reinwardtii* var. *greenii* (Baker) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 41, 1997. Basionym: *Haworthia greenii*.
- Haworthia reinwardtii* var. *herrei* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 41, 1997. Basionym: *Haworthia herrei*.
- Haworthia reticulata* ssp. *batesiana* (Uitewaal) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 47,

1997. Basionym: *Haworthia batesiana*.
- Haworthia reticulata* var. *integra* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 47, 1997. Basionym: *Haworthia integra*.
- Haworthia retusa* ssp. *asperula* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 50, 1997. Basionym: *Haworthia asperula*.
- Haworthia retusa* ssp. *emelyae* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 49, 1997. Basionym: *Haworthia emelyae*.
- Haworthia retusa* var. *asperula* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 50, 1997. Basionym: *Haworthia asperula*.
- Haworthia retusa* var. *bruynsii* (M. B. Bayer) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 49, 1997. Basionym: *Haworthia bruynsii*.
- Haworthia retusa* var. *comptoniana* (G. G. Smith) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 50, 1997. Basionym: *Haworthia comptoniana*.
- Haworthia retusa* var. *emelyae* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 49, 1997. Basionym: *Haworthia emelyae*.
- Haworthia retusa* var. *heidelbergensis* (G. G. Smith) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 49, 1997. Basionym: *Haworthia heidelbergensis*.
- Haworthia retusa* var. *magnifica* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 50, 1997. Basionym: *Haworthia magnifica*.
- Haworthia retusa* var. *mirabilis* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 50, 1997. Basionym: *Aloe mirabilis*.
- Haworthia retusa* var. *springbokvlakensis* (C. L. Scott) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 50, 1997. Basionym: *Haworthia springbokvlakensis*.
- Haworthia scabra* ssp. *granulata* (Marloth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 35, 1997. Basionym: *Haworthia granulata*.
- Haworthia scabra* ssp. *sordida* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 34, 1997. Basionym: *Haworthia sordida*.
- Haworthia scabra* ssp. *starkiana* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 35, 1997. Basionym: *Haworthia starkiana*.
- Haworthia scabra* var. *lavrani* (C. L. Scott) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 35, 1997. Basionym: *Haworthia sordida* var. *lavrani*.
- Haworthia scabra* var. *sordida* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 34, 1997. Basionym: *Haworthia sordida*.
- Haworthia scabra* var. *tuberculata* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 35, 1997. Basionym: *Haworthia tuberculata*.
- Haworthia venosa* ssp. *nigra* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 39, 1997. Basionym: *Apicra nigra*.
- Haworthia venosa* ssp. *woolleyi* (von Poellnitz) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 40, 1997. Basionym: *Haworthia woolleyi*. [Repeated by M. B. Bayer, *Haworthia Revisited*, 204, ills., 1999.]
- Haworthia venosa* var. *tessellata* (Haworth) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 39, 1997. Basionym: *Haworthia tessellata*.
- Haworthia viscosa* ssp. *dereki-clarki* Halda, Cactaceae etc. 8(2): 44-45, ills., 1998. Typus: *Halda* s.n. (Herb. Halda 9703015). [Repeated in Acta Mus. Richnov. Sect. Nat. 5(1): 43, 1998.]
- Haworthia viscosa* ssp. *nigra* (Haworth) Halda, Cactaceae etc. 8(2): 46, 1998. Basionym: *Apicra nigra*. [Repeated in Acta Mus. Richnov. Sect. Nat. 5(1): 44, 1998.]
- Lomatophyllum anivoranoense* Rauh & Hedding, Bradleya 16: 93, ills. (p. 99), 1998. Typus: *Rauh* 22864 (HEID).
- Lomatophyllum namorokaense* Rauh, Bradleya 16: 94-95, ills. (p. 99), 1998. Typus: *Rauh* 72140 (HEID).
- Lomatophyllum pambanum* (L. E. Newton) Rauh, Bradleya 16: 96, 1998. Basionym: *Aloe pambana*.
- Lomatophyllum peyrierasii* (Cremers) Rauh, Bradleya 16: 95, ills., 1998. Basionym: *Aloe peyrierasii*.
- Lomatophyllum propaguliferum* Rauh & Razafindratsira, Bradleya 16: 93-94, ills. (p. 98), 1998. Typus: *Razafindratsira* s.n. in *Rauh* 74409 (HEID).

APOCYNACEAE

- Pachypodium xhojnyi* Halda, Cactaceae etc. 8(3): 83-85, ills. (incl. p. 81), 1998. Typus: Herb. Halda 980516 [Ex cult.]. [= *Pachypodium rosulatum* ssp. *rosulatum* × *P. densiflorum* ssp. *densiflorum*.]
- Pachypodium rosulatum* fa. *bicolor* (Lavranos & Rapanarivo) G. D. Rowley, Bradleya 16: 107, in clavi, 1998. Basionym: *Pachypodium bicolor*.
- Pachypodium rosulatum* var. *eburneum* (Lavranos & Rapanarivo) G. D. Rowley, Bradleya 16: 107, in clavi, 1998. Basionym: *Pachypodium eburneum*.
- Pachypodium rosulatum* var. *inopinatum* (Lavranos) G. D. Rowley, Bradleya 16: 107, in clavi, 1998. Basionym: *Pachypodium inopinatum*.

ASCLEPIADACEAE

- Angolluma lenewtonii* Lavranos, Asklepios No. 73: 15-16, ills., 1998. Typus: *Newton et al.* 4148 (K).
- Caralluma flavovirens* L. E. Newton, Asklepios No. 74: 24-25, ills., 1998. Typus: *Newton* 5589 (K, EA).
- Caralluma turneri* ssp. *ukambensis* (P. R. O. Bally) L. E. Newton, Asklepios No. 72: 9, ills. (p. 10), 1998. Basionym: *Caralluma dicapuae* ssp. *ukambensis*. [Dated 1997, publ. Feb. 1998.]

- Ceropegia adrienneae* Rauh & Gerold, *Succulentes* 21(3): 5, 7-8, (4): 9, ills., 1998. Typus: *Robivelo et Gerold* s.n. in *BG Heidelberg* 75006 (HEID). [Validity doubtful since the Latin diagnosis was only added later (l.c. (4): 9) without a full page reference to the previous publication or repetition of the typification data.]
- Ceropegia andamanica* Sreekumar & al., *Blumea* 43(1): 215-217, ills., 1998. Typus: *Sreekumar et Veenakumari* 15493 (CAL, L, PBL).
- Ceropegia dichotoma* ssp. *fusca* (Bolle) G. D. Rowley, *Asklepios* No. 75: 36, 1998. Basionym: *Ceropegia fusca*. [Dated Dec. 1998, received 25. Jan. 1999.]
- Ceropegia gikyi* Rauh & Gerold, *Succulentes* 21(3): 3-4, 6-7, ills., 1998. Typus: *Gerold et Robivelo* s.n. in *BG Heidelberg* 75007 (HEID).
- Ceropegia inornata* P. R. O. Bally ex Masinde, *Kew Bull.* 53(4): 949-953, ills., 1998. Typus: *Masinde et al.* 838 (EA, K, MSUN).
- Ceropegia robivelonae* Rauh & Gerold, *Succulentes* 21(4): 3-9, ills., SEM-ills., 1998. Typus: *Robivelo* s.n. in *BGH* 74007 (HEID).
- Ceropegia striata* Meve & Masinde, *Novon* 8(1): 38-40, ills., 1998. Typus: *Grubenmann* s.n. (ZSS, MO, MSUN).
- Hoodia* Sect. *Cactoidea* (A. C. White & B. Sloane) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 31, 1998. Basionym: *Trichocaulon* Sect. *Cactoidea*.
- Hoodia* Sect. *Lavrania* (Plowes) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Lavrania*.
- Hoodia* Subgen. *Lavrania* (Plowes) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 30, 1998. Basionym: *Lavrania*.
- Hoodia cactiformis* (Hooker) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 31, 1998. Basionym: *Stapelia cactiformis*.
- Hoodia dinteri* (A. Berger) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 31, 1998. Basionym: *Trichocaulon dinteri*. [Non *Hoodia dinteri* Schlechter ex Dinter 1922 (*nom. nud.*)]
- Hoodia felina* (D. T. Cole) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 31, 1998. Basionym: *Trichocaulon felinum*.
- Hoodia haagnerae* (Plowes) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 33, 1998. Basionym: *Lavrania haagnerae*.
- Hoodia marlothii* (N. E. Brown) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 31, 1998. Basionym: *Trichocaulon marlothii*.
- Hoodia meloformis* (Marloth) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Trichocaulon meloforme*.
- Hoodia perlata* (Dinter) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Trichocaulon perlatum*.
- Hoodia picta* (N. E. Brown) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Trichocaulon pictum*.
- Hoodia similis* (N. E. Brown) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Trichocaulon simile*. [Non *Hoodia similis* Dinter 1928 (*nom. nud.*)]
- Hoodia sociarum* (A. C. White & B. Sloane) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Trichocaulon sociarum*.
- Hoodia tirasmontana* (Plowes) Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 32, 1998. Basionym: *Leachiella tirasmontana*.
- Hoya odetteae* Kloppenburg, *Fraterna* 11(2): 8-11, ills., 1998. Typus: *Cumming* 5604 (BISH, UC, PNH).
- Huernia keniensis* var. *globosa* L. E. Newton, *Asklepios* No. 74: 23-24, ills., 1998. Typus: *Newton* 2927 (K, EA, MSUN).
- Huernia macrocarpa* fa. *schimperi* (A. Berger) S. Brodie, *Curtis's Bot. Mag.*, ser. nov., 15(1): 6, 1998. Basionym: *Huernia penzigii* var. *schimperi*.
- Karimbolea mariensis* Meve & Liede, *Bradleya* 16: 10-13, ills., 1998. Typus: *Liede et Conrad* 2825 (K, MSUN, ULM).
- Stapelia johani-lavranii* Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 42-43, ills. (p. 47), 1998. Typus: *Halda* 9708416 (PR). [Repeated (without Latin and type) in *Cactaceae* etc. 8(3): 96-97, ills., 1998.]
- Tenaris bikitaensis* (Peckover) J. Victor & Nicholas, *South Afr. J. Bot.* 64(3): 207, 1998. Basionym: *Brachystelma bikitaense*.
- Tenaris christianeae* (Peckover) J. Victor & Nicholas, *South Afr. J. Bot.* 64(3): 207, 1998. Basionym: *Brachystelma christianeae*.

ASPHODELACEAE

- Bulbine bruynsii* S. A. Hammer, *Cactus & Co.* 2(4): 6-7, ills., 1998. Typus: *Bruyns* 6126 (BOL).

ASTERACEAE

- Othonna herrei* ssp. *armiana* (van Jaarsveld) Halda, *Cactaceae* etc. 8(1): 4, ills., 1998. Basionym: *Othonna armiana*.

CACTACEAE

- Acanthocalycium thionanthum* var. *munitum* (Rausch) J. G. Lambert, *Cact. Argentine*, ed. 2, 16, 1998. *Nom. inval.* (Art. 34.1a), based on *Lobivia thionantha* var. *munita*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 14, 1993 (cf. RPS 44).]
- Acharagma* (N. P. Taylor) Glass, *Gufa Ident. Cact. Amenaz. Mex. Vol. 1, [AC/AG]*, 1997. Basionym: *Escobaria* Sect. *Acharagma*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init. No. 5*: 6, 1998.]
- Acharagma aguirreana* (Glass & Foster) Glass,

- Guía Ident. Cact. Amenaz. Mex. Vol. 1, [AC/AG], 1997. Basionym: *Gymnocactus aguirreanus*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Aporocactus xmoennighoffii* (Fischer) McMillan, Brit. Cact. Succ. J. 16(4): 205, ill., 1998. Basionym: *Cereus xmoennighoffii*. [= *Aporocactus flagelliformis* × *A. martianus*.]
- Ariocarpus* Sect. *Encephalocarpus* (A. Berger) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 38, 1998. Basionym: *Encephalocarpus*.
- Ariocarpus* Sect. *Pelecyphora* (Ehrenberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 38, 1998. Basionym: *Pelecyphora*.
- Ariocarpus* Subgen. *Obregonia* (Fric) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 37, 1998. Basionym: *Obregonia*.
- Ariocarpus* Subgen. *Pelecyphora* (Ehrenberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 37, 1998. Basionym: *Pelecyphora*.
- Ariocarpus* Subgen. *Strombocactus* (Britton & Rose) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 37, 1998. Basionym: *Strombocactus*.
- Ariocarpus bravoanus* ssp. *hintonii* (Stuppy & N. P. Taylor) E. F. Anderson & Fitz Maurice, Haseltonia 5: 10-11, 1998. Basionym: *Ariocarpus fissuratus* var. *hintonii*. [Vol. for 1997, publ. March 1998.]
- Ariocarpus disciformis* ssp. *jarmilae* (Halda) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 37, 1998. Basionym: *Strombocactus jarmilae*.
- Ariocarpus elongatus* ssp. *horacekii* (Halda) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 36, 1998. Basionym: *Ariocarpus trigonus* var. *horacekii*.
- Ariocarpus fissuratus* ssp. *hintonii* (Stuppy & N. P. Taylor) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 36, 1998. Basionym: *Ariocarpus fissuratus* var. *hintonii*.
- Ariocarpus kotschoubeyanus* ssp. *agavoides* (Castañeda) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 35, 1998. Basionym: *Neogomesia agavoides*.
- Ariocarpus kotschoubeyanus* ssp. *albiflorus* (Backeberg) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [AR/KO ssp. *albiflorus*], 1997. Basionym: *Roseocactus kotschoubeyanus* var. *albiflorus*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998. Basionym erroneously given as *Ariocarpus*; treated as bibliographical error and here corrected.]
- Ariocarpus kotschoubeyanus* ssp. *bravoanus* (H. M. Hernández & E. F. Anderson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 35, 1998. Basionym: *Ariocarpus bravoanus*.
- Ariocarpus kotschoubeyanus* ssp. *tulensis* Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 35, 1998. Typus: Not typified. *Nom. illeg.* (Art. 52.1). [*Nom. nov. pro Roseocactus kotschoubeyanus* var. *albiflorus* Backeberg 1951. Illegitimate versus *Ariocarpus kotschoubeyanus* ssp. *albiflorus* (Backeberg) Glass 1997 (or early 1998).]
- Ariocarpus kotschoubeyanus* var. *albiflorus* (Backeberg) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [AR/KO ssp. *albiflorus*], 1997. Basionym: *Roseocactus kotschoubeyanus* var. *albiflorus*. [Ascribed to Backeberg, but Backeberg published the taxon as *Roseocactus* in 1951.]
- Ariocarpus pulcherrimus* (Halda) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 37, 1998. Basionym: *Strombocactus pulcherrimus*.
- Ariocarpus retusus* ssp. *horacekii* Halda & Panarotto, Acta Mus. Richnov. Sect. Nat. 5(4): 163, 1998. Typus: Halda 8511035 (PR). [Sphalm. 'horaceki'.]
- Ariocarpus retusus* ssp. *jarmilae* Halda & al., Acta Mus. Richnov. Sect. Nat. 5(4): 162, 1998. Typus: Halda 8511038 (PR).
- Ariocarpus retusus* ssp. *panarottoi* Halda & Horacek, Acta Mus. Richnov. Sect. Nat. 5(4): 163, 1998. Typus: Panarotto 851028 (PR).
- Ariocarpus retusus* ssp. *trigonus* (F. A. C. Weber) E. F. Anderson & Fitz Maurice, Haseltonia 5: 18, 1998. Basionym: *Anhalonium trigonum*. [Vol. for 1997, publ. March 1998.]
- Ariocarpus scapharostrus* var. *swobodae* Halda & al., Acta Mus. Richnov. Sect. Nat. 5(4): 163, 1998. Typus: Swoboda 85110608 (PR).
- Armatocereus mataranus* ssp. *ancashensis* (F. Ritter) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Armatocereus mataranus* var. *ancashensis*.
- Armatocereus rauhii* ssp. *balsasensis* (F. Ritter) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Armatocereus balsasensis*.
- Bravocactinae* Doweld, Succulents (Moscow) 1: 19, 1998. Typus: *Bravocactus* Doweld.
- Bravocactus* Doweld, Succulents (Moscow) 1: 22, 1998. Typus: *Mammillaria horripila* Lemaire.
- Bravocactus horripilus* (Lemaire) Doweld, Succulents (Moscow) 1: 22, 1998. Basionym: *Mammillaria horripila*.
- Cereus hildmannianus* ssp. *uruguayanus* (R. Kiesling) N. P. Taylor, Cact. Consensus Init. No. 6: 15, 1998. Basionym: *Cereus uruguayanus*.
- Cleistocactus acanthurus* ssp. *faustianus* (Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Borzicactus faustianus*.
- Cleistocactus acanthurus* ssp. *pullatus* (Rauh & Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Loxanthocereus pullatus*.
- Cleistocactus baumannii* ssp. *horstii* (P. J. Braun) N. P. Taylor, Cact. Consensus Init. No. 6: 15, 1998. Basionym: *Cleistocactus horstii*.
- Cleistocactus clavispinus* (Rauh & Backeberg) Ostolaza, Brit. Cact. Succ. J. 16(3): 133, 1998. Basionym: *Loxanthocereus clavispinus*.
- Cleistocactus fieldianus* ssp. *samnensis* (F. Ritter) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Borzicactus samnensis*.
- Cleistocactus fieldianus* ssp. *tessellatus* (Akers & Buining) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Borzicactus tessellatus*.
- Cleistocactus hystrix* (Rauh & Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Borzicactus hystrix*.

- laza, Brit. Cact. Succ. J. 16(3): 133, ill. (p. 135), 1998. Basionym: *Loxanthocereus hystrix*.
- Cleistocactus pachycladus* (Rauh & Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Loxanthocereus pachycladus*.
- Cleistocactus peculiaris* (Rauh & Backeberg) Ostolaza, Brit. Cact. Succ. J. 16(3): 129, ill. (p. 130), 1998. Basionym: *Loxanthocereus peculiaris*.
- Copiapoa calderana* ssp. *longistaminea* (F. Ritter) N. P. Taylor, Cact. Consensus Init. No. 6: 15, 1998. Basionym: *Copiapoa longistaminea*.
- Copiapoa cinerea* var. *krainziana* (F. Ritter) G. J. Charles, Brit. Cact. Succ. J. 16(1): 15, 1998. Basionym: *Copiapoa krainziana*. [Name first used, but without proper combination, by Slaba, Kaktusy 33(Speciál): 3, 1997.]
- Copiapoa humilis* var. *tenuissima* (F. Ritter) G. J. Charles, Brit. Cact. Succ. J. 16(1): 15, 1998. *Nom. inval.*, based on *Copiapoa tenuissima*, *nom. inval.* (Art. 37.1).
- Copiapoa humilis* var. *tocopillana* (F. Ritter) G. J. Charles, Brit. Cact. Succ. J. 16(1): 15, 1998. Basionym: *Copiapoa tocopillana*.
- Copiapoa hypogaea* var. *montana* (F. Ritter) G. J. Charles, Brit. Cact. Succ. J. 16(1): 15, 1998. Basionym: *Copiapoa montana*.
- Copiapoa knizei* (Kníže & Ríha) Halda, Cactaceae etc. 8(4): 134, ills., 1998. Basionym: *Cintia knizei*.
- Corryocactus brevistylus* ssp. *puquiensis* (Rauh & Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 8, 1998. Basionym: *Corryocactus puquiensis*.
- Coryphantha hintoniorum* Dicht & A. Lüthy, Kakt. and. Sukk. 50(1): 14-16, ills. (pp. 13, 17), 1998. Typus: *Hinton et al.* 27111 (Herb. G. B. Hinton). [Dated Jan. 1999, publ. 28. Dec. 1998.]
- Coryphantha macromeris* ssp. *runyonii* (Britton & Rose) N. P. Taylor, Cact. Consensus Init. No. 6: 15, 1998. Basionym: *Coryphantha runyonii*.
- Coryphantha macrothele* (Martius ex Pfeiffer) Kümmler, Mitteilungsbl. AfM 22(2): 109, 1998. Basionym: *Mammillaria macrothele*.
- Coryphantha robustispina* ssp. *scheeri* (Lemaire) N. P. Taylor, Cact. Consensus Init. No. 6: 18, 1998. Basionym: *Coryphantha scheeri*.
- Coryphantha robustispina* ssp. *uncinata* (L. Benson) N. P. Taylor, Cact. Consensus Init. No. 6: 18, 1998. Basionym: *Coryphantha scheeri* var. *uncinata*.
- Coryphantha salinensis* (Poselger) Dicht & A. Lüthy, Kakt. and. Sukk. 49(11): 257, 1998. Basionym: *Echinocactus salinensis*. [First published invalidly (Art. 34.1a, cf. RPS 42) by Bravo, Cact. Mexico 3: 461, 1991. Repeated in J. Mammillaria Soc. 39(1): 5, 1999.]
- Discocactus heptacanthus* var. *riomortensis* P. J. Braun & E. Esteves P., Succulenta 77(4): 181-184, ills., 1998. *Nom. inval.* (Art. 34.1b). [Published as provisional name.]
- Discocactus squambaccatus* var. *longiflorus* P. J. Braun, Succulenta 77(6): 270-271, ill., 1998. Based on *Horst et Uebelmann* HU 643(1985). *Nom. inval.* (Art. 34.1b). [Published as provisional name.]
- Echinocactus horizontalonius* var. *subikii* Stanfk & Dráb, Cactaceae etc. 8(1): 8-9, ills., 1998. Typus: *Staník et Drab* 861131 (PR). [Sphalm. 'subiki'].
- Echinocactus polycephalus* ssp. *xeranthemoides* (J. M. Coulter) N. P. Taylor, Cact. Consensus Init. No. 5: 12, 1998. Basionym: *Echinocactus polycephalus* var. *xeranthemoides*.
- Echinocereus* Subgen. *Morangaya* (G. D. Rowley) Mich. Lange, in W. Blum & al., *Echinocereus* [preprint], [1], 1998. Basionym: *Morangaya*. [Repeated in W. Blum & al., *Echinocereus*, 46, 1998.]
- Echinocereus* Subgen. *Triglochidiati* (Bravo) W. Blum & al., *Echinocereus* [preprint], [1], 1998. Basionym: *Echinocereus* Sect. *Triglochidiati*. [Repeated in W. Blum & al., *Echinocereus*, 353, 1998.]
- Echinocereus acifer* ssp. *tubiflorus* Rischer, in W. Blum & al., *Echinocereus* [preprint], [1], 1998. Typus: *Rischer* 17 (ZSS) [Ex cult. W. Rischer.]. [Repeated in W. Blum & al., *Echinocereus*, 404, 1998.]
- Echinocereus adustus* ssp. *bonatzii* (R. C. Römer) N. P. Taylor, Cact. Consensus Init. No. 6: 15, 1998. Basionym: *Echinocereus bonatzii*.
- Echinocereus apachensis* W. Blum & Rutow, in W. Blum & al., *Echinocereus* [preprint], [1], 1998. Typus: *McKelvey* 735 (US 1532949). [Repeated in W. Blum & al., *Echinocereus*, 101, 1998.]
- Echinocereus arizonicus* ssp. *nigrihorridispinus* W. Blum & Rutow, in W. Blum & al., *Echinocereus* [preprint], [2], 1998. Typus: *Kuenzler* 1054 (ZSS) [Ex cult. W. Rischer.]. [Repeated in W. Blum & al., *Echinocereus*, 365, 1998.]
- Echinocereus bristolii* ssp. *floresii* (Backeberg) W. Blum & Mich. Lange, in W. Blum & al., *Echinocereus* [preprint], [2], 1998. Basionym: *Echinocereus floresii*. [Repeated in W. Blum & al., *Echinocereus*, 348, 1998.]
- Echinocereus carmenensis* W. Blum & al., *Echinocereus* [preprint], [2], 1998. Typus: *Brack* 1476 (ZSS) [Ex cult. W. Rischer.]. [Repeated in W. Blum & al., *Echinocereus*, 221, 1998.]
- Echinocereus chloranthus* ssp. *cylindricus* (Engelmann) W. Blum & Mich. Lange, *Echinocereus* [preprint], [2], 1998. Basionym: *Cereus viridiflorus* var. *cylindricus*. [Repeated in W. Blum & al., *Echinocereus*, 205, 1998. First published as a provisional name by Fürsch in *Kakt. and. Sukk.* 44(7): 137, 1993 (cf. RPS 44).]
- Echinocereus chloranthus* ssp. *rhyolithensis* W. Blum & Mich. Lange, in W. Blum & al., *Echinocereus* [preprint], [3], 1998. Typus: *Piers* 110 (NM). [Repeated in W. Blum & al., *Echinocereus*, 208, 1998.]
- Echinocereus cinerascens* ssp. *ehrenbergii* (Pfeiffer) W. Blum & Rutow, in W. Blum & al.,

- Echinocereus* [preprint], [3], 1998. Basionym: *Cereus ehrenbergii*. [Repeated in W. Blum & al., *Echinocereus*, 141, 1998.]
- Echinocereus coccineus* ssp. *aggregatus* (Engelmann ex B. D. Jackson) W. Blum & al., *Echinocereus* [preprint], [3], 1998. Basionym: *Mammillaria aggregata*. [Repeated in W. Blum & al., *Echinocereus*, 423, 1998. Based on *Mammillaria aggregata* Engelmann ex S. Watson, *Bibl. Ind. North Amer. Bot.*, 398, 1878, which is treated as bibliographical error.]
- Echinocereus coccineus* ssp. *paucispinus* (Engelmann) W. Blum & al., *Echinocereus* [preprint], [3], 1998. Basionym: *Cereus paucispinus*. [Repeated in W. Blum & al., *Echinocereus*, 430, 1998.]
- Echinocereus coccineus* ssp. *roemerii* (Mühlenpfordt) W. Blum & al., *Echinocereus* [preprint], [3], 1998. Basionym: *Cereus roemerii*. [Repeated in W. Blum & al., *Echinocereus*, 428, 1998.]
- Echinocereus coccineus* ssp. *rosei* (Wooton & Standley) W. Blum & Rutow, in W. Blum & al., *Echinocereus* [preprint], [3], 1998. Basionym: *Echinocereus rosei*. [Repeated in W. Blum & al., *Echinocereus*, 421, 1998.]
- Echinocereus dasyacanthus* ssp. *rectispinus* (Trocha & Fethke) W. Blum & al., *Echinocereus* [preprint], [4], 1998. Basionym: *Echinocereus dasyacanthus* var. *rectispinus*. [Repeated in W. Blum & al., *Echinocereus*, 118, 1998.]
- Echinocereus engelmannii* ssp. *decumbens* (Clover & Jotter) W. Blum & Mich. Lange, in W. Blum & al., *Echinocereus* [preprint], [4], 1998. Basionym: *Echinocereus decumbens*. [Repeated in W. Blum & al., *Echinocereus*, 77, 1998.]
- Echinocereus engelmannii* ssp. *fasciculatus* (Engelmann ex Watson) W. Blum & Mich. Lange, in W. Blum & al., *Echinocereus* [preprint], [4], 1998. [Repeated in W. Blum & al., *Echinocereus*, 79, 1998. Based on *Mammillaria fasciculata* Engelmann ex Watson, *Bibl. Index North Amer. Bot.*, 402, 1878. PLEASE CHECK VALIDITY, basionym otherwise often treated as nom. prov. from 1848.]
- Echinocereus fendleri* ssp. *hempelii* (Fobe) W. Blum, in W. Blum & al., *Echinocereus* [preprint], [4], 1998. Basionym: *Echinocereus hempelii*. [Repeated in W. Blum & al., *Echinocereus*, 93, 1998.]
- Echinocereus fitchii* ssp. *albertii* (L. Benson) W. Blum & Mich. Lange, *Echinocereus* [preprint], [5], 1998. Basionym: *Echinocereus reichenbachii* var. *albertii*. [Repeated in W. Blum & al., *Echinocereus*, 309, 1998.]
- Echinocereus fitchii* ssp. *armatus* (Poselger) W. Blum & al., *Echinocereus* [preprint], [5], 1998. Basionym: *Cereus pectinatus* var. *armatus*. [Repeated in W. Blum & al., *Echinocereus*, 310, 1998.]
- Echinocereus fobeanus* ssp. *metornii* (G. R. W. Frank) W. Blum & Mich. Lange, *Echinocereus* [preprint], [5], 1998. Basionym: *Echinocereus metornii*. [Repeated in W. Blum & al., *Echinocereus*, 303, 1998.]
- Echinocereus klapperi* W. Blum, *Echinocereus* [preprint], [5], 1998. Typus: *Klapper* 121 (ZSS) [Ex cult. W. Rischer.]. [Repeated in W. Blum & al., *Echinocereus*, 376, 1998.]
- Echinocereus knippelianus* ssp. *kruegeri* (Glass & Foster) Glass & Foster, *Guía Ident. Cact. Amenaz. Mex. Vol. 1*, [ECHINOCE/KN ssp. *kruegeri*], 1997. Basionym: *Echinocereus knippelianus* var. *kruegeri*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init. No. 5*: 6, 1998. Repeated by W. Blum & Mich. Lange, *Echinocereus* [preprint], [5], 1998.]
- Echinocereus knippelianus* ssp. *reyesii* (A. B. Lau) W. Blum & Mich. Lange, *Echinocereus* [preprint], [6], 1998. Basionym: *Echinocereus knippelianus* var. *reyesii*. [Repeated in W. Blum & al., *Echinocereus*, 248, 1998.]
- Echinocereus longisetus* ssp. *freudenbergeri* (G. R. W. Frank) W. Blum, *Echinocereus* [preprint], [6], 1998. Basionym: *Echinocereus freudenbergeri*. [Repeated in W. Blum & al., *Echinocereus*, 187, 1998.]
- Echinocereus mapimiensis* E. F. Anderson & al., *Cact. Succ. J. (US)* 70(6): 284-285, *ills.*, 1998. Typus: *Keil et McGill* 8136 (DES).
- Echinocereus maritimus* ssp. *hancockii* (E. Y. Dawson) W. Blum & Rutow, *Echinocereus* [preprint], [6], 1998. Basionym: *Echinocereus hancockii*. [Repeated in W. Blum & al., *Echinocereus*, 57, 1998.]
- Echinocereus neocapillus* (Weniger) W. Blum & Mich. Lange, *Echinocereus* [preprint], [6], 1998. Basionym: *Echinocereus chloranthus* var. *neocapillus*. [Repeated in W. Blum & al., *Echinocereus*, 219, 1998.]
- Echinocereus pacificus* ssp. *mombergerianus* (G. R. W. Frank) W. Blum & al., *Echinocereus* [preprint], [6], 1998. Basionym: *Echinocereus mombergerianus*. [Repeated in W. Blum & al., *Echinocereus*, 413, 1998.]
- Echinocereus parkeri* fa. *arteagensis* (W. Blum & Mich. Lange) G. R. W. Frank & E. Scherer, *Echinocereenfreund* 11(Sonderausgabe 1998): 61, 1998. *Nom. inval.* (Art. 33.2), based on *Echinocereus parkeri* ssp. *arteagensis*.
- Echinocereus parkeri* ssp. *arteagensis* W. Blum & Mich. Lange, *Echinocereus* [preprint], [7], 1998. Typus: *Guzmán* s.n. in *Sánchez Mejorada* 3807 (MEXU). [Repeated in W. Blum & al., *Echinocereus*, 175, 1998.]
- Echinocereus parkeri* ssp. *mazapilensis* W. Blum & Mich. Lange, *Echinocereus* [preprint], [6-7], 1998. Typus: *Sánchez Mejorada et al.* 4041 (MEXU). [Repeated in W. Blum & al., *Echinocereus*, 173, 1998.]
- Echinocereus pectinatus* ssp. *wenigeri* (L. Benson) W. Blum & Rutow, *Echinocereus* [preprint], [7], 1998. Basionym: *Echinocereus pectinatus* var. *wenigeri*. [Repeated in W. Blum & al., *Echinocereus*, 111, 1998.]
- Echinocereus pentalophus* ssp. *procumbens* (Engelmann) W. Blum & Mich. Lange, *Echinocereus* [preprint], [7], 1998. Basionym: *Cereus*

- procumbens*. [Repeated in W. Blum & al., *Echinocereus*, 129, 1998.]
- Echinocereus pulchellus* ssp. *acanthosetus* (S. Arias & L. U. Guzmán) W. Blum, *Echinocereus* [preprint], [8] (3. April), 1998. Basionym: *Echinocereus pulchellus* var. *acanthosetus*. [Repeated in W. Blum & al., *Echinocereus*, 259, 1998 (rec. 20. 10. 1998) and by N. P. Taylor, *Cact. Consensus Init. No. 5*: 12, 1998 (rec. 30. 10. 1998)]
- Echinocereus pulchellus* ssp. *venustus* W. Blum & Rischer, *Echinocereus* [preprint], [7], 1998. Typus: *Lau* 1036 (ZSS) [Ex cult. W. Rischer.]. [Repeated in W. Blum & al., *Echinocereus*, 255, 1998.]
- Echinocereus reichenbachii* ssp. *caespitosus* (Engelmann) W. Blum & Mich. Lange, *Echinocereus* [preprint], [8], 1998. Basionym: *Cereus caespitosus*. [Repeated in W. Blum & al., *Echinocereus*, 320, 1998.]
- Echinocereus rusanthus* ssp. *fiehnii* (Trocha) W. Blum & Mich. Lange, *Echinocereus* [preprint], [8], 1998. Basionym: *Echinocereus rusanthus* var. *fiehnii*. [Repeated in W. Blum & al., *Echinocereus*, 213, 1998.]
- Echinocereus rusanthus* ssp. *weedinii* Leuck ex W. Blum & Mich. Lange, *Echinocereus* [preprint], [8], 1998. Typus: *Weedin* 913 (OKL). [Repeated in W. Blum & al., *Echinocereus*, 216, 1998.]
- Echinocereus salm-dyckianus* ssp. *bacanorensis* Rischer & Trocha, *Echinocereenfreund* 11(1): 3-10, ills., (2): 31, 1998. Typus: *Trocha* s.n. (ZSS).
- Echinocereus santaritensis* W. Blum & Rutow, *Echinocereus* [preprint], [9], 1998. Based on *Rutow* 52. *Nom. inval.* (Art. 37.5?). [Repeated in W. Blum & al., *Echinocereus*, 369, 1998. Since 'UA' is not recorded in the published Index Herbariorum, the nape appears to be invalid under Art. 37.5.]
- Echinocereus scheeri* ssp. *paridensis* Rischer & Trocha, *Echinocereenfreund* 11(3): 58-65, ills., SEM-ill., 1998. Typus: *Rischer* 1992/312 (ZSS).
- Echinocereus scopulorum* ssp. *pseudopectinatus* (N. P. Taylor) W. Blum & Mich. Lange, *Echinocereus* [preprint], [9], 1998. Basionym: *Echinocereus bristolii* var. *pseudopectinatus*. [Repeated in W. Blum & al., *Echinocereus*, 337, 1998.]
- Echinocereus triglochidiatus* fa. *inermis* (K. Schumann) D. J. Ferguson ex W. Blum, *Echinocereus* [preprint], [9], 1998. Basionym: *Echinocereus phoeniceus* var. *inermis*. [Repeated in W. Blum & al., *Echinocereus*, 360, 1998. First published invalidly (Art. 33.2) by D. J. Ferguson, *Cact. Succ. J. (US)* 61(5): 219, 1989 (cf. RPS 40).]
- Echinocereus triglochidiatus* ssp. *mojavensis* (Engelmann & Bigelow) W. Blum & Mich. Lange, *Echinocereus* [preprint], [9], 1998. Basionym: *Cereus mojavensis*. [Repeated in W. Blum & al., *Echinocereus*, 357, 1998.]
- Echinocereus viereckii* ssp. *huastecensis* W. Blum & al., *Echinocereus* [preprint], [9-10], 1998. Typus: *Taylor* 192 (K). [Repeated in W. Blum & al., *Echinocereus*, 157, 1998.]
- Echinocereus viridiflorus* ssp. *correllii* (L. Benson) W. Blum & Mich. Lange, *Echinocereus* [preprint], [10], 1998. Basionym: *Echinocereus viridiflorus* var. *correllii*. [Repeated in W. Blum & al., *Echinocereus*, 198, 1998.]
- Echinomastus unguispinus* ssp. *laui* (G. Frank & Zecher) Glass, *Gufa Ident. Cact. Amenaz. Mex. Vol. 1*, [ECHINOM/UN ssp. *laui*], 1997. Basionym: *Echinocereus laui*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init. No. 5*: 6, 1998.]
- Echinopsis densispina* var. *amblayensis* (Rausch) J. G. Lambert, *Cact. Argentine*, ed. 2, 50, 1998. Basionym: *Lobivia amblayensis*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 44, 1993 (cf. RPS 44).]
- Echinopsis densispina* var. *pectinifera* (Wessner) J. G. Lambert, *Cact. Argentine*, ed. 2, 51, 1998. Basionym: *Lobivia pectinifera*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 45, 1993 (cf. RPS 44).]
- Echinopsis dobeana* (Döhl) J. G. Lambert, *Cact. Argentine*, ed. 2, 51, 1998. Basionym: *Lobivia dobeana*.
- Echinopsis fallax* var. *cylindrica* (Backeberg) J. G. Lambert, *Cact. Argentine*, ed. 2, 55, 1998. Basionym: *Lobivia cylindrica*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 47, 1993 (cf. RPS 44).]
- Echinopsis haematantha* var. *chorrillosensis* (Rausch) J. G. Lambert, *Cact. Argentine*, ed. 2, 57, 1998. Basionym: *Lobivia chorrillosensis*.
- Echinopsis haematantha* var. *elongata* (Backeberg) J. G. Lambert, *Cact. Argentine*, ed. 2, 57, 1998. Basionym: *Lobivia elongata*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 49, 1993 (cf. RPS 44).]
- Echinopsis haematantha* var. *hualfinensis* (Rausch) J. G. Lambert, *Cact. Argentine*, ed. 2, 57, 1998. Basionym: *Lobivia hualfinensis*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 49, 1993 (cf. RPS 44).]
- Echinopsis haematantha* var. *jasimanensis* (Rausch) J. G. Lambert, *Cact. Argentine*, ed. 2, 57, 1998. Basionym: *Lobivia haematantha* var. *jasimanensis*.
- Echinopsis haematantha* var. *kuehnrichii* (Fric) J. G. Lambert, *Cact. Argentine*, ed. 2, 59, 1998. Basionym: *Lobivia kuehnrichii*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 49, 1993 (cf. RPS 44).]
- Echinopsis peruviana* ssp. *puquiensis* (Rauh & Backeberg) Ostolaza, *Cact. Consensus Init. No. 6*: 8, 1998. Basionym: *Trichocereus puquiensis*.
- Echinopsis saltensis* var. *nealeana* (Backeberg) J. G. Lambert, *Cact. Argentine*, ed. 2, 65, 1998. Basionym: *Lobivia nealeana*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 55, 1993 (cf. RPS 44).]
- Echinopsis saltensis* var. *pseudocachensis* (Backeberg) J. G. Lambert, *Cact. Argentine*, ed. 2,

- 66, 1998. Basionym: *Lobivia pseudocachensis*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 56, 1993 (cf. RPS 44).]
- Echinopsis stilowiana* (Backeberg) J. G. Lambert, *Cact. Argentine*, ed. 2, 70, 1998. Basionym: *Lobivia stilowiana*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 59, 1993 (cf. RPS 44).]
- Epithelantha micromeris* ssp. *greggii* (Engelmann) N. P. Taylor, *Cact. Consensus Init.* No. 5: 12, 1998. Basionym: *Mammillaria micromeris* var. *greggii*.
- Epithelantha micromeris* ssp. *pachyrhiza* (W. T. Marshall) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Epithelantha micromeris* var. *pachyrhiza*.
- Epithelantha micromeris* ssp. *polycephala* (Backeberg) Glass, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [EP/MI ssp. *polycephala*], 1997. Basionym: *Epithelantha polycephala*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init.* No. 5: 6, 1998.]
- Epithelantha micromeris* ssp. *unguispina* (Bödeker) N. P. Taylor, *Cact. Consensus Init.* No. 5: 12, 1998. Basionym: *Mammillaria micromeris* var. *unguispina*.
- Eriosyce omasensis* (Ostolaza & T. Mischler) Ostolaza, *Cact. Consensus Init.* No. 6: 8, 1998. Basionym: *Islaya omasensis*.
- Escobaria chihuahuensis* ssp. *henricksonii* (Glass & Foster) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Escobaria henricksonii*.
- Escobaria dasyacantha* ssp. *chaffeyi* (Britton & Rose) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Escobaria chaffeyi*.
- Escobaria missouriensis* ssp. *asperispina* (Bödeker) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Coryphantha asperispina*.
- Ferocactus alamosanus* ssp. *reppenhausenii* (G. Unger) N. P. Taylor, *Cact. Consensus Init.* No. 6: 15, 1998. Basionym: *Ferocactus reppenhausenii*.
- Ferocactus chrysacanthus* ssp. *grandiflorus* (G. E. Lindsay) N. P. Taylor, *Cact. Consensus Init.* No. 6: 15, 1998. Basionym: *Ferocactus fordii* var. *grandiflorus*.
- Ferocactus cylindraceus* ssp. *lecontei* (Engelmann) N. P. Taylor, *Cact. Consensus Init.* No. 6: 16, 1998. Basionym: *Echinocactus lecontei*.
- Ferocactus cylindraceus* ssp. *tortulispinus* (H. E. Gates) N. P. Taylor, *Cact. Consensus Init.* No. 6: 16, 1998. Basionym: *Ferocactus tortulispinus*.
- Ferocactus emoryi* ssp. *rectispinus* (Engelmann) N. P. Taylor, *Cact. Consensus Init.* No. 6: 16, 1998. Basionym: *Echinocactus emoryi* var. *rectispinus*.
- Ferocactus gracilis* ssp. *coloratus* (H. E. Gates) N. P. Taylor, *Cact. Consensus Init.* No. 6: 16, 1998. Basionym: *Ferocactus coloratus*.
- Ferocactus hamatacanthus* ssp. *sinuatus* (A. Dietrich) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Echinocactus sinuatus*.
- Ferocactus latispinus* ssp. *spiralis* (Karwinski ex Pfeiffer) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Echinocactus spiralis*.
- Ferocactus macrodiscus* ssp. *septentrionalis* (J. Meyrán) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Ferocactus macrodiscus* var. *septentrionalis*.
- Frailea pygmaea* ssp. *albicolumnaris* (F. Ritter) Hofacker, *Cact. Consensus Init.* No. 6: 11, 1998. Basionym: *Frailea albicolumnaris*.
- Griseocereus* (P. V. Heath) P. V. Heath, *Calyx* 6(1): 1, 1998. Basionym: *Stenocereus* Subgen. *Griseocereus*.
- ×*Grisulatocereus* P. V. Heath, *Calyx* 6(1): 1, 1998. [= *Griseocereus* × *Insulatocereus*. Spelling of the second parent's name in dispute (vs. *Isolatocereus*).]
- Gymnocalycium angelae* Meregalli, *Kakt. and. Sukk.* 49(12): 287-289, ills. (pp. 283-284), 1998. Typus: *Kiesling* s.n. (TO HG2705) [Ex cult. Meregalli].
- Gymnocalycium nigriareolatum* fa. *carmineum* H. Till, *Gymnocalycium* 11(3): 254-255, ills., 1998. Typus: *Amerhauser* 255-2 (BA, WU).
- Gymnocalycium nigriareolatum* var. *densispinum* Backeberg ex H. Till, *Gymnocalycium* 11(3): 255-256, ills., 1998. Typus: *Fechser* s.n. (BA, WU). [First published invalidly (Art. 32.1c, 36.1) by Backeberg, *Kat. 10 Jahre Kakt.-Forsch.*, 16, 1937, and repeated by Backeberg in *Die Cact.* 3: 1759, 1959 (erroneously included as valid in RPS 10).]
- Gymnocalycium nigriareolatum* var. *simoi* H. Till, *Gymnocalycium* 11(3): 258, ills. (p. 256), 1998. Typus: *Borth* 126 (BA, WU).
- Gymnocalycium* ×*pazoutianum* Halda, *Acta Mus. Richnov. Sect. Nat.* 5(4): 164, 1998. Typus: *Herb. Halda* 9806003. [= *Gymnocalycium denudatum* × *G. baldianum*. Long-cultivated and known as 'red-flowering *G. denudatum* 'Jan Suba'.]
- Gymnocalycium pflanzii* ssp. *dorisiae* Amerhauser, *Gymnocalycium* 11(4): 267-268, ills., 1998. Typus: *Amerhauser* 95-1004-2 (LPB, WU).
- Gymnocalycium sanluisense* Sorma, *Gymnofil* 27(1-2): 2-3, ills., 1998. *Sorma* 1 (). [Published as provisional name.]
- Haageocereus acranthus* ssp. *olowinskianus* (Backeberg) Ostolaza, *Cact. Consensus Init.* No. 6: 8, 1998. Basionym: *Haageocereus olowinskianus*.
- Haageocereus pseudomelanostele* ssp. *aureispinus* (Rauh & Backeberg) Ostolaza, *Cact. Consensus Init.* No. 6: 9, 1998. Basionym: *Haageocereus aureispinus*.
- Haageocereus pseudomelanostele* ssp. *carminiflorus* (Rauh & Backeberg) Ostolaza, *Cact. Consensus Init.* No. 6: 9, 1998. Basionym: *Haageocereus pseudomelanostele* var. *carminiflorus*.

- Haageocereus pseudomelanostele ssp. turbidus** (Rauh & Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 9, 1998. Basionym: *Haageocereus turbidus*.
- Haageocereus pseudomelanostele var. turbidus** (Rauh & Backeberg) Ostolaza, Brit. Cact. Succ. J. 16(3): 132, 1998. Basionym: *Haageocereus turbidus*.
- Hamatocactus uncinatus ssp. crassihamatus** (F. A. C. Weber) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [HA/UN ssp. crassihamatus], 1997. Basionym: *Echinocactus crassihamatus*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Kadencarpus Doweld, Succulents (Moscow) 1: 22, 1998.** Typus: *Strombocactus pseudomacrochele* Backeberg.
- Kadencarpus pseudomacrochele** (Backeberg) Doweld, Succulents (Moscow) 1: 22, 1998. Basionym: *Strombocactus pseudomacrochele*.
- Kadencarpus pseudomacrochele var. lausseri** (Diers & G. Frank) Doweld, Succulents (Moscow) 1: 22, 1998. Basionym: *Turbincarpus pseudomacrochele var. lausseri*.
- Kadencarpus pseudomacrochele var. sphacelatus** (Diers & G. Frank) Doweld, Succulents (Moscow) 1: 22, 1998. *Nom. inval.*, based on *Turbincarpus pseudomacrochele var. sphacelatus, nom. inval.* (Art. 37.3).
- Lophophora viridescens** (Halda) Halda, Acta Mus. Richnov. Sect. Nat. 4(2): 71, 1997. Basionym: *Lophophora diffusa* ssp. *viridescens*. [Omitted previously.]
- Maihueniopsis** Subgen. *Austrocyllindropuntia* (Backeberg) R. Kiesling, Tephrocactus Study Group 4(1): 238, 1998. Basionym: *Austrocyllindropuntia*. [English translation of a Spanish text submitted "with permission to publish it ... as a draft document" and thus probably invalid under Art. 34.1b.]
- Maihueniopsis cylindrica** (Lamarck) R. Kiesling, Tephrocactus Study Group 4(1): 238, 1998. Basionym: *Cactus cylindricus*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis exaltata** (A. Berger) R. Kiesling, Tephrocactus Study Group 4(1): 238, 1998. Basionym: *Opuntia exaltata*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis floccosa** (Salm-Dyck) R. Kiesling, Tephrocactus Study Group 4(1): 239, 1998. Basionym: *Opuntia floccosa*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*. It is here treated as bibliographical error and corrected.]
- Maihueniopsis lagopus** (K. Schumann) R. Kiesling, Tephrocactus Study Group 4(1): 239, 1998. Basionym: *Opuntia lagopus*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis miquelii** (Monville) R. Kiesling, Tephrocactus Study Group 4(1): 239, 1998. Basionym: *Opuntia miquelii*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis pachypus** (K. Schumann) R. Kiesling, Tephrocactus Study Group 4(1): 239, 1998. Basionym: *Opuntia pachypus*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis shaferi** (Britton & Rose) R. Kiesling, Tephrocactus Study Group 4(1): 240, 1998. Basionym: *Opuntia shaferi*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis shaferi var. humahuacana** (Backeberg) R. Kiesling, Tephrocactus Study Group 4(1): 240, 1998. Basionym: *Cylindropuntia humahuacana*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis subulata** (Mühlenpfordt) R. Kiesling, Tephrocactus Study Group 4(1): 240, 1998. Basionym: *Pereskia subulata*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis verschaffeltii** (Cesl ex F. A. C. Weber) R. Kiesling, Tephrocactus Study Group 4(1): 241, 1998. Basionym: *Opuntia verschaffeltii*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Maihueniopsis vestita** (Salm-Dyck) R. Kiesling, Tephrocactus Study Group 4(1): 241, 1998. Basionym: *Opuntia vestita*. [See comment for *Maihueniopsis* Subgen. *Austrocyllindropuntia*.]
- Mammillaria brandegeei** ssp. *lewisiana* (H. E. Gates) D. R. Hunt, Mammillaria Postscripts No. 7: 3, 1998. Basionym: *Mammillaria lewisiana*.
- Mammillaria coahuilensis** ssp. *albiarmata* (Bödeker) D. R. Hunt, Mammillaria Postscripts No. 7: 3, 1998. Basionym: *Mammillaria albiarmata*.
- Mammillaria crinita** fa. *zeilmanniana* (Bödeker) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [MA/CR f. *zeilmanniana*], 1998. Basionym: *Mammillaria zeilmanniana*.
- Mammillaria crinita ssp. scheinvariana** (R. Ortega & Glass) W. A. & B. Fitz Maurice, Cact. Succ. J. (US) 70(2): 94, ill. (pp. 91, 93), 1998. Basionym: *Mammillaria scheinvariana*.
- Mammillaria crucigera** var. *grandinosa* Linzen & al., Mitteilungsbl. AfM 21(4): 203-207, ill. (pp. 208, 210-211), 1998. Typus: *Otero* 223 (UNAM 1025). [Dated 1997, publ. Feb. 1998.]
- Mammillaria crucigera** var. *tlalocii* (Reppenhagen) Linzen & al., Mitteilungsbl. AfM 21(4): 202, 1998. Basionym: *Mammillaria tlalocii*. [Dated 1997, publ. Feb. 1998.]
- Mammillaria dioica** ssp. *angelensis* (R. T. Craig) D. R. Hunt, Mammillaria Postscripts No. 7: 3, 1998. Basionym: *Mammillaria angelensis*.
- Mammillaria dioica** ssp. *estebanensis* (G. E. Lindsay) D. R. Hunt, Mammillaria Postscripts No. 7: 3, 1998. Basionym: *Mammillaria estebanensis*.
- Mammillaria formosa** ssp. *chionocephala* (J. A. Purpus) D. R. Hunt, Mammillaria Postscripts

- No. 7: 3, 1998. Basionym: *Mammillaria chionocephala*.
- Mammillaria lasiacantha* ssp. *egregia* (Backeberg ex Rogozinski & Appenzeller) D. R. Hunt, *Mammillaria* Postscripts No. 7: 3, 1998. Basionym: *Mammillaria egregia*.
- Mammillaria luthieniae* Laferrière, J. *Mammillaria* Soc. 38(2): 18-19, ill., 1998. Typus: *Laferrière* 2328 (ARIZ, MEXU).
- Mammillaria mazatlanensis* ssp. *patonii* (Bravo) D. R. Hunt, *Mammillaria* Postscripts No. 7: 3, 1998. Basionym: *Neomammillaria patonii*.
- Mammillaria melilotiae* Laferrière, J. *Mammillaria* Soc. 38(2): 18-21, ill., 1998. Typus: *Laferrière* 2093 (ARIZ, MEXU).
- Mammillaria petrophila* ssp. *arida* (Rose ex Quehl) D. R. Hunt, *Mammillaria* Postscripts No. 7: 3, 1998. Basionym: *Mammillaria arida*.
- Mammillaria petrophila* ssp. *baxteriana* (H. E. Gates) D. R. Hunt, *Mammillaria* Postscripts No. 7: 3, 1998. Basionym: *Neomammillaria baxteriana*.
- Mammillaria saboae* ssp. *haudeana* (A. B. Lau & Wagner) D. R. Hunt, *Mammillaria* Postscripts No. 7: 3, 1998. Basionym: *Mammillaria haudeana*.
- Mammillaria scheinvariana* R. Ortega-Varela & Glass, *Gufa Ident. Cact. Amenaz. Mex. Vol. 1, [MA/SCHE 2 pp.]*, 1997. Typus: *Ortega-Varela et al. s.n. (CANTE 564)*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus* Init. No. 5: 6, 1998.]
- Mammillaria tinuvieliae* Laferrière, J. *Mammillaria* Soc. 38(2): 19, 21, ill., 1998. Typus: *Laferrière* 1443 (ARIZ, MEXU).
- Mammillaria volubilis* Laferrière, *Dandy Dime, March*: [], 1997. *Nom. inval.* (Art. 30.3). [Cited from D. R. Hunt, *Mammillaria* Postscripts No. 7: 9, 1998.]
- Neoraimondia arequipensis* ssp. *roseiflora* (Werdermann & Backeberg) Ostolaza, *Cact. Consensus* Init. No. 6: 9, 1998. Basionym: *Cereus macrostibas* var. *roseiflorus*.
- Neowerdermannia chilensis* var. *peruviana* (F. Ritter) Ostolaza, *Cact. Consensus* Init. No. 6: 9, 1998. Basionym: *Neowerdermannia peruviana*.
- Nigellocereus* (P. V. Heath) P. V. Heath, *Calyx* 6(1): 1, 1998. Basionym: *Stenocereus* Subgen. *Nigellocereus*.
- Opuntia anacantha* var. *kiska-loro* (Spegazzini) R. Kiesling, *Candollea* 53(2): 475, 1998. Basionym: *Opuntia kiska-loro*.
- Opuntia anacantha* var. *retrorsa* (Spegazzini) R. Kiesling, *Candollea* 53(2): 475, 1998. Basionym: *Opuntia retrorsa*.
- Opuntia anacantha* var. *utkilio* (Spegazzini) R. Kiesling, *Candollea* 53(2): 476, 1998. Basionym: *Opuntia utkilio*.
- Opuntia humifusa* ssp. *minor* (Engelmann) Crook & Mottram, *Bradleya* 16: 135, 1998. Basionym: *Opuntia rafinesquei* var. *minor*.
- Opuntia pinkavae* B. D. Parfitt, *Rhodora* 99(899): 223-225, ill., 1997. Typus: *Parfitt* 2874 (ASU). [Dated 1997, publ. 1998.]
- Opuntia polyacantha* var. *arenaria* (Engelmann) B. D. Parfitt, *Cact. Succ. J. (US)* 70(4): 188, 1998. Basionym: *Opuntia arenaria*.
- Opuntia polyacantha* var. *erinacea* (Engelmann & J. M. Bigelow) B. D. Parfitt, *Cact. Succ. J. (US)* 70(4): 188, 1998. Basionym: *Opuntia erinacea*.
- Opuntia polyacantha* var. *hystericina* (Engelmann & J. M. Bigelow) P. D. Parfitt, *Cact. Succ. J. (US)* 70(4): 188, 1998. Basionym: *Opuntia hystericina*.
- Opuntia polyacantha* var. *nicholii* (L. Benson) B. D. Parfitt, *Cact. Succ. J. (US)* 70(4): 188, 1998. Basionym: *Opuntia nicholii*.
- Pachycereus tepamo* S. Gama & S. Arias, *Novon* 8(4): 359-361, ill., 1998. Typus: *Guzmán-Cruz* 906 (MEXU, ENCB, IBUG, MO).
- Parodia alacriportana* ssp. *brevihamata* (W. Haage) Hofacker & P. J. Braun, *Cact. Consensus* Init. No. 6: 10, 1998. Basionym: *Parodia brevihamata*.
- Parodia alacriportana* ssp. *buenekeri* (Buining) Hofacker & P. J. Braun, *Cact. Consensus* Init. No. 6: 10, 1998. Basionym: *Parodia buenekeri*.
- Parodia alacriportana* ssp. *catarinensis* (F. Ritter) Hofacker & P. J. Braun, *Cact. Consensus* Init. No. 6: 10, 1998. Basionym: *Brasiliparodia catarinensis*.
- Parodia arnostiana* (Lisal & Kolarik) Hofacker, *Cact. Consensus* Init. No. 6: 11, 1998. Basionym: *Notocactus arnostianus*.
- Parodia aureicentra* var. *muhrii* (F. H. Brandt) J. G. Lambert, *Cact. Argentine*, ed. 2, 207, 1998. Basionym: *Parodia muhrii*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 190, 1993 (cf. RPS 44).]
- Parodia aureicentra* var. *rauschii* (Backeberg) J. G. Lambert, *Cact. Argentine*, ed. 2, 209, 1998. Basionym: *Parodia rauschii*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 192, 1993 (cf. RPS 44).]
- Parodia aureicentra* var. *varicolor* (F. Ritter) J. G. Lambert, *Cact. Argentine*, ed. 2, 210, 1998. Basionym: *Parodia varicolor*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 193, 1993 (cf. RPS 44).]
- Parodia carambeiensis* (Buining & Brederoo) Hofacker, *Cact. Consensus* Init. No. 6: 11, 1998. Basionym: *Notocactus carambeiensis*.
- Parodia catamarcensis* var. *riojensis* (F. Ritter & Weskamp) J. G. Lambert, *Cact. Argentine*, ed. 2, 226, 1998. Basionym: *Parodia riojensis*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 208, 1993 (cf. RPS 44).]
- Parodia concinna* ssp. *agnetae* (van Vliet) Hofacker, *Cact. Consensus* Init. No. 6: 11, 1998. Basionym: *Notocactus agnetae*.
- Parodia concinna* ssp. *blaauwiana* (van Vliet) Hofacker, *Cact. Consensus* Init. No. 6: 11, 1998. Basionym: *Notocactus blaauwianus*. [Sphalm. 'blaawiana'.]
- Parodia fusca* (F. Ritter) Hofacker & P. J. Braun,

- Cact. Consensus Init. No. 6: 10, 1998. Basionym: *Notocactus fuscus*.
- Parodia haselbergii* ssp. *graessneri* (K. Schumann) Hofacker & P. J. Braun, Cact. Consensus Init. No. 6: 10, 1998. Basionym: *Echinocactus graessneri*.
- Parodia mammulosa* ssp. *brasiliensis* (Havlicek) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Notocactus mammulosus* var. *brasiliensis*.
- Parodia mammulosa* ssp. *erythracanthus* (Schlosser & Brederoo) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Notocactus erythracanthus*.
- Parodia mammulosa* ssp. *eugeniae* (van Vliet) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Notocactus eugeniae*.
- Parodia mammulosa* ssp. *submammulosa* (Lemaire) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Echinocactus submammulosus*.
- Parodia meonacantha* (Prestl ) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Notocactus meonacanthus*.
- Parodia microsperma* var. *weberiana* (F. H. Brandt) J. G. Lambert, Cact. Argentine, ed. 2, 240, 1998. Basionym: *Parodia weberiana*. [First published invalidly (Art. 33.2, 34.1a) in Cact. Argentine [ed. 1], 220, 1993 (cf. RPS 44).]
- Parodia mueller-melchersii* ssp. *gutierrezii* (Abraham) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Notocactus gutierrezii*.
- Parodia mueller-melchersii* ssp. *winkleri* (van Vliet) Hofacker, Cact. Consensus Init. No. 6: 11, 1998. Basionym: *Notocactus winkleri*.
- Parodia muricata* (Otto ex Pfeiffer) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Echinocactus muricatus*.
- Parodia nothominuscula* Hofacker, Cact. Consensus Init. No. 6: 11, 1998. [Nom. nov. pro *Notocactus minusculus* Hofacker & Herm (non *Parodia minuscula* Rausch 1985).]
- Parodia ottonis* ssp. *horstii* (F. Ritter) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus arechavaletae* var. *horstii*.
- Parodia oxycostata* (Buining & Brederoo) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus oxycostatus*.
- Parodia oxycostata* ssp. *gracilis* (F. Ritter) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus glaucinus* var. *gracilis*.
- Parodia permutata* (F. Ritter) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus permutatus*.
- Parodia rudibueneri* (Abraham) Hofacker & P. J. Braun, Cact. Consensus Init. No. 6: 10, 1998. Basionym: *Notocactus rudibueneri*.
- Parodia rudibueneri* ssp. *glomerata* (Gerloff) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus glomeratus*.
- Parodia rutilans* ssp. *veeniana* (van Vliet) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus veenianus*.
- Parodia schumanniana* ssp. *claviceps* (F. Ritter) Hofacker & P. J. Braun ex Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Eriocactus claviceps*.
- Parodia scopia* ssp. *marchesii* (Abraham) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus scopia* var. *marchesii*.
- Parodia scopia* ssp. *neobueneri* (F. Ritter) Hofacker & P. J. Braun, Cact. Consensus Init. No. 6: 10, 1998. Basionym: *Notocactus neobueneri*.
- Parodia scopia* ssp. *succinea* (F. Ritter) Hofacker & P. J. Braun, Cact. Consensus Init. No. 6: 10, 1998. Basionym: *Notocactus succinea*.
- Parodia stockingeri* (Prestl ) Hofacker & P. J. Braun, Cact. Consensus Init. No. 6: 10, 1998. Basionym: *Notocactus stockingeri*.
- Parodia tabularis* ssp. *bommeljei* (van Vliet) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus bommeljei*.
- Parodia turbinata* (Arechavaleta) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Echinocactus sellowii* var. *turbinatus*.
- Parodia wernerii* Hofacker, Cact. Consensus Init. No. 6: 12, 1998. [Nom. nov. pro *Notocactus uebelmannianus* Buining 1968 (non *Parodia uebelmanniana* F. Ritter 1980).]
- Parodia wernerii* ssp. *pleiocephala* (Gerloff & K nigs) Hofacker, Cact. Consensus Init. No. 6: 12, 1998. Basionym: *Notocactus uebelmannianus* var. *pleiocephalus*.
- Pediocactus* Sect. *Gymnocactus* (Backeberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 17, 1998. Basionym: *Gymnocactus*.
- Pediocactus* Sect. *Neolloydia* (Britton & Rose) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 23, 1998. Basionym: *Neolloydia*.
- Pediocactus* Sect. *Sclerocactus* (Britton & Rose) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 14, 1998. Basionym: *Sclerocactus*.
- Pediocactus* Sect. *Turbincarpus* (Buxbaum & Backeberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 19, 1998. Basionym: *Turbincarpus*.
- Pediocactus* Subgen. *Neolloydia* (Britton & Rose) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 23, 1998. Basionym: *Neolloydia*.
- Pediocactus* Subgen. *Toumeyia* (Britton & Rose) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 17, 1998. Basionym: *Toumeyia*.
- Pediocactus* Subsect. *Pectinatae* Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Typus: *Pelecyphora aselliformis* H. M ller. Probably technically based on *Normanbokea Kladiwa* & Buxbaum 1969.
- Pediocactus alonsoi* (Glass & S. Arias) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Turbincarpus alonsoi*.
- Pediocactus bonatzii* (G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Turbincarpus bonatzii*.
- Pediocactus brevihamatus* (Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 14, 1998. Basionym: *Echinocactus brevihamatus*.
- Pediocactus brevihamatus* ssp. *tobuschii* (W. T. Marshall) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 15, 1998. Basionym: *Mammillaria*

- tobuschii*.
- Pediocactus cloveriae** (K. D. Heil & J. M. Porter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 15, 1998. Basionym: *Sclerocactus cloveriae*. [Sphalm. 'cloverae'.]
- Pediocactus cloveriae** ssp. *brackii* (K. D. Heil & J. M. Porter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 15, 1998. Basionym: *Sclerocactus cloveriae* ssp. *brackii*.
- Pediocactus conoideus** (De Candolle) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 23, 1998. Basionym: *Mammillaria conoidea*.
- Pediocactus erectocentrus** (J. M. Coulter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 24, 1998. Basionym: *Echinocactus erectocentrus*.
- Pediocactus gautii** (L. Benson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 19, 1998. Basionym: *Neolloydia gautii*.
- Pediocactus gielsdorffianus** (Werdermann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Echinocactus gielsdorffianus*.
- Pediocactus hoferi** (J. Lüthy & A. B. Lau) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Turbinacarpus hoferi*.
- Pediocactus horripilus** (Lemaire) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Mammillaria horripila*.
- Pediocactus intertextus** (Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 24, 1998. Basionym: *Echinocactus intertextus*.
- Pediocactus intertextus** var. *dasyacanthus* (Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 24, 1998. Basionym: *Echinocactus intertextus* var. *dasyacanthus*.
- Pediocactus johnsonii** (Parry ex Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 24, 1998. Basionym: *Echinocactus johnsonii*.
- Pediocactus knuthianus** (Bödeker) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Echinocactus knuthianus*.
- Pediocactus laui** (Glass & Foster) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Turbinacarpus laui*.
- Pediocactus lophophoroides** (Werdermann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Thelocactus lophophoroides*.
- Pediocactus lophophoroides** var. *jauernigii* (G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Turbinacarpus jauernigii*.
- Pediocactus mandragora** (Fric ex A. Berger) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Echinocactus mandragora*.
- Pediocactus mariposensis** (Hester) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 24, 1998. Basionym: *Echinomastus mariposensis*.
- Pediocactus nyensis** (Hochstätter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 15, 1998. Basionym: *Sclerocactus nyensis*.
- Pediocactus parviflorus** (Clover & Jotter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 15, 1998. Basionym: *Sclerocactus parviflorus*.
- Pediocactus parviflorus** ssp. *havasupaiensis* (Clover) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 15, 1998. Basionym: *Sclerocactus havasupaiensis*.
- Pediocactus parviflorus** ssp. *intermedius* (Peebles) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus intermedius*.
- Pediocactus parviflorus** ssp. *terrae-canyonae* (K. D. Heil) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus terrae-canyonae*.
- Pediocactus pseudomacrolele** (Backeberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Strombocactus pseudomacrolele*.
- Pediocactus pseudomacrolele** var. *krainzianus* (G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Toumeyia krainziana*.
- Pediocactus pseudomacrolele** var. *lausseri* (Diers & G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Turbinacarpus pseudomacrolele* var. *lausseri*.
- Pediocactus pseudomacrolele** var. *sphacelatus* (Diers & G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. *Nom. inval.*, based on *Turbinacarpus pseudomacrolele* var. *sphacelatus*, *nom. inval.* (Art. 37.3). [Sphalm. 'sphacellatus'.]
- Pediocactus pseudopectinatus** (Backeberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Pelecyphora pseudopectinata*.
- Pediocactus pubispinus** ssp. *sileri* (L. Benson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus pubispinus* var. *sileri*.
- Pediocactus rioverdensis** (G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Turbinacarpus rioverdensis*.
- Pediocactus saueri** (Bödeker) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Echinocactus saueri*.
- Pediocactus scheeri** (Salm-Dyck) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 25, 1998. Basionym: *Echinocactus scheeri*.
- Pediocactus schmiedickeanus** (Bödeker) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 20, 1998. Basionym: *Echinocactus schmiedickeanus*.
- Pediocactus schmiedickeanus** var. *dickisoniae* (Glass & Foster) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 20, 1998. Basionym: *Turbinacarpus schmiedickeanus* var. *dickisoniae*.
- Pediocactus schmiedickeanus** var. *flaviflorus* (G. Frank & A. B. Lau) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Turbinacarpus flaviflorus*.
- Pediocactus schmiedickeanus** var. *gracilis* (Glass & Foster) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 20, 1998. Basionym: *Turbinacarpus gracilis*.
- Pediocactus schmiedickeanus** var. *klinkerianus* (Backeberg & H. Jacobsen) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 20, 1998. Basionym: *Turbinacarpus klinkerianus*.
- Pediocactus schmiedickeanus** var. *macrochele*

- (Werdermann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 20, 1998. Basionym: *Echinocactus macrochele*.
- Pediocactus schmiedickeanus* var. *rubriflorus* (G. Frank) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Turbincarpus schwarzii* var. *rubriflorus*.
- Pediocactus schmiedickeanus* var. *schwarzii* (Shurly) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 21, 1998. Basionym: *Strombocactus schwarzii*.
- Pediocactus simpsonii* ssp. *bradyi* (L. Benson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 13, 1998. Basionym: *Pediocactus bradyi*.
- Pediocactus simpsonii* var. *despainii* (S. L. Welsh & Goodrich) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 14, 1998. Basionym: *Pediocactus despainii*.
- Pediocactus simpsonii* var. *knowltonii* (L. Benson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 13, 1998. Basionym: *Pediocactus knowltonii*.
- Pediocactus simpsonii* var. *paradinei* (B. W. Benson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 13, 1998. Basionym: *Pediocactus paradinei*.
- Pediocactus simpsonii* var. *winkleri* (K. D. Heil) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 14, 1998. Basionym: *Pediocactus winkleri*.
- Pediocactus smithii* (Mühlenpfordt) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 19, 1998. Basionym: *Echinocactus smithii*.
- Pediocactus spinosior* (Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Echinocactus whipplei* var. *spinosior*.
- Pediocactus spinosior* ssp. *blainei* (S. L. Welsh & Thorne) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus blainei*.
- Pediocactus spinosior* var. *schleseri* (K. D. Heil & S. L. Welsh) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus schleseri*. [Sphalm. 'schlesseri'.]
- Pediocactus subterraneus* (Backeberg) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 17, 1998. Basionym: *Echinocactus subterraneus*.
- Pediocactus subterraneus* var. *zaragosae* (Glass & Foster) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Gymnocactus subterraneus* var. *zaragozae*.
- Pediocactus swobodae* (Diers) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Turbincarpus swobodae*.
- Pediocactus uncinatus* (Galeotti) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 25, 1998. Basionym: *Echinocactus uncinatus*.
- Pediocactus uncinatus* var. *crassihamatus* (F. A. C. Weber) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 25, 1998. Basionym: *Echinocactus crassihamatus*.
- Pediocactus uncinatus* var. *wrightii* (Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 25, 1998. Basionym: *Echinocactus uncinatus* var. *wrightii*.
- Pediocactus unguispinus* (Engelmann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 25, 1998. Basionym: *Echinocactus unguispinus*.
- Pediocactus unguispinus* var. *durangensis* (Runge) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 26, 1998. Basionym: *Echinocactus durangensis*.
- Pediocactus valdezianus* (H. Möller) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 22, 1998. Basionym: *Pelecyphora valdeziana*.
- Pediocactus viereckii* (Werdermann) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 19, 1998. Basionym: *Echinocactus viereckii*.
- Pediocactus viereckii* var. *major* (Glass & Foster) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 19, 1998. Basionym: *Gymnocactus viereckii* var. *major*.
- Pediocactus warnockii* (L. Benson) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 26, 1998. Basionym: *Neolloydia warnockii*.
- Pediocactus wetlandicus* (Hochstätter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus wetlandicus*.
- Pediocactus wetlandicus* fa. *ilseae* (Hochstätter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 16, 1998. Basionym: *Sclerocactus wetlandicus* var. *ilseae*.
- Pediocactus whipplei* ssp. *busekii* (Hochstätter) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 17, 1998. Basionym: *Sclerocactus whipplei* ssp. *busekii*. [Bracket author erroneously given as 'K. D. Heil & J. M. Porter'.]
- Pediocactus ysabelae* (Schlange) Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 18, 1998. Basionym: *Thelocactus ysabelae*.
- Pereskia horrida* ssp. *rauhii* (Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 9, 1998. Basionym: *Pereskia vargasii* var. *rauhii*.
- Praecereus euchlorus* ssp. *jaenensis* (Rauh & Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 9, 1998. Basionym: *Monvillea jaenensis*.
- Praecereus rhodoleucanthus* (K. Schumann) Schmeda-Hirschmann, Candollea 53(1): 27, 1998. *Nom. inval.* (Art. 33.2), based on *Cereus rhodoleucanthus*. [Attributed to N. P. Taylor.]
- Pyrrhocactus marayesensis* (Backeberg) J. G. Lambert, Cact. Argentine, ed. 2, 265, 1998. *Nom. inval.*, based on *Pyrrhocactus umadeave* var. *marayesensis*, *nom. inval.* (Art. 9.5). [First published invalidly (Art. 33.2, 34.1a) in Cact. Argentine [ed. 1], 245, 1993 (cf. RPS 44).]
- Rauhocereus riosaniensis* ssp. *jaenensis* (Rauh ex Backeberg) Ostolaza, Cact. Consensus Init. No. 6: 9, 1998. Basionym: *Rauhocereus riosaniensis* var. *jaenensis*.
- Rhipsalis* cv. *Diana*, Princess of Wales Süpplie, Brit. Cact. Succ. J. 16(1): 49, ill., 1998. [= (*Rhipsalis* × *graeseri* × *R.* 'Crimson Heart') × *Rhipsalis* 'Yvonne'. The comma in the cultivar epithet is probably not permissible.]
- Rhipsalis floccosa* ssp. *oreophila* N. P. Taylor & Zappi, Cact. Consensus Init. No. 6: 7, 1998. Lectotypus: *Ritter* 1247 (SGO [lecto]) [Lectotype (for the replaced synonym) designated by N. P. Taylor & Zappi l.c. 7, 1998.]. [*Nom. nov. pro Rhipsalis monteazulensis* F. Ritter 1979.]

- ×*Rittellicereus* P. V. Heath, *Calyx* 6(1): 1, 1998. [= *Ritterocereus* × *Nigellicereus*.]
- Sclerocactinae* Doweld, *Succulents* (Moscow) 1: 16, 1998. Typus: *Sclerocactus* Britton & Rose.
- Sclerocactus parviflorus* fa. *macrospermus* Hochstätter, *Cactaceae Rev.* 1(1): 11-12, ill., 1998. Typus: *Hochstätter* 69.0.2 (SRP).
- Sclerocactus parviflorus* fa. *terrae-canyonae* (K. D. Heil) Hochstätter, *Cactaceae Rev.* 1(1): 14-15, ill., 1998. Basionym: *Sclerocactus terrae-canyonae*.
- Sclerocactus parviflorus* fa. *variiflorus* Hochstätter, *Cactaceae Rev.* 1(1): 8-10, ill., 1998. Typus: *Hochstätter* 56 (SRP).
- Sclerocactus uncinatus* ssp. *crassihamatus* (F. A. C. Weber) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Echinocactus crassihamatus*.
- Sclerocactus uncinatus* ssp. *wrightii* (Engelmann) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Echinocactus uncinatus* var. *wrightii*.
- Sclerocactus whipplei* subvar. *azteca* Hochstätter, *Piante Grasse* 17(3): 228-231, ill., 1998. *Nom. inval.* (Art. 33.2, 36.1). [Dated 1997, publ. Jan. 1998. Given as 'comb. et stat. nov.' with 4 heterotypic synonyms enumerated but without combining any of the 4 epithets.]
- Stenocereus thurberi* ssp. *littoralis* (K. Brandegee) N. P. Taylor, *Cact. Consensus Init.* No. 5: 13, 1998. Basionym: *Cereus thurberi* var. *littoralis*.
- Strombocactus disciformis* ssp. *jarmilae* (Halda) Halda, *Acta Mus. Richnov. Sect. Nat.* 4(2): 71, 1997. Basionym: *Strombocactus jarmilae*. [Omitted previously.]
- Tephrocactus aoracanthus* var. *pediophilus* (A. Castellanos) J. G. Lambert, *Cact. Argentine*, ed. 2, 297, 1998. Basionym: *Opuntia pediophila*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 271, 1993 (cf. RPS 44). Sphalm. 'paediophilus'.]
- Thelocactus bicolor* ssp. *flavidispinus* (Backeberg) N. P. Taylor, *Cact. Consensus Init.* No. 5: 14, 1998. Basionym: *Thelocactus bicolor* var. *flavidispinus*.
- Thelocactus bicolor* ssp. *schwarzii* (Backeberg) N. P. Taylor, *Cact. Consensus Init.* No. 5: 14, 1998. Basionym: *Thelocactus schwarzii*.
- Thelocactus conothelos* ssp. *argenteus* (Glass & Foster) Glass, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [TH/CON ssp. *argenteus*], 1997. Basionym: *Thelocactus conothelos* var. *argenteus*. [Sphalm. 'conothele'. Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init.* No. 5: 6, 1998.]
- Thelocactus conothelos* ssp. *aurantiacus* (Glass & Foster) Glass, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [TH/CON ssp. *aurantiacus*], 1997. Basionym: *Thelocactus conothelos* var. *aurantiacus*. [Sphalm. 'conothele'. Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init.* No. 5: 6, 1998.]
- Thelocactus garciae* Glass & M. Mendoza-García, in Glass, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [TH/GA 2 pp.], 1997. Typus: *García Luna* 383 (CANTE 456). [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init.* No. 5: 6, 1998.]
- Thelocactus hexaedrophorus* ssp. *lloydii* (Britton & Rose) N. P. Taylor, *Cact. Consensus Init.* No. 5: 14, 1998. Basionym: *Thelocactus lloydii*.
- Thelocactus multicephalus* Halda & Panarotto ex Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 40, 1998. Typus: *Halda* 8502133 (PR). [Repeated in *Cactaceae* etc. 8(4): 123, ill.]
- Thelocactus panarottanus* Halda, *Acta Mus. Richnov. Sect. Nat.* 5(4): 161, 1998. Typus: *Panarotto* 8502130 (PR).
- Thelocactus rinconensis* ssp. *nidulans* (Quehl) Glass, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [TH/RIN ssp. *hintonii* p. 2], 1997. Basionym: *Echinocactus nidulans*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init.* No. 5: 6, 1998. Repeated by Doweld, *Succulents* (Moscow) 1999(1): 30, 1999.]
- Thelocactus rinconensis* ssp. *phymatothelos* (Poselger) Glass, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [TH/RIN ssp. *hintonii* p. 2], 1997. Basionym: *Echinocactus phymatothelos*. [Sphalm. 'phymatothele'. Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, *Cact. Consensus Init.* No. 5: 6, 1998. Repeated by Doweld, *Succulents* (Moscow) 1999(1): 30, 1999.]
- Thelocactus tulensis* ssp. *buekii* (Klein) N. P. Taylor, *Cact. Consensus Init.* No. 5: 14, 1998. Basionym: *Echinocactus buekii*.
- Thelocactus tulensis* ssp. *matudae* (Sánchez-Mejorada & A. B. Lau) N. P. Taylor, *Cact. Consensus Init.* No. 5: 14, 1998. Basionym: *Thelocactus matudae*.
- Torreycactus* Doweld, *Succulents* (Moscow) 1: 19, 1998. Typus: *Echinocactus conothelos* Regel & Klein.
- Torreycactus conothelos* (Regel & Klein) Doweld, *Succulents* (Moscow) 1: 19, 1998. Basionym: *Echinocactus conothelos*.
- Torreycactus conothelos* var. *argenteus* (Glass & Foster) Doweld, *Succulents* (Moscow) 1: 19, 1998. Basionym: *Thelocactus conothelos* var. *argenteus*.
- Torreycactus conothelos* var. *aurantiacus* (Glass & Foster) Doweld, *Succulents* (Moscow) 1: 19, 1998. Basionym: *Thelocactus conothelos* var. *aurantiacus*.
- Trichocereus walteri* (Kiesling) J. G. Lambert, *Cact. Argentine*, ed. 2, 321, 1998. Basionym: *Lobivia walteri*. [First published invalidly (Art. 33.2, 34.1a) in *Cact. Argentine* [ed. 1], 295, 1993 (cf. RPS 44).]
- Turbincarpinae* Doweld, *Succulents* (Moscow) 1: 23, 1998. Typus: *Turbincarpus* F. Buxbaum & Backeberg.
- Turbincarpus dicksoniae* (Glass & Foster) Glass & A. Hofer, *Gufa Ident. Cact. Amenaz. Mex.* Vol. 1, [TU/DI], 1997. Basionym: *Turbincarpus schmiedickeanus* var. *dicksoniae*. [Dated

- 1998, publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Turbincarpus pailanus** Halda & Panarotto, Acta Mus. Richnov. Sect. Nat. 5(4): 162, 1998. Typus: Panarotto 850477 (PR).
- Turbincarpus pseudomacroechele** ssp. **krainzianus** (G. Frank) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [TU/PSEUDOM ssp. *krainzianus*], 1997. Basionym: *Toumeyia krainziana*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Turbincarpus pseudomacroechele** ssp. **lausseri** (Diers & G. Frank) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [TU/PS ssp. *krainzianus* p. 2], 1997. Basionym: *Turbincarpus pseudomacroechele* var. *lausseri*. [Dated 1998, publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Turbincarpus saueri** ssp. **nelissae** Halda & Panarotto, Acta Mus. Richnov. Sect. Nat. 5(4): 161-162, 1998. Typus: Panarotto 8502144 (PR).
- Turbincarpus schmiedickeanus** ssp. **dickisoniae** (Glass & Foster) N. P. Taylor, Cact. Consensus Init. No. 5: 14, 1998. Basionym: *Turbincarpus schmiedickeanus* var. *dickisoniae*.
- Turbincarpus schmiedickeanus** ssp. **flaviflorus** (G. Frank & A. B. Lau) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [TU/SCH ssp. *flaviflorus*], 1997. Basionym: *Turbincarpus flaviflorus*. [Dated 1998 but publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Turbincarpus schmiedickeanus** ssp. **gracilis** (Glass & Foster) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [TU/SCH ssp. *gracilis*], 1997. Basionym: *Turbincarpus gracilis*. [Dated 1998 but publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Turbincarpus schmiedickeanus** ssp. **klinkerianus** (Backeberg & H. Jacobsen) N. P. Taylor, Cact. Consensus Init. No. 5: 14, 1998. Basionym: *Turbincarpus klinkerianus*. [Repeated by Panarotto, Pianta Grasse 18(3): 120, 1999 (dated 1998).]
- Turbincarpus schmiedickeanus** ssp. **macrochele** (Werdermann) N. P. Taylor, Cact. Consensus Init. No. 5: 14, 1998. Basionym: *Echinocactus macrochele*. [Repeated by Panarotto, Pianta Grasse 18(3): 120, 1999 (dated 1998).]
- Turbincarpus schmiedickeanus** ssp. **schwarzii** (Shurly) N. P. Taylor, Cact. Consensus Init. No. 5: 14, 1998. Basionym: *Strombocactus schwarzii*.
- Turbincarpus viereckii** ssp. **major** (Glass & Foster) Glass, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [TU/VI ssp. *major*], 1997. Basionym: *Gymnocactus viereckii* var. *major*. [Dated 1998 but publ. 15. Dec. 1997 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]
- Turbincarpus zaragozae** (Glass & Foster) Glass & A. Hofer, Guía Ident. Cact. Amenaz. Mex. Vol. 1, [TU/ZA], 1997. Basionym: *Gymnocac-*

tus subterraneus var. *zaragozae*. [Sphalm. 'zaragozae'. Dated 1998 but publ. 15. Dec. 1998 according to D. R. Hunt, Cact. Consensus Init. No. 5: 6, 1998.]

CRASSULACEAE

- Crassula ausensis** ssp. **titanopsis** Pavelka, Kaktusy 34(2): 39-43, ills., 1998. Typus: Pavelka 954 (PRC).
- Echeveria agavoides** cv. **Corderoyi** (Morren) Kimmach, Cact. Succ. J. (US) 70(6): 300, 1998. Basionym: *Echeveria corderoyi*.
- Echeveria agavoides** cv. **Multifida** (E. Walther) Kimmach, Cact. Succ. J. (US) 70(6): 300, 1998. Basionym: *Echeveria agavoides* var. *multifida*.
- Echeveria agavoides** cv. **Prolifera** (E. Walther) Kimmach, Cact. Succ. J. (US) 70(6): 300, 1998. Basionym: *Echeveria agavoides* var. *prolifera*.
- Echeveria bella** fa. **major** (E. Walther) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria bella* var. *major*. [Vol. for 1997, publ. March 1998.]
- Echeveria chichilensis** fa. **backebergii** (von Poellnitz) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria backebergii*. [Vol. for 1997, publ. March 1998.]
- Echeveria colorata** fa. **brandtii** (Kimmach) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria colorata* var. *brandtii*. [Vol. for 1997, publ. March 1998.]
- Echeveria fulgens** var. **obtusifolia** (Rose) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria obtusifolia*. [Vol. for 1997, publ. March 1998.]
- Echeveria gibbiflora** cv. **Carunculata** (van Laren) Kimmach, Cact. Succ. J. (US) 70(6): 300, 1998. Basionym: *Echeveria gibbiflora* var. *metallica carunculata*.
- Echeveria gibbiflora** cv. **Metallica** (Lemaire) Kimmach, Cact. Succ. J. (US) 70(6): 300, 1998. Basionym: *Echeveria metallica*.
- Echeveria gibbiflora** cv. **Violescens** (E. Walther) Kimmach, Cact. Succ. J. (US) 70(6): 300, 1998. Basionym: *Echeveria violescens*.
- Echeveria halbingeri** var. **goldiana** (E. Walther) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria goldiana*. [Vol. for 1997, publ. March 1998.]
- Echeveria halbingeri** var. **sanchez-mejoradae** (E. Walther) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria sanchez-mejoradae*. [Vol. for 1997, publ. March 1998.]
- Echeveria kimmachii** J. Meyrán & Vega, Cact. Suc. Mex. 43(1): 6-9, ills. (incl. back cover), 1998. Typus: Vega 9206 (MEXU, ENCB, UAS).
- Echeveria paniculata** var. **maculata** (Rose) Kimmach, Haseltonia 5: 51, 1998. Basionym: *Echeveria maculata*. [Vol. for 1997, publ. March 1998.]
- Echeveria pringlei** var. **longispala** Kimmach, Haseltonia 5: 51, 1998. Typus: Bauml et Voss

- 1932 (HNT). [Vol. for 1997, publ. March 1998.]
- Echeveria pringlei* var. *parva* Kimnach, *Haseltonia* 5: 52, 1998. Typus: *Spencer* s.n. (HNT). [Vol. for 1997, publ. March 1998.]
- Echeveria secunda* fa. *byrnesii* (Rose) Kimnach, *Haseltonia* 5: 52, 1998. Basionym: *Echeveria byrnesii*. [Vol. for 1997, publ. March 1998.]
- Echeveria xichuensis* L. López & Reyes, *Cact. Suc. Mex.* 43(3): 65-69, ills., 1998. Typus: López 370 (MEXU, ENCB).
- ×*Graptoveria* cv. *Thornwood* Star M. Holmes, *Cact. Succ. J.* (Woollahra) 21(5): 86-87, ill., 1998. [= *Graptopetalum filiferum* × *Echeveria* sp. from Zaragoza.]
- Jovibarba globifera* ssp. *glabrescens* (Sabransky) Holub, *Preslia* 70: 106, 1998. Basionym: *Sempervivum hirtum* fa. *glabrescens*.
- Jovibarba globifera* ssp. *preissiana* (Domin) Holub, *Preslia* 70: 106, 1998. Basionym: *Sempervivum preissianum*.
- Jovibarba globifera* ssp. *pseudohirta* (Leute) Letz, *Thaiszia* 8: 15, 1998. Basionym: *Diopogon arenarius* ssp. *pseudohirtus*.
- Kalanchoe beharensis* cv. *Alba* Rauh, *Succ. Xerophyt. Pl. Madag.* 2: 301, 1998.
- Kalanchoe beharensis* cv. *Nana* Rauh, *Succ. Xerophyt. Pl. Madag.* 2: 300-301, ills., 1998.
- Kalanchoe ndotensis* L. E. Newton, *Cact. Succ. J.* (US) 70(2): 85-87, ills., 1998. Typus: *Powys* et al. 539 (K, EA).
- Orostachys paradoxa* (A. P. Khokhrjakov & Voroschilov) Byalt, *Cact. Succ. J.* (US) 70(5): 262-263, ill., 1998. Basionym: *Sedum paradoxum*.
- Pachyphytum caesium* Kimnach & Moran, *Cact. Succ. J.* (US) 70(1): 41, 1998. Typus: *Minnich* 12101 (HNT, MEXU). [First published invalidly (Art. 37.1, with 2 syntypes) in l.c. 65(2): 59-62, ills., 1993 (cf. RPS 44).]
- Rhodiola rosea* fa. *purpurascens* Y. R. Meng & Tian, *Bull. Bot. Res.*, Harbin 17(2): 143, 1997. Typus: *Meng* 88 (Herb. Northwest Inst. Rectang).
- Sedum abchasicum* Kolak ex Byalt, *Novosti Sist. Vyssh. Rast.* 31: 123-126, ill., 1998. Typus: *Portenier* s.n. (LE). [Name first used invalidly by Kolak 1961.]
- Sedum caeruleum* cv. *Tavormina's Purple* Tavormina, *Piante Grasse* 17(3): 232, 1998. [Dated 1997, publ. Jan. 1998. A garden selection.]
- Sedum clausenii* Pérez-Calix, *Acta Bot. Mex.* 43: 1-5, ills. [publ. June], 1998. Typus: *Pérez-Calix et Carranza* 3615 (IEB, CHAPA, ENCB, MEXU). [Non *Sedum clausenii* Byalt 1998 [publ. Dec.].]
- Sedum clausenii* Byalt, *Novosti Sist. Vyssh. Rast.* 31: 121 [publ. Dec.], 1998. *Nom. illeg.* (Art. 53.1). [*Nom. nov. pro Sedum decumbens Clausen* (non *Sedum decumbens* Lucé 1823); non *Sedum clausenii* Pérez-Calix 1998 [publ. June].]
- Sedum jurgensenii* ssp. *attenuatum* Moran, *Haseltonia* 5: 76, ills. (p. 75), 1998. Typus: *Moran et Kinnach* 7776 (SD, BH).
- Sedum latiovalifolium* Y. Lee, *Korean J. Pl. Taxon.* 22(1): 8-9, 1992. Typus: *Lee et Lee* s.n. (Herb. Ewha Womans Univ.). [Omitted previously.]
- Sedum mocinianum* Pérez-Calix, *Acta Bot. Mex.* 44: 50-51, ills., 1998. Typus: *Pérez-Calix et al.* 3797 (IEB).
- Sinocrassula luteorubra* (Praeger) H. Chuang, in *Wu, Z. & Chen, S.*, *Fl. Yunnan.* 8: 142, 1997. *Nom. inval.* (Art. 33.2), based on *Sedum indicum* var. *luteorubrum*. [Omitted previously.]
- Sinocrassula luteorubra* var. *forrestii* (Hamet) H. Chuang, in *Wu, Z. & Chen, S.*, *Fl. Yunnan.* 8: 142, 1997. *Nom. inval.* (Art. 33.2), based on *Sedum indicum* var. *forrestii*.
- Thompsonella mixtecana* Reyes & L. López, *Cact. Suc. Mex.* 43(2): 27-30, 48, ills., 1998. Typus: *Reyes* 3870 (MEXU, ENCB).
- Tylecodon bleckiae* G. Williamson, *Cact. Succ. J.* (US) 70(3): 127-128, ills., 1998. Typus: *Bleck & Lavranos* s.n. in *Williamson* 5896 (NBG).
- Tylecodon cordiformis* G. Williamson, *Cact. Succ. J.* (US) 70(5): 255-258, ills., map, 1998. Typus: *Hammer & Barnhill* s.n. in *Williamson* 5911 (NBG).
- Tylecodon jarmilae* Halda, *Acta Mus. Richnov. Sect. Nat.* 5(1): 41, ills. (p. 45), 1998. Typus: *Halda* 9709126 (PR). [Repeated (without Latin and type) in *Cactaceae* etc. 8(3): 93-95, ills., 1998.]
- Tylecodon peculiaris* van Jaarsveld, *Aloe* 35(1): 10-11, ills., 1998. Typus: *van Jaarsveld et Theart* 14796 (NBG).
- Villadia cucullata* ssp. *apiculata* Moran & C. H. Uhl, *Cact. Succ. J.* (US) 70(4): 201-202, ill., 1998. Typus: *Moran* 6343 (SD, CU).
- Villadia recurva* Moran & al., *Cact. Suc. Mex.* 43(1): 3-6, ills., 1998. Typus: *Moran* 10107 (SD 53445, ARIZ, BH, BM, CAS, CU, K, MEXU, MICH, MO, NY, RSA, TEX, US).

CUCURBITACEAE

- Seyrigia napifera* Rauh, *Succ. Xerophyt. Pl. Madag.* 2: 193-194, ills., 1998. Typus: *Rauh* 68582 (HEID).

DRACAENACEAE

- Dracaena tamaranae* A. Marrero & al., *Bot. J. Linn. Soc.* 128: 294-297, ills., 1998. Typus: *Marrero et al.* 18525 (MA, K, LPA, TFC).

EUPHORBIACEAE

- Euphorbia beharensis* cv. *Truncata* Rauh, *Succ. Xerophyt. Pl. Madag.* 2: 141, ill., 1998. [Probably the same as *E. beharensis* var.

truncata Rauh 1999.]

- Euphorbia denisii* cv. *Grandifolia* Rauh, Succ. Xerophyt. Pl. Madag. 2: 159, ill., 1998.
- Euphorbia leistneri* R. H. Archer, South Afr. J. Bot. 64(4): 258-260, ill., 1998. Typus: *Leistner et al.* 264 (PRE, B, K, WIND).
- Euphorbia leucodendron* ssp. *onococlada* (Drake) Rauh & Koutnik, in Rauh, Succ. Xerophyt. Pl. Madag. 2: 106, 1998. Basionym: *Euphorbia onococlada*.
- Euphorbia mangelsdorffii* Rauh, Kakt. and. Sukk. 49(2): 44-47, ill., 1998. Typus: *Mangelsdorf s.n.* in *BG Heidelberg* 74947 (HEID).
- Euphorbia meloformis* ssp. *valida* (N. E. Brown) G. D. Rowley, Euphorbiaceae Study Group Bull. 11(3): 97, 1998. Basionym: *Euphorbia valida*.
- Euphorbia obesa* ssp. *symmetrica* (A. C. White & al.) G. D. Rowley, Euphorbiaceae Study Group Bull. 11(3): 97, 1998. Basionym: *Euphorbia symmetrica*.
- Euphorbia obtusifolia* var. *wildpretii* Molero & Rovira, Taxon 47(2): 324-325, ill., 1998. Based on *Molero* 288/90. *Nom. inval.* (Art. 43.1). [Validity dependent of accepting the proposal to conserve the name *Euphorbia obtusifolia* Poiret.]
- Euphorbia platyclada* cv. *Erecta* Rauh, Succ. Xerophyt. Pl. Madag. 2: 118, ill., 1998.
- Euphorbia waringiae* Rauh & Gerold, Succulentes 21(2): 5-9, ill., 1998. Typus: *Gerold s.n.* in *BG Heidelberg* 74938 (HEID).

GERANIACEAE

- Pelargonium githagineum* E. M. Marais, South Afr. J. Bot. 64(5): 308-310, ill., 1998. Typus: *Marais* 243 (NBG, BOL, K, MO, PRE).
- Pelargonium jarmilae* Halda, Acta Mus. Richnov. Sect. Nat. 5(1): 41-42, ill. (p. 46), 1998. Typus: *Halda* 9703428 (PR). [Repeated (without Latin and type) in Cactaceae etc. 8(3): 95-97, ill., 1998.]

HYACINTHACEAE

- Ornithogalum* ser. *Clavifolia* U. Müller-Doblies & D. Müller-Doblies, Feddes Repert. 107(5-6): 516, 1996. Typus: *Ornithogalum unifoliatum* (G. D. Rowley) Obermeyer. Previously omitted.
- Ornithogalum scabrocostatum* U. Müller-Doblies & D. Müller-Doblies, Feddes Repert. 107(5-6): 516-517, pl. IVc-f, 1996. Typus: *Müller-Doblies* 79176k (PRE, B, BOL, BR, BTU, G, K, LI, M, MO, NBG, S, WIND, Z). [Previously omitted.]

LAMIACEAE

- Plectranthus angulatus* Hedge, Fl. Madag. 175: 211-212, 1998. Typus: *Bosser* 19616 (P, E).
- Plectranthus antongilicus* Hedge, Fl. Madag. 175: 160-161, 1998. Typus: *Perrier* 10475 (P).
- Plectranthus capuronii* Hedge, Fl. Madag. 175: 164-165, 1998. Typus: *Humbert et Capuron* 25183 (P, E).
- Plectranthus clementiae* Hedge, Fl. Madag. 175: 167-169, ill., 1998. Typus: *Clement et al.* 2097 (E, MO, P).
- Plectranthus rubescens* Hedge, Fl. Madag. 175: 216-219, ill., 1998. Typus: *Phillipson* 1833 (E, MO, P).
- Plectranthus gillettii* J. K. Morton, Kew Bull. 53(4): 998-999, 1998. Typus: *Gillett* 13721 (K, FI).
- Plectranthus grandibracteatus* Hedge, Fl. Madag. 175: 152, 154, 1998. Typus: *Humbert et Capuron* 24144 (P).
- Plectranthus hirsutus* Hedge, Fl. Madag. 175: 158-159, 1998. Typus: *Perrier* 10397 (P).
- Plectranthus humbertii* Hedge, Fl. Madag. 175: 194-197, ill. (pl. 18, p. 167), 1998. Typus: *Humbert et Saboureaux* 31611 (P).
- Plectranthus marrubatus* J. K. Morton, Kew Bull. 53(4): 997-998, 1998. Typus: *Gillett* 14206 (K, FI).
- Plectranthus pachyphyllus* Hedge, Fl. Madag. 175: 176-177, 1998. Based on *Humbert et al.* 24774. *Nom. illeg.* (Art. 53.1). [Non *Plectranthus pachyphyllus* Gürke ex T. Cooke 1910.]
- Plectranthus perrieri* Hedge, Fl. Madag. 175: 199-201, ill., 1998. Typus: *Seyrig* 637 (P).
- Plectranthus persoonii* (Benth.) Hedge, Fl. Madag. 175: 222-223, ill., 1998. Basionym: *Coleus persoonii*.
- Plectranthus trilobus* Hedge, Fl. Madag. 175: 205-207, ill., 1998. Typus: *Capuron* SF22442 (P).
- Plectranthus veyretiae* (Guillaumet & Cornet) Hedge, Fl. Madag. 175: 226, 1998. Basionym: *Solenostemon veyretiae*.

NOLINACEAE

- Dasyllirion gentryi* Bogler, Brittonia 50(1): 71-74, ill., 1998. Typus: *Bogler* 1145 (TEX, ME-XU).
- Dasyllirion longissimum* var. *treleasei* Bogler, Brittonia 50(1): 84-86, ill., 1998. Typus: *Purpus* 5009 (MO, F, GH, NY, US).
- Dasyllirion miquihuanense* Bogler, Brittonia 50(1): 76-79, ill., 1998. Typus: *Bogler* 738 (TEX, MEXU).
- Dasyllirion sereke* Bogler, Brittonia 50(1): 74-76, ill., 1998. Typus: *Gentry et Bye* 23359 (ARIZ, DES).

PASSIFLORACEAE

Basananthe subessilicarpa J. B. Gillett *ex* Verdcourt, *Kew Bull.* 53(4): 989-992, ill., 1998. Typus: *Gilbert et Thulin* 1131 (K, EA, UPS).

PORTULACACEAE

Anacampseros pisina G. Williamson, *Aloe* 35(1): 18-20, ills., 1998. Typus: *Williamson* 5866 (NBG).

Avonia recurvata ssp. *buderiana* (von Poellnitz) G. Williamson, *Aloe* 35(1): 22, 1998. Basionym: *Anacampseros buderiana*.

Avonia variabilis (von Poellnitz) G. Williamson, *Aloe* 35(1): 19, ills., 1998. Basionym: *Anacampseros variabilis*.

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 Baran, E. J.: → Monje, P. V.
 Bauer, H.: → Felix, D.
 Bauer, R.: → Vollmer, B.
 Boyle, T. H.: → O'Leary, M. C.
 Braun, P. J.: → Hofacker, A.
 Breuer, I.: → Borgmann, W.
 Cházaro Basáñez, M. J.: → Charrillo Reyes, P.
 Cházaro Basáñez, M. J.: → Mostul, B. L.
 Clifton, R.: → Liekkio, P.
 Craig, A. W.: → Ferryman, R.
 Cumming, D. M.: → Forster, P. I.
 Das, P.: → Das, A. B.
 Dembitsky, V. M.: → Rezanka, T.
 Diaz-Solis, A.: → Zavala-Hurtado, J. A.
 Doyle, J. J.: → Emshwiller, E.
 Escobar Santos, V. E.: → Huerta Martínez, F. M.
 Esteves Pereira, E.: → Braun, P. J.
 Ezcurra, E.: → Mourelle, C.
 Fitz Maurice, W. A.: → Anderson, E. F.
 Hanáček, P.: → Ricánek, M.
 Hart, H. 't: → Ham, R. C. H. J. van
 Hefti, C.: → Knutti, B.
 Henrickson, J.: → Felger, R.
 Hernández Martínez, M. M.: → Sánchez Martínez, E.
 Hinton, G. S.: → Lüthy, J. M.
 Holland, J. N.: → Fleming, T. H.
 Hunt, D. R. (ed.): → Kiesling, R.
 Jaarsveld, E. van: → Stander, O. P. J.
 Kiesling, R.: → Mauseth, J. D.
 Lajtha, K.: → Kolberg, K.
 Lambrou, M.: → Till, W.
 Lange, M.: → Blum, W.
 Lechner, P.: → Jantschgi, G.
 Leuenberger, B. E.: → Eggli, U.
 Li, P.: → Chen, X.
 Liede, S.: → Meve, U.
 Linder, H. P.: → Klak, C.
 Liston, R. J.: → Witkowski, E. T. F.
 Loik, M. E.: → Huxman, T. E.
 López C., L.: → Meyrán, J.
 Lüthy, A. D.: → Dicht, R. F.
 MacRoberts, B. R.: → MacRoberts, M. H.
 Mackey, E. M.: → Bicknell, S. H.
 Manzanero Medina, G. I.: → Flores Martínez, A.
 Mottram, R.: → Crook, R.
 Müller-Doblies, D.: → Müller-Doblies, U.
 Neuhuber, G. J. A.: → Till, H.
 Nicholas, A.: → Victor, J. E.
 Nyffeler, R.: → Eggli, U.
 Palomino, G.: → Cid, R.
 Perndl, H.: → Nagl, H.
 Plemons-Rodriguez, B. J.: → Mauseth, J. D.
 Porembski, S.: → Barthlott, W.
 Powys, A.: → Schulz, R.
 Rezanka, T.: → Dembitsky, V. M.
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 Russo, L.: → Nicola, A.
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 Smith, G. F.: → Steyn, E. M. A.
 Staden, J. van: → Rabe, T.
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 Terrazas, T.: → Loza-Cornejo, S.
 Thomas, H.-P.: → Gilmer, K.
 Thorwarth, H. J.: → Müller, K.
 Treviño Carreón, J.: → Hernández Barrera, J. T.
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 Wallace, R. S.: → Cota, J. H.
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 Wyk, B.-E. van: → Viljoen, A.
 Zahra, R.: → Gerloff, N.

