

ISSN 0486-4271



International Organisation
for Succulent Plant Study

Organización Internacional
para el Estudio de
Plantas Suculentas

Organisation International
de Recherche sur les
Plantes Succulentes

Internationale Organisation
für Sukkulenten-Forschung

IOS

**Repertorium
Plantarum
Succulentarum
LV (2004)**

Repertorium Plantarum Succulentarum LV (2004)

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

International Organization for Succulent Plant Study
Internationale Organisation für Sukkulantenforschung

February 2006

ISSN 0486-4271

Conventions used in Repertorium Plantarum Succulentarum

- Repertorium Plantarum Succulentarum attempts to list, under separate headings, newly published names of succulent plants and relevant literature on the systematics of these plants, on an annual basis. New names noted after the issue for the relevant year has gone to press are included in later issues. Specialist periodical literature is scanned in full (as available at the libraries at ZSS and Z or received by the compilers). Also included is information supplied to the compilers direct. It is urgently requested that any reprints of papers not published in readily available botanical literature be sent to the compilers.
- Validly published names are given in **bold face** type, 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 the 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. Eggli in Friciana 60: 1-139, 1998 ('1995')) for specialized periodicals, or those of Bibliographia Periodicorum Huntianum Ed. 2 (BPH2) for most other periodicals.

Konventionen im Zusammenhang mit dem Repertorium Plantarum Succulentarum

- Das Repertorium Plantarum Succulentarum ist eine jährlich herausgegebene Zusammenstellung neuer Namen für sukkulente Pflanzen und der relevanten systematischen Literatur. Neue Namen, die nach der Drucklegung der Ausgabe des betreffenden Jahres bekannt werden, erscheinen in der nächsten erreichbaren Ausgabe. Spezialisierte Zeitschriften werden umfassend durchgesehen, soweit sie in den Bibliotheken von Z und ZSS vorhanden sind oder den Herausgebern privat vorliegen. Die Herausgeber bitten alle Autoren dringend, Separata relevanter Publikationen zur Verfügung zu stellen, vor allem wenn es sich um Beiträge in schwer zugänglichen Serien handelt.
- Gültig veröffentlichte Namen werden in **Fettschrift** wiedergegeben 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. Im Weiteren 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. Eggli in Friciana 60: 1-139, 1998 ('1995')), für allgemeine botanische Zeitschriften in der Regel nach Bibliographia Periodicorum Huntianum Ed. 2 (BPH2).

Compiled by / Zusammengestellt von:

U. Eggli, Sukkulente-Sammlung Zürich, Mythenquai 88, CH-8002 Zürich, Switzerland.
R. Nyffeler, Institut für systematische Botanik der Universität Zürich, Zollikerstrasse 107, CH-8008 Zürich.
D. C. Zappi, The Herbarium, Royal Botanic Gardens Kew, Richmond, Surrey TW9 3AE, U.K.

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

IOS, c/o Sukkulente-Sammlung Zürich (address above / Adresse siehe oben).

© by IOS & Sukkulente-Sammlung, Zürich (Switzerland) 2006. ISSN 0486-4271.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of the copyright holder.

Compilers' Preface

As will be seen from the title page, Reto Nyffeler has joined the editorial team responsible for the compilation of RPS. DCZ and UE are very grateful to be able to welcome Reto, and thank him for his willingness to contribute to RPS.

Thanks go once again to various colleagues for their help to correct errors in previous issues, and for correcting omissions. Joachim Thiede has been especially helpful with such matters.

Due to circumstances beyond our influence, the last RPS (covering the year 2003) was published with considerable delay. The current issue, lamentably, is again late for the same reasons.

Vorwort der Herausgeber

Wie aus der Titelseite entnommen werden kann, verstärkt Reto Nyffeler ab dieser Ausgabe das Herausgeberteam. DCZ und UE heissen Reto willkommen und danken ihm für seine Bereitschaft, am RPS mitzuarbeiten.

Ein Dank geht wiederum an verschiedene Kollegen, die uns auf Fehler und Auslassungen in früheren Heften aufmerksam gemacht haben. Insbesondere Joachim Thiede hat uns in dieser Hinsicht helfend unterstützt.

Die Publikation des letzten Heftes des RPS (für das Jahr 2003) hat sich aus Gründen, die ausserhalb unserer Einflussmöglichkeiten liegen, beträchtlich verzögert. Leider trifft das aus denselben Gründen auch auf dieses Heft zu.

Corrections to previous volumes

- The name *Sedum mucizonia* ssp. *abylaeum* was validly published by Springate in 1996 (as shown in RPS 48), and the combination by Marhold in 2003 (as reported in RPS 54) is a superfluous repetition.
- The entry for *Yucca cernua* in RPS 54 is incomplete; the name was published by E. Keith.
- The name *Haworthia decipiens* var. *xiphiophylla* (Baker) M. B. Bayer 2002 was shown as correct in RPS 53 but is in fact incorrect under Art. 11.4 as the basionym of the combination has priority at species rank.

Korrekturen zu früheren Bänden

- Der Name *Sedum mucizonia* ssp. *abylaeum* wurde von Springate 1996 gültig publiziert (siehe RPS 48), und die 2003 von Marhold 2003 veröffentlichte Kombination (siehe RPS 54) ist eine unnötige Wiederholung.
- Der Eintrag für *Yucca cernua* im RPS 54 ist unvollständig; der Name wurde durch E. Keith veröffentlicht.
- Der Name *Haworthia decipiens* var. *xiphiophylla* (Baker) M. B. Bayer 2002 wird in RPS 53 als korrekt verzeichnet, ist aber in Tat und Wahrheit unter Art. 11.4 inkorrekt, da das Basionym der Kombination auf der Rangstufe der Art Priorität hat.

NOMINA NOVA

AGAVACEAE

- Agave americana** 'subtilis' (Trelease) A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 104, ills. (p. 107), 2003. Basionym: *Agave subtilis*.
- Agave americana** var. **subtilis** (Trelease) A. Valenzuela & Nabhan, *Kakt. Klub* 2004(1): 50, 2004. Basionym: *Agave subtilis*.
- Agave angustifolia** 'Gentryi' A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 101, ills. (p. 103), 2003. *Nom. inval.* (Art. ICNCP 19.13). [Sphalm. 'Gentryii'.]
- Agave angustifolia** 'Zopilote' A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 106, 2003.
- Agave angustifolia** ssp. **rubescens** (Salm-Dyck) A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 101, 2003. *Nom. inval.* (Art. 33.3), based on *Agave rubescens*. [Bracket author incorrectly given as 'Gentry'.]
- Agave angustifolia** ssp. **rubescens** 'Pes-mulae' (Trelease) A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 101, 2003. *Nom. inval.* (Art. 43.1), based on *Agave pes-mulae*.
- Agave angustifolia** ssp. **tequilana** (F. A. C. Weber) A. Valenzuela & Nabhan, *Kakt. Klub* 2004(1): 44, 50, 2004. Basionym: *Agave tequilana*.
- Agave angustifolia** ssp. **tequilana** 'Listado' A. Valenzuela & Nabhan, *Kakt. Klub* 2004(1): 45, 50, 2004. *Nom. inval.* (Art. 34.1b). [Given as "in prep.".]
- Agave angustifolia** ssp. **tequilana** 'Siguin' A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 99-100, ills., 2003.
- Agave angustifolia** ssp. **tequilana** 'Azul' A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 96, ills. (p. 98), 2003. [Given with "Weber 1902" as bracket author.]
- Agave angustifolia** ssp. **tequilana** 'Variegata' A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 97, 2003. *Nom. inval.* (Art. ICNCP 19.13).
- Agave angustifolia** var. **pes-mulae** (Trelease) A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 101, 2003. *Nom. inval.* (Art. 33.3), based on *Agave pes-mulae*.
- Agave attenuata** 'Myron's Magic' G. F. Smith, *Brit. Cact. Succ. J.* 21(4): 199-200, ills., 2004. [Dated 2003, received 26. 1. 2004. A sport obtained in cultivation.]
- Agave** ×**cavanillesii** D. Guillot & Van der Meer, *Flora Montiberica* 28: 73-74, ill., 2004. Typus: *Guillot* s.n. (VAL). [= *Agave fourcroydes* Lemaire × *A. decipiens*.]
- Agave gonzaloi** D. Guillot & Van der Meer, *Flora Montiberica* 27: 55-56, 2004. Typus: *Guillot et Van der Meer* s.n. (VAL 151000) [Based on cultivated material without known wild

origin.].

- Agave murpheyi** 'Engard' Trager, *Cact. Succ. J.* (US) 76(2): 61, ill., 2004. [A variegated selection from material originally collected in Arizona.]
- Agave** ×**rossellonii** D. Guillot & Van der Meer, *Flora Montiberica* 27: 55, 2004. Typus: *Guillot et Van der Meer* s.n. (VAL 151001). [Sphalm. 'rossellonensis'; = *Agave walleriana* × *A. polyacantha* var. *xalapensis*.]
- Agave vivipara** var. **bermejo** A. Valenzuela & Nabhan, *Tequila Nat. Cult. Hist.*, 102, ills. (p. 105), 2003. *Nom. inval.* (Art. 36.1, 37.1).
- Yucca arkansana** ssp. **freemanii** (Shinners) Hochstätter, *Piante Grasse* 24(2): 56, ills., 2004. Basionym: *Yucca freemanii*.
- Yucca whipplei** ssp. **rigata** Afferni & Drovandi ex Afferni, *Piante Grasse* 24(3): 92, ills. (pp. 90-93), 2004. Typus: *Afferni* s.n. (FT).

AIZOACEAE

- Drosanthemeae** Chesselet & al., *Bothalia* 34(1): 49, 2004. Typus: *Drosanthemum* Schwantes.
- Drosanthemum anemophilum** van Jaarsveld & S. A. Hammer, *Cact. Succ. J.* (US) 76(4): 204, ills. (pp. 202-203), 2004. Typus: *van Jaarsveld* 13695 (PRE).
- Fenestraria rhopalophylla** 'Hori-no Violet' Y. Shimada, *Mesemb Study Group Bull.* 19(1): 21, fig. 19.18 (p. 19), 2004. [A mutation obtained in cultivation.]
- Gibbaeum hortenseae** (N. E. Brown) Thiede & Klak, *Strelitzia* 9: 705, 2000. Basionym: *Muiria hortenseae*. [= Goldblatt & Manning, *Cape Plants*. Omitted previously.]
- ×**Gibbaotus** S. A. Hammer, *Mesemb Study Group Bull.* 19(4): 74, 2004. [= *Gibbaeum* × *Didymaotus*.]
- Glottiphyllum longum** 'Yellow Fever' Trager, *Cact. Succ. J.* (US) 76(2): 66, ill., 2004. [A horticultural selection.]
- Mitrophyllum margaretae** S. A. Hammer, *Schumannia* No. 4: 75, ills. (pp. 74, 79), 2004. Typus: *Hammer* 1954 (HBG, BOL). [Type number erroneously given as '1953' in the English protologue.]
- ×**Pleiodesma** S. A. Hammer, *Mesemb Study Group Bull.* 19(4): 74, 2004. [= *Pleiospilos* × *Prepodesma*.]
- Titanopsis calcarea** 'Kingcalcarea' Y. Shimada, *Mesemb Study Group Bull.* 19(1): 21, fig. 19.17 (p. 19), 2004. [Raised from habitat-collected seeds.]

ALOEACEAE

- Aloe** 'Doran Black' C. B. Wright *ex* H. Mays & Trager, *Alsterworthia Internat.* 4(2): 4, 2004. [First published invalidly as 'Dorian Black' in a Grigsby Plant Catalogue and repeated by R. Wright *ex* P. I. Forster & D. M. Cumming, *Haworthiad* 12(1): 12, 1998 (*nom. inval.*, ICNCP 26.6).]
- Aloe** 'Wunderkind' Kemble *ex* Trager, *Cact. Succ. J. (US)* 76(2): 63, ill., 2004. [A horticultural selection from a form of *Aloe deltoideodonta*.]
- Aloe cyrillei** Castillon, *Haseltonia* 10: 44-46, ill., 2004. Typus: *Castillon* 5 (P).
- Aloe florenceae** Lavranos & T. A. McCoy, *Kakt. and. Sukk.* 55(10): 284, ill., 2004. Typus: *Razafindratsira* s.n. in *Lavranos* 31860 (TAN, P, Z).
- Aloe irafensis** Lavranos & al., *Cact. Succ. J. (US)* 76(3): 134-137, ill., 2004. Based on *Al-Gifri et al.* s.n.. *Nom. inval.* (Art. 37.1). [Based on 2 syntypes.]
- Aloe jawiyon** Christie & al., in A. G. Miller & M. Morris, *Ethnofl. Soqotra Archip.*, 723, 2004. Typus: *Miller et al.* 20022 (E).
- Aloe kouebokkeveldensis** van Jaarsveld & A. B. Low, *Aloe* 41(2-3): 36-37, ill., 2004. Typus: *van Jaarsveld et Ems* 17744 (PRE).
- Aloe omavandae** van Jaarsveld, *Haseltonia* 10: 41, ill. (pp. 42-43), 2004. Typus: *van Jaarsveld* 17480 (WIND).
- Aloe pseudoparvula** Castillon, *Kakt. and. Sukk.* 55(8): 219-221, ill., 2004. Typus: *Castillon* 15 (HBG).
- Aloe sakarahensis** Lavranos & M. Teissier, *Succulentas* 2004(3): 19-20, ill. (p. 14), 2004. Typus: *Teissier* 274 (Z).
- Aloe sakarahensis** ssp. *pallida* (Rauh) Lavranos & M. Teissier, *Succulentas* 2004(3): 20, 2004. Basionym: *Aloe prostrata* ssp. *pallida*.
- Aloe sakoankenke** Castillon, *Haseltonia* 10: 46, 48-50, ill., 2004. Typus: *Castillon* 10 (P, MO).
- Aloe trachyticola** var. *multifolia* Castillon, *Haseltonia* 10: 46-47, ill., 2004. Typus: *Castillon* 7 (P).
- ×**Gasteraloe** 'Goliath' Trager, *Cact. Succ. J. (US)* 76(2): 65, ill., 2004. [A horticultural selection between *Aloe variegata* and *Gasteria brachyphylla* as the other parent.]
- Gasteria** 'Green Spiral' R. Scott, *Alsterworthia Internat.* 4(3): 27, fig. 42, 2004. [Parentage unknown, and perhaps an intergeneric cross.]
- ×**Gastroloba** 'Delbat' R. Scott, *Alsterworthia Internat.* 4(3): 27, fig. 43 (p. 28), 2004. [= *Astroloba deltoidea* × ×*Gasteraloe* 'Little Warty'.]
- ×**Gastroloba** 'Grugwyn' R. Scott, *Alsterworthia Internat.* 4(3): 27, fig. 44 (p. 28), 2004. [= *Astroloba deltoidea* × ×*Gasteraloe* 'Old Man Silver'.]
- Haworthia** 'Atlantis' Anonymus, *Haworthia Study* No. 11: 5, ill., 2004. [Presumably *H. cooperi* × *H. wimii*.]
- Haworthia** 'Bacchus' Anonymus, *Haworthia Study* No. 11: 5, ill., 2004. [Presumably *H. atrofusca* × *H. splendens*.]
- Haworthia** 'Bristle Tip' F. Hoes, *Alsterworthia Internat.* 4(1): 22-23, ill., 2004. [= *H. truncata* × *H. maughanii*] × *H. emelyae* var. *major*.]
- Haworthia** 'Gremlin' Anonymus, *Haworthia Study* No. 11: 5, ill., 2004. [Presumably *H. pygmaea* × *H. wimii*.]
- Haworthia** 'Imagine' Anonymus, *Haworthia Study* No. 11: 1, ill., 2004. [Presumably *H. wimii* × *H. splendens*.]
- Haworthia** 'Macubilis' Anonymus, *Haworthia Study* No. 11: 5, ill., 2004. [Presumably *H. maculata* × *H. mirabilis*.]
- Haworthia** 'Pictidens' Anonymus, *Haworthia Study* No. 11: 4, ill., 2004. [Presumably *H. picta* × *H. splendens*.]
- Haworthia** 'Silver Bug' F. Hoes, *Alsterworthia Internat.* 4(1): 23, ill. (back cover), 2004. [= *H. pygmaea* fa. *crystallina* × *H. emelyae* var. *major*.]
- Haworthia** 'Silvidens' Anonymus, *Haworthia Study* No. 11: 3, ill., 2004. [Presumably *H. silviae* × *H. splendens*.]
- Haworthia** 'White Star' Mak, *Alsterworthia Internat.* 4(1): 10, ill., 2004. [A garden hybrid of unknown origin or parentage.]
- Haworthia** 'Wimdens' Anonymus, *Haworthia Study* No. 11: 2, ill., 2004. [Presumably *H. wimii* × *H. splendens*.]
- Haworthia amethysta** M. Hayashi, *Haworthia Study* No. 10: 1, 14, cover ill., figs. 26-28, 2003. Typus: *Hayashi* 03-456 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia aquamarina** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 6 (p. 9), 2003. Typus: *Hayashi* 03-427 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia caesia** M. Hayashi, *Haworthia Study* No. 10: 14, figs. 24-25 (p. 13), 2003. Typus: *Hayashi* 03-266 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia crinita** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 10 (p. 10), 2003. Typus: *Hayashi* 03-272 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia cummingii** Breuer & M. Hayashi, *Haworthia Study* No. 10: 4-5, ill., 2003. Typus: *Cumming* 11214 (GRA).
- Haworthia eminens** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 12 (p. 10), 2003. Typus: *Hayashi* 03-287 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia exilis** M. Hayashi, *Haworthia Study* No. 10: 12, fig. 3 (p. 8), 2003. Typus: *Hayashi* 03-378 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia flavida** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 11 (p. 10), 2003. Typus: *Hayashi* 03-410 (Res. Inst. Evol. Biol., Tokyo).

- Haworthia floccosa** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 8 (p. 9), 2003. Typus: *Hayashi* 03-271 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia hamata** M. Hayashi, *Haworthia Study* No. 10: 12, fig. 2 (p. 8), 2003. Typus: *Hayashi* 03-424 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia intermedia** var. **livida** (M. B. Bayer) J. Esterhuizen, *Alsterworthia Internat.* 3(1): 12, ills., 2003. Basionym: *Haworthia pubescens* var. *livida*. [Erroneously omitted from RPS 54.]
- Haworthia jansenvillensis** Breuer, *Alsterworthia Internat.* 4(2): 16-17, ills., 2004. Typus: *Breuer* 6996 (GRA). [First used as provisional name in l.c. 2(3): 4, ill., 2002.]
- Haworthia lateritia** M. Hayashi, *Haworthia Study* No. 11: 14-15, ills., 2004. Typus: *Hayashi* 03-315 (Res. Inst. Evol. Biol., Tokyo). [Sphalm. 'latericia'.]
- Haworthia mollis** M. Hayashi, *Haworthia Study* No. 10: 14, fig. 15 (p. 11), 2003. Typus: *Hayashi* 03-426 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia pectinis** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 9 (p. 9), 2003. Typus: *Hayashi* 03-273 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia regalis** M. Hayashi, *Haworthia Study* No. 10: 13, fig. 13 (p. 10), 2003. Typus: *Hayashi* 03-280 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia regina** M. Hayashi, *Haworthia Study* No. 10: 14, fig. 14 (p. 11), 2003. Typus: *Hayashi* 03-274 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia subularis** M. Hayashi, *Haworthia Study* No. 10: 12, fig. 4 (p. 8), 2003. Typus: *Hayashi* 03-39 (Res. Inst. Evol. Biol., Tokyo).
- Haworthia succinea** M. Hayashi, *Haworthia Study* No. 10: 14, figs. 20-21 (p. 12), 2003. Typus: *Hayashi* 03-267 (Res. Inst. Evol. Biol., Tokyo). [Sphalm. 'succinea'.]

APOCYNACEAE

- Pachypodium** Ser. **Densiflora** J. Lüthy, *Bradleya* 22: 91, 2004. Typus: *Pachypodium densiflorum* Baker.
- Pachypodium** Ser. **Pseudoternata** J. Lüthy, *Bradleya* 22: 90, 2004. Typus: *Pachypodium ambongense* Poisson.
- Pachypodium** Subgen. **Nesopodium** J. Lüthy, *Bradleya* 22: 90, 2004. Typus: *Pachypodium rosulatum* Baker.
- Pachypodium makayense** Lavranos, *Cact. Succ. J. (US)* 76(2): 85-88, ills., 2004. Typus: *Röösli et Hoffmann* 8/02 (MO, P, TAN).
- Pachypodium rosulatum** ssp. **bemarahense** J. Lüthy & Lavranos, *Cact. Succ. J. (US)* 76(6): 293, 2004. Typus: *Röösli et Hoffmann* 8/03 (TAN). [Full description and illustrations in l.c. 77(1): 38-42, 46, 2005.]
- Pachypodium rosulatum** ssp. **bicolor** (Lavranos & Rapanarivo) J. Lüthy, *Bradleya* 22: 91, ills. (p. 114), 2004. Basionym: *Pachypodium bico-*

lor.

- Pachypodium rosulatum** ssp. **cactipes** (K. Schumann) J. Lüthy, *Bradleya* 22: 91, ills. (pp. 115, 117), 2004. Basionym: *Pachypodium cactipes*.
- Pachypodium rosulatum** ssp. **gracilius** (H. Perrier) J. Lüthy, *Bradleya* 22: 91, ills. (p. 118), 2004. Basionym: *Pachypodium rosulatum* var. *gracilius*.
- Pachypodium rosulatum** ssp. **makayense** (Lavranos) J. Lüthy, *Bradleya* 22: 91, ills. (pp. 117, 119), 2004. Basionym: *Pachypodium makayense*.

ASCLEPIADACEAE

- Ceropegia anantii** S. R. Yadav & al., *J. Bombay Nat. Hist. Soc.* 101(1): 141, ills. (pp. 142-143), 2004. Typus: *Yadav* 495 (CAL, BLAT, BSI, K, SUK).
- Ceropegia fusca* fa. *aurea* A. Leroy, *Cact. Vetpl. (Wijnegem - 2)* 21(5): 74-75, ill., 2004. *Nom. inval.* (Art. 36.1, 37.1).
- Ceropegia laikipiensis** Masinde, *Kew Bull.* 59(2): 241-243, ills., 2004. Typus: *Powys* 20 (K).
- Ceropegia manderensis** Masinde, *Kew Bull.* 59(2): 242-245, ills., 2004. Typus: *Gilbert et Thulin* 1443 (EA, K, UPS).
- Desmidorchis tardellii** Mosti & Raffaelli, *Webbia* 59(2): 289, ills., 2004. Typus: *Raffaelli et al.* s.n. (FT).
- Echidnopsis inconspicua** Bruyns, *Edinburgh J. Bot.* 61(1): 9-10, ills., 2004. Typus: *Miller et al.* 19104 (E).
- Echidnopsis plowesiana** Orlando, *Kakt. and. Sukk.* 55(6): 158-159, ills., 2004. Typus: *Orlando* 221101b (FT, CAI, ORT).
- ×**Hoodiorbea** G. D. Rowley, *Asklepios* No. 89: 10, 2004. [Dated Dec. 2003, received 19. 2. 2004.] [= *Hoodia* × *Orbea*.]
- ×**Hoodiorbea triebneri** (C. A. Lückhoff) G. D. Rowley, *Asklepios* No. 89: 10, 2004. Basionym: ×*Hoodiopsis triebneri*. [Dated Dec. 2003, received 19. 2. 2004.]
- ×**Hoodiotriche** G. D. Rowley, *Asklepios* No. 89: 10, 2004. [Dated Dec. 2003, received 19. 2. 2004.] [= *Hoodia* × *Tromotriche*.]
- Hoya** 'Christine' C. Noel, *Asklepios* No. 91: 11-12, ills., 2004. [Probably *H. subquintuplinervia* × *H. pottsii*.]
- Hoya** 'Iris Marie' C. Noel, *Asklepios* No. 91: 12-13, ills., 2004. [*H. cebra* × *H. schneei*.]
- Hoya** 'Jennifer' C. Noel, *Asklepios* No. 91: 13-14, ills., 2004. [Probably *H. incrassata* × *H. finlaysonii*.]
- Hoya** 'Joy' C. Noel, *Asklepios* No. 91: 12, ills., 2004. [Probably *H. sp.* × *H. vitellina*.]
- Hoya** 'Mrs. G' C. Noel, *Asklepios* No. 91: 14, ills., 2004. [Probably *H. australis* ssp. *keysii* × *H. sp.*]

- Hoya** 'Noelle' C. Noel, Asklepios No. 91: 13, ills., 2004. [Probably *H. vitellinoides* × *H. vitellina*.]
- Hoya** 'Sunrise' C. Noel, Asklepios No. 91: 11, ills., 2004. [= *Hoya lacunosa* ssp. *pallidiflora* × *H. obscura*.]
- Hoya kastbergii** Kloppenburg, Fraterna 16(4): 1-2, ills., cover-ill., 2004. Typus: *Kastberg* s.n. (UC 102003). [Dated Oct.-Dec. 2003 on the cover, post-marked 8. 1. 2004.]
- Hoya memoria** Kloppenburg, Fraterna 17(4): 2, ills. (incl. cover), 2004. Typus: *Kloppenburg* 81074 (UC).
- Hoya monetteae** T. Green, Fraterna 17(2): 10-15, ills., 2004. Typus: *Green* 007 (BISH).
- Hoya sigillata** T. Green, Fraterna 17(3): 2-4, ills., cover-ill., 2004. Typus: *Anonymus* s.n. in *Green* 91024 (BISH). [Sphalm. 'sigillatis'.]
- Hoya tomataensis** T. Green & Kloppenburg, Fraterna 17(2): 1-5, ills. (incl. cover), 2004. Typus: *Green* s.n. (BISH 19086).
- Hoya walliniana** Kloppenburg & Nyhuus, Fraterna 16(4): 9-13, ills., 2004. Typus: *Kloppenburg et Nyhuus* s.n. (UC 112003). [Dated Oct.-Dec. 2003 on the cover, post-marked 8. 1. 2004.]
- ×**Huernialluma** G. D. Rowley, Asklepios No. 89: 10, 2004. [Dated Dec. 2003, received 19. 2. 2004.] [= *Huernia* × *Caralluma*.]
- Orbea elegans* Plowes, Asklepios No. 90: 14-15, ills., 2004. Based on *Winter et Nienaber* 434 in *Plowes* 8986. *Nom. inval.* (Art. 37.6?).
- ×**Orbelia leachii** (P. V. Heath) G. D. Rowley, Asklepios No. 89: 11, 2004. Basionym: ×*Orbestemon leachii*. [Dated Dec. 2003, received 19. 2. 2004.]
- ×**Orbelia tarantuloidea** (R. A. Dyer) G. D. Rowley, Asklepios No. 89: 11, 2004. Basionym: *Stapelia* ×*tarantuloidea*. [Dated Dec. 2003, received 19. 2. 2004.]
- ×**Piaraonea** G. D. Rowley, Asklepios No. 89: 11, 2004. [Dated Dec. 2003, received 19. 2. 2004.] [= *Piaraanthus* × *White-sloanea*.]
- ×**Staparesia thompsoniorum** (van Jaarsveld & Nagel) G. D. Rowley, Asklepios No. 89: 11, 2004. Basionym: *Tavaresia thompsoniorum*. [Dated Dec. 2003, received 19. 2. 2004.]
- ×**Tavarorbea** C. C. Walker, New Zealand Cact. Succ. J. 57(4): 103, 2004. [= *Tavaresia* × *Orbea*.]
- ×**Tavarorbea** 'Red Leopard' C. C. Walker, New Zealand Cact. Succ. J. 57(4): 103, ills. (p. 105, cover ill.), 2004. [= *Tavaresia barklyi* × ?*Orbea variegata*.]
- ×**Tridentapelia** G. D. Rowley, Asklepios No. 89: 11, 2004. [Dated Dec. 2003, received 19. 2. 2004.] [= *Tridentea* × *Stapelia*.]
- ×**Tridentapelia bijliae** (Pillans) G. D. Rowley, Asklepios No. 89: 11-12, 2004. Basionym: *Stapelia* ×*bijliae*. [Dated Dec. 2003, received 19. 2. 2004.]

- ×**Tromostapelia maculosa** (Donn) G. D. Rowley, Asklepios No. 89: 12, 2004. Basionym: *Stapelia* ×*maculosa*. [Dated Dec. 2003, received 19. 2. 2004.]

ASPHODELACEAE

- Bulbine dactylopsoides** G. Williamson, Aloe 41(2-3): 32-35, ills., 2004. Typus: *Williamson et Kritzing* 6009 (BOL, NBG).
- Bulbine inamarxiae** G. Williamson & A. P. Dold, Aloe 41(2-3): 28-31, ills., 2004. Typus: *Zeyher* 1068 (SAM in NBG, BOL, K).
- Bulbine pendula** Keighery, Nuytsia 15(2): 241-243, ills., 2004. Typus: *Trudgen* 370 (PERTH).

ASTERACEAE

- Senecio grantii** (Oliver & Hiern) Zonneveld, Succulenta 83(6): 269, ills., 2004. Basionym: *Notonia grantii*.
- Senecio notonioides** (S. Moore) Zonneveld, Succulenta 83(6): 268, 2004. Basionym: *Crassocephalum notonioides*.

CACTACEAE

- Blossfeldieae** Crozier, Phytologia 86(2): 56, 2004. Typus: *Blossfeldia* Werdermann.
- Blossfeldioideae** Crozier, Phytologia 86(2): 55, 2004. Typus: *Blossfeldia* Werdermann.
- Cereus estevesii** P. J. Braun, Brit. Cact. Succ. J. 22(1): 18-22, ills., 2004. Typus: *Esteves Pereira* 497 (UFG 22434).
- Cipocereus minensis** ssp. *leiocarpus* N. P. Taylor & Zappi, Cacti Eastern Brazil, 288, ills. (t. 31: 1-3), 2004. Typus: *Taylor, Zappi et Eggl* 1506 (HRCB, BHCB, K, ZSS).
- ×**Cleistonocereus** G. D. Rowley, Brit. Cact. Succ. J. 22(2): 65, 2004. [= *Cleistocactus* × *Echinocereus*.]
- ×**Cleistonocereus** 'Quirk' G. D. Rowley, Brit. Cact. Succ. J. 22(2): 64-65, ill., 2004. [= *Cleistocactus strausii* × *Echinocereus poselgeri*.]
- ×**Cleistoza** G. D. Rowley, Brit. Cact. Succ. J. 22(2): 64, 2004. [= *Cleistocactus* × *Denmoza*.]
- Copiapoa humilis** ssp. *australis* Hoxey, Brit. Cact. Succ. J. 22(1): 39-41, ills., 2004. Typus: *Hoxey et al.* 472.07 (SGO 150209).
- ×**Disonopsis** G. D. Rowley, Cact. Syst. Init. No. 18: 13, 2004. [= *Disocactus* × *Echinopsis*.]
- Echinocereus acifer** ssp. *topiensis* (Rischer & Trocha) Rischer, Echinocereenfreund 17(4): 88, 2004. Basionym: *Echinocereus topiensis*.

- Echinocereus scheeri** ssp. **rischeri** R. C. Römer, *Echinocereenfreund* 17(1): 5-8, ill., 2004. Typus: *Rischer* 605 (UAT 21634).
- Echinomastus hispidus** D. Donati & Zanovello, *Piante Grasse* 24(4): 138, ill. (pp. 134-136, 143), 2004. Typus: *Brack* 452 (PAD?) [Cult. ex sem., Horto Botanico Patavina, depositum HG 54081"].
- ×**Echinomoza** G. D. Rowley, *Brit. Cact. Succ. J.* 22(2): 64, 2004. [= *Echinopsis* × *Denmoza*.]
- ×**Echinomoza roseiflora** (F. Font & Picca) G. D. Rowley, *Brit. Cact. Succ. J.* 22(2): 64, 2004. Basionym: ×*Trichomoza roseiflora*.
- Echinopsis** 'Dangerous Journey' Trager, *Cact. Succ. J. (US)* 76(2): 59, ill., 2004. [A horticultural selection.]
- Echinopsis** 'Ring Nebula' Trager, *Cact. Succ. J. (US)* 76(2): 59, ill., 2004. [A horticultural selection.]
- Epiphyllum phyllanthus** ssp. **cleistogamus** Süpplie, *Succulenta* 83(5): 221-222, ill., 2004. Typus: *Süpplie* FAS23450 (Herb. EPRIC Foundation, Nijmegen). [Sphalm. 'cleistogamum', corrected l.c. (6): 260.]
- Espostoa lanata** ssp. **roseiflora** J. E. Madsen & Z. Aguirre, *Nordic J. Bot.* 23(1): 24-25, ill., 2004. Typus: *Madsen et Galvez* 7444 (LOJA, AAU, B, K, MO, QCA, QCNE, S, ZSS).
- ×**Espostocactus baumannii** (Kníze) G. D. Rowley, *Brit. Cact. Succ. J.* 22(2): 65, 2004. Basionym: *Espostoa baumannii*.
- ×**Espostocactus erectispinus** (Rauh & Backeberg) G. D. Rowley, *Brit. Cact. Succ. J.* 22(2): 65, 2004. Basionym: *Loxanthocereus erectispinus*.
- Facheiroa braunii** Esteves, *Cact. Succ. J. (US)* 76(2): 82, 2004. Typus: *Esteves Pereira* 238 (UFG 12384). [See additional data l.c. (3): 126-131, ill., 2004, and the erratum (regarding the herbarium accession number) l.c. 77(3): 115, 2005.]
- Ferocactus acanthodes** ssp. **tortulispinus** (G. E. Lindsay) F. Wolf & R. Wolf, *Ferokakt. Baja California*, 25, ill. (pp. 24-29), 2004. *Nom. inval.* (Art. 43.1?), based on *Ferocactus tortulispinus*. [The validity depends on the status of *Ferocactus acanthodes*, which was proposed as *nomen rejiciendum*.]
- Ferocactus diguetii** ssp. **carmenensis** (G. E. Lindsay) F. Wolf & R. Wolf, *Ferokakt. Baja California*, 93, ill. (pp. 92-97), 2004. Basionym: *Ferocactus diguetii* var. *carmenensis*.
- Ferocactus peninsulæ** ssp. **viscainensis** (G. E. Lindsay) F. Wolf & R. Wolf, *Ferokakt. Baja California*, 151, ill. (pp. 150-155), 2004. Basionym: *Ferocactus viscainensis*.
- Ferocactus viridescens** ssp. **littoralis** (G. E. Lindsay) F. Wolf & R. Wolf, *Ferokakt. Baja California*, 207, ill. (pp. 206-215), 2004. Basionym: *Ferocactus viridescens* var. *littoralis*.
- Ferocactus viridescens** ssp. **orcuttii** (Engelmann ex Orcutt) F. Wolf & R. Wolf, *Ferokakt. Baja California*, 218, ill. (pp. 216-225), 2004. Basionym: *Echinocactus orcuttii*.
- Frailea gracillima** fa. **lepida** (Buining & Brederoo) Hofacker & Berka ex Berka, *Kaktusy* 40(Special 1): 16, 2004. Basionym: *Frailea lepida*.
- Frailea gracillima** var. **fecotrigensis** (Prestlé) Berka, *Kaktusy* 40(Special 1): 16, 2004. Basionym: *Frailea horstii* ssp. *fecotrigensis*.
- Frailea schilinzkyana** ssp. **matoana** (Buining & Brederoo) Berka, *Kaktusy* 40(Special 1): 14, 2004. Basionym: *Frailea matoana*.
- Gymnocalycium anisitsii** ssp. **volkeri** Amerhauser, *Gymnocalycium* 17(1): 559, ill., 2004. Typus: *Amerhauser* 98-1403 (LPB).
- Gymnocalycium anisitsii** var. **tucavocense** Backeberg ex H. Till & Amerhauser, *Gymnocalycium* 17(1): 558-559, ill., 2004. Typus: *Amerhauser* 95-984 (LPB).
- Gymnocalycium damsii** var. **boosii** Amerhauser, *Gymnocalycium* 17(1): 554, ill., 2004. Typus: *Amerhauser* 02-1665 (LPB, WU).
- Gymnocalycium damsii** var. **centrispinum** Backeberg ex H. Till & Amerhauser, *Gymnocalycium* 17(1): 555, ill., 2004. Typus: *Amerhauser* 95-981a (LPB).
- Gymnocalycium damsii** var. **rotundulum** Backeberg ex H. Till & Amerhauser, *Gymnocalycium* 17(1): 555-556, ill., 2004. Typus: *Amerhauser* 03-1716 (LPB).
- Gymnocalycium damsii** var. **torulosum** Backeberg ex H. Till & Amerhauser, *Gymnocalycium* 17(1): 553-554, ill., 2004. Typus: *Amerhauser* 02-1664 (LPB).
- Gymnocalycium denudatum** ssp. **angelae** (Meregalli) Prestlé, *Gymnocalycium* 17(2): 577, ill. (pp. 576-577), 2004. Basionym: *Gymnocalycium angelae*.
- Gymnocalycium denudatum** ssp. **angulatum** Prestlé, *Gymnocalycium* 17(2): 573-574, ill., 2004. Typus: *Prestlé* 780 (ICN).
- Gymnocalycium denudatum** ssp. **necopinum** Prestlé, *Gymnocalycium* 17(2): 575-576, ill., 2004. Typus: *Prestlé* 876 (ICN).
- Gymnocalycium rhodantherum** var. **cinerascens** H. Till, *Gymnocalycium* 17(3): 583-584, ill., 2004. Typus: *Till* 90-308 (BA).
- Gymnocalycium schickendantzii** ssp. **periferarium** Neuhuber, *Gymnocalycium* 17(2): 564, ill., 2004. Typus: *Neuhuber* 93-414 (BA, WU). [Epithet presumably correctable to 'peripherale'.]
- Gymnocalycium schickendantzii** var. **pectinatum** Neuhuber, *Gymnocalycium* 17(2): 565, ill., 2004. Typus: *Neuhuber* 96-902/2966 (BA, WU).
- Gymnocalycium spegazzinii* var. **armatum** (F. Ritter) Slaba & Sorma, *Kaktusy* 40(3): 69, 2004. *Nom. inval.* (Art. 33.3), based on *Gymnocalycium armatum*.
- ×**Hatbergera** Süpplie, *Schlumbergera* Direct. Spec. Hybr., [4], 2004. [= *Hattoria* × *Schlumbergera*.]

- ×**Hatbergera** 'Japanese Dream' Süplie, Schlumbergera Direct. Spec. Hybr., [4], 2004. [= *Hatiora gaertneri* × *Schlumbergera* cv. # 232.]
- Lobivia acanthoplegma** var. *oligotricha* (Cárdenas) Gertel & R. Wahl, Kakt. and. Sukk. 55(1): 13, 2004. *Nom. inval.* (Art. 33.3, 43.1), based on *Lobivia oligotricha*. [Ascribed to Rausch.]
- Lophophora pentagona** (Croizat) Gapon, Kakt. Klub 2004(2): 49, 2004. Basionym: *Lophophora williamsii* var. *pentagona*.
- Lophophora pluricostata** (Croizat) Gapon, Kakt. Klub 2004(2): 49, 2004. Basionym: *Lophophora williamsii* var. *pluricostata*.
- Maihueiopsis subterranea** ssp. *pulcherrima* (Halda & Horáček) M. Lowry, Tephrocactus Study Group 10(4): 55, ill. (p. 54), 2004. Basionym: *Tephrocactus pulcherrimus*. [Sphalm. 'pulcherrimus'.]
- Mammillaria rhodantha** ssp. *fuscata* (Link & Otto ex Pfeiffer) Rogozinski & Plein, Mitteilungsbl. AfM 28(1): 28, 2004. Basionym: *Mammillaria fuscata*. [First published invalidly (Art. 33.3) l.c. 27(4): 170, 2003.]
- Mammillaria rhodantha** ssp. *odieriana* (Lemaire) Rogozinski & Plein, Mitteilungsbl. AfM 28(2): 88, ill. (pp. 80-88), 2004. *Nom. illeg.* (Art. 52.1), based on *Mammillaria odieriana*. [Illegitimate vs. *M. rhodantha* ssp. *aureiceps* (Lemaire) D. R. Hunt 1997 since the latter's basionym is said to be identical to the plants treated as ssp. *odieriana* (l.c. p. 83).]
- Mammillaria rhodantha** ssp. *santarosensis* Rogozinski & Plein, Mitteilungsbl. AfM 28(1): 13-15, ill., 2004. Typus: *Rogozinski* 491 (UAT).
- Mammillaria theresae** 'Annushka' Krutsh, Kakt. Klub 2004(2): 20-21, ill., 2004. [A horticultural sport.]
- Melocactus calderanus** Eerkens, Succulenta 83(4): 166-167, ill., 2004. Based on *Horst et Uebelmann* HU 465. *Nom. inval.* (Art. 34.1b). [Published as provisional name.]
- Melocactus conoideus** ssp. *braunii* (Esteves) Guiggi, Succulentas 2004(4): 19, 2004. Basionym: *Melocactus braunii*.
- Melocactus zehntneri** fa. *douradaensis* (Hovens & Strecker) Delanoy, Cactus & Co. 8(4): 262, 2004. *Nom. inval.* (Art. 33.3?), based on *Melocactus douradaensis*. [Questionably valid, since the basionym reference is given in the list of literature citations.]
- Micranthocereus polyanthus** ssp. *alvinii* M. Machado & Hofacker, Kakt. and. Sukk. 55(5): 127-129, ill., 2004. Typus: *Machado* 32 (HUEFS).
- Notocactus arachnitis** fa. *minor* (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 52, 2004. Basionym: *Notocactus arachnitis* var. *minor*.
- Notocactus arnostianus** fa. *curvispinus* (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 108, 2004. Incorrect name (Art. 11.4), based on *Notocactus curvispinus*. [The basionym of the combination has priority over *N. arnostianus*.]
- Notocactus concinnus** fa. *aceguensis* (N. Gerloff) N. Gerloff & Neduchal, Internoto 25(2): 55, 2004. Basionym: *Notocactus concinnus* var. *aceguensis*.
- Notocactus concinnus** fa. *agnetae* (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 55, 2004. Basionym: *Notocactus agnetae*.
- Notocactus concinnus** fa. *gibberulus* (Prestlé) N. Gerloff & Neduchal, Internoto 25(2): 56, 2004. Basionym: *Notocactus gibberulus*.
- Notocactus concinnus** fa. *rubrigemmatum* (W.-R. Abraham) N. Gerloff & Neduchal, Internoto 25(2): 56, 2004. Basionym: *Notocactus rubrigemmatum*.
- Notocactus concinnus** var. *caespitosus* (Spegazzini) N. Gerloff & Neduchal, Internoto 25(2): 55, 2004. Basionym: *Echinocactus caespitosus*.
- Notocactus erubescens** fa. *schlosseri* (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 57, 2004. Basionym: *Notocactus schlosseri*.
- Notocactus glaucinus** fa. *densipinus* (Bergner) N. Gerloff & Neduchal, Internoto 25(2): 59, 2004. Basionym: *Notocactus laetevirens* fa. *densispinus*.
- Notocactus glaucinus** var. *ibicuiensis* (Prestlé) N. Gerloff & Neduchal, Internoto 25(2): 58, 2004. Basionym: *Notocactus ibicuiensis*.
- Notocactus glaucinus** var. *incomptus* (N. Gerloff) N. Gerloff & Neduchal, Internoto 25(2): 58, 2004. Basionym: *Notocactus incomptus*.
- Notocactus glaucinus** var. *laetevirens* (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 59, 2004. Basionym: *Notocactus laetevirens*. [Sphalm. 'laetivirens'.]
- Notocactus graessneri** fa. *albisetus* (Cullmann) N. Gerloff & Neduchal, Internoto 25(2): 46, 2004. Basionym: *Brasilicactus graessneri* var. *albisetus*.
- Notocactus herteri** var. *roseoluteus* (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 60, 2004. Basionym: *Notocactus roseoluteus*.
- Notocactus magnificus** var. *warasii* (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 42, 2004. Basionym: *Eriocactus warasii*.
- Notocactus mammulosus** fa. *crystalloides* (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 109, 2004. Basionym: *Notocactus crystalloides*.
- Notocactus mammulosus** fa. *floricomus* (Arechavaleta) N. Gerloff & Neduchal, Internoto 25(2): 110, 2004. Basionym: *Echinocactus floricomus*.
- Notocactus mammulosus** fa. *macambarensis* (Prestlé) N. Gerloff & Neduchal, Internoto 25(2): 110, 2004. Basionym: *Notocactus macambarensis*.
- Notocactus mammulosus** var. *erythracanthus* (H. Schlosser) N. Gerloff & Neduchal, Internoto 25(2): 109, 2004. Basionym: *Notocactus erythracanthus*.
- Notocactus mammulosus** var. *megalanthus* (H. Schlosser & Brederoo) N. Gerloff & Neduchal, Internoto 25(2): 110, 2004. Basionym: *Notocactus megalanthus*.

- Notocactus mammulosus* var. *orthacanthus* (Link & Otto) N. Gerloff & Neduchal, Internoto 25(2): 111, 2004. Incorrect name (Art. 11.4), based on *Echinocactus orthacanthus*. [The basionym of the combination has priority over *N. mammulosus*.]
- Notocactus mammulosus** var. **paulus** (H. Schlosser & Brederoo) N. Gerloff & Neduchal, Internoto 25(2): 111, 2004. Basionym: *Notocactus paulus*. [First published invalidly (Art. 33.3) by Havlicek, Rundbrief Internoto AK Neonotocactus 1994(4): 4.]
- Notocactus minimus** var. **ruoffii** (N. Gerloff) N. Gerloff & Neduchal, Internoto 25(2): 63, 2004. Basionym: *Notocactus ruoffii*.
- Notocactus minimus** var. **stockingeri** (Prestlé) N. Gerloff & Neduchal, Internoto 25(2): 63, 2004. Basionym: *Notocactus stockingeri*.
- Notocactus mueller-melchersii** var. **eugeniae** (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 112, 2004. Basionym: *Notocactus eugeniae*.
- Notocactus mueller-melchersii** var. **veenianus** (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 112, 2004. Basionym: *Notocactus veenianus*.
- Notocactus mueller-melchersii** var. **winkleri** (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 112, 2004. Basionym: *Notocactus winkleri*.
- Notocactus multicostatus** var. **blaauwianus** (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 64, 2004. Basionym: *Notocactus blaauwianus*.
- Notocactus neoarechavaletae* ssp. *miguelensis* Prestlé, Minimus 35(3-4): 2-3, ills., 2004. *Nom. inval.* (Art. 34.1b). [Published as provisional name.]
- Notocactus ottonis** fa. **aureus** (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 66, 2004. Basionym: *Notocactus arechavaletae* var. *aureus*.
- Notocactus ottonis** fa. **globularis** (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 66, 2004. Basionym: *Notocactus globularis*.
- Notocactus ottonis** var. **minusculus** (Hofacker & Herm) N. Gerloff & Neduchal, Internoto 25(2): 66, 2004. Basionym: *Notocactus minusculus*.
- Notocactus pulvinatus** var. **multiceps** (Hofacker & Herm) Garabelli & Wolman, Internoto 25(1): 21, ills. (p. 18-19), 2004. Basionym: *Parodia langsdorfii* ssp. *multiceps*.
- Notocactus rauschii** var. **fuscus** (F. Ritter) N. Gerloff & Neduchal, Internoto 25(2): 89, 2004. Basionym: *Notocactus fuscus*.
- Notocactus rutilans** var. **gutierrezii** (W.-R. Abraham) N. Gerloff & Neduchal, Internoto 25(2): 114, 2004. Basionym: *Notocactus gutierrezii*.
- Notocactus rutilans** var. **roseiflorus** (H. Schlosser & Brederoo) N. Gerloff & Neduchal, Internoto 25(2): 114, 2004. Basionym: *Notocactus roseiflorus*.
- Notocactus submammulosus** var. **minor** (R. Kiesling) N. Gerloff & Neduchal, Internoto 25(2): 115, 2004. Basionym: *Parodia submammulosa* ssp. *minor*.
- Notocactus tabularis** fa. **bommeljei** (van Vliet) N. Gerloff & Neduchal, Internoto 25(2): 92, 2004. Basionym: *Notocactus bommeljei*.
- Notocactus uebelmannianus** fa. **nilsonii** (Königs) N. Gerloff & Neduchal, Internoto 25(2): 93, 2004. Basionym: *Notocactus uebelmannianus* var. *nilsonii*.
- Notocactus werdermannianus** fa. **ferrugineus** (H. Schlosser) N. Gerloff & Neduchal, Internoto 25(2): 94, 2004. Basionym: *Notocactus ferrugineus*.
- Opuntia ayrampo* (Azara) Mottram, Tephrocactus Study Group 10(1): 10, 2004. *Nom. illeg.* (Art. 53.1), based on *Cactus ayrampo*. [Non *Opuntia ayrampo* Philippi.]
- Opuntia corrugata** ssp. **brevispina** (Backeberg) Mottram, Tephrocactus Study Group 10(4): 56, ills. (p. 51), 2004. Basionym: *Opuntia longispina* var. *brevispina*.
- Opuntia xelisae* D. Guillot & Van der Meer, Toll Negre 3: 8-9, 2003. Based on *Guillot* s.n.. *Nom. inval.* (Art. 37.6). [= *Opuntia ficus-indica* × *O. tomentosa* var. *hernandezii*.]
- Opuntia olmeca* Pérez Crisanto & al., in Reyes Santiago & al., Cact. otras Pl. Nat. Cañada Cuicatlán, 99, ills., 2004. *Nom. inval.* (Art. 35.1, 37.1).
- Parodia haselbergii** fa. **albiseta** (Cullmann) Traeger, Cact. Succ. J. (US) 76(2): 60, 2004. Basionym: *Brasilicactus graessneri* var. *albisetus*.
- Parodia microsperma** ssp. **albofuscata** (F. H. Brandt) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia albofuscata*. [Sphalm. 'albo-fuscata'.]
- Parodia microsperma** ssp. **aureispina** (Backeberg) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia aureispina*.
- Parodia microsperma** ssp. **catamarcensis** (Backeberg) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia catamarcensis*.
- Parodia microsperma** ssp. **hummeliana** (A. B. Lau & Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia hummeliana*.
- Parodia microsperma** ssp. **mesembrina** (F. H. Brandt) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia mesembrina*.
- Parodia microsperma** ssp. **sanguiniflora** (Fric ex Backeberg) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia sanguiniflora*.
- Parodia microsperma** ssp. **setifera** (Backeberg) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia setifera*.
- Parodia microsperma** ssp. **spgazziniana** (F. H. Brandt) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 15, 2004. Basionym: *Parodia spgazziniana*.

- Parodia microsperma** var. **argerichiana** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia argerichiana*.
- Parodia microsperma** var. **belenensis** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia belenensis*.
- Parodia microsperma** var. **betaniana** (F. Ritter) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia betaniana*.
- Parodia microsperma** var. **cabraccorralensis** (Käsinger) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia setifera* var. *cabraccorralensis*.
- Parodia microsperma** var. **cachiana** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia cachiana*.
- Parodia microsperma** var. **campestris** (F. H. Brandt) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia campestris*.
- Parodia microsperma** var. **cebilarensis** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia cebilarensis*.
- Parodia microsperma** var. **dichroacantha** (F. H. Brandt & Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia dichroacantha*.
- Parodia microsperma** var. **glischrocarpa** (F. Ritter) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia glischrocarpa*.
- Parodia microsperma** var. **guachipasana** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia guachipasana*.
- Parodia microsperma** var. **herzogii** (Rausch) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia herzogii*.
- Parodia microsperma** var. **heteracantha** (F. Ritter & Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia heteracantha*.
- Parodia microsperma** var. **juanensis** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia mesembrina* var. *juanensis*.
- Parodia microsperma* var. *jujuyensis* (Käsinger) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 15, 2004. *Nom. inval.*, based on *Parodia setifera* var. *jujuyensis*, *nom. inval.* (Art. 37.2, 8.2).
- Parodia microsperma** var. **lembckei** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 15, 2004. Basionym: *Parodia lembckei*.
- Parodia microsperma** var. **lohaniana** (A. B. Lau & Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia lohaniana*.
- Parodia microsperma** var. **macrancistra** (K. Schumann) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Echinocactus microspermus* var. *macrancistrus*.
- Parodia microsperma** var. **malyana** (Rausch) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia malyana*.
- Parodia microsperma** var. **minuscula** (Rausch) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia minuscula*.
- Parodia microsperma** var. **mutabilis** (Backeberg) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia mutabilis*.
- Parodia microsperma** var. **nana** (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia nana*.
- Parodia microsperma* var. *pluricentralis* (Backeberg ex F. H. Brandt) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. *Nom. inval.*, based on *Parodia pluricentralis*, *nom. inval.* (Art. 8.4). [Bracket author erroneously given as "W. Weskamp".]
- Parodia microsperma** var. **riojensis** (F. Ritter & Weskamp ex Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia riojensis*.
- Parodia microsperma** var. **rubristaminea** (F. Ritter) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 14, 2004. Basionym: *Parodia rubristaminea*.
- Parodia microsperma** var. **sanagasta** (Fric ex B. Weingart) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. Basionym: *Parodia sanagasta*.
- Parodia microsperma** var. **spanisa** (F. H. Brandt) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 15, 2004. Basionym: *Parodia spanisa*. [Infraspecific epithet corrected to 'spaniosa'.]
- Parodia microsperma* var. *wagneriana* (Weskamp) Brickwood, Mitteilungsbl. Inter-Parodia-Kette No. 22: 13, 2004. *Nom. inval.*, based on *Parodia wagneriana*, *nom. inval.* (Art. 37.1).
- Parodia nivosa** var. **faustiana** (Backeberg) Käsinger, Mitteilungsbl. Inter-Parodia-Kette No. 21: Suppl., 3, ill., 2004. Basionym: *Parodia faustiana*.
- Parodia setifera** fa. **chlorocarpa** (F. Ritter) Käsinger, Mitteilungsbl. Inter-Parodia-Kette No. 22: 3, ill., 2004. Basionym: *Parodia chlorocarpa*.
- Pereskia** Sect. **Archipereskia** Doweld, Byull. Moskovsk. Obsch. Isp. Prir., Otd. Biol. 109(4): 45, 2004. Typus: *Pereskia lychnidiflora* De Candolle.
- Pereskia** Sect. **Brasilipereskia** Doweld, Byull. Moskovsk. Obsch. Isp. Prir., Otd. Biol. 109(4): 46, 2004. Typus: *Pereskia bleo* (Kunth) De Candolle.

- Pereskia** Ser. **Andeopereskia** Doweld, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 109(4): 45-46, 2004. Typus: *Pereskia weberiana* K. Schumann.
- Pereskia** Ser. **Bleones** Doweld, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 109(4): 46, 2004. Typus: *Pereskia bleo* (Kunth) De Candolle.
- Pereskia** Ser. **Portulacifoliae** Doweld, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 109(4): 46, 2004. Typus: *Pereskia portulacifolia* (Linné) De Candolle.
- Pereskia** Subsect. **Brasilipereskia** Doweld, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 109(4): 46, 2004. Typus: *Pereskia bleo* (Kunth) De Candolle.
- Pereskia** Subsect. **Sacharosa** Doweld, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 109(4): 47, 2004. Typus: *Pereskia sacharosa* Grisebach.
- Pilosocereus fulvilanatus** ssp. **vanheekianus** P. J. Braun & Esteves, Kakt. and. Sukk. 55(4): 97-98, ills., 2004. Typus: *Esteves Pereira* 565 (UFG 27162).
- Pilosocereus mollispinus** P. J. Braun & Esteves, Cact. Succ. J. (US) 76(2): 77, ills. (pp. 74-76), 2004. Typus: *Esteves Pereira* 538 (UFG 25827).
- Rapicactus** Subgen. **Lodia** (Mosco & Zanovello) D. Donati, Revis. Tasson. Gen. Turbinicarpus, 7, 2003. Basionym: *Lodia*.
- Rapicactus beguinii* ssp. *laurae* D. Donati & Zanovello, Conoscere, capire, coltivare Turbinicarpus - Rapicactus, 221-222, ills., 2004. *Nom. inval.* (Art. 34.1b, 36.1). [Used as provisional name.]
- Rapicactus booleanus** (G. S. Hinton) D. Donati, Revis. Tasson. Gen. Turbinicarpus, 6, 2003. Basionym: *Turbinicarpus booleanus*.
- Rapicactus canescens* D. Donati & Zanovello, Conoscere, capire, coltivare Turbinicarpus - Rapicactus, 217-218, ills., 2004. *Nom. inval.* (Art. 34.1b, 36.1). [Used as provisional name.]
- Rapicactus donatii* D. Donati & Zanovello, Conoscere, capire, coltivare Turbinicarpus - Rapicactus, 219-220, ills., 2004. *Nom. inval.* (Art. 34.1b, 36.1). [Used as provisional name.]
- Rapicactus pailanus** (Halda & Panarotto) D. Donati, Revis. Tasson. Gen. Turbinicarpus, 7, 2003. Basionym: *Turbinicarpus pailanus*.
- Rapicactus zaragosae** (Glass & R. A. Foster) D. Donati, Revis. Tasson. Gen. Turbinicarpus, 6, 2003. Basionym: *Gymnocactus subterraneus* var. *zaragosae*. [Sphalm. 'zaragozae'.]
- Rebutia einsteinii** ssp. **gonjianii** (R. Kiesling) Hjertson, Cact. Syst. Init. No. 15: 10, 2003. Basionym: *Rebutia gonjianii*. [Erroneously omitted previously.]
- Rhipsalis riocampanensis** J. E. Madsen & Z. Aguirre, Nordic J. Bot. 23(1): 26-28, ills., 2004. Typus: *Madsen et al.* 7595 (LOJA, AAU, B, BONN, K, MO, QCA, QCNE, ZSS).
- Schlumbergera** 'Carmen Enigma' Süpplie, Schlumbergera, 53, ill. (p. 55), 2004. [= *Schlumbergera* 'Thor-Carmen' × 'Enigma'.]
- Schlumbergera** 'Eva Marie McKeen' Goodfellow, Schlumbergera Direct. Spec. Hybr., [29], 2004. [= *Schlumbergera* 'Thor-Alex' × 'Carole Ann McKeen'.]
- Schlumbergera** 'Golden Sun' Süpplie, Schlumbergera, 53, ill. (p. 19), 2004. [= *Schlumbergera* 'Christmas Flame' × 'Gold Charm'.]
- Schlumbergera** 'Lorraine LeClerc' Goodfellow, Schlumbergera Direct. Spec. Hybr., [59], 2004. [= *Schlumbergera* 'Thor-Alex' × 'Carole Ann McKeen'.]
- Schlumbergera** 'Snowdrifts' Süpplie & van der Zee, Schlumbergera, 53, ill., 2004. [= *Schlumbergera* ('Thor-Britta' × 'Thor-Britta') × 'cv #87'.]
- Schlumbergera** 'Yellow Queen' Süpplie, Schlumbergera, 53, ill. (p. 56), 2004. [= *Schlumbergera* 'Christmas Flame' × 'Gold Charm'.]
- Schlumbergera** × **eprica** Süpplie, Schlumbergera Direct. Spec. Hybr., [4], 2004. [= *Schlumbergera russelliana* × *orsstichiana*.]
- Schlumbergera** × **eprica** 'Proud Mary' Süpplie, Schlumbergera Direct. Spec. Hybr., [4], ill. (p. [5]), 2004.
- Schlumbergera microsphaerica* fa. *candida* (Loefgren) Süpplie, Schlumbergera Direct. Spec. Hybr., [3], 2004. *Nom. inval.* (Art. 33.3), based on *Zygocactus candidus*.
- Schlumbergera** × **reginae** 'Joyce Carr' Süpplie, Schlumbergera, 53, ill. (p. 56), 2004. [= (*Schlumbergera* [sic] × *Schlumbergera truncata*) × *Schlumbergera* 'Kathie Gonaert'.]
- × **Seleniopsis** G. D. Rowley, Cact. Syst. Init. No. 18: 13, 2004. [= *Selenicereus* × *Echinopsis*.]
- Stenocereus zopilotensis** Arreola-Nava & Terrazas, Brittonia 56(1): 97-98, ills., 2004. Typus: *Terrazas et Catalán* 550 (IBUG, CHAPA, MEXU, NY etc.).
- Sulcorebutia camargoensis** Gertel & Jucker, Kakt. and. Sukk. 55(4): 88-91, ills., 2004. Typus: *Jucker* 843 p.p. (ZSS, LPB).
- Sulcorebutia cylindrica** var. **crucensis** Donald ex Gertel, Kakt. and. Sukk. 55(7): 200-201, ills., 2004. Typus: *Halda* 03111822 (PR 11908). [*Nom. nov. pro Sulcorebutia confusa* Halda & al. 2003.]
- Sulcorebutia elizabethae** J. de Vries, Succulenta 83(1): 33-36, ills., 2004. Typus: *de Vries et van Zomeren* 204 (LPB, WU).
- Sulcorebutia juckeri** Gertel, Kakt. and. Sukk. 55(12): 334-335, ills., 2004. Typus: *Jucker* 410 (ZSS, LPB).
- Sulcorebutia mentosa** ssp. **flavissima** (Rausch) Sída, Atlas Kakt. 19: t. 33, ills., 2004. Basionym: *Sulcorebutia flavissima*.
- Sulcorebutia naunacaensis** J. de Vries, Succulenta 83(1): 34-36, ills., 2004. Typus: *de Vries et van Zomeren* 205 (LPB, WU).

- Sulcorebutia steinbachii** ssp. **krugerae** (Cárdenas) G. Fritz & al., *Cactus & Co.* 8(3): 188, 2004. Basionym: *Aylostera krugerae*. [Erroneously attributed to D. R. Hunt 1997, who published the combination under *Rebutia*.]
- Sulcorebutia steinbachii** ssp. **markusii** (Rausch) Gertel & J. de Vries, *Cactus & Co.* 8(3): 189, 2004. Basionym: *Sulcorebutia markusii*.
- Sulcorebutia steinbachii** ssp. **verticillacantha** (F. Ritter) G. Fritz & al., *Cactus & Co.* 8(3): 189, 2004. Basionym: *Sulcorebutia verticillacantha*. [Erroneously attributed to Donald ex D. R. Hunt 1997, who published the combination under *Rebutia*.]
- Sulcorebutia steinbachii** var. **hoffmannii** (Augustin & Hentzschel) G. Fritz & al., *Cactus & Co.* 8(3): 188, 2004. Basionym: *Sulcorebutia krugerae* var. *hoffmannii*. [Inadvertently published combination attributed to Augustin & Hentzschel 2000.]
- Sulcorebutia steinbachii** var. **krugerae** (Cárdenas) G. Fritz & al., *Cactus & Co.* 8(3): 188, 2004. Basionym: *Aylostera krugerae*.
- Sulcorebutia steinbachii** var. **markusii** (Rausch) Gertel & J. de Vries, *Cactus & Co.* 8(3): 189, 2004. Basionym: *Sulcorebutia markusii*.
- Sulcorebutia steinbachii** var. **mizquensis** (Rausch) Gertel & J. de Vries, *Cactus & Co.* 8(3): 189, 2004. Basionym: *Sulcorebutia mizquensis*.
- Sulcorebutia steinbachii** var. **taratensis** (Cárdenas) G. Fritz & al., *Cactus & Co.* 8(3): 189, 2004. Basionym: *Rebutia taratensis*. [Inadvertently published combination, attributed to Augustin & Gertel 2000.]
- Sulcorebutia steinbachii** var. **tintinensis** (Gertel) Gertel & J. de Vries, *Cactus & Co.* 8(3): 189, 2004. Basionym: *Sulcorebutia markusii* ssp. *tintinensis*. [Sphalm. 'tintiniensis'.]
- Sulcorebutia steinbachii** var. **verticillacantha** (F. Ritter) G. Fritz & al., *Cactus & Co.* 8(3): 189, 2004. Basionym: *Sulcorebutia verticillacantha*.
- Sulcorebutia tarabucoensis** ssp. **hertusii** (Halda & Horáček) Gertel & R. Wahl, *Kakt. and. Sukk.* 55(1): 12, ill. (pp. 10-11), 2004. Basionym: *Sulcorebutia crispata* ssp. *hertusii*.
- Sulcorebutia vasqueziana** var. **losenickyana** (Rausch) Sída, *Atlas Kakt.* 19: t. 39, ill., 2004. Basionym: *Sulcorebutia losenickyana*.
- Thelocactus rinconensis** ssp. **palomaensis** Pavlíček & Zatloukal, *Kaktusy* 40(1): 11, ill. (pp. 6-10, 13), 2004. Typus: *Pavlíček et Zatloukal* s.n. (PR 11900).
- Turbincarpus** Sect. **Bravocactus** (Doweld) D. Donati, Revis. Tasson. Gen. *Turbincarpus*, 21, 2003. Basionym: *Bravocactus*.
- Turbincarpus** Sect. **Kadencarpus** (Doweld) D. Donati, Revis. Tasson. Gen. *Turbincarpus*, 21, 2003. Basionym: *Kadencarpus*.
- Turbincarpus** Sect. *Lophophoroides* Zachar, Gen. *Turbincarpus*, 9, 34, 2004. *Nom. inval.* (Art. 37.5). [Typus: *Turbincarpus lophophoroides* (Werdermann) Buxbaum & Backeberg (by inference, only taxon included).]
- Turbincarpus** Sect. *Pseudomacrochele* (J. Lüthy) Zachar, Gen. *Turbincarpus*, 9, 46, 2004. *Nom. inval.* (Art. 33.3).
- Turbincarpus** Sect. *Schmiedickeanus* Zachar, Gen. *Turbincarpus*, 9, 57, 2004. *Nom. inval.* (Art. 37.5). [Typus: *Turbincarpus schmiedickeanus* (Bödeker) Buxbaum & Backeberg (by inference, based on the sectional name).]
- Turbincarpus** Sect. *Swobodae* Zachar, Gen. *Turbincarpus*, 10, 85, 2004. *Nom. inval.* (Art. 37.5). [Typus: *Turbincarpus swobodae* Diers (by inference from the sectional name).]
- Turbincarpus** Ser. *Gracilis* D. Donati, Revis. Tasson. Gen. *Turbincarpus*, 17, 2003. *Nom. inval.* (Art. 36.1). [Typus: *Turbincarpus gracilis* Glass & R. A. Foster.]
- Turbincarpus** Ser. *Macrochele* D. Donati, Revis. Tasson. Gen. *Turbincarpus*, 17, 2003. *Nom. inval.* (Art. 36.1). [Typus: *Turbincarpus macrochele* (Werdermann) Buxbaum & Backeberg.]
- Turbincarpus** Ser. **Viereckii** D. Donato & Zanovello, *Conoscere, capire, coltivare Turbincarpus - Rapicactus*, 179, 2004. Typus: *Turbincarpus viereckii* (Werdermann) John & Riha.
- Turbincarpus** Subgen. **Gymnocactus** (Backeberg) D. Donati & Zanovello, *Conoscere, capire, coltivare Turbincarpus - Rapicactus*, 166, 2004. Basionym: *Gymnocactus*.
- Turbincarpus** Subgen. **Kadencarpus** (Doweld) D. Donati, in D. Donati & Zanovello, *Conoscere, capire, coltivare Turbincarpus - Rapicactus*, 196, 2004. Basionym: *Kadencarpus*.
- Turbincarpus** Subgen. *Rapicactus* (Buxbaum & Oehme) Zachar, Gen. *Turbincarpus*, 10, 93, 2004. *Nom. inval.* (Art. 33.3).
- Turbincarpus** Subser. **Lauiani** (Doweld) D. Donati, Revis. Tasson. Gen. *Turbincarpus*, 17, 2003. Basionym: *Turbincarpus* Ser. *Lauiani*.
- Turbincarpus** Subser. *Lophophoroides* D. Donati, in D. Donati & Zanovello, *Conoscere, capire, coltivare Turbincarpus - Rapicactus*, 92, 2004. *Nom. inval.* (Art. 36.1, 37.1). [Typus: *Turbincarpus lophophoroides* (Werdermann) Buxbaum & Backeberg (by inference from the name).]
- Turbincarpus andersonii** (Mosco) D. Donati, Revis. Tasson. Gen. *Turbincarpus*, 17, 2003. Basionym: *Turbincarpus schmiedickeanus* ssp. *andersonii*.
- Turbincarpus beguinii** ssp. **senilis** Zachar & Lux, Gen. *Turbincarpus*, 100, ill., 2004. Typus: *Anonymus* s.n. (SLO 5408A-2).
- Turbincarpus horripilus** var. **wrobelianus** (Nitzschke & Anaya Montes ex Nitzschke) D. Donati & Zanovello, *Conoscere, capire, coltivare Turbincarpus - Rapicactus*, 213, ill., 2004. Basionym: *Turbincarpus horripilus* ssp. *wrobelianus*. [Sphalm. 'wroberianus'.]

Turbinacarpus klinkerianus ssp. *hiemalis* D. Donati & Zanovello, Conoscere, capire, coltivare *Turbinacarpus* - *Rapicactus*, 226-227, ills., 2004. *Nom. inval.* (Art. 34.1b, 36.1). [Used as provisional name.]

Turbinacarpus klinkerianus ssp. *planiziei* D. Donati & Zanovello, Conoscere, capire, coltivare *Turbinacarpus* - *Rapicactus*, 228, ills., 2004. *Nom. inval.* (Art. 34.1b, 36.1). [Used as provisional name.]

Turbinacarpus klinkerianus* ssp. *schwarzii (Shurly) D. Donati, Revis. Tasson. Gen. *Turbinacarpus*, 17, 2003. Basionym: *Strombocactus schwarzii*.

Turbinacarpus krainzianus* fa. *lausseri (Diers & G. Frank) D. Donati, Revis. Tasson. Gen. *Turbinacarpus*, 21, 2003. Basionym: *Turbinacarpus pseudomacrolele* var. *lausseri*.

Turbinacarpus macrochele* ssp. *polaskii (P. Lechner & Jantschgi) D. Donati, Revis. Tasson. Gen. *Turbinacarpus*, 17, 2003. Basionym: *Turbinacarpus macrochele* var. *polaskii*. [Repeated by Sotomayor & al., Gen. *Turbinacarpus* San Luis Potosí, 77, 2004 (with 'Backeberg' as bracket author).]

Turbinacarpus macrochele ssp. *valteri* D. Donati & Zanovello, Conoscere, capire, coltivare *Turbinacarpus* - *Rapicactus*, 223-225, ills., 2004. *Nom. inval.* (Art. 34.1b, 36.1). [Used as provisional name.]

Turbinacarpus major (Glass & R. A. Foster) D. Donati, Revis. Tasson. Gen. *Turbinacarpus*, 11, 2003. Basionym: *Gymnocactus viereckii* var. *major*.

Turbinacarpus pseudopectinatus* var. *jarmilae (Halda & Chvastek) Zachar, Gen. *Turbinacarpus*, 42, ills., 2004. Basionym: *Turbinacarpus pseudopectinatus* ssp. *jarmilae*.

Turbinacarpus saueri* ssp. *septentrionalis Matuszewski & Snicer, *Kaktusy* 40(3): 85-87, ills., 2004. Typus: *Hinton et al.* 28256 (Herb. Hinton). [Also used as provisional name in *Turbi-Now* No. 15: 28, ills., 2004, and by D. Donati & Zanovello, Conoscere, capire, coltivare *Turbinacarpus* - *Rapicactus*, 230, ills., 2004. Polish version in *Swiat Kakt.* 38(1-4): 56-59, ills., 2004.]

Turbinacarpus saueri* ssp. *verduzcoi Zachar & Lux, Gen. *Turbinacarpus*, 25, ills., 2004. Typus: *Verduzco* s.n. (SLO 5408A-1).

Turbinacarpus schmiedickeanus* var. *rubriflorus (G. Frank) Zachar, Gen. *Turbinacarpus*, 79, ills., 2004. Basionym: *Turbinacarpus schwarzii* var. *rubriflorus*.

Turbinacarpus subterraneus* ssp. *booleanus (G. S. Hinton) Zachar, Gen. *Turbinacarpus*, 107, ills., 2004. Basionym: *Turbinacarpus booleanus*.

Turbinacarpus subterraneus* ssp. *zaragosae (Glass & R. A. Foster) Zachar, Gen. *Turbinacarpus*, 109, ills., 2004. Basionym: *Gymnocactus subterraneus* var. *zaragosae*.

Turbinacarpus viereckii ssp. *gielsdorfianus* (Werdermann) Zachar, Gen. *Turbinacarpus*, 30, ills., 2004. Incorrect name (Art. 11.4), based on *Echinocactus gielsdorfianus*. [The basionym of the ssp. has priority over the basionym of the species.]

Turbinacarpus viereckii* ssp. *neglectus D. Donati & Zanovello, Conoscere, capire, coltivare *Turbinacarpus* - *Rapicactus*, 184, ills., 2004. Typus: *Lau* 1159 (PAD) [Ex cult. C. Zanovello, Feb. 2004.].

×***Yungastocactus*** G. D. Rowley, *Brit. Cact. Succ. J.* 22(2): 64, 2004. [= *Yungasocereus* × *Cleistocactus*.]

COCHLOSPERMACEAE

Cochlospermum noldei Poppendieck, *Schumannia* No. 4: 225, ill. (p. 226), 2004. Typus: *von Nolde* 121 (BM, COI, MO).

CRASSULACEAE

Adromischus schuldianus* ssp. *brandbergensis B. Nordenstam & van Jaarsveld, *Bothalia* 34(1): 35-36, ills., 2004. Typus: *Nordenstam* 3677 (WIND, M, S) [Ex cult. BG Lund.].

Aeonium 'Ray Stephenson' Tavormina, *Cactus & Co.* 8(4): 283-284, 2004. [= *Aeonium undulatum* × *A. haworthii*, obtained from artificial pollination in cultivation.]

Aeonium ×*vanhoofstadtii* A. Leroy, *Cact. Vetpl. (Wijnegem - 2)* 21(5): 74-75, ill., 2004. *Nom. inval.* (Art. 36.1, 37.1). [= *Aeonium canariense* × *A. tabuliforme*.]

Crassula* ×*mixta (P. V. Heath) G. D. Rowley, *Crassula*, 215, 2003. Basionym: *Creusa* ×*mixta*. [Erroneously omitted so far.]

×***Dudledon*** S. A. Hammer, *Mesemb Study Group Bull.* 19(1): 6, 2004. [= *Dudleya* × *Tylecodon*.]

Echeveria nebulorum Moran & Kinnach, *Haseltonia* 10: 68-70, ills., 2004. Typus: *Moran et Kinnach* 7771 (SD).

Echeveria unguiculata Kinnach, *Cact. Succ. J. (US)* 76(2): 93-94, ills., 2004. Typus: *Glass et Foster* 2624 (HNT).

×***Graptoveria*** 'Fanfare' R. Stephenson, *Sedum Soc. Newslett.* No. 71: 14-16, ill., 2004. [Appearing in cultivation, and of unknown origin.]

Kalanchoe antennifera Descoings, *Acta Bot. Gallica* 151(4): 441-443, ills., 2004. Typus: *Descoings* 28301 (P) [Ex cult.].

Kalanchoe tenuiflora Descoings, *Acta Bot. Gallica* 151(2): 233-235, ills., 2004. Typus: *Bosser* s.n. in *BG Tananarive* 38 (P) [Ex cult.].

Phedimus hybridus 'Czar's Gold' R. Stephenson, *Sedum Soc. Newslett.* No. 70: 93-95, ills., 2004. Typus: E [Ex cult. R. Stephenson.]. [A

wild-collected clone.]

- ×**Sedeveria** 'Ar Mor Glaz' Moullec, *Sedum* Soc. Newslett. No. 69: 70-72, ills., 2004. [A chance seedling, perhaps *Sedum praealtum* × *Echeveria waltheri* or *Sedum praealtum* × *Echeveria skinneri*.]
Sedum 'Joyce Tulloch' R. Stephenson, *Sedum* Soc. Newslett. No. 70: 86-88, ill., 2004. [Probably *S. versadense* × *S. lucidum*.]
Sedum annuum ssp. **gussonei** Brullo & Spampinato, *Bocconea* 16(2): 579-580, ills. (pp. 581-582), 2003. Typus: *Brullo et Giusso* s.n. (CAT).
Sedum raramuri J. Metzger, *Haseltonia* 10: 84-86, ills., 2004. Typus: *Metzger* 7006.2 (BASBG).
Sempervivum ×**barbulatum** nssp. **etruscum** D. Donati & G. Dumont, *Piante Grasse* 17(4): 160, ills. (pp. 155-156, 167), 2004. Typus: *Bertoloni* s.n. (BOLO 20379). [Published at the rank of ssp.]
Sempervivum heuffelii 'Bloodstone' Trager, *Cact. Succ. J. (US)* 76(2): 70, ill., 2004. [A horticultural selection, probably named earlier by Squaw Mountain Gardens.]

DRACAENACEAE

- Sansevieria** 'Henny's Gold' Chahinian, *Sansevieria* No. 10: 12, ill., 2004.
Sansevieria ballyi L. E. Newton, *Brit. Cact. Succ. J.* 22(1): 11-13, ills., 2004. Typus: *Newton* 5594 (K, EA).
Sansevieria ballyi 'Solid Gold' Chahinian ex L. E. Newton, *Brit. Cact. Succ. J.* 22(1): 13, 2004. [Based on *Sansevieria* sp. 'Bally 12681 Solid Gold' Chahinian 2002.]
Sansevieria ballyi 'Striated' Chahinian ex L. E. Newton, *Brit. Cact. Succ. J.* 22(1): 13, 2004. [Based on *Sansevieria* sp. 'Bally 12681 Striated' Chahinian 1994.]
Sansevieria humiflora D. J. Richards, *Sansevieria* No. 10: 3-6, ills., 2004. Typus: *Richards* R889 (SRGH).

EUPHORBACEAE

- Euphorbia abdelkuri** 'Damask' Angus, *Brit. Cact. Succ. J.* 21(4): 197-198, ills., 2004. [A sport obtained in cultivation. Dated 2003, received 26. 1. 2004.]
Euphorbia einensis G. Williamson, *Haseltonia* 10: 57-61, ills., 2004. Typus: *Williamson* 5143 (BOL).
Euphorbia einensis var. **anemoarenicola** G. Williamson, *Haseltonia* 10: 62-63, ills., 2004. Typus: *Williamson* 5985 (BOL).

- Euphorbia hamaderoensis** A. G. Miller, in A. G. Miller & M. Morris, *Ethnofl. Soqotra Archip.*, 724, 2004. Typus: *Miller et al.* 17048 (E).

HYACINTHACEAE

- Drimia acarophylla** Brink & A. P. Dold, *South Afr. J. Bot.* 69(3): 396-397, ills., 2003. Typus: *Brink* 788 (GRA, BOL).
Drimia albiflora (B. Nordenstam) J. C. Manning & Goldblatt, *Strelitzia* 9: 711, 2000. Basionym: *Rhadamanthus albiflorus*. [Omitted previously.]
Drimia arenicola (B. Nordenstam) J. C. Manning & Goldblatt, *Strelitzia* 9: 711, 2000. Basionym: *Rhadamanthus arenicola*. [Omitted previously.]
Drimia convallarioides (Linné *fil.*) J. C. Manning & Goldblatt, *Strelitzia* 9: 711, 2000. Basionym: *Hyacinthus convallarioides*. [Omitted previously.]
Drimia cuscutoides (Burchell ex Baker) J. C. Manning & Goldblatt, *Strelitzia* 9: 711, 2000. Basionym: *Asparagus cuscutoides*. [Omitted previously.]
Drimia fasciata (B. Nordenstam) J. C. Manning & Goldblatt, *Strelitzia* 9: 711, 2000. Basionym: *Rhadamanthus fasciatus*. [Omitted previously.]
Drimia namibensis (Obermeyer) J. C. Manning & Goldblatt, *Strelitzia* 9: 712, 2000. Basionym: *Rhadamanthus namibensis*. [Omitted previously.]
Drimia platyphylla (B. Nordenstam) J. C. Manning & Goldblatt, *Strelitzia* 9: 712, 2000. Basionym: *Rhadamanthus platyphyllus*. [Omitted previously.]
Drimia rotunda (H. Perrier) J. C. Manning & Goldblatt, *Edinburgh J. Bot.* 60(3): 557, 2004. Basionym: *Rhodocodon rotundus*.
Drimia secunda (B. Nordenstam) J. C. Manning & Goldblatt, *Strelitzia* 9: 712, 2000. Basionym: *Rhadamanthus secundus*. [Omitted previously.]
Drimia uniflora J. C. Manning & Goldblatt, *Strelitzia* 9: 712, 2000. Typus: *Zeyher* s.n. (TCD). [*Nom. nov. pro Litanthus pusillus* Harvey 1844 (*non Drimia pusilla* Jacquin). Omitted previously.]
Ledebouria cryptopoda (Baker) J. C. Manning & Goldblatt, *Edinburgh J. Bot.* 60(3): 560, 2004. Basionym: *Hyacinthus cryptopodus*.
Ledebouria socialis 'Minor' Trager, *Cact. Succ. J. (US)* 76(2): 67, ill., 2004. [A dwarf horticultural selection previously known as 'Minor'.]
Massonia bifolia (Jacquin) J. C. Manning & Goldblatt, *Edinburgh J. Bot.* 60(3): 564, 2004. Basionym: *Eucomis bifolia*.
Massonia etesionamibensis (U. & D. Müller-Doblies) J. C. Manning & Goldblatt, *Edinburgh J. Bot.* 60(3): 564, 2004. Basionym:

Whiteheadia etesionamibensis.

- Ornithogalum battenianum** (Hilliard & B. L. Burt) J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 547, 2004. Basionym: *Albuca batteniana*.
- Ornithogalum circinatum** J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 547, 2004. [*Nom. nov. pro Albuca spiralis* Linné fil. 1782 (non *Ornithogalum spirale* Schinz 1896).]
- Ornithogalum cremnophilum** (van Jaarsveld & A. E. van Wyk) J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 547, 2004. Basionym: *Albuca cremnophila*.
- Ornithogalum hyacinthoides* (Baker) J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 551, 2004. *Nom. inval.* (Art. 33.6, Ex. 11), based on *Polemannia hyacinthoides*. [The name given as basionym is itself a combination and is here corrected.]
- Ornithogalum imbricatum** (F. M. Leighton) J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 549, 2004. Basionym: *Albuca imbricata*.
- Ornithogalum nelsonii** (N. E. Brown) J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 549, 2004. Basionym: *Albuca nelsonii*.
- Ornithogalum thermanum** (van Jaarsveld) J. C. Manning & Goldblatt, Edinburgh J. Bot. 60(3): 550, 2004. Basionym: *Albuca thermanum*.

LAMIACEAE

- Plectranthus mzimvubuensis** van Jaarsveld, Bothalia 34(1): 30-32, ills., 2004. Typus: *van Jaarsveld et al.* 92 (PRE).

PEDALIACEAE

- Uncarina ankaranensis** Ihlenfeldt, Kakt. and Sukk. 55(6): 150-154, ills., 2004. Typus: *Rössli et Hoffmann* 21/00 (P, HBG, MO, ZSS).
- Uncarina ihlenfeldtiana** Lavranos, Schumannia No. 4: 83, ills. (pp. 82, 84-85), 2004. Typus: *Rössli et Hoffmann* 21/97 (HBG, TAN, Z, ZSS [photo]).

PIPERACEAE

- Peperomia cereoides** var. **reducta** Pino & Cieza, Haseltonia 10: 90-91, ills., 2004. Typus: *Pino* 1145 (USM).
- Peperomia hartwegiana** var. **minutifolia** Pino & Klopfenstein, Haseltonia 10: 91-93, ills., 2004. Typus: *Pino* 1146 (USM).

- Peperomia hobbitoides** T. Wendt, Lundellia 6: 37-40, ills., 2003. Typus: *Wendt et al.* 4223 (MEXU, BM, CHAPA, MO, NY, TEX, XAL).
- Peperomia nivalis** var. **sanmarcensis** Pino & Cieza, Haseltonia 10: 93-94, ills., 2004. Typus: *Pino* 1157 (USM).
- Peperomia strawii** Hutchison ex Pino & Klopfenstein, Haseltonia 10: 87-89, ills., 2004. Typus: *Hutchison et al.* 6209 (USM 16320, UC).

PORTULACACEAE

- Portulaca samhaensis** A. G. Miller, in A. G. Miller & M. Morris, Ethnofl. Soqotra Archip., 725, 2004. Typus: *Miller et Alexander* 14204 (E, K).
- Portulaca sedifolia* A. G. Miller, in A. G. Miller & M. Morris, Ethnofl. Soqotra Archip., 725, 2004. Based on *Miller et al.* 22012. *Nom. illeg.* (Art. 53.1). [*Non Portulaca sedifolia* N. E. Brown 1901.]

BIBLIOGRAPHIA

- [1] APG [Angiosperm Phylogeny Group] (2003). An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG II. *Bot. J. Linn. Soc.* 141: 399-436.
- [2] Acevedo Rosas, R. & al. (eds.) (2004). Guía de excursiones cactológicas en Jalisco, México. Guadalajara (MEX): Universidad de Guadalajara / FIPRODEFO. [20 +] 124 pp., ills. [A compilation of general data and individual observations, in the greater part published previously.]
- [3] Acevedo-Rosas, R. & al. (2004). A molecular phylogenetic study of *Graptopetalum* (*Crassulaceae*) based on ETS, ITS, rpl16, and trnL-F nucleotide sequences. *Amer. J. Bot.* 91(7): 1099-1104.
- [4] Acevedo-Rosas, R. & al. (2004). Phylogenetic relationships and morphological patterns in *Graptopetalum* (*Crassulaceae*). *Brittonia* 56(2): 185-194, ills.
- [5] Afferni, M. (2004). I *Sedum* di Calamosca. The Stonecrops of Calamosca. *Cactus & Co.* 8(4): 275-281, ills. [Included for the distribution data for *Sedum sediforme* in Italy.]
- [6] Afferni, M. (2004). Considerazioni su *Mammillaria beisei* Diers. *Piante Grasse* 24(4): 145-148, ills.
- [7] Aigner, P. A. (2004). Floral specialization without trade-offs: Optimal corolla flare in contrasting pollination environments. *Ecology* 85(9): 2560-2569, ills.
- [8] Akiyama, S. & al. (2003). An enumeration of the flowering plants collected in NW Yunnan and E Tibet between 1999 and 2001. *Crassulaceae, Asteraceae, Juncaceae, Eriocaulaceae, and Orchidaceae*. *Bull. Nation. Sci. Mus. Tokyo, Ser. B*, 29(3): 109-122.
- [9] Anderson, B. L. & Ribbens, E. (2004). Population dynamics of *Opuntia fragilis* in Illinois. *Trans. Illinois State Acad. Sci.* 97: 27. [Abstract only.]
- [10] Andrus, N. & al. (2004). Using molecular phylogenies to test phytogeographical links between East / South Africa – Southern Arabia and the Macaronesian Islands – a review, and the case of *Vieraea* and *Pulicaria* Sect. *Vieraeopsis* (*Asteraceae*). *Taxon* 53(2): 333-346, ills., map.
- [11] Appel, R. (2004). *Toumeyia papyracantha* (Engelmann) Britton & Rose. Overview of the known localities and comments about cultivation. Übersicht der bekannten Standorte und Gedanken zur Kultur. *Cactaceae Rev.* 7(1): 11-21, ills., map.
- [12] Appenzeller, O. & Linzen, T. (2004). Lose-Blatt-Sammlung des AfM. Lieferung 2003. Homburg (D): Arbeitskreis für Mammillarienfreunde.
- [13] Arias, S. & Terrazas, T. (2004). Seed morphology and variation in the genus *Pachycereus* (*Cactaceae*). *J. Pl. Res.* 117(4): 277-289, SEM-ills.
- [14] Badano, I. E. & Schlumpberger, B. O. (2001). Sistema de cruzamiento y estimaciones en la eficiencia de polinización sobre *Trichocereus pasacana* (*Cactaceae*) en dos poblaciones del noroeste argentino. *Gayana, Bot.* 58(2): 115-122. [Omitted previously.]
- [15] Bader, A. & al. (2003). Further constituents from *Caralluma negevensis*. *Phytochemistry* 62: 1277-1281.
- [16] Bakker, F. T. & al. (2004). Phylogeny of *Pelargonium* (*Geraniaceae*) based on DNA sequences from three genomes. *Taxon* 53(1): 17-28, ills.
- [17] Bauer, R. (2004). *Hattoria* 'Sirius' – der erste weissblühende Osterkaktus. *EPIG Rundschreiben* 15(2): 66-68, ill. [Dated 2003 on the cover, published Aug. 2004.]
- [18] Bauer, R. (2004). Wir stellen vor. *Disocactus speciosus* ssp. *blomianus* (Kimmach) Ralf Bauer. *EPIG Rundschreiben* 16(1): 20-23, ills., key.
- [19] Bayer, M. B. (2004). Still on about *H.[aworthia] mutica* var. *nigra*. *Haworthiad* 18(1): 21-33, ills., map.
- [20] Bayer, M. B. (2004). *Haworthia arachnoidea* and *H. nortieri*. *Haworthiad* 18(2): 44-51, ills.
- [21] Bayer, M. B. (2004). Continuing the saga of *Haworthia mutica* var. *nigra*. *Haworthiad* 18(2): 52-57, ills.
- [22] Bayer, M. B. (2004). Another twist to the story of *H. mutica* var. *nigra*. *Haworthiad* 18(3): 92-101, ills.
- [23] Bazos, I. & Yannitsaros, A. (2004). Floristic reports from the Island of Lesbos (Greece) I. Dicotyledones: *Aceraceae* to *Guttiferae*. *Edinburgh J. Bot.* 61(1): 49-86, maps. [Includes *Crasula tillaea* and *Umbilicus luteus*.]
- [24] Beaston, B. (2004). Opuncie ve státech Washington a Oregon (Severozápad USA). *Kaktusy* 40(Speciál 2): 24-30, ills. [Also published in a German translation by the Gesellsch. österreich. Kakt.-freunde, 2004.]
- [25] Benadom, D. (2004). *Fouquieriaceae*. Un'introduzione – An introduction. *Cactus & Co.* 8(4): 231-260, ills. [Included for the illustrations.]
- [26] Beresutsky, M. A. & al. (2004). Adventive species new to Lipetsk, Tambov and Saratov Regions, and their distribution in the Middle Russia.

- Bot. Zhurn. (Moscow & Leningrad) 89(3): 484-491. [Includes *Sedum reflexum*.]
- [27] Berresford, P. & al. (2004). *Echinocereus engelmannii* var. *munzii* (Parish) Pierce & Fosberg – eine Neubewertung / a re-evaluation. *Echinoce-reenfreund* 17(2): 42-50, ill.
- [28] Bertram, G. (2004). *Gibbaeum cryptopodi-um* (Aizoaceae) unter der Lupe. *Kakt. and. Sukk.* 55(3): 57-64, ill., map.
- [29] Beyenbach, J. (2004). *Ibervillea tenuisecta* (A. Gray) Small. *Avonia* 22(2): 31-33, ill.
- [30] Beyhl, F. E. (2003). Die Drachenbäume Südmarokkos und das "Makaronesien"-Problem. *Natur & Mus.* 133(7): 189-207, ill., map.
- [31] Biggs, N. (2004). *Sinningia pusilla*. *Cur-tis's Bot. Mag., ser. nov.*, 21(3): 193-196, t. 502.
- [32] Blanchy, C. & al. (2004). Barra de Navidad (Jalisco). *Melocactus curvispinus* ssp. *dawsonii*. *Cactus & Co.* 8(1): 18-31, ill.
- [33] Bohata, J. (2004). *Echinofossulocactus multicosatus* s velkým ruzovofialovým kvetem, rostlina z kaktusárských snu. *Kaktusy* 40(3): 74-76, ill.
- [34] Bosch, P. J. A. (2004). The geological, pedological and climatical influence on variety generation in *Haworthia koelmaniorum* var. *koelma-niorum* and *H. koelmaniorum* var. *mcmurtryi*. *Aloe* 41(2-3): 56-60, ill., map.
- [35] Boyd, S. (2004). Report of a new introduced species and revised key to the annual *Crassula* (*Crassulaceae*) of California. *Madroño* 51(4): 393-394, key.
- [36] Brandham, P. E. (2004). The chromosomes of *Aloe*: Variation on a theme. In: Reynolds, T. & al. (eds.): *Aloes: The genus Aloe*; pp. 355-360. Boca Raton (US: FL): CRC Press.
- [37] Braun, K. P. & al. (eds.) (2004). Swaziland Flora checklist. Pretoria (RSA): Swaziland National Herbarium / National Botanical Institute. x + 113 pp., maps. [= Southern African Botanical Diversity Network Report No. 27.]
- [38] Braun, P. J. (2004). Additional comments on *Melocactus deinacanthus* from Chapada Grande, Bahia (Brazil). *Brit. Cact. Succ. J.* 22(2): 99.
- [39] Braun, P. J. & Esteves Pereira, E. (2004). *Pilosocereus mollispinus* P. J. Braun & Esteves – a new species of *Cactaceae* from the state of Goiás and comments on other *Pilosocereus* species from Central Brazil. *Cact. Succ. J. (US)* 76(2): 73-82, ill., key.
- [40] Breuer, I. (2004). De introductie van enige weinig bekende taxa en / of ongewone vormen van *Haworthia*. *Deel 1. Succulenta* 83(6): 257-260, ill.
- [41] Briones, F. & al. (2004). Chromosome ana-lysis of *Mammillaria supertexta*, *M. crucigera* and *M. haageana* and their comparison with *M. san-angelensis* (*Cactaceae*). *Caryologia* 57(3): 211-218.
- [42] Brummitt, R. K. (2004). Report of the Com-mittee for Spermatophyta: 54. *Taxon* 53(3): 813-825. [Includes data on proposal 1465 to conserve *Brasilicactus* against *Acanthocephala*.]
- [43] Bruyns, P. V. (2004). New species in *Echid-nopsis* and *Secamone* and new records of *Cerope-gia* (*Apocynaceae*) from Socotra. *Edinburgh J. Bot.* 61(1): 7-19, key, ill.
- [44] Bruyns, P. V. & Klak, C. (2004). Revision of the Madagascan endemic *Stapelianthus* (*Apocy-naceae*) based on molecular and morphological characters. *Ann. Missouri Bot. Gard.* 91(3): 410-437, ill., key.
- [45] Buddensiek, V. (2004). Des Rätsels Lösung – eine Übersicht über die *Euphorbia hedyotoides*-Gruppe. *Avonia* 22(2): 23-29, ill.
- [46] Bullock, S. H. & al. (2004). Variance of size-age curves: Bootstrapping with auto-correlation Ecology 85(8): 2114-2117. [On *Fou-quieria*.]
- [47] Bulot, L. (2004). Field observations on the genus *Aloe* (*Aloioideae, Asphodelaceae*) in Nor-thern KwaZulu-Natal (South Africa). *Alsterwor-thia Internat.* 4(2): 5-16, ill., map.
- [48] Burgoyne, P. M. (2004). Molecular advances in the family *Mesembryanthemaceae*: Implications for our current view of Mesembs. *South Afr. J. Bot.* 70(2): 335. [Abstract only.]
- [49] Burleigh, M. (2004). *Mammillaria tetrancistra* and *M. guelzowiana*. Care, culture and hybridization. *Cact. Succ. J. (US)* 76(3): 114-118, ill. [Reprinted and German translation in Mitteilungsbl. AfM 28(4): 212-221, ill., 2004.]
- [50] Burton, R. M. (2004). Botanical records for 2003. *London Naturalist* 83(4): 233-241. [In-cludes data on *Crassula helmsii*.]
- [51] Butler, A. (2004). A tale of two Sansevierias ... *Sansevieria* No. 8: 4-6, ill. [Dated 2003 on the title page, received 26. Jan. 2004. On *S. ehrenbergii* and *S. perrotii*.]
- [52] Butterworth, C. A. & Wallace, R. S. (2004). Phylogenetic studies of *Mammillaria* (*Cactaceae*) – insights from chloroplast sequence variation and hypothesis testing using the parametric bootstrap. *Amer. J. Bot.* 91(7): 1086-1098.
- [53] Byalt, V. V. & al. (2004). [Russian:] Wall Pepper, Houseleek and other *Crassulaceae*. Moskva (RU): AST Astpel Transitkniga. 270 pp., ill., key.
- [54] Cáceres Huamani, F. & Poma, I. (2003). Caratteristiche, distribuzione e usi del Sancayo (*Corryocactus brevistylus*) nella regione di Arequipa (Perù meridionale). *Quad. Bot. Ambient. Appl.*

14: 173-176, map, ills.

[55] Cálix de Dios, H. (2004). Distribución geográfica de las pitahayas (*Hylocereus*) de la República Mexicana. *Cact. Suc. Mex.* 49(1): 4-23, ills., maps.

[56] Carter, S. (2004). The spiny spurges of East Tropical Africa. / Le Euforbie spinose dell'Africa orientale tropicale. In: Russo, L. (ed.): The succulent plants of East Africa / Le piante succulente dell'Africa Orientale, pp. 120-133, ills. Roma (I): Associazione Italiana Amatori delle Piante Succulente.

[57] Cattabriga, A. (2004). *Backebergia militaris* (Audot) H. Bravo Hollis. *Cactus & Co.* 8(2): 131-162, ills., map.

[58] Cesal, P. (2004). Zajímavý kultivar *Glandulicactus uncinatus* var. *wrightii* (Eng.) Backbg. *Kaktusy* 40(3): 83-84, ills.

[59] Chalet, J.-M. (2004). *Ariocarpus kotschoubeyanus*. Un nuovo biotopo. A new biotope. *Cactus & Co.* 8(3): 212-219, ills. [Included for the spectacular photographs.]

[60] Chalet, J.-M. (2004). La Barranca de Batopilas et le mystère de Samachique. *Succulentes* 2004(4): 3-8, ills. [On a sympatric occurrence of *Echinocereus scheeri* and *E. salm-dyckianus*.]

[61] Charles, G. (2004). The identification of the *Copiapoa* species from Quebrada Botija, Chile. *Brit. Cact. Succ. J.* 22(1): 23-27, ills., SEM-ills.

[62] Charles, G. (2004). *Denmoza* Br. & R. *Brit. Cact. Succ. J.* 22(2): 91-94, ills. [Russian translation in *Kakt. Tolko* 2004(4'): 10-12, ills.]

[63] Cházaro Basáñez, M. J. & al. (2004). Introducing the succulent flora of Mexico: *Agave rzedowskiana*, a brand new species. *Cact. Adventures* No. 62: 27-31, ills. [Spanish version in Acevedo Rosas, R. & al. (eds.): *Guía de excursiones cactológicas en Jalisco, México*, 35-37, 2004.]

[64] Cházaro Basáñez, M. J. & al. (2004). *Agave geminiflora* in habitat. *Cact. Adventures* No. 63: 30-33, ills. [Spanish version in Acevedo Rosas, R. & al. (eds.): *Guía de excursiones cactológicas en Jalisco, México*, 29-31, 2004.]

[65] Cházaro Basáñez, M. J. & al. (2004). Datos adicionales sobre *Agave rzedowskiana* (*Agavaceae*). *Nakari* 15(2): []. [Published on CD-ROM only. Republished (printed) in *Suculentas* (Barcelona) No. 28: 12-16, ills., 2004.]

[66] Cházaro-Basáñez, M. J. & al. (2004). Avances en el estudio de los Agaves del centro de México. *Nakari* 15(3): []. [Published on CD-ROM only.]

[67] Chesselet, P. (2004). Stability in the tribal classification of the Ruschoid Mesemb: Morphology and molecules meet. *Mesemb Study Group Bull.* 19(4): 77-80.

[68] Chesselet, P. & al. (2004). Notes on African plants. *Mesembryanthemaceae*. A new tribe and adjustments to infrafamilial classification. *Bothalia* 34(1): 47-51.

[69] Clark-Tapia, R. & Molina-Freaner, F. (2004). Reproductive ecology of the rare clonal cactus *Stenocereus eruca* in the Sonoran Desert. *Pl. Syst. Evol.* 247(3-4): 155-164, map, ills.

[70] Cocucci, A. A. (2004). *Oxalidaceae*. In: Kubitzki, K. (ed.): *The families and genera of vascular plants*; VI: 285-290, ills., key. Berlin (D) etc.: Springer-Verlag.

[71] Cole, D. T. (2004). Hunting for *Lithops halenbergensis*. *Cact. Succ. J. (US)* 76(6): 290-293, ills. [Erratum l.c. 77(2): 104, 2005.]

[72] Cota-Sánchez, J. H. (2004). Vivipary in the *Cactaceae*: Its taxonomic occurrence and biological significance. *Flora* 199(6): 481-490, ills.

[73] Craib, C. & al. (2004). Variation in *Chortolirion angolense* (*Asphodelaceae*). *Haseltonia* 10: 51-56, map, ills.

[74] Crook, I. (2004). South Peru *Opuntia* log. Part 2. High altitude members of the genus *Cumulopuntia*. *Tephrocactus Study Group* 10(4): 58-59, ills. (p. 53, 60), map.

[75] Crook, R. & Mottram, R. (2004). *Opuntia* index Part 10: T-V. *Bradleya* 22: 53-76, ills. [Continued from l.c. 21, concluded l.c. 22, 2005.]

[76] Crozier, B. S. (2004). Subfamilies of *Cactaceae* Juss., including *Blossfeldioideae* subfam. nov. *Phytologia* 86(2): 52-64.

[77] Cuénoud, P. (2002). Introduction to expanded *Caryophyllales*. Conspectus of families of expanded *Caryophyllales*. In: Kubitzki, K. & Bayer, C. (eds.): *The families and genera of vascular plants*; 5: 1-6. Berlin (D) etc.: Springer-Verlag.

[78] Descouings, B. (2004). Note sur les *Kalanchoe* (*Crassulaceae*) de Madagascar: Deux espèces peu connues, *K. laetivirens* et *K. sanctula*. *Succulentes* 2004(4): 9-16, ills. [Part 2 published l.c. 2005(3), 2005.]

[79] Descouings, B. (2004). Les grandes Vitacées pachycaules. *Succulentes* 2004(Spécial): 32-49, ills.

[80] Dicht, R. & Lüthy, A. (2004). [Russian:] The *Coryphantha elephantidens* group. *Kakt. Klub* 2004(1): 37-42, ills., map.

[81] Dimmitt, M. A. & al. (2004). Rich succulent floras in central Baja California. *Cact. Succ. J. (US)* 76(4): 185-190, ills., map. [Includes checklist for Cerro Colorado, Baja California Sur.]

[82] Dodds, M. (2004). *Angolluma wilsonii* (P. R. O. Bally) Plowes. *Asklepios* No. 90: 12-13, ills.

[83] Dold, T. & Brink, E. (2004). The Fish River

- Tick Plant. A newly described dwarf succulent from the Albany Center of Endemism. *Cact. Succ. J. (US)* 76(3): 158-161, ill., map. [On *Drimia acarophylla*.]
- [84] Dold, T. & Kobisi, K. (2004). Notes on the genus *Brachystelma* in Lesotho. *Asklepios* No. 89: 3-7, ill., map. [Dated Dec. 2003, received 19. 2. 2004.]
- [85] Donati, D. (2003). Revisione tassonomica del genere *Turbincarpus* Backeb. ex Buxb. Ozzano Emilia (I): Anna Copy Center, published by the author. 35 pp., ill. [A thesis made "available" in the sense of the ICBN (Art. 29.1) by distributing photocopy versions to several libraries and private individuals. The thesis was registered 28. 5. 2003 by the university, and was available in the public library as from 28. 7. 2003 (Donati, pers. comm.). Reprinted together with an English translation in *TurbiNow* No. 16: 21-30, 2004; German translation *I.c.* no. 17: 53-57, 2005 ('2004'), No. 18: 20-31, 2005.]
- [86] Donati, D. & Dumont, G. (2004). I Semprevivi dell'Appennino Tosco-Emiliano: Evidenziamento di un taxon ibridogeno misconosciuto, *Sempervivum* × *barbulatum* subsp. *etruscum* D. Donati & G. Dumont subsp. nov. / Les Joubarbes de l'Appennin Tosco-Émilien: Mise en évidence d'un taxon hybridogène méconnu. *Piante Grasse* 24(4): 155-168, ill.
- [87] Donati, D. & Zanovello, C. (2004). Conoscere, capire, coltivare i *Turbincarpus* – *Rapicactus*. Un viaggio attraverso gli Stati Messicani di Coahuila, Guanajuato, Hidalgo, Nuevo León, Querétaro, San Luis Potosí, Tamaulipas, Zacatecas tra vecchi taxa e nuove scoperte. Trento (I): Edizione Cactus Trentino Südtirol. 254 pp., ill., SEM-ills., maps, keys, 1 p. of errata. [Published 29. May 2004. German edition published 2005.]
- [88] Dortort, F. (2004). Under discussion: *Anacampseros*. *Cact. Succ. J. (US)* 76(3): 108-113, ill. [Included for the illustrations. See comments by J. van Thiel in *I.c.* (6): 301.]
- [89] Doweld, A. B. (2004). [Russian:] A system of classification of the genus *Pereskia* Mill. (*Pereskioideae* – *Cactaceae*). *Byull. Moskovsk. Obsch. Isp. Priir., Otd. Biol.* 109(4): 44-49.
- [90] Drezner, T. D. (2004). Saguaro patterns and ecology over Arizona: A closer look at rainfall. *Desert Pl.* 20(1): 24-32, ill., map.
- [91] Drezner, T. D. (2004). Saguars and their nurses in the Sonoran Desert: A review. *Desert Pl.* 20(1): 3-10, ill.
- [92] Drezner, T. D. (2004). Saguaro recruitment over their American range: A separation and comparison of summer temperature and rainfall. *J. Arid Environm.* 56: 509-524, map.
- [93] Du Puy, D. (2004). Plant portraits. *Aloe parvula*. *Aloe compressa*. *Aloe calcairophila*. *Aloe descoingsii*. *Curtis's Bot. Mag., ser. nov.*, 21(4): 229-245, ill., tt. 505-508.
- [94] Du Puy, D. (2004). Four miniature species of *Aloe* from Madagascar. *Curtis's Bot. Mag., ser. nov.*, 21(4): 222-228, ill.
- [95] Duret, C. (2004). *Obetia ficifolia* (*Urticaceae*): A pachycaul nettle in danger. *Bradleya* 22: 43-52, ill., map.
- [96] Dyer, R. J. & Nason, J. D. (2004). Population graphs: The graph theoretic shape of genetic structure. *Molec. Ecol.* 13(7): 1713-1727. [On *Lophocereus schottii*.]
- [97] Eckert, K. & Wessner, A. (2004). Die Farbspiele von *Echinopsis candicans*. *Kakt. and. Sukk.* 55(1): 15-21, ill.
- [98] Eerikens, G. (2004). *Melocactus calderanus* nomen provisiorium. *Succulenta* 83(4): 166-167, ill.
- [99] Eggli, U. & Newton, L. E. (2004). Etymological dictionary of succulent plant names. Berlin / Heidelberg (D) etc.: Springer-Verlag. xviii + 266 pp.
- [100] Elalaoui Faris, F. E. (2004). Pollen et graines de quelques espèces d'Aeoniums et d'Umbilicus (*Crassulaceae*). *Rev. Cytol. Biol. Vég. Botaniste* 26(1-2): 33-40, SEM-ills. [Volume for 2003, publ. 2004 fide IK.]
- [101] Elling, B. (2004). Untersuchungen zur weltweiten Verbreitung von *Mesembryanthemum crystallinum* L. (*Aizoaceae*) mit molekularen Methoden. Hamburg (D): Unpubl. M.Sc. thesis, Biozentrum Klein Flottbek und Botanischer Garten. 136 pp.
- [102] Eren, Ö. & al. (2004). The flora and vegetation of Kairli Dagi (Western Taurus Mts., Turkey), including annotations on critical taxa of the Taurus range. *Willdenowia* 34(2): 463-503, maps. [Includes *Crassulaceae* (p. 479).]
- [103] Esteves Pereira, E. (2004). *Facheiroa braunii* Esteves. A new species of *Cactaceae* with a review of the genus *Facheiroa*. *Cact. Succ. J. (US)* 76(3): 119-131, ill., SEM-ills., key.
- [104] Etter, J. & Kristen, M. (2004). Looking for Dudleyas in the US. *Cact. Succ. J. (US)* 76(5): 232-236, ill.
- [105] Etter, J. & Kristen, M. (2004). Finding Dudleyas in Baja California. *Cact. Succ. J. (US)* 76(5): 250-251, 254-262, ill.
- [106] FNA Editorial Committee (2004). Flora of North America north of Mexico. Volume 4: *Magnoliophyta: Caryophyllidae*, part 1. New York (US: NY) / Oxford (GB): Oxford University Press. xxiv + 559 pp., ill., maps, keys. [Dated 2003, publ. 2004 fide IK.]
- [107] Fadaie, F. (2003). *Aizoaceae*. In: Assadi, M. & al. (eds.): *Flora of Iran*, No. 44. Teheran

- (Iran): Ministry of Jihad-e-Agriculture, Agricultural Research and Education Organization, Research Institute of Forests and Rangelands. 17 pp., ills., maps.
- [108] Fairfield, K. N. & al. (2004). Phylogenetics and evolution of the Macaronesian members of the genus *Aichryson* (*Crassulaceae*) inferred from nuclear and chloroplast sequence data. *Pl. Syst. Evol.* 248(1-4): 71-83, map.
- [109] Farago, P. V. & al. (2004). Análise morfo-anatómica de folhas de *Pereskia grandifolia* Haw., *Cactaceae*. *Acta Farm. Bonaerense* 23(3): 323-327, ills.
- [110] Felix, D. (2004). Interessante Standorte in USA und Mexiko. Teil 2: *Echinocereus canyonensis* Clover & Jotter am Toroweap Point, Arizona. *Echinocereenfreund* 17(4): 101-107, ills.
- [111] Felix, D. & Keppler, H. (2004). *Echinocereus coccineus* Engelm. ssp. *aggregatus* (Engelm. ex Watson) Blum, Lange et Rutow (Beobachtungen am Typ- und Neotypstandort). *Echinocereenfreund* 17(3): 59-66, ills.
- [112] Fencel, O. (2004). Dve jména, rostlina vsak jediná ... *Escobaria missouriensis* (Sweet) D. R. Hunt var. *marstonii* (Clover) D. R. Hunt & *Escobaria missouriensis* (Sweet) D. R. Hunt ssp. *navajoensis* F. Hochstätter. *Kaktusy* 40(4): 110-112, ills.
- [113] Fischer, E. (2004). *Balsaminaceae*. In: Kubitzki, K. (ed.): *The families and genera of vascular plants*; 6: 20-25, ills., key. Berlin (D) etc.: Springer-Verlag.
- [114] Fishbein, M. & Soltis, D. E. (2004). Further resolution of the rapid radiation of *Saxifragales* (Angiosperms, Eudicots) supported by mixed-model Bayesian analysis. *Syst. Bot.* 29(4): 883-891.
- [115] Fitz Maurice, B. & W. A. (2004). Fieldnotes. Mexico's *Digitostigma caput-medusae*. *Cact. Succ. J. (US)* 76(6): 317-319, ills.
- [116] Font, F. (2003). *Cleistocactus* Lemaire en Argentina. *Revista Circ. Colec. Cact. Crasas Rep. Argent.* 2(2): 36-40, key, ills. (incl. p. 49).
- [117] Font, F. (2004). Dos interesantes híbridos naturales intergenéricos en cactáceas de Argentina. *Revista Circ. Colec. Cact. Crasas Rep. Argent.* 3(3): 60-66, 72, ills.
- [118] Foxcroft, L. C. & al. (2004). Reconstructing 50 years of *Opuntia stricta* invasion in the Kruger National Park, South Africa: Environmental determinants and propagule pressure. *Diversity & Distrib.* 10(5-6): 427-437.
- [119] Frank, G. R. W. (2004). Eine Reise in das Verbreitungsgebiet von *Echinocereus reichenbachii* ssp. *burrensis* G. R. W. Frank, W. Metorn et E. Scherer. *Kaktusblüte* 2004: 3-9, ills.
- [120] Freire-Fierro, A. (2004). *Crassulaceae*. In: Harling, G. & Andersson, L. (eds.): *Flora of Ecuador* No. 73. Göteborg (S): Botanical Institute, Göteborg University. 16 pp.
- [121] Fritz, G. (2004). *Sulcorebutia dorana* Gertel. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 17(10): 152-154, ills.
- [122] Fritz, G. (2004). *Sulcorebutia tarabucoensis* ssp. *hertusii* (Halda & Horáček) Gertel & Wahl. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 17(11): 167-170, ills.
- [123] Fritz, G. (2004). *Sulcorebutia gemmae* Mosti & Rovida. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 17(7): 103-105, ills.
- [124] Fritz, G. (2004). *Sulcorebutia markusii* ssp. *tintiniensis* [sic!] Gertel. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 17(8): 119-121, ills.
- [125] Fritz, G. (2004). *Sulcorebutia mariana* var. *pranmeri* Augustin & Hentzschel. *Tijdschr. Liefhebb. Cact. Vetpl. Kamerpl.* 17(9): 139-141, ills.
- [126] Fritz, G. & al. (2004). *Sulcorebutia* [1]. Una revisione delle specie dell'area settentrionale – a revision of the species of the northern distribution area. Il complesso di / The complex of *Sulcorebutia steinbachii* (Werdermann) Backeberg. *Cactus & Co.* 8(3): 167-189, ills.
- [127] Gallo, L. (2004). *Crassulaceae* of the Verbano-Cusio-Ossola (Piedmont, Italy). / *Crassulaceae* del Verbano-Cusio-Ossola (Piemonte, Italia). In: Russo, L. (ed.): *The succulent plants of East Africa / Le piante succulente dell'Africa Orientale*, pp. 192-213. Roma (I): Associazione Italiana Amatori delle Piante Succulente.
- [128] Gamisans, J. (2004). *Crassulaceae*. In: Jeanmonod, D. & Schlüssell, A. (eds.): *Notes et contributions à la flore de Corse*, XX. *Candollea* 59(1): 82.
- [129] Gapon, V. (2004). [Russian:] Once again about the systematics of the genus *Lophophora*. *Kakt. Klub* 2004(2): 45-51, ills.
- [130] García-Mendoza, A. & Chiang, F. (2003). The confusion of *Agave vivipara* L. and *A. angustifolia* Haw., two distinct taxa. *Brittonia* 55(1): 82-87, ill.
- [131] Gerloff, N. (2004). Besuch am Cerro Mosquito – "Mückenberg". Wo *Notocactus megalanthus* Schlosser & Brederoo 1981 wächst. *Internoto* 25(1): 3-13, ills.
- [132] Gerloff, N. (2004). *Notocactus agnetae* Vliet 1975. *Internoto* 25(4): 147-152, ills., map.
- [133] Gerloff, N. (2004). *Notocactus vanvlietii* Rausch 1970 und seine Verwandten. *Internoto* 25(4): 165-169, ills.
- [134] Gerloff, N. & Neduchal, J. (2004). Taxonomische Neubearbeitung der Gattung *Notocactus* Fric. *Internoto* 25(2): 35-127, ills., maps.
- [135] Germishuizen, G. & Meyer, N. L. (eds.)

- (2003). Plants of southern Africa: An annotated checklist. Pretoria (RSA): National Botanical Institute. [= *Strelitzia* 14.]
- [136] Gertel, W. (2004). Eine Lanze für *Sulcorebutia cylindrica*. *Kakt. and. Sukk.* 55(7): 199-202, ills.
- [137] Gertel, W. & Wahl, R. (2004). Bemerkungen zu einigen Erstbeschreibungen von Josef J. Halda. *Kakt. and. Sukk.* 55(1): 10-14, ills. [On taxa of *Sulcorebutia*.]
- [138] Gess, S. K. & Gess, F. W. (2004). A comparative overview of flower visiting by non-*Apis* bees in the semi-arid to arid areas of southern Africa. *J. Kansas Entomol. Soc.* 77(4): 602-618. [Includes data on *Aizoaceae*.]
- [139] Ghazanfar, S. A. (2003). Flora of the Sultanate of Oman. Volume 1. *Piperaceae - Primulaceae*. Meise (B): National Botanic Garden of Belgium. viii + 262 pp., maps, CD-ROM. [= *Scripta Botanica Belgica* 25. This volume includes *Moraceae* (*Dorstenia*), *Aizoaceae*, *Portulacaceae*, *Bombacaceae*, *Cucurbitaceae*, *Capparaceae* (*Maerua*), and *Moringaceae*.]
- [140] Gilmer, K. & Thomas, H.-P. (2004). Eine kaum bekannte südamerikanische Art: *Puna bonnieae* (*Opuntioideae*). *Kakt. and. Sukk.* 55(1): 1-4, ills.
- [141] Godínez-Alvarez, H. & Valiente-Banuet, A. (2004). Demography of the columnar cactus *Neobuxbaumia macrocephala*: A comparative approach using population projection matrices. *Pl. Ecol.* 174(1): 109-118.
- [142] Gonzalez, A. G. & al. (2004). Flavans of Dragon's Blood from *Dracaena draco* and *Dracaena tamaranae*. *Biochem. Syst. Ecol.* 32(2): 179-184.
- [143] González, L. & al. (2004). Distribución y evaluación de las poblaciones naturales del género *Ariocarpus* (Scheidweiler) en Coahuila, México. *Cact. Suc. Mex.* 49(3): 68-79, ills., maps.
- [144] Gorelick, R. (2004). Resolving the phylogenetic placement of *Blossfeldia liliputana* (*Cactaceae*): Reticulate evolution, chloroplast inheritance, and graft-chimeras. *Bradleya* 22: 9-14.
- [145] Goyder, D. J. (2004). Key to the species of *Gomphocarpus* (*Apocynaceae: Asclepiadeae*) – a correction. *Kew Bull.* 59(2): 304.
- [146] Griffin, K. J. (2004). *Dudleya cymosa*. *Cact. Succ. J. (US)* 76(5): 248-249, ills.
- [147] Griffin, K. J. (2004). *Dudleya candida*. A chance encounter with the big form of *D. brittonii*, or is it the other way around? *Cact. Succ. J. (US)* 76(5): 264-265, ills.
- [148] Griffin, K. J. (2004). On the troubles with identifying *Dudleyas* and telling the differences among *D. brittonii*, *D. anthonyi* and *D. pulverulenta*. *Cact. Succ. J. (US)* 76(5): 266-267, ills.
- [149] Griffith, M. P. (2004). Early cactus evolution: The postmodern view. *Haseltonia* 10: 3-11, ills.
- [150] Griffith, M. P. (2004). What did the first cactus look like? An attempt to reconcile the morphological and molecular evidence. *Taxon* 53(2): 493-499, ills.
- [151] Griffith, M. P. (2004). The origins of an important cactus crop, *Opuntia ficus-indica* (*Cactaceae*): New molecular evidence. *Amer. J. Bot.* 91(11): 1915-1921, ills., map.
- [152] Guiggi, A. (2004). Taxonomie infraspécifique de *Melocactus conoideus* Buining & Brederoo (*Cactaceae*). *Succulentas* 2004(4): 17-20, ills.
- [153] Guillot Ortiz, D. & Meer, P. van der (2002). Sobre el icono designado como *Agave angustifolia* por Sessé & Mociño. *Blancoana* 19: 97-105.
- [154] Guillot Ortiz, D. & Meer, P. van der (2003). Respecto de *Agave lempana* Trel. *Flora Montiberica* 23: 9-12.
- [155] Guillot Ortiz, D. & Meer, P. van der (2003). La especie *Agave ragusae* Terrac. y el icono de Bessler. *Flora Montiberica* 24: 27-32.
- [156] Guillot Ortiz, D. & Meer, P. van der (2003). Acerca de *Agave ingens* Berger en la Comunidad Valenciana. *Toll Negre* 2: 18.
- [157] Guillot Ortiz, D. & Meer, P. van der (2004). Algunas citas de neófitos en la Comunidad Valenciana. *Flora Montiberica* 27: 5-7. [Includes *Malephora lutea* and *Opuntia ×occidentalis*.]
- [158] Guillot Ortiz, D. & Meer, P. van der (2004). La especie *Aloe humilis* (L. Mill.) en la obra de Cavanilles. *Flora Montiberica* 28: 80-82.
- [159] Hachfeld, B. (2004). Long-term population changes of *Harpagophytum procumbens* (Burch.) DC. ex Meissn. (Devil's Claw) in Namibia. *Langfristige Populationsveränderungen von Harpagophytum procumbens* (Burch.) DC. ex Meissn. (Teufelskralle) in Namibia. *Schumannia* No. 4: 217-224, ills., map. [= *Biodiversity & Ecology* No. 2.]
- [160] Haeevermans, T. & al. (2004). Phylogenetic analysis of the Madagascan *Euphorbia* subgenus *Lacanthis* based on ITS sequence data. *Ann. Missouri Bot. Gard.* 91(2): 247-259.
- [161] Halda, J. J. (ed.) (2003). Krizenci turbinikarpu, vznikl v zahrade Paola Panarotta, cást. I. Garden hybrids, lately raised and cultivated by Paolo Panarotto, part I. *Acta Mus. Richnov. Sect. Nat.* 10(2): 160-169, ills. (outside back cover).
- [162] Hamann, O. (2004). Vegetation changes over three decades on Santa Fe Island, Galápagos, Ecuador. *Nordic J. Bot.* 23(1): 143-152, ills. [In-

- cludes data on *Opuntia echios* var. *barringtonensis*.]
- [163] Hammer, S. A. (2004). Haystacks and hot potatoes. Mesemb Study Group Bull. 19(1): 12-13, key. [On *Conophytum bachelorum* and related taxa.]
- [164] Hammer, S. A. (2004). The adventure of the second Stein. Mesemb Study Group Bull. 19(3): 55-56. [On *Lithops steineckeana*.]
- [165] Hammer, S. A. (2004). Two new nothogenera: \times *Pleiodesma* and \times *Gibbaotus*. Mesemb Study Group Bull. 19(4): 74. [Includes data on intrageneric hybridization in *Gibbaeum*.]
- [166] Hammer, S. A. (2004). Some observations on wild and captive *Mitrophyllinae* (*Aizoaceae*). *Mitrophyllinae*: Beobachtungen an kultivierten Pflanzen und am natürlichen Standort. Schumannia No. 4: 71-80, ills. [= Biodiversity & Ecology No. 2.]
- [167] Hammer, S. A. & Dold, A. P. (2004). Notes on the genus *Orthopterum* L. Bolus and its relatives. *Aloe* 42(2-3): 45-49, ills., map.
- [168] Hardy, D. S. (2004). *Dauphinea brevilabra*. Curtis's Bot. Mag., ser. nov., 21(4): 246-247, t. 509.
- [169] Hargreaves, B. J. (2004). The *Aloe littoralis* complex in Botswana. *Alsterworthia* Internat. 4(1): 18-21, ills., map.
- [170] Hartmann, H. E. K. (2004). *Aizoaceae* in East Africa. / *Aizoaceae* in Africa orientale. In: Russo, L. (ed.): The succulent plants of East Africa / Le piante succulente dell'Africa Orientale, pp. 28-71, ills., maps, keys. Roma (I): Associazione Italiana Amatori delle Piante Succulente.
- [171] Hartmann, H. E. K. (2004). Adaptations and phylogeography in the Ice-Plant family (*Aizoaceae*) – the interaction of the genetic equipment and ecological parameters. I. One leaf-pair is the plant. *Bradleya* 22: 21-36, ills., maps, key. [Includes a key to *Aizoaceae* species with a single leaf-pair during the resting state.]
- [172] Hayashi, M. (2003). "*H.[aworthia] decipiens*" complex. *Haworthia* Study No. 10: 6-14, ills., diag.
- [173] Hayashi, M. (2004). Flower of *H.[aworthia] opalina*. *Haworthia* Study No. 11: 11, ills.
- [174] Heek, W. van & Strecker, W. (2004). Wirrwarr um die Namensgebung. *Micranthocereus purpureus*. *Kakt. and. Sukk.* 55(12): 343-347, ills.
- [175] Heine, R. (2004). Die rote *Lithops optica*. *Avonia* 22(2): 37-39, ills.
- [176] Heller, T. (2003). *Agaven*. Münster (D): Natur und Tier-Verlag. 136 pp., ills., maps.
- [177] Hernández-Oría, J. G. & al. (2004). Evaluación de aspectos ecológicos de una nueva población de *Mammillaria mathildae* Kraehenbuehl & Krainz en Querétaro. *Cact. Suc. Mex.* 48(4): 100-110, ills. [Dated 2003, received at ZSS 24. 2. 2004.]
- [178] Hernández, H. M. & al. (2004). Cactáceas. In: García-Mendoza, A. J. & al. (eds.): Biodiversidad de Oaxaca; pp. 199-207, maps. México (MEX): Instituto de Biología UNAM / Fondo Oaxaqueño para la Conservación de la Naturaleza-World Wildlife Fund.
- [179] Hernández, H. M. & al. (2004). Checklist of Chihuahuan Desert *Cactaceae*. *Harvard Pap. Bot.* 9(1): 51-68, map.
- [180] Hinz, S. & Typiak, A. (2003). Monografia rodzaju *Notocactus*. Lublin (POL): Primo-Offset / published by the authors. 184 pp., ills., + unnumbered col. pl. [Undated, published 2003 fide A. Typiak, pers. comm.]
- [181] Hochstätter, F. (2004). *Yucca* III (*Agavaceae*). Mexico. Mannheim (D): Published by the author. 303 pp., ills., keys.
- [182] Hochstätter, F. (2004). The genus / Die Gattung *Sclerocactus* Britton & Rose *Cactaceae*. Part / Teil I / II. *Cactaceae Rev.* 7(1): 4-10, (2): 4-18, ills., SEM-ills. [Continued in *l.c.* 8(1): 14-20, ills., 2005.]
- [183] Hochstätter, F. (2004). *Pediocactus simpsonii* (Engelmann) Britton & Rose ssp. *idahoensis* Hochstätter aus den Rocky Mountains in Idaho. *Frostharte Kakt.* 1(2): 29-34, ills.
- [184] Hochstätter, F. (2004). Il genere *Yucca* L. (*Agavaceae*). 8 / 9. *Piante Grasse* 24(1): 19-21; (2): 53-57, ills., key. [Continued from *l.c.* 23(4), 2004.]
- [185] Hochstätter, F. (2004). Het geslacht *Yucca* (*Agavaceae*) deel 17. *Yucca's in Mexico* 6. *Succulenta* 83(1): 39-41, ills. [Continued from *l.c.* 82(6), 2003.]
- [186] Hodgson, W. C. (2004). Ancient *Agave* cultivars and ancient peoples: A synthesis of our research. *Sonoran Quart.* 58(3): 6-10, ills.
- [187] Hoock, H. & Kleszewski, K.-P. (2004). *Astrophytum myriostigma* var. *nudum* (R. Meyer) Megata. *Kakt. and. Sukk.* 55(2): 29-34, ills.
- [188] Horáček, L. (2004). *Sulcorebutia tarijensis* Ritter na lokalite. *Kaktusy* 40(1): 13-15, ills.
- [189] Horáček, L. (2004). Nový nález z Bolívie, prov. Oruro. *Sulcorebutia christiei* B. Bates, J. J. Halda, P. Hertus & L. Horáček. *Kaktusy* 40(3): 77-78, ills.
- [190] Hou, Y.-L. & Chu, C.-Y. (2004). The pollen germination and interspecific hybridization between *Kalanchoe garambiensis* and *K. blossfeldiana* Poelln. *J. Chin. Soc. Hort. Sci.* 50(2): 187-196.
- [191] Hoxey, P. (2004). Some notes on *Copiapoa humilis* and the description of a new subspecies.

- Brit. Cact. Succ. J. 22(1): 29-42, ills., map. [Russian translation in Kakt. Tolko 2004(4): 17-22, ills. (incl. p. D), 2004.]
- [192] Hughes, J. & Machado, M. (2004). A visit to the habitat of *Melocactus deinacanthus*. Brit. Cact. Succ. J. 21(4): 172-179, ills. [Dated 2003, received 26. 1. 2004.]
- [193] Hunt, D. R. (2004). Brief notes on *Mammillaria*. Cact. Syst. Init. No. 18: 8-10, ills.
- [194] Hutchinson, J. T. & Pazara, P. (2004). Field observations on the endangered Fragrant Prickly-Apple Cactus (*Harrisia fragrans*). Haseltonia 10: 12-15, ills.
- [195] Illert, W. E. (2004). *Melocactus citrispinus* – ein neuer Fundort auf der Insel Curaçao. Kakt. and. Succ. 55(1): 22-24, ills.
- [196] Illert, W. E. (2004). Kakteen und Sukkulente im Arikok National Park auf der Insel Aruba. Kakt. and. Succ. 55(9): 255-261, ills. [Included for the data on *Melocactus barbarae* etc.]
- [197] Irnstorfer, O. (2004). Am Wuchsort von *Parodia augustinii*. Kakt. and. Succ. 55(11): 304-308, ills.
- [198] Ishmuratova, M. M. (2004). Estimation of state of *Rhodiola iremelica* (*Crassulaceae*) coenopopulations on the south Urals. Communication 1. Quantity, density, age and sexual content. Rastitel'n. Resursy 40(4): 18-29.
- [199] Jaarsveld, E. J. van & Pienaar, U. de Villiers (2004). *Aizoaceae*. Die Mittagsblumen Südafrikas. Les Mésems d'Afrique du Sud. Stuttgart (D): Eugen Ulmer Verlag / Paris (F): Edition Eugen Ulmer. 240 pp., ills., maps. [Translated and slightly revised from the original English / Italian edition published 2001 ('2000').]
- [200] Jaarsveld, E. J. van & al. (2004). Notes on African plants. *Crassulaceae*. *Adromischus schuldianus* subsp. *brandbergensis*, a new subspecies, and a checklist of the succulent flora of the Brandberg, Namibia. Bothalia 34(1): 35-38, ills., map.
- [201] Jaarsveld, E. van & Koutnik, D. (2004). *Cotyledon* and *Tylecodon*. Hatfield (RSA): Umdaus Press. viii + 156 pp., ills., keys, maps.
- [202] Jankalski, S. (2004). *Sansevieria* versus *Dracaena*. *Sansevieria* No. 8: 17-18, ill. [Dated 2003 on the title page, received 26. Jan. 2004.]
- [203] Jankalski, S. (2004). *Sansevieria erythraea*. *Sansevieria* No. 9: 18-21, ill. [See note by B. J. Chahinian (l.c. No. 11: 22, 2005) for a correction.]
- [204] Jantschgi, G. (2004). Der *Thelocactus rinconensis*-Komplex. Beobachtungen in Natur und Kultur. Turbi-Now No. 16: 4-16, ills., maps.
- [205] Jucker, H.-J. & Eggli, U. (2004). Die Verbreitung der monotypischen bolivianischen Kakteen-gattung *Cintia*. Kakt. and. Succ. 55(9): 241-248, ills., map.
- [206] Jürgens, A. (2004). Nectar sugar composition and floral scent compounds of diurnal and nocturnal *Conophytum* species (*Aizoaceae*). South Afr. J. Bot. 70(2): 191-205.
- [207] Kalas, R. (2004). *Ariocarpus* – poznámka ke schematu vývoje areoly. Kaktusy 40(3): 81-83, ills., diag.
- [208] Katinas, L. & al. (2004). Type material of Carlos L. Spegazzini in the Museo de La Plata Herbarium (LP), Argentina. III. *Cactaceae*. Darwiniana 42(1-2): 177-200.
- [209] Käsinger, F. (2004). *Parodia nivosa* Backeberg. Mitteilungsbl. Inter-Parodia-Kette No. 21: Suppl. pp. [1]-4.
- [210] Kiesling, R. & Metzger, D. (2004). An amazing species of *Hildewintera* (*Cactaceae*) – characters and systematic position. Cact. Succ. J. (US) 76(1): 4-12, ills., map.
- [211] Kilian, B. & al. (eds.) (2004). Further notes on the flora of the southern coastal mountains of Yemen. Willdenowia 34(1): 159-182, maps, ills.
- [212] Kimnach, M. (2004). *Echeveria unguiculata* – an addendum. Cact. Succ. J. (US) 76(3): 155.
- [213] Kipka, S. (2004). *Portulaca*. In: Kilian, N. & al. (eds.): Further notes on the flora of the southern coastal mountains of Yemen. Willdenowia 34(1): 176-177.
- [214] Klak, C. (2003). *Aizoaceae*. In: Trinder-Smith, T. H. (ed.): The Levyns guide to the plant genera of the southwestern Cape; pp. 152-164. Cape Town (RSA): Bolus Herbarium, University of Cape Town.
- [215] Klak, C. (2004). *Aizoaceae* or *Mesembryanthemaceae*? New evidence from DNA. Mesemb Study Group Bull. 19(2): 29-36, ills.
- [216] Klak, C. & al. (2004). Unmatched tempo of evolution in Southern African semi-desert ice plants. Nature (London) 427(Jan.): 63-65.
- [217] Klenter, T. & Albers, F. (2004). Comparative studies of the androecium of *Monsonia* species from the sections *Olopetalum* and *Sarcocaulon* (*Geraniaceae*). Vergleichende Untersuchungen des Androeciums von *Monsonia*-Arten der Sektionen *Olopetalum* und *Sarcocaulon* (*Geraniaceae*). Schumannia No. 4: 87-92, ills. [= Biodiversity & Ecology No. 2.]
- [218] Kleszewski, K.-P. (2004). Standortbeobachtungen von *Astrophytum capricorne* (Dietrich) B. & R. im mexikanischen Bundesstaat Nuevo Leon. Kaktusblüte 2004: 23-26, ills.
- [219] Kleszewski, K.-P. & Hoock, H. (2004). *Astrophytum ornatum* am Rio Moctezuma und

- seinen Nebenflüssen. Kakt. and. Sukk. 55(11): 297-303, ills., map. [Includes a distribution map of the species.]
- [220] Kloppenburg, D. (2004). A tale of two sections. *Fraterna* 17(1): 1-7, ills. [On *Hoya revoluta*.]
- [221] Kobayashi, H. (2004). Succulents. Tokyo (JP): International Succulent Institute Japan. 254 pp., ills. [Included for the very numerous illustrations.]
- [222] Kock, D. de (2004). The "what is what" in *Ceropogia* – a preliminary checklist (part 1 / 2 / 3). *Asklepios* No. 89: 19-22; No. 90: 22-27; No. 91: 27-28. [No. 89 dated Dec. 2003, received 19. 2. 2004. Continued l.c. No. 93: 23-26, 2005.]
- [223] Korotkov, K. (2004). [Russian:] Set at liberty to *Lithops eberlanzii*. Kakt. Klub 2004(2): 38-44, ills.
- [224] Kubitzki, K. (2004). *Fouquieriaceae*. In: Kubitzki, K. (ed.): The families and genera of vascular plants; 6: 195-198, ills. Berlin (D) etc.: Springer-Verlag.
- [225] Kubitzki, K. & Kadereit, J. W. (eds.) (2004). The families and genera of vascular plants. Vol. VII. Flowering plants. Dicotyledons. *Lamiales* (except *Acanthaceae* including *Avicenniaceae*). Berlin, Heidelberg (D) etc.: Springer Verlag. ix + 478 pp., ills., keys. [This volume includes *Gesneriaceae*, *Lamiaceae* and *Pedaliaceae*.]
- [226] Kubitzki, K. (ed.) (2004). The families and genera of vascular plants. Vol. VI. Flowering plants. Dicotyledons. *Celastrales*, *Oxalidales*, *Rosales*, *Cornales*, *Ericales*. Berlin (D) etc.: Springer-Verlag. xi + 489 pp., ills., keys. [This volume includes the *Balsaminaceae*, *Fouquieriaceae* and *Oxalidaceae*.]
- [227] Lamb, A. (2004). The Hoyas of Sabah. *Fraterna* 16(4): 6-8, ills. [Dated Oct.-Dec. 2003 on the cover, post-marked 8. 1. 2004. Included for the illustrations.]
- [228] Lambert, J. (2004). Geelbloier doet het ook wel in het rood. *Succulenta* 83(5): 237-238, ills. [On *Echinopsis haematantha* var. *elongata*.]
- [229] Lamont, E. E. & Young, S. M. (2004). Noteworthy plants reported from the Torrey Range – 2002 and 2003. *J. Torrey Bot. Soc.* 131(4): 394-402. [Includes *Sedum sexangulare* as neophyte.]
- [230] Lane, S. (2004). The Aloes of Malawi. Hatfield (RSA): Umदाus Press. viii + 56 pp., ills., key, maps.
- [231] Langdon, S. J. & al. (2004). *Crassula helmsii* in UK ponds: Effects on plant biodiversity and implications for newt conservation. *Weed Technol.* 18: 1349-1352.
- [232] Lange, M. (2004). Notizen zu *Echinoce-reus santaritensis* Blum & Rutow und *E. coccineus* Engelm. ssp. *aggregatus* (Engelm. ex Watson) Blum, Lange et Rutow. *Echinocereenfreund* 17(3): 67-72, ills.
- [233] Lau, A. B. (2004). Die weissblättrige *Echeveria pulvinata* ist kein Kultivar. *Avonia* 22(2): 29-31, ills.
- [234] Lausser, A. & al. (2004). *Turbincarpus valdezianus*. Beobachtungen am Standort und neue Erkenntnisse. *Turbi-Now* No. 15: 4-19, ills., map.
- [235] Lavranos, J. J. (2004). Phytogeography of the Republic of Djibouti and the northern Somali Escarpment region. / *Fitogeografia della Repubblica di Gibuti e della scarpata settentrionale somala*. In: Russo, L. (ed.): The succulent plants of East Africa / Le piante succulente dell'Africa Orientale, pp. 134-145, ills., map. Roma (I): Associazione Italiana Amatori delle Piante Succulente.
- [236] Lavranos, J. J. (2004). *Aloe striata* Haworth and its associated: Reflections on consistency in taxonomic treatment. *Aloe* 42(2-3): 50-51, ills., key.
- [237] Lavranos, J. J. (2004). *Othonna cacalioides*, *Othonna wrinkleana* and botanical inanities. *Aloe* 42(2-3): 54-55, ills.; (4): 80, 2005 [erratum].
- [238] Lei, Y. D. & al. (2004). Interpopulation variability of rhizome essential oils in *Rhodiola crenulata* from Tibet and Yunnan, China. *Biochem. Syst. Ecol.* 32(6): 611-614.
- [239] Leuenberger, B. E. (2004). The *Cactaceae* of the Willdenow herbarium, and of Willdenow (1813). *Willdenowia* 34(1): 309-322, ills.
- [240] Lima, E. M. C. & al. (2003). Pentacyclic triterpenes from *Euphorbia stygiana*. *Phytochemistry* 63: 421-425.
- [241] Lodé, J. (2004). *Mammillaria columbiana* & varieties. *Cact. Aventures* No. 61: 21-24, ills. (incl. back cover). [German translation in *Mitteilungsbl. AfM* 28(2): 71-75, ills., 2004.]
- [242] Low, J. (2004). *Sedum lumholtzii*. *Sedum Soc. Newslett.* No. 69: 58-59, ills.
- [243] Lutz, E. (2004). Strauchsukkulente im Süden Arizonas. *Avonia* 22(2): 34-36, ills. [Includes data on a new locality of *Bursera microphylla*.]
- [244] Lüthy, J. M. (2004). Another look at the Pachypodiums of Madagascar. *Bradleya* 22: 85-130, ills., keys.
- [245] Lüthy, J. M. (2004). Die Wiederentdeckung von *Pachypodium menabeum* (*Apocynaceae*). *Kakt. and. Sukk.* 55(10): 274-280, ills., map.
- [246] Machado, M. (2004). The conservation of *Melocactus conoideus* Buin. & Bred. in Vitória da Conquista, Brazil. *Brit. Cact. Succ. J.* 22(3):

- 139-146, ill.
- [247] Machado, M. (2004). Die Entdeckung der *Arrojadoa marylanae*. Kakt. and. Sukk. 55(7): 173-178, ill.
- [248] Maddams, W. F. (2004). Time of fruiting data, 2003/04. J. Mammillaria Soc. 44(3): 38.
- [249] Madsen, J. E. & Aguirre M., Z. (2004). Cactus novelties from southern Ecuador. Nordic J. Bot. 23(1): 21-29, map, ill.
- [250] Mak, H. C. K. (2004). Forms of *Aloe aristata*. Alsterworthia Internat. 4(1): 3-5, ill.
- [251] Mak, H. C. K. (2004). *Haworthia pygmaea* – species, cultivars and hybrids. Haworthiad 18(2): 58-65, ill.
- [252] Mandez, M. & al. (2004). Population dynamics of *Pterocereus gaumeri*, a rare and endemic columnar cactus of Mexico. Biotropica 36(4): 492-504.
- [253] Mandujano, M. C. & al. (2004). Estructura poblacional y distribución de poblaciones de *Polaskia chende* (Gosselin) Backeb., en un municipio dentro de la Reserva de la Biosfera de Tehuacán-Cuicatlán. Cact. Suc. Mex. 49(2): 36-60, ill., maps.
- [254] Manning, J. C. & al. (2004). A revised generic synopsis of *Hyacinthaceae* in sub-Saharan Africa, based on molecular evidence, including new combinations and the new tribe *Pseudoprosperae*. Edinburgh J. Bot. 60(3): 533-568, keys.
- [255] Mariño, L. & al. (2004). Cactáceas de Yura, Arequipa, Perú: Taxonomía, ecología y distribución. Quepo No. 18: 92-98, ill.
- [256] Martin, R. (2004). What's in a name? A look at *Rebutia heliosa*. Brit. Cact. Succ. J. 21(4): 162-167, ill. [Dated 2003, received 26. 1. 2004.]
- [257] Masinde, P. S. (2004). Trap-flower fly pollination in East African *Ceropegia* L. (*Apocynaceae*). Int. J. Trop. Insect Sci. 24(1): 55-72.
- [258] Matthews, M. L. & Endress, P. K. (2004). Comparative floral structure and systematics in *Cucurbitales* (*Corynocarpaceae*, *Coriariaceae*, *Tetramelaceae*, *Datisceae*, *Begoniaceae*, *Cucurbitaceae*, *Anisophyllaceae*). Bot. J. Linn. Soc. 145: 129-185, ill. [Includes data on *Begonia incana*, *Dendrosicyos socotrana*, *Nealsomitra sarcophylla*, *Xerosicyos pubescens* and *Zygosityos tripartitus*.]
- [259] Matuszewski, F. G. (2004). *Turbincarpus saueri* ssp. *septentrionalis* nom. prov. – ein neuer *Gymnocactus* aus dem Norden Mexikos. Turbi-Now No. 15: 28, ill.
- [260] Matuszewski, G. (2004). An den Standorten von *Mammillaria perezdelarosae* ssp. *andersoniana* sowie *M. perezdelarosae* ssp. *perezdelarosae*. Mitteilungsbl. AfM 28(2): 100-102, ill.
- [Polish version: Swiat Kakt. 38(1-4): 38-40, ill., 2004.]
- [261] Matuszewski, G. (2004). [Polish:] In the habitat of *Mammillaria saboae* ssp. *roczekii*. Swiat Kakt. 38(1-4): 26-27, ill. (pl. seq. p. 40).
- [262] Matuszewski, G. (2004). [Polish:] Some more words about *Mammillaria jozef-bergeri*. Swiat Kakt. 38(1-4): 70, ill.
- [263] Mauseth, J. D. (2004). Cacti and other succulents: Stem anatomy of "other succulents" has little in common with that of cacti. Bradleya 22: 131-140, ill.
- [264] Mauseth, J. D. (2004). Giant shoot apical meristems in cacti have ordinary leaf primordia but altered phyllotaxy and shoot diameter. Ann. Bot. (Oxford), n.s. 94: 145-153, ill.
- [265] Mauseth, J. D. (2004). The structure of photosynthetic succulent stems in plants other than cacti. Int. J. Pl. Sci. 165(1): 1-9, ill.
- [266] Mauseth, J. D. (2004). Wide-band tracheids are present in almost all species of *Cactaceae*. J. Pl. Res. 117(1): 69-76, ill.
- [267] Mays, H. (2004). New *Haworthia* species / combinations published subsequent to *Haworthia Revisited*. Part 1. Alsterworthia Internat. Spec. Issue No. 7: 2-33, ill.
- [268] Mays, H. (2004). The type locality of *Haworthia cummingii* I. Breuer & M. Hayashi. Alsterworthia Internat. Spec. Issue No. 7: 34-35, ill.
- [269] Mayuzumi, S. & Ohba, H. (2004). The phylogenetic position of Eastern Asian *Sedoideae* (*Crassulaceae*) inferred from chloroplast and nuclear DNA sequences. Syst. Bot. 29(3): 587-598.
- [270] McCabe, S. W. (2004). The Komodo Dragon of Dudleyas? A range extension and the case for gigantism in *Dudleya candelabrum*. Cact. Succ. J. (US) 76(5): 238-240, ill.
- [271] McCabe, S. W. (2004). The rarest *Dudleya* species. Cact. Succ. J. (US) 76(5): 268-270, ill.
- [272] Meier, E. (2004). *Selenicereus chrysocardium* (Alexander) Kimmach. Kaktusblüte 2004: 10-13, ill.
- [273] Méndez, M. & al. (2004). Population dynamics of *Pterocereus gaumeri*, a rare and endemic columnar cactus of Mexico. Biotropica 36(4): 492-504, map.
- [274] Metzging, D. (2004). A quick and easy imaging method for documenting flower characters. Haseltonia 10: 30-37, ill.
- [275] Metzging, D. & Thiede, J. (2003). Einfluss des Klimawandels auf die Kakteenflora des südlichen Nordamerika. In: Tagungsband 16. GTÖ-Tagung Rostock "Tropische Biodiversität im globalen Wandel", 19. - 22. Februar 2003; p. 155.

Rostock (D): GTÖ. [Abstract only.]

[276] Meve, U. & Liede, S. (2004). Subtribal division of *Ceropegieae* (*Apocynaceae* – *Asclepiadoideae*). *Taxon* 53(1): 61-72, SEM-ills.

[277] Meve, U. & Liede, S. (2004). Generic delimitations in tuberous *Periplocoideae* (*Apocynaceae*) from Africa and Madagascar. *Ann. Bot. (Oxford)*, n.s. 93: 407-414, ills.

[278] Meve, U. & al. (2004). Isolation mechanisms in the Stapeliads / Isolationsmechanismen bei Stapelieen (*Apocynaceae* – *Asclepiadoideae* – *Ceropegieae*). *Schumannia* No. 4: 107-126, ills. [= *Biodiversity & Ecology* No. 2.]

[279] Meyrán García, J. (2004). *Stenocactus albatius* (Dietrich) Knuth. *Cact. Suc. Mex.* 49(2): 61-63, ills.

[280] Middleditch, H. (ed.) (2004). Not finding *Eulychnia ritteri*. *Chileans* 19(62): 50-54, ills.

[281] Middleditch, H. (ed.) (2004). We find which sort of *Cleistocactus*. *Chileans* 19(62): 64-72, ills. (incl. cover).

[282] Middleditch, H. (ed.) (2004). Growing which sort of *Rebutia*? *Chileans* 19(62): 80-82, ills.

[283] Middleditch, H. (ed.) (2004). Did we find *Tephrocactus colorea*? [sic!]. *Chileans* 19(62): 82-85, ills.

[284] Middleditch, H. (ed.) (2004). *Parodia splendens*? *Chileans* 19(62): 85-88, ills.

[285] Miller, A. G. & Morris, M. (2004). Ethnoflora of the Soqotra Archipelago. Edinburgh (GB): Royal Botanic Garden Edinburgh. xvi + 759 pp., ills., maps.

[286] Mizrahi, Y. & al. (2004). Metaxenia in the vine cacti *Hylocereus polyrhizus* and *Selenicereus spp.* *Ann. Bot. (Oxford)*, n.s. 93(4): 469-472, ills.

[287] Molina-Freaner, F. & al. (2004). Pollination biology of the columnar cactus *Pachycereus pecten-aboriginum* in north-western México. *J. Arid Environm.* 56(1): 117-127.

[288] Mottram, R. (2004). Early images of *Mammillaria mammillaris*. *Brit. Cact. Succ. J.* 22(2): 87-89, ills. [German translation in *Mittteilungsbl. AfM* 29(1). 38-43, ills., 2005.]

[289] Mottram, R. (2004). Airampoas, a review. *Tephrocactus Study Group* 10(1): 3-10, ills.

[290] Mottram, R. (2004). Further notes on Airampoas. *Tephrocactus Study Group* 10(4): 56-57, ills. (p. 51).

[291] Nassar, J. M. & Ramirez, N. (2004). Reproductive biology of the Melon Cactus, *Melocactus curvispinus* (*Cactaceae*). *Pl. Syst. Evol.* 248(1-4): 31-44, ill.

[292] Negrón-Ortiz, V. & Strittmatter, L. I. (2004). Embryology of floral dimorphism and

gender system in *Consolea corallicola* (*Cactaceae*), a rare species of the Florida Keys. *Haseltonia* 10: 16-25, ills.

[293] Neuhuber, G. J. A. (2004). Die Vielgestaltigkeit und Verbreitung von *Gymnocalycium schickendantzii* und seinen Verwandten in Argentinien. Teil 1. *Gymnocalycium* 17(2): 561-568, ills., map.

[294] Neuhuber, G. J. A. (2004). *Gymnocalycium riojense* Fric ex H. Till & W. Till. Die schönsten Fundorte. Teil 8. *Gymnocalycium* 17(4): A-B, ills.

[295] Newton, L. E. (2004). Aloes in habitat. In: Reynolds, T. & al. (eds.): *Aloes: The genus Aloe*; pp. 3-14. Boca Raton (US: FL): CRC Press.

[296] Newton, L. E. (2004). The history of succulent plants in Kenya. Nairobi (Kenya): Succulenta East Africa. [2+] 30 pp., ills.

[297] Newton, L. E. (2004). The distribution of *Huernia archeri*. *Asklepios* No. 89: 16, ill. [Dated Dec. 2003, received 19. 2. 2004.]

[298] Newton, L. E. (2004). Flowering of *Agave gypsophila*. *Brit. Cact. Succ. J.* 22(2): 66-67, ills.

[299] Newton, L. E. (2004). Sunbirds feeding on *Sansevieria* flowers. *Nat. East Africa* 34(2): 8, ill.

[300] Newton, L. E. (2004). Rare plant re-collected. *Succ. News* 2004(4): 4. [On *Kalanchoe boranae*.]

[301] Niesler, I. M. & Hartmann, H. E. K. (2004). On the ontogeny of diadems in the genus / Die Ontogenie der Diademe in der Gattung *Trichodiadema* Schwantes (*Mesembryanthema, Aizoaceae*). *Schumannia* No. 4: 59-69, ills. [= *Biodiversity & Ecology* No. 2.]

[302] Oakley, L. J. (2004). Estudios preliminares sobre la familia *Cactaceae* para la Provincia de Santa Fé (Argentina). *Revista Circ. Colec. Cact. Crasas Rep. Argent.* 3(4): 96-100, map, ills. (p. 105).

[303] Oberlander, K. C. & al. (2004). Systematic relationships in southern African *Oxalis* L. (*Oxalidaceae*): Congruence between palynological and plastid trnL-F evidence. *Taxon* 53(4): 977-985, SEM-ills.

[304] Opel, M. R. (2004). In defense of *Dactylopsis*. *Cact. Succ. J. (US)* 76(4): 193-199, ills.

[305] Opel, M. R. (2004). Hammer's Onion. *Mesemb Study Group Bull.* 19(3): 62, ills. (p. 64). [On *Conophytum hammeri*.]

[306] Opel, M. R. (2004). The *Conophytum* flora of the Harrasberge revisited. *Mesemb Study Group Bull.* 19(3): 63-64, ills.

[307] Opel, M. R. & Desmet, P. (2004). The rediscovery of *Crassula alcornis*. *Haseltonia* 10: 38-40, ills., map.

- [308] Otero-Arnaiz, A. & al. (2004). Isolation and characterization of microsatellites in the columnar cactus *Polaskia chichipe* and cross-species amplification within the tribe *Pachycereeae* (*Cactaceae*). *Molec. Ecol. Notes* 4(2): 265-267.
- [309] Packer, J. G. (2004). *Portulacaceae*. In: *Flora of North America north of Mexico*; 4(1): 457-504. New York (US) etc.: Oxford University Press. [Dated 2003, publ. 2004 fide Kew Records.]
- [310] Parfitt, B. D. & Gibson, A. C. (eds.) (2004). *Cactaceae*. In: *Flora of North America north of Mexico*; 4(1): 92-257. New York (US) etc.: Oxford University Press. [Dated 2003, publ. 2004 fide Kew Records.]
- [311] Pavelka, P. (2004). Three recently described *Conophytum* species. *Cact. Succ. J. (US)* 76(1): 29-37, ills.
- [312] Pavelka, P. (2004). *Conophytum subterraneum* T. Smale & T. Jacobs. Příbeh o jeju objevu, popisu a ochrane přírody. *Kaktusy* 40(2): 34-38, ills. [Includes critical notes on the difficulties associated with the discovery and description of new taxa and conservation bureaucracies.]
- [313] Peck, J. H. (2003). Arkansas flora: Additions, reinstatements, exclusions, and re-exclusions. *Sida* 20: 1737-1757. [*Escobaria missouriensis* var. *similis*, *Opuntia humifusa* var. *austrina* and *Sesuvium verrucosum* all excluded.]
- [314] Peruzzi, L. & al. (2004). Lectotypification of *Aizoon hispanicum*, *Plantago albicans*, and *Staphylea pinnata*, names of three Linnean species occurring in Calabria (S. Italy). *Taxon* 53(2): 540-542, ill.
- [315] Peter, C. I. & al. (2004). Pollination biology of *Bergeranthus multiceps* (*Aizoaceae*) with preliminary observations of repeated flower opening and closure. *South Afr. J. Sci.* 100(11-12): 624-629.
- [316] Pilbeam, J. & Hunt, D. R. (2004). A Sulco gallery. *Sulcorebutias* in pictures. Milborne Port (GB): David Hunt. 64 pp., ills., map.
- [317] Pimienta-Barrios, E. & al. (2004). Ecophysiology of the Pitayo de Queretaro (*Stenocereus queretaroensis*). *J. Arid Environm.* 59(1): 1-17.
- [318] Pires, J. C. & al. (2004). Molecular data confirm the phylogenetic placement of the enigmatic *Hesperocallis* (*Hesperocallidaceae*) with *Agave*. *Madroño* 51(3): 307-311.
- [319] Portillo, L. & al. (2004). Potencial de uso del Bajinco (*Acanthocereus occidentalis* Britton & Rose). *Nakari* 15(3): []. [Published on CD-ROM only.]
- [320] Powell, E. & al. (2003). The plight of *Aloe pillansii*. Investigating the startling decline of the Bastard Quiver Trees of the Richtersveld. *Veld. Fl. (1975+)* 89(4): 150-151, ills.
- [321] Prestlé, K.-H. (2004). *Gymnocalycium denudatum* (Link & Otto) Pfeiffer ex Mittler. *Gymnocalycium* 17(2): 569-578, ills. [Russian translation in *Kakt. Tolko* 2004(4'): 19-23, ills. (incl. p. D).]
- [322] Prestlé, K.-H. (2004). Neues über Selektionsformen von *Notocactus herteri* (Werdn.) Buining & Kreuz. *Internoto* 25(3): 121-127, ills. [Russian translation in *Kakt. Tolko* 2004(4'): 17-18, ills. (incl. p. D).]
- [323] Prestlé, K.-H. (2004). [Czech:] Two notable subspecies of *Notocactus neoarechavale-tae* (K. Schum. ex Speg.) Havlicek. *Minimum* 35(3-4): 1-3, ills.
- [324] Pritchard, D. (2004). *Euphorbia clavarioides*. *Cactus & Co.* 8(3): 190-201, ills., map.
- [325] Pritchard, D. & A. (2004). *Aloe broomii* var. *tarkaensis*? A new locality! *Alsterworthia Internat.* 4(3): 26, ills.
- [326] Pullen, T. (2004). *Acanthocalycium*. Verleden en heden (1) / (slot). *Succulenta* 83(2): 87-92; (3): 121-129, ills., SEM-ills.
- [327] Raguso, R. A. & al. (2003). Trumpet flowers of the Sonoran Desert: Floral biology of *Peniocereus* cacti and sacred *Datura*. *Int. J. Pl. Sci.* 164(6): 877-892, ills.
- [328] Ramoni-Perazzi, P. & Bianchi-Balletteros, G. (2004). The cactus *Stenocereus griseus* (Haworth), 1812: An interesting case from the point of view of seed dispersion syndromes. *Caribbean J. Sci.* 40(1): 17-22.
- [329] Rebmann, N. (2004). Les *Pachypodium* de Madagascar. *Succulentes 2004(Spécial)*: 6-15; (3): 3-11, ills. [Included for the habitat illustrations.]
- [330] Reyes Santiago, J. & al. (2004). Cactáceas y otras plantas nativas de la Cañada Cuicatlán, Oaxaca. México (MEX): Sociedad Mexicana de Cactología / Comisión Federal de Electricidad etc. [xii] + 196 pp., ills., map.
- [331] Reynolds, T. (ed.) (2004). Aloes. The genus *Aloe*. Boca Raton (US: FL) etc.: CRC Press. xvi + 386 pp., ills. [= Medicinal and aromatic plants, industrial profiles 35.]
- [332] Richter, I. (2004). Panoramica delle specie di *Opuntia* che hanno il loro habitat negli Stati Uniti d'America. *Piante Grasse* 24(3): 94-106, ills.; (4): 151 [erratum]. [Included for the illustrations.]
- [333] Richterova, I. (2004). *Euphorbia anachoreta* Svent. a dalsí endemity ostrovu Selvagens. *Cactaceae etc.* 14(1): 28-34, ills., map.
- [334] Richterova, I. (2004). Mrazuvzdorné opuncie z USA. *Kaktusy* 40(Spécial 2): 1-23, ills. [Also published in a German translation by the Gesellsch. österreich. Kakt.-freunde, 2004.]

- [335] Rigerszki, Z. (2004). [Hungarian:] Representation of the new and re-evaluated *Melocactus* taxa 1989 - 2002. *Kakt. Vilag* 28(1): 11-32, ill. (pp. 1-8, 33-44). [Included for the illustrations.]
- [336] Rischer, W. (2004). Verbreitung und Variabilität des *Echinocereus palmeri* Britton & Rose. *Echinocereenfreund* 17(1): 14-19, ill., map.
- [337] Rischer, W. (2004). Die Wiederentdeckung des *Echinocereus ortegae*. *Kakt. and. Sukk.* 55(8): 213-217, ill.
- [338] Ritz, C. M. & Zimmermann, F. A. (2004). Die Phylogenie der Subsektion *Meleuphorbia* (A. Berger) Pax & Hoffmann (*Euphorbia* Linné). *Kakt. and. Sukk.* 55(12): 350-358, ill., map.
- [339] Rodgerson, C. (2004). White flowered Conophytums (Pt. 2). *Mesemb Study Group Bull.* 19(3): 52-54, ill. [Cont. from l.c. 18(4), 2003.]
- [340] Rogozinski, H. & Plein, W. (2004). Anmerkungen zum *Mammillaria rhodantha*- und *Mammillaria discolor*-Formenkreis. Teil 5 / Teil 6. *Mitteilungsbl. AfM* 28(1): 4-15, (2): 76-94, ill., map. [Concluded from l.c. 27(4), 2003.]
- [341] Roosbroeck, J. van (2004). *Agave gilberti* [sic!] Berger terug in de verzamelingen. *Succulenta* 83(5): 223-228, ill.
- [342] Roth, R. (2004). The Aloes of Mount Ayliff. *Brit. Cact. Succ. J.* 22(2): 101-103, ill., map. [On *Aloe ferox* flower colour variation.]
- [343] Rothmann, S. (2004). Aloes, aristocrats of Namibian flora. A laymen's photo guide to the *Aloe* species of Namibia / Aloen, die Aristokraten der namibischen Flora. Ein Handbuch der verschiedenen Aloen Namibias. *Swakopmund (NA): ST Promotions.* 96 pp., ill., maps.
- [344] Rowley, G. D. (2004). Intergeneric hybrids in *Asclepiadaceae* tribe *Ceropegieae*. *Asklepios* No. 89: 8-12, ill., diag. [Dated Dec. 2003, received 19. 2. 2004.]
- [345] Rowley, G. D. (2004). So how many succulents are there? *Brit. Cact. Succ. J.* 21(4): 168-169, ill. [Dated 2003, received 26. 1. 2004.]
- [346] Rowley, G. D. (2004). Intergeneric hybrids in *Cactaceae* – 2004 update. *Brit. Cact. Succ. J.* 22(2): 64-65, ill.
- [347] Rowley, G. D. (2004). Three large-flowered *Ceropegias* and their hybrids. *Cact. Succ. J. (US)* 76(2): 96-98, ill.
- [348] Rowley, G. D. (2004). Intergeneric hybrids in *Cactaceae* – an update. *Cact. Syst. Init. No.* 18: 11-28, ill.
- [349] Rowley, G. D. (2004). *Opuntia* – fission or fusion? *Tephrocactus Study Group* 10(2): 21, 24-27; (3): 32 [erratum].
- [350] Römer, R. C. (2004). *Echinocereus scheeri* (Salm-Dyck) Scheer ssp. *rischeri* R. Römer ssp. nov. – eine neue Subspezies aus dem tiefen Süden des mexikanischen Bundesstaates Chihuahua. *Echinocereenfreund* 17(1): 3-13, ill. [Included for the comparative data for the *E. scheeri* group.]
- [351] Russo, L. (ed.) (2004). The succulent plants of Eastern Africa. Le piante succulente dell'Africa Orientale. Roma (I): Associazione Italiana Amatori delle Piante Succulente. 301 pp., ill.
- [352] Rzedowski, J. & al. (2004). Las especies de *Bursera* (*Burseraceae*) en la cuenca superior del Río Papaloapan (México). *Acta Bot. Mex.* 66: 23-151, ill., maps, key.
- [353] Salah, K. B. H. & Chemli, R. (2004). Variabilité phénotypique de quelques populations de Pourpier (*Portulaca oleracea*) en Tunisie. *Acta Bot. Gallica* 151(1): 111-119, map.
- [354] Sanz-Elorza, M. & al. (2004). Sobre la presencia de cactáceas naturalizadas en la costa meridional de Cataluña. *Anales Jard. Bot. Madrid* 61(1): 27-33, ill.
- [355] Saralegui Boza, H. (2004). *Piperaceae*. In: Greuter, W. & Rankin Rodríguez, R. (eds.): *Flora de la República de Cuba, Series A, Plantas Vasculares*, Fasc. 9(1). Ruggell (FL): A. R. Gantner Verlag KG. 93 pp., keys, ill., maps.
- [356] Sato, T. (2004). World succulent plants colour illustrated dictionary. Tokyo (J): Seibundo. 303 pp., ill. [Included for the illustrations.]
- [357] Schatke, K. (2004). Eine Form der *Mammillaria rhodantha* von Milpa Alta im Süden von Mexico City. *Mitteilungsbl. AfM* 28(4): 180-187, ill.
- [358] Schlumpberger, B. O. & al. (2004). Musty-earthy scent in cactus flowers: Characteristics of floral scent production in dehydrogeosmin-producing cacti. *Int. J. Pl. Sci.* 165(6): 1007-1015.
- [359] Schmalzel, R. J. & al. (2004). Morphometric variation in *Coryphantha robustispina* (*Cactaceae*). *Syst. Bot.* 29(3): 553-568, ill., maps.
- [360] Schmiedel, U. (2004). The phyto-geography of the obligate quartz field flora of southern Africa. *Phytogeographie der obligaten Quarzflächenflora im südlichen Afrika*. *Schumania* No. 4: 181-205, ill., map. [= *Biodiversity & Ecology* No. 2.]
- [361] Scholz, E. (2004). Über *Lobivia scheeri* (S.D.) Rausch. *Echinopseen* 1(2): 51-62, ill., map.
- [362] Scott, R. (2004). *Gasteria carinata* var. *retusa*. *Alsterworthia Internat.* 4(1): 15-16, ill.
- [363] Seda, V. (2004). Nové stanoviste *Gymnocalycium cardenasianum* Ritter. *Cactaceae etc.* 14(1): 16-18, ill.
- [364] Seda, V. (2004). *Sulcorebutia breviflora*

- Backeberg emend. Diers var. *lauri* Diers. Cactaceae etc. 14(2): 95-97, 99-101, ills. [Included for the illustrations depicting flower colour variability.]
- [365] Singh, M. (2004). Tuberous Cucurbits in India. ISOCS J. 2004(2): 12-15, ills.
- [366] Slaba, R. (2004). Největší lobiví? *Trichocereus tarijensis* a *T. bertramianus*. Kaktusy 40(2): 46-50, ills.
- [367] Slaba, R. (2004). *Lobivia arachnacantha* var. *densiseta* Rausch – nejkrásnější varieta druhu. Kaktusy 40(4): 106-109, ills., map.
- [368] Slaba, R. & Sorma, V. (2004). *Gymnoclycium cardenasianum* Ritter v novém svetle. Kaktusy 40(3): 66-71, ills., map.
- [369] Smith, C. (2004). Yuccas: Giants among the Lilies. ? (GB): National Council for the Conservation of Plants and Gardens. 72 pp., ills., key.
- [370] Smith, G. F. (2004). The rich and unique succulent flora of southern Africa. Die vielfältige und einmalige Sukkulanten-Flora des südlichen Afrikas. Schumannia No. 4: 43-50, ills. [= Biodiversity & Ecology No. 2.]
- [371] Smith, G. F. & Steyn, E. M. A. (2004). The taxonomy of *Aloaceae*. In: Reynolds, T. & al. (eds.): Aloes: The genus *Aloe*; pp. 15-36. Boca Raton (US: FL): CRC Press.
- [372] Smith, G. F. & Steyn, E. M. A. (2004). *Agave hurteri* Trelease (*Agavaceae*): The perfect landscaping plant for large gardens. Bradleya 22: 15-20, ills., map.
- [373] Snicer, J. & al. (2004). Okruh *Echinocereus parkeri* Tayloer "znovu a jinak". Kaktusy 40(2): 40-46, ills., map.
- [374] Snicer, J. & al. (2004). *Turbincarpus saueri* subsp. *septentrionalis* G. F. Matuszewski & J. Snicer subsp. nova – novinka mezi mexickou slechtou. Kaktusy 40(3): 85-91, ills., map.
- [375] Solano Camacho, E. (2003). Sistemática del género *Polianthes* L. (*Agavaceae*). México City (MEX): Facultad de Ciencias, UNAM; unpublished Ph.D. thesis.
- [376] Sotomayor, J. M. & al. (2004). The genus *Turbincarpus* in San Luis Potosí. Venegono Sup. (I): Cactus & Co. 147 pp., ills., maps. [Published before 18. May 2004 (= date of accession at ZSS).]
- [377] Sotomayor, M. & Arredondo G., A. (2004). *Turbincarpus*. Sviluppo delle spine e delle plantule. Spines and seedling development. I. Cactus & Co. 8(2): 102-114, ills. [Continued I.c. 9(1), 2005.]
- [378] Sotomayor, M. & al. (2004). Nový poddruh *Ariocarpus agavoides* ze státu San Luis Potosí, *Ariocarpus agavoides* subsp. *sanluisensis* Sotomayor, Arredondo, Sánchez & Martínéz. Kaktusy 40(1): 17-20, ills., map.
- [379] Springate, L. (2004). *Rhodiola stapfii* and *R. prainii*. Sedum Soc. Newslett. No. 68: 41-44, ill.
- [380] Starr, G. (2004). *Agave ovatifolia*. The Whale's Tongue Agave. A recently described species from Nuevo León, Mexico. Cact. Succ. J. (US) 76(6): 303-307, ills., map, key. [Includes a key to the *Parryanae* group.]
- [381] Stephenson, R. & J. (2004). Eastern Anatolia north to south. Sedum Soc. Newslett. No. 71: 4-11, ills., map. [Includes data on *Sedum aytacianum*.]
- [382] Strlic, M. (2004). The malodorous or the curly? Unveiling the identity of *Dorstenia foetida* (Forssk.) Schweinf. Cact. Succ. J. (US) 76(3): 150-155, ills.
- [383] Stuchlík, S. (2004). Výlet do Uruguaye – *Notocactus herteri* (Werdermann) Buining & Kreuzinger. Kaktusy 40(1): 28-31, ills.
- [384] Stuchlík, S. (2004). *Notocactus scopae* (Sprengel) Berger ex Backeberg var. *xicoi* Abraham. Kaktusy 40(3): 94-95, ills.
- [385] Stuchlík, S. (2004). *Notocactus sellowii* (Link & Otto) Theun. var. *courantii* (Lem.) Gerloff na stanovisti. Kaktusy 40(2): 60-63, ills.
- [386] Suddee, S. & al. (2004). A taxonomic revision of tribe *Ocimeae* Dumort. (*Lamiaceae*) in continental South East Asia. II. *Plectranthinae*. Kew Bull. 59(3): 379-414, keys, maps, ills.
- [387] Suehs, C. M. & al. (2004). Invasion dynamics of two alien *Carpobrotus* (*Aizoaceae*) taxa on a Mediterranean island. I. Genetic diversity and introgression. Heredity 92(1): 31-40, map, ills.
- [388] Süplie, F. (2004). *Schlumbergera*: The directory of species and hybrids. Nijmegen (NL): Epiphytic Plant Research and Information Centre. [104 pp.], ills.
- [389] Taylor, N. P. & Zappi, D. C. (2004). Cacti of Eastern Brazil. Richmond (GB): Royal Botanic Gardens, Kew. xii + 499 pp., ills., keys.
- [390] Teissier, M. & Lavranos, J. J. (2004). Sur l'identité de *Aloe prostrata* (H. Perrier) L. E. Newton & G. D. Rowley (*Lomatophyllum prostratum* H. Perrier) et sujets apparentés. Succulentes 2004(3): 14-20, ills.
- [391] Tel-Zur, N. & al. (2004). Clone identification and genetic relationship among vine cacti from the genera *Hylocereus* and *Selenicereus* based on RAPD analysis. Sci. Hort. 100: 279-289.
- [392] Tel-Zur, N. & al. (2004). Genetic relationships among *Hylocereus* and *Selenicereus* vine cacti (*Cactaceae*): Evidence from hybridization and cytological studies. Ann. Bot. (Oxford), n.s. 94: 527-534, ills.
- [393] Thiede, J. (2004). The genus *Dudleya* Britton & Rose (*Crassulaceae*): Its systematics

- and biology. *Cact. Succ. J. (US)* 76(5): 224-231, ills.
- [394] Thiede, J. (2004). Phylogenetics, systematics and classification of the *Aizoaceae*: A reconsideration based on molecular data. *Phylogenie, Systematik und Klassifikation der Aizoaceae: Eine Neubetrachtung auf der Grundlage molekularer Daten*. Schumannia No. 4: 51-58, ills. [= Biodiversity & Ecology No. 2.]
- [395] Thiele, H. (2004). Auf Ritters Spuren – am Standort von *Parodia otuyensis*. *Mitteilungsbl. Inter-Parodia-Kette* No. 21: 5-6, ills.
- [396] Thorwarth, H.-J. (2004). Vorstellung und Kultur einiger Arten der Gattung *Othonna* aus dem Winterregengebiet des südlichen Afrika. *Avonia* 22(1): 12-15, ills.
- [397] Till, H. (2004). Bemerkungen zu *Gymnocalycium rhodantherum* und den mit ihm verwandten Taxa. 1. *Gymnocalycium rhodantherum* (Boedeker) H. Till. *Gymnocalycium* 17(3): 579-584, ills. [Erratum l.c. 18(1): 602, 2005.]
- [398] Till, H. (2004). Bemerkungen zu *Gymnocalycium rhodantherum* und den mit ihm verwandten Taxa. 2. Zur Identität von *Gymnocalycium guanchinense* Schütz. *Gymnocalycium* 17(3): 585-588, ills.
- [399] Till, H. & Amerhauser, H. (2004). Die *Gymnocalycien* des Gran Chaco und der Savannen aus Argentinien, Bolivien und Paraguay. 4. Zur Identität des *Gymnocalycium damsii* (K. Sch.) Br. & R. und seiner Formen aus der Subsectio C1 *Periferalia*. *Gymnocalycium* 17(1): 545-560, ills., map.
- [400] Till, H. & Amerhauser, H. (2004). Bemerkungen zu *Gymnocalycium rhodantherum* und den mit ihm verwandten Taxa. 4. *Gymnocalycium weissianum* Backeberg. *Gymnocalycium* 17(4): 595-598, ills. [Cont. by H. Till l.c. 18(1), 2005.]
- [401] Till, H. & Till, W. (2004). Bemerkungen zu *Gymnocalycium rhodantherum* und den mit ihm verwandten Taxa. 3. *Gymnocalycium ritterianum* Rausch. *Gymnocalycium* 17(4): 589-594, ills. [Erratum l.c. 18(1): 602, 2005.]
- [402] Tománek, J. (2004). [Czech:] We present: *Gymnocalycium gerardii* n.n.. *Gymnofil* 32(3-4): 1-2, ills.
- [403] Tománek, J. (2004). [Czech:] Taxa which where erroneously identified as *Gymnocalycium stellatum*. *Gymnofil* 32(3-4): 23-27, ills.
- [404] Torres Dorneles, N. (2004). Die Pflanzen von Minas do Camaqua. Teil III. *Internoto* 25(3): 103-117, ills. [Continued from l.c. 24(1), 2003.]
- [405] Touloumenidou, T. & al. (2004). Chromosomal evolution interpreted from the rDNA ITS phylogeny for *Pelargonium* Sect. *Hoarea* (*Geraniaceae*). Chromosomale Evolution interpretiert aus der rDNA ITS-Phylogenie für *Pelargonium* Sect. *Hoarea* (*Geraniaceae*). *Schumannia* No. 4: 93-106, ills., maps. [= Biodiversity & Ecology No. 2.]
- [406] Trinder-Smith, T. H. (2003). The Levyns guide to the plant genera of the southwestern Cape. Cape Town (RSA): Bolus Herbarium. [= *Contr. Bolus Herb.* 21.]
- [407] Tsydendambaev, V. D. & al. (2004). Identification of unusual fatty acids of four alpine plant species from the Pamirs. *Phytochemistry* 65(19): 2695-2703. [Includes *Rhodiola pamiroalaica*.]
- [408] Turner, D. S. & Funicelli, C. S. (2004). Demographic changes and epidermal browning in two protected populations of Saguaro Cactus (*Carnegiea gigantea*). *Desert Pl.* 20(1): 16-23, ills.
- [409] Uhl, C. H. (2004). Whence came *Dudleya*? *Cact. Succ. J. (US)* 76(5): 242-247, ills.
- [410] Uhl, C. H. (2004). Chromosomes and hybrids of *Echeveria* VIII. Central American species. *Haseltonia* 10: 71-82, ills.
- [411] Valenzuela, A. & Nabhan, G. (2004). [Russian:] Species of Agaves used for Tequila over the last century. *Kakt. Klub* 2004(1): 44-50, ills. [Excerpts from Valenzuela-Zapata & Nabhan 2003.]
- [412] Valenzuela-Zapata, A. G. & Nabhan, G. P. (2003). Tequila! A natural and cultural history. Tucson (US: AZ): University of Arizona Press. xxxi + 113 pp., ills.
- [413] Valiente-Banuet, A. & al. (2004). Geographic differentiation in the pollination system of the columnar cactus *Pachycereus pecten-aboriginum*. *Amer. J. Bot.* 91(6): 850-855, map.
- [414] Valverde, T. & al. (2004). Population dynamics of *Mammillaria magnimamma* Haworth (*Cactaceae*) in a lava-field in central Mexico. *Pl. Ecol.* 170(2): 167-184, map.
- [415] Veldhuisen, R. van (2004). *Euphorbia* subgenus *Euphorbia* sectie *Triacanthum* Jacobsen (3) / (slot). *Succulenta* 83(1): 18-23, (4): 150-153, ills.
- [416] Veldhuisen, R. van (2004). *Euphorbia seibanica* Lavranos & Al-Gifri. *Succulenta* 83(5): 198-201, ills.
- [417] Venter, K. (2004). Riversdale. Mecca for magnificent Haworthias. Part 1. *Alsterworthia Internat.* 4(3): 1-25, ills., maps. [Part 2 published l.c. 5(1), 2005; complete series also published as *Alsterworthia Internat. Special Issue* No. 6, 2005.]
- [418] Verhoeven, R. L. & al. (2003). The tribal position of *Fockea* and *Cibirhiza* (*Apocynaceae: Asclepiadoideae*): Evidence from pollinium structure and cpDNA sequence data. *Grana* 42: 70-81, ills.
- [419] Vivrette, N. J. & al. (2004). *Aizoaceae*. In:

- Flora of North America north of Mexico; 4(1): 75-91. New York (US) etc.: Oxford University Press. [Dated 2003, publ. 2004 fide Kew Records.]
- [420] Vosjoli, P. de (2004). Pachyforms. A guide to growing pachycaul and caudiciform plants. Vista (US: CA): Advanced Visions Inc. 319 pp., ill. [Included for the illustrations.]
- [421] Vries, J. de (2004). [Russian:] A small, spectacular and very beautiful cactus: *Sulcorebutia rauschii* G. Frank. Kakt. Klub 2003(4): 19-25, ill. [Dated 2003, publ. April 2004. Included for the illustrations showing variability.]
- [422] Vries, J. de (2004). *Sulcorebutia elizabethae* de Vries a *Sulcorebutia naunacensis* [sic!] de Vries – dva nové druhy z oblasti Mojocoya na Rio Grande v Bolívii. Kaktusy 40(4): 116-118, ill., map.
- [423] Vuckovic, J. (2004). Index Svilajensis. Spisak naziva i sinonima rodova, vrsta, podvrsta, varijeteta, formi i kultivara kaktusa. Svilajnac (Serbia): Published by the author. 765 pp.
- [424] Wagner, D. R. (ed.) (2004). *Dudleya*, where art Thou? *Dudleya* distribution map. Cact. Succ. J. (US) 76(5): 252-253, maps.
- [425] Wagner, G. F. (2004). Standortaufnahmen unklarer Species und dubiose Kulturpflanzen von *Delosperma* N. E. Br. (*Aizoaceae*, *Mesembryanthemaceae*) aus Lesotho und benachbarten Gebieten. Avonia 22(1): 1-9, ill. [English translation in Mesemb. Study Group Bull. 19(2): 42-46, ill., 2004.]
- [426] Walker, C. C. (2004). A new intergeneric hybrid Stapeliad. New Zealand Cact. Succ. J. 57(4): 103-107, ill., cover ill.
- [427] Wede, D. (2004). Drei Standorte von *Echinocereus reichenbachii* ssp. *baileyi* in den Wichita Mountains in Oklahoma. Echinocereenfreund 17(3): 74-78, ill.
- [428] Williamson, G. (2004). The typification of *Bulbine mesembryanthoides* Haw. Aloe 42(2-3): 55.
- [429] Wills, H. & S. (2004). An introduction to *Sempervivum* and *Jovibarba* species and cultivars. Torrington (GB): Fernwood Nursery. [iv +] 52 pp., ill.
- [430] Wilson, A. (2004). Dwarf Euphorbias after years of drought. Cact. Succ. J. (US) 76(3): 139-148, ill.; (6): 293 [erratum].
- [431] Wittner, H. (2004). Zur Identität von *Echinocactus myriacanthus* Vaupel. Kakt. and. Sukk. 55(4): 105-109, ill.
- [432] Wolf, F. & Wolf, R. (2004). Die Ferokakteen der Baja California. The Ferocacti of Baja California. Sulz / Wienerwald (A): Published by the authors. 240 pp., ill., maps.
- [433] Wu, Z.-Y. & Raven, P. H. (eds.) (2003). Flora of China. Vol. 5. *Ulmaceae* through *Basellaceae*. Beijing (China): Science Press / St. Louis (US: MO): Missouri Botanical Garden Press. [This volume includes *Aizoaceae* (pp. 440-441), *Portulacaceae* (pp. 442-444) and *Basellaceae* (pp. 445-446).]
- [434] Wurdack, K. J. & al. (2004). Molecular phylogenetic analysis of *Phyllanthaceae* (*Phyllanthoideae* pro parte, *Euphorbiaceae* sensu lato) using plastid RBCL DNA sequences. Amer. J. Bot. 91(11): 1882-1900.
- [435] Wyk, B.-E. van & Smith, G. F. (2004). Guide to the Aloes of South Africa. Pretoria (RSA): Briza Publications. Ed. 2; 304 pp., ill., maps.
- [436] Xhonneux, G. (2004). *Agave cundinamarcensis* Berger. Cact. Aventures No. 61: 25-27, ill. (excl. ill. p. 25).
- [437] Yannitsaros, A. (2004). Additions to the flora of Kithira (Greece) II. Willdenowia 34(1): 117-128. [Includes data for *Umbilicus rupestris* on p. 120.]
- [438] Yetman, D. (2004). Columnar cacti of the Río Marañon region, northern Peru. Cact. Succ. J. (US) 76(1): 15-27, ill.
- [439] Yildirimly, S. (2004). The chorology of Turkish species of *Crassulaceae*, *Cucurbitaceae*, *Cuscutaceae* and *Cynocranaceae* families. Ot Sist. Bot. Dergisi 10(2): 249-263, maps. [Volume for 2003, publ. 2004 fide Kew Records.]
- [440] Yuan, Y.-M. & al. (2004). Phylogeny and biogeography of *Balsaminaceae* inferred from ITS sequences. Taxon 53(2): 391-403, ill. [Includes *I. tuberosa*.]
- [441] Zachar, M. (2004). The genus *Turbinicarpus*. Bratislava (SK): Vydavateľstvo Igor Dráb & Spoločnosť Cactaceae etc. 144 pp., ill. [Published 25. March 2004 (fide I. Dráb, pers. comm.).]
- [442] Zappi, D. C. & Taylor, N. P. (2003). Flora de Grão Mogol, Minas Gerais: *Cactaceae*. Bol. Bot. Univ. São Paulo 21: 147-154, key, ill.
- [443] Zijlstra, G. & al. (2004). Some proposals to clarify the concept of 'ascription of a name'. Taxon 53(3): 856-857. [Includes data on the nomenclature of *Brachystelma* and *Claytonia lanceolata*.]
- [444] Zonneveld, B. J. M. (2004). De waarde van de hoeveelheid DNA per kern voor de naamgeving in *Senecio*. [1.]. Succulenta 83(5): 231-234, ill.
- [445] Zonneveld, B. J. M. (2004). De waarde van de hoeveelheid DNA per kern voor de naamgeving in *Senecio*. 2. De roodbloeiende, succulente *Senecio*'s. Succulenta 83(6): 265-270, ill. [Continued l.c. 84(3), 2005.]

BIBLIOGRAPHIA

Cross-References of Author Names

- Aguirre M., Z.: → Madsen, J. E.
 Albers, F.: → Klenter, T.
 Amerhauser, H.: → Till, H.
 Arredondo G., A.: → Sotomayor, M.
 Bianchi-Ballesteros, G.: → Ramoni-Perazzi, P.
 Brink, E.: → Dold, T.
 Chemli, R.: → Salah, K. B. H.
 Chiang, F.: → García-Mendoza, A.
 Chu, C.-Y.: → Hou, Y.-L.
 Desmet, P.: → Opel, M. R.
 Dold, A. P.: → Hammer, S. A.
 Dumont, G.: → Donati, D.
 Eggli, U.: → Jucker, H.-J.
 Endress, P. K.: → Matthews, M. L.
 Esteves Pereira, E.: → Braun, P. J.
 Funicelli, C. S.: → Turner, D. S.
 Gess, F. W.: → Gess, S. K.
 Gibson, A. C. (eds.): → Parfitt, B. D.
 Hartmann, H. E. K.: → Niesler, I. M.
 Hooek, H.: → Kleszewski, K.-P.
 Hunt, D. R.: → Pilbeam, J.
 Kadereit, J. W. (eds.): → Kubitzki, K.
 Keppler, H.: → Felix, D.
 Klak, C.: → Bruyns, P. V.
 Kleszewski, K.-P.: → Hooek, H.
 Kobisi, K.: → Dold, T.
 Koutnik, D.: → Jaarsveld, E. van
 Kristen, M.: → Etter, J.
 Lavranos, J. J.: → Teissier, M.
 Liede, S.: → Meve, U.
 Linzen, T.: → Appenzeller, O.
 Lüthy, A.: → Dicht, R.
 Machado, M.: → Hughes, J.
 Meer, P. van der: → Guillot Ortiz, D.
 Metzging, D.: → Kiesling, R.
 Meyer, N. L. (eds.): → Germishuizen, G.
 Molina-Freaner, F.: → Clark-Tapia, R.
 Morris, M.: → Miller, A. G.
 Mottram, R.: → Crook, R.
 Nabhan, G.: → Valenzuela, A.
 Nabhan, G. P.: → Valenzuela-Zapata, A. G.
 Nason, J. D.: → Dyer, R. J.
 Neduchal, J.: → Gerloff, N.
 Newton, L. E.: → Eggli, U.
 Ohba, H.: → Mayuzumi, S.
 Pazara, P.: → Hutchinson, J. T.
 Pienaar, U. de Villiers: → Jaarsveld, E. J. van
 Plein, W.: → Rogozinski, H.
 Poma, I.: → Cáceres Huamani, F.
 Ramirez, N.: → Nassar, J. M.
 Raven, P. H. (eds.): → Wu, Z.-Y.
 Ribbens, E.: → Anderson, B. L.
 Schlumpberger, B. O.: → Badano, I. E.
 Smith, G. F.: → Wyk, B.-E. van
 Soltis, D. E.: → Fishbein, M.
 Sorma, V.: → Slaba, R.
 Steyn, E. M. A.: → Smith, G. F.
 Strecker, W.: → Heek, W. van
 Strittmatter, L. I.: → Negrón-Ortiz, V.
 Taylor, N. P.: → Zappi, D. C.
 Terrazas, T.: → Arias, S.
 Thiede, J.: → Metzging, D.
 Thomas, H.-P.: → Gilmer, K.
 Till, W.: → Till, H.
 Typiak, A.: → Hinz, S.
 Valiente-Banuet, A.: → Godínez-Alvarez, H.
 Wahl, R.: → Gertel, W.
 Wallace, R. S.: → Butterworth, C. A.
 Wessner, A.: → Eckert, K.
 Wolf, R.: → Wolf, F.
 Yannitsaros, A.: → Bazos, I.
 Young, S. M.: → Lamont, E. E.
 Zanovello, C.: → Donati, D.
 Zappi, D. C.: → Taylor, N. P.
 Zimmermann, F. A.: → Ritz, C. M.