

**Repertorium
Plantarum
Succulentarum
XXIV - 1973**

Repertorium Plantarum Succulentarum

XXIV

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Repertorium Plantarum Succulentarum XXIV - 1973

An annual index of all new names of succulent plants.

Edited by G. D. Rowley,
Plant Sciences,
The University,
Reading, England,

assisted by L. E. Newton,
The University,
Kumasi, Ghana.

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NOMINA NOVA

Agavaceae

- Agave univittata* Haw. var. *angustifolia* (Berg.) Jacobs. (= *A. lophantha* Schiede var. *angustifolia* Berger in Die Agaven: 93, 1915) Nat. Cact. Succ. J. 28: 4, March 1973.
- Agave univittata* Haw. var. *brevifolia* (Jac.) Jacobs. (= *A. lophantha* Schiede var. *brevifolia* Jacobi in Vers. Syst. Ordn. Agav. 204, 1867) Nat. Cact. Succ. J. 28: 5, 4, March 1973.
- Agave univittata* Haw. var. *caerulescens* (S. D.) Jacobs. (= *A. caerulescens* S. D. in Bonplandia 7: 92, 1859; *A. lophantha* Schiede var. *caerulescens* (S. D.) Jacobi in Vers. Syst. Ordn. Agav. 38, 1864) Nat. Cact. Succ. J. 28: 4, March 1973.
- Agave univittata* Haw. var. *gracilior* (Jac.) Jacobs. (= *A. lophantha* Schiede var. *gracilior* Jacobi in Vers. Syst. Ordn. Agav. 204, 1867) Nat. Cact. Succ. J. 28: 4, March 1973.
- Agave univittata* Haw. var. *subcanescens* (Jac.) Jacobs. (= *A. lophantha* Schiede var. *subcanescens* Jacobi in Vers. Syst. Ordn. Agav. 204, 1867; *A. univittata* Haw. var. *subscandens* Jacobs.) Nat. Cact. Succ. J. 28: 4, March 1973.
- Agave univittata* Haw. var. *tamaulipasana* (Berg.) Jacobs. (= *A. lophantha* Schiede var. *tamaulipasana* Berger in Die Agaven: 94, 1915) Nat. Cact. Succ. J. 28: 4, March 1973.

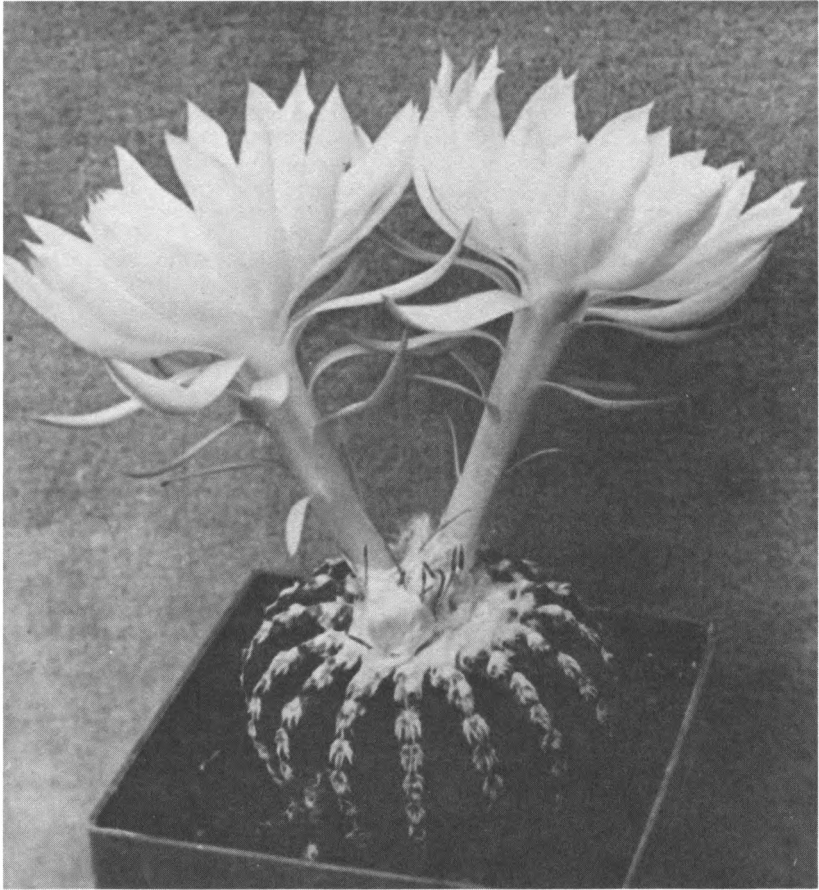
Apocynaceae

- Pachypodium lealii* Welw. ssp. *saundersii* (N. E. Br.) Rowl. (= *P. saundersii* N. E. Br. in Kew Bull. 1892: 126) Nat. Cact. Succ. J. 28: 4, March 1973.
- Pachypodium rosulatum* Bak. var. *horombense* (Pois.) Rowl. (= *P. horombense* Poisson in Bull. Acad. Malgaches N. S. 6: 165, 1924) Nat. Cact. Succ. J. 28: 4, March 1973.

Asclepiadaceae

- Brachystelma discoideum* Dyer. Fl. Pl. Afr. 42: t. 1668, May 1973.
- Brachystelma tenellum* Dyer. Fl. Pl. Afr. 42: t. 1664, May 1973.
- Caralluma caudata* N. E. Br. subsp. *rhodesiaca* Leach (= *C. chibensis* Luckhoff in S. Afr. Gard. Country Life 25: 56, 1935; *C. caudata* N. E. Br. var. *chibensis* Luckh.; *C. caudata* N. E. Br. var. *stevensonii* Oberm.; *C. caudata* N. E. Br. var. *milleri* Nel) Bothalia 11: 134, 1973.
- Huernia andreaeana* (Rauh) Leach (= *Duvalia andreaeana* Rauh; vide Rep. XX: Regn. Veg. 73: 13) J. S. Afr. Bot. 40: 21, 1974.
- Huernia verekeri* Stent var. *angolensis* Leach, J. S. Afr. Bot. 40: 18-20, 1974.
- Stapelia pulvinata* Mass. f. *margarita* (Sloane) Rowl. (= *S. margarita* Sloane in White & Sloane "The Stapelieae" Edn. I: 165-166, 1933) Nat. Cact. Succ. J. 28: 4, March 1973.
- Trichocaulon mossamedense* Leach, J. S. Afr. Bot. 40: 15-18, 1974.

- Ariocarpus* (*Roseocactus*) *kotschoubeyanus* var. *elephantidens* Skarupke n. nud. (Sine Typ.) Stachelpost 9: 33-34, Mar. 1973.
- Arrojadoa dinae* Buin. & Bred. Kakt. and. Sukk. 24: 99-101, May 1973.
- Arrojadoa eriocalis* Buin. & Bred. Kakt. and. Sukk. 24: 241-244, Nov. 1973.
- Arrojadoa theunisseniana* Buin. & Bred. in Krainz Die Kakteen 52: C Vb, 1973.
- Austrocephalocereus albicephalus* Buin. & Bred. Kakt. and. Sukk. 24: 73-75, Apr. 1973.
- Backebergia militaris* (Aud.) Bravo (= *Cereus militaris* Audot in Rev. Hort. 2: 307, 1845; *Pilocereus chrysomallus* Lem.; *Cereus chrysomallus* Hemsl.; *Cephalocereus chrysomallus* K. Sch.; *Backebergia chrysomallus* Bravo; *Mitrocereus militaris* Bravo ex Buxb.) Cact. Suc. Mex. 6: 90, 1961, non rite public.; ex Sanchez-Mejorada in Cact. Succ. J. Amer. 45: 171-174, July-Aug. 1973.
- * *Borzicactus aureispinus* (Ritt.) Rowl. n. comb. = *Winteria aureispina* Ritter in Kakt. and. Sukk. 13: 4-8, Jan. 1962; *Hildewinteria aureispina* Ritt. Jan. 1966; *Winterocereus aureispinus* Back. May 1966; *Loxanthocereus aureispinus* Buxb.
- Borzicactus hempelianus* (Gurke) Donald (= *Echinocactus hempelianus* Gurke in Monats. Kakteenk. 16: 94, 1906) Nat. Cact. Succ. J. 25: 71, Sept. 1970.
- Borzicactus hempelianus* (Gurke) Don. var. *rettigii* (Quehl) Donald (= *Echinocactus rettigii* Quehl in Monats. Kakteenk. 29: 129, 1919) Nat. Cact. Succ. J. 25: 71, Sept. 1970.
- Borzicactus hempelianus* (Gurke) Don. var. *spinosissima* (Ritt.) Donald (= *Arequipa spinosissima* Ritter in Taxon 13: 115, 1964) Nat. Cact. Succ. J. 25: 71, Sept. 1970.
- Borzicactus hempelianus* (Gurke) Don. var. *weingartianus* (Back.) Donald (= *Arequipa weingartiana* Back. in Kaktusar 7: 61, 1936) Nat. Cact. Succ. J. 25: 71, Sept. 1970.
- Buiningia purpurea* Buin. & Bred. Kakt. and. Sukk. 24: 121-123, June 1973.
- Cereus crassisepalus* Buin & Bred. in Krainz Die Kakteen 53: C IVb, 1973.
- Cylindropuntia wigginsii* (Bens.) Robinson (= *Opuntia wigginsii* Benson in The Cacti of Arizona Edn. III: 19, 1969) Phytologia 26: 175, 1973.
- Discocactus horstii* Buin & Bred. in Krainz Die Kakteen 52: C VI f, 1973.
- Echinocereus triglochidiatus* Eng. var. *inermis* (K. Sch.) Arp (= *E. phoeniceus* Eng. var. *inermis* K. Sch. in Monatss. f. Kakteenk. 6: 150-153, 1896; *E. coccineus* Eng. var. *inermis* Purp.; *E. triglochidiatus* Eng. var. *inermis* Rowl. in Regn. Veg. 87; 8, May 23rd, 1973) Cact. Succ. J. Amer. 45: 132, May-June 1973 [Publ. May 19].
- Echinocereus tulensis* Bravo Cact. Suc. Mex. 18: 109-111, Oct. Dec. 1973.
- * *Echinopsis vasquezii* (Rausch) Rowl. n. comb. = *Trichocereus vasquezii* Rausch in Kakt. and. Sukk. 25: 193-194, Sept. 1974.
- Eriocactus warasii* Ritter, Bradea 1: 353-355, Dec. 1973.
- Escobaria vivipara* Buxb. var. *neo-mexicana* (Eng.) Buxb. (= *Mammillaria vivipara* ssp. *radiosa* var. *neo-mexicana* Engelm. in Proc. Amer. Acad. 3: 269, 1856; *Cactus neo-mexicanus* Small; *Coryphantha vivipara* var. *neo-mexicana* Back.; *Escobaria neo-mexicana* Buxb., etc.) in Krainz Die Kakteen 50-51, C VIIIc, 1973.
- 'Fanfare' Rowl. ('Ackermanii' x 'Roseopurpureus') Ashingtonia 1: 19-20, Sept. 1973.
- Frailea albiareolata* Buin. & Bred. in Krainz Die Kakteen 53: C VIe, 1973.
- Frailea curvispina* Buin. & Bred. in Krainz Die Kakteen 50-51, C VIe, 1973.
- Frailea deminuta* Buin. & Bred. in Krainz Die Kakteen 54: C VIe, 1973.
- Frailea fulviseta* Buin. & Bred. Kakt. and. Sukk. 24: 170-172, Aug. 1973.
- Frailea lepida* Buin. & Bred. in Krainz Die Kakteen 54: C VIe, 1973.
- Frailea mammiifera* Buin. & Bred. in Krainz Die Kakteen 50-51, C VIe, 1973.
- Frailea moseriana* Buin. & Bred. ("moseriana") in Krainz Die Kakteen 50-51, C VIe, 1973.
- Grusonia bulbispina* (Eng.) Robinson (= *Opuntia bulbispina* Engelm. in Proc. Amer. Acad. 3: 304, 1856) Phytologia 26: 176, 1973.
- Grusonia clavata* (Eng.) Robinson (= *Opuntia clavata* Engelm. in Wislizenius: Mem. Tour N. Mex. 95, 1848) Phytologia 26: 176, 1973.
- Grusonia grahamii* (Eng.) Robinson (= *Opuntia grahamii* Engelm. in Proc. Amer. Acad. 3: 304, 1856) Phytologia 26: 176, 1973.
- Grusonia pulchella* (Eng.) Robinson (= *Opuntia pulchella* Engelm. in Trans. St. Louis Acad. 2: 201, 1863) Phytologia 26: 176, 1973.
- Grusonia schottii* (Eng.) Robinson (= *Opuntia schottii* Engelm. in Proc. Amer. Acad. 3: 304, 1856) Phytologia 26: 176, 1973.



1. *Discocactus horstii* Buin. & Bred. G. Rowley photo

- Grusonia stanlyi* (Eng.) Robinson (= *Opuntia stanlyi* Engelman in Emory: Mil. Recon. 158, 1848) Phytologia 26: 176, 1973.
- Grusonia vilis* (Rose) Robinson (= *Opuntia vilis* Rose in Contr. U. S. Nat. Herb. 12: 293, 1909) Phytologia 26: 176, 1973.
- Gymnocalycium strigilium* Jeggle, Kakt. and. Sukk. 24: 267-268, Dec. 1973.
- Lobivia akersii* Rausch, Kakt. and. Sukk. 24: 25, 28, Feb. 1973.
- Lobivia echinata* Rausch, Kakt. and. Sukk. 24: 169-170, Aug. 1973.
- Lobivia fricii* Rausch, Kakt. and. Sukk. 24: 220-222, Oct. 1973.
- Lobivia fungiflora* Braun n. nud. Stachelpost 9: 101-102, 120, July 1973.
- Lobivia wegnerana* ("wegneriana") Grunert & Kluegling Kakt. Sukk. 5: 10-12, 1970 (nom. prov.); 8: 16, 1973.
- Lobivia zecheri* Rausch var. *fungiflora* Braun (= *L. fungiflora* Braun n. nud. in Stachelpost 9: 101-102, 120, July 1973) l. c. 138-139, Sept. 1973.
- Mammillaria mathildae* Kraeh. & Krainz, Kakt. and. Sukk. 24: 265-266, Dec. 1973.
- Matucana aurantiaca* (Vaup.) Buxb. (= *Echinocactus aurantiacus* Vaupel in Engl. Bot. Jahrb. 50 Beibl. 111: 23, 1913; *Arequipa aurantiaca* Werd.; *Borzicactus aurantiacus* Kimn. & Hutch.) in Krainz Die Kakteen 54: C Vb, 1973.
- Matucana calocephala* Skarupke n. nud. (Sine Typ.) Stachelpost 9: 99-101, July 1973.
- *Matucana calvescens* (Kimn. & Hutch.) Buxb. (= *Borzicactus calvescens* Kimn. & Hutch. in Cact. Succ. J. Amer. 29: 111-115, July-Aug. 1957) in Krainz Die Kakteen 54: C Vb, 1973, sine pagina (Art. 33).

- Matucana myriacantha* (Vaup.) Buxb. (= *Echinocactus myriacanthus* Vaup. in Engl. Bot. Jahrb. 50 Beibl. 111: 25, 1922; *Arequipa myriacantha* Br. & R.) in Krainz Die Kakteen 54: C Vb, 1973.
- Matucana humboldtii* (H. B. K.) Buxb. (= *Cactus humboldtii* H. B. K. in Nov. Gen. et Sp. VI: 66, 1823; *Seticereus humboldtii* Back.) in Krainz Die Kakteen 54: C Vb, 1973.
- Matucana icosagona* (H. B. K.) Buxb. (= *Cactus icosagonus* H. B. K. in Nov. Gen. et Sp. VI: 54, 1823; *Seticereus icosagonus* Back.) in Krainz Die Kakteen 54: C Vb, 1973.
- Mediolobivia aureiflora* Back. var. *rubiflora* Back. f. *kesselringiana* (Cullm.) Köhler (= *M. kesselringiana* Cullman in Sukkulentenkunde II: 26-27, 1948) Kakt. and. Sukk. 24: 206-207, Sept. 1973.
- Melocactus albicephalus* Buin. & Bred., in Krainz Die Kakteen 52: C VI d, 1973.
- Melocactus amethystinus* Buin. & Bred., in Krainz Die Kakteen 50-51, C VI d, 1973.
- Melocactus deinacanthus* Buin. & Bred., Kakt. and. Sukk. 24: 217-219, Oct. 1973.
- Melocactus erythracanthus* Buin. & Bred., Cact. Succ. J. Amer. 45: 223-226, Sept.-Oct. 1973.
- Melocactus ferreophilus* Buin. & Bred., in Krainz Die Kakteen 52: C VI d, 1973.
- Melocactus giganteus* Buin. & Bred., Cact. Succ. J. Amer. 45: 227-230, Sept.-Oct. 1973.
- Melocactus levitestatus* Buin. & Bred., Cact. Succ. J. Amer. 45: 271-274, Nov.-Dec. 1973.
- Micranthocereus auri-azureus* Buin. & Bred., Cact. Succ. J. Amer. 45: 120-123, May-June 1973.
- Neoevansia haackiana* (Back.) S.-Mejorada (= *Peniocereus haackianus* Back. in Descr. Cact. Nov. 3: 12, 1963) Cact. Suc. Mex. 18: 24, Jan.-Mar. 1973.
- Neoevansia striata* (Brand.) S.-Mejorada (= *Cereus striatus* Brand. in Zoe. 2: 19, 1891; *C. diguetii* Web.; *Wilcoxia striata* Br. & R.; *W. diguetii* Dig. & Guill.; *Neoevansia diguetii* Marsh.; *Peniocereus diguetii* Back.) Cact. Suc. Mex. 18: 22, Jan.-Mar. 1973.
- Neoevansia zopilotensis* (Meyr.) S.-Mejorada (= *Wilcoxia zopilotensis* Meyran in Cact. Suc. Mex. 14: 51, 1969) l. c. 18: 24, Jan.-Mar. 1973.
- Notocactus allosiphon* Schlosser, Bol. Soc. Argentina Bot. 3: 246-248, Apr. 1972; vide etiam Kakt. and. Sukk. 24: 15-17, Jan. 1973.
- Notocactus carambeiensis* Buin. & Bred., Kakt. and. Sukk. 24: 1-3, Jan. 1973.
- * *Notocactus erinaceus* (Haw.) Krainz var. *spiniosior* (Lab.) Rowl. n. comb. (= *Echinocactus tephpracantus* (sic) var. *spiniosior* Labourlet in Monogr. d. Cact. 171, 1858; *E. courantii* var. *spiniosior* Monv. ined. in l. c.; *Echinocactus tephpracanthus* Link. & Otto; in vicem *Notocactus erinaceus* var. *tephpracanthus* (Link & Otto) Krainz (Art. 60) in Die Kakteen 53: C VI c, 1973, cum synonyma.)
- Notocactus erinaceus* (Haw.) Krainz var. *tephpracanthus* (Link & Otto) Krainz comb. illeg. (Art. 60) (= *Echinocactus tephpracanthus* Link & Otto; *Notocactus erinaceus* var. *spiniosior* (Lab.) Rowl.) in Die Kakteen 53: C VI c, 1973.
- Notocactus oxycostatus* Buin. & Bred., in Krainz Die Kakteen 50-51, VI c, 1973.
- Notocactus roseoluteus* v. Vliet, Succulenta 52: [101], 108-113, June 1973.
- Parodia culpinensis* Brandt, Stachelpost 9: 161-165, Nov. 1973.
- Parodia fricana* Brandt, Stachelpost 9: 68-71, May 1973.
- Parodia laui* Brandt, Kakt. and. Sukk. 24: 244-245, Nov. 1973.
- * *Parodia microsperma* Speg. var. *erythrantha* (Speg.) Weskamp (= *Echinocactus microspermus* Web. a *erythrantha* Speg. in Anal. Mus. Nac. Buenos Aires 3: 498, 1905, basionym; *Parodia erythrantha* (Speg.) Back. in Back. & Knuth Kaktus-ABC: 269, 1935, synonyma homotypica) Kakt. and. Sukk. 24: 127, June 1973.
- * *Parodia microsperma* Speg. var. *rubriflora* (Back.) Weskamp (= *P. rubriflora* Back. in Descr. Cact. Nov. III: 12, 1963, basionym; *P. aureispina* Back. var. *rubriflora* (Back.) Brandt in Kakt. and. Sukk. 20: 166, 1969, synonyma homotypica) l. c. 24: 127, June 1973.
- Parodia neglecta* Brandt, Kakt. and. Sukk. 24: 49-51, Mar. 1973.
- Parodia neglectoides* Brandt, Stachelpost 9: 129-131, Sept. 1973.
- Parodia paucicostata* (Ritter) Brandt ex Weskamp n. comb. illeg. (Art. 60) Stachelpost 9: 189, Nov. 1973; 10: 23, Jan. 1974.
- Parodia rostrum-sperma* Brandt, Stachelpost 9: 2-4, Jan. 1973.
- Parodia salmonea* Brandt, Kakt. and. Sukk. 24: 97-98, May 1973.
- Parodia salmonea* Brandt var. *carminata* Brandt, Kakt. and. Sukk. 24: 99, May 1973.
- Parodia zaletaewana* Brandt, Stachelpost 9: 30-33, Mar. 1973.
- Peniocereus cuixmalensis* S.-Mejorada, Cact. Suc. Mex. 18: 91, 95, Oct.-Dec. 1973.
- Pseudopilocereus fulvilanatus* Buin. & Bred., Kakt. and. Sukk. 24: 145-147, July 1973.

- Pyrhocactus* Berg. emend. Buxb. in Krainz Die Kakteen 50-51, C VIb, 1973.
- Rebutia* 'Alabaster' n. hybr. (= *R. kariusiana* Wessn. x *R. 'Stirmadels Meisterstück'*) Kakt. and. Succ. 24: 161-162, July 1973.
- Rebutia gonjianii* Kiesling, Bol. Soc. Argentina Bot. 15: 132-135, Jan. 1973.
- Rebutia jujuyana* Rausch, Kakt. and. Succ. 24: 147-148, July 1973.
- Rebutia narvaecense* (Card.) Donald (= *Aylosteria narvaecense* Card. in Cact. Succ. J. Amer. 43: 245-246, 1971) *Ashingtonia* 1: 21, Sept. 1973.
- Stenocereus fricii* S.-Mejorada, Cact. Suc. Mex. 18: 89, 94, Oct.-Dec. 1973.
- Sulcorebutia carroana* (Card.) Bred. & Don. (= *Rebutia carroana* ("carroana") Card. in Cact. Succ. J. Amer. 43: 244-245, 1971) *Succulenta* 52: 192, Oct. 1973.
- Sulcorebutia steinbachii* Back. var. *horrida* Rausch, Kakt. and. Succ. 24: 193-194, Sept. 1973.
- Sulcorebutia tuberculato-chrysantha* (Card.) Bred. & Don. (= *Rebutia tuberculato-chrysantha* Card. in Cact. Succ. J. Amer. 43: 246-247, 1971) *Succulenta* 52: 193, Oct. 1973.
- Sulcorebutia vasqueziana* Rausch var. *albispina* Rausch, *Succulenta* 52: 222, Dec. 1973.
- Triglochidiata* Bravo n. sect. (Gen. *Echinocereus*; Typ. *E. triglochidiatus* Engelm.) Cact. Suc. Mex. 18: 108-109, Oct.-Dec. 1973.
- Uebelmannia flavispina* Buin. & Bred., *Succulenta* 52: 9-10, Jan. 1973.
- Wilmattea venezuelensis* Croizat, *Pittieria* 4: 39-41, Nov. 1972.

Chenopodiaceae

- Salicornia europaea* L. var. *brachystachya* (Mey.) Jacobs. & Rowl. (= *S. brachystachya* (Mey.) König in Mitt. Fl.-Soz. Arb. 8: 11, 1960) *Nat. Cact. Succ. J.* 28: 4, March 1973.

Compositae

- Senecio kleinia* (L.) Less. 'Candystick' Rowl., *Ashingtonia* 1: 19-20, Sept. 1973.
- Senecio lunulatus* (Chiov.) Jacobs. (= *Monadenium lunulatum* Chiovenda in Fl. Somalia 1: 298, 1929; *Notonia lunulata* Chiov.) *Nat. Cact. Succ. J.* 28: 5, March 1973.

Crassulaceae

- Aeonium x anagensis* Bramw. & Rowl. (= *A. lindleyi* Webb & Berth. x *tabuliforme* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 476-477, 1929; Acc. Semp. Group 206-207, 1932) *Nat. Cact. Succ. J.* 28: 5, March 1973.
- Aeonium x bramwellii* Rowl. (= *A. canariense* Webb & Berth. x *cuneatum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 467-468, 1929; Acc. Semp. Group: 136, 1932) *Nat. Cact. Succ. J.* 28: 5, March 1973.
- Aeonium x bravoanum* Bramw. & Rowl. (= *A. castello-paivae* Bolle x *viscatum* Webb in Praeger in Proc. Roy. Irish Acad. 38B: 469, 1929; Acc. Semp. Group 179, 1932) *Nat. Cact. Succ. J.* 28: 5, March 1973.
- Aeonium x castelloplanum* Bramw. & Rowl. (= *A. castello-paivae* Bolle x *subplanum* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 468-469, 1929; Acc. Semp. Group 179, 1932) *Nat. Cact. Succ. J.* 28: 5, March 1973.

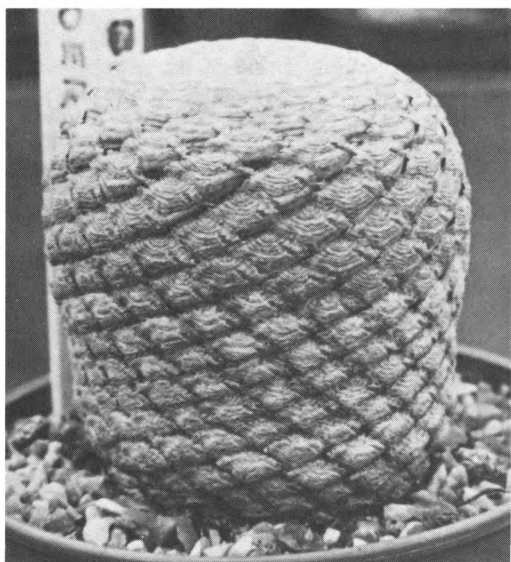
- Aeonium x hawbicum* Bramw. & Rowl. (= *A. haworthii* Webb & Berth. x *urbicum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 474, 1929; Acc. Semp. Group 176, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x jacobsenii* Bramw. & Rowl. (= *A. hierrense* Pit. & Proust x *palmense* Webb in Praeger in Proc. Roy. Irish Acad. 38B: 475, 1929; Acc. Semp. Group 171, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x junionae* Bramw. & Rowl. (= *A. ciliatum* Webb & Berth. x *palmense* Webb in Praeger in Proc. Roy. Irish Acad. 38B: 471, 1929; Acc. Semp. Group 185-186, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x kunkelii* Bramw. & Rowl. (= *A. ciliatum* Webb & Berth. x *holochrysum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 470, 1929; Acc. Semp. Group 184, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x lambii* Bramw. & Rowl. (= *A. palmense* Webb x *valverdense* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 478-479, 1929; Acc. Semp. Group 138, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x lowei* Bramw. & Rowl. (= *A. glandulosum* Webb & Berth. x *glutinosum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 473, 1929; Acc. Semp. Group 132, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x ombriosum* Bramw. & Rowl. (= *A. hierrense* Pit. & Proust x *valverdense* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 475-476, 1929; Acc. Semp. Group 171, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x rowleyi* Bramw. (= *A. smithii* Webb & Berth. x *spathulatum* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 481, 1929; Acc. Semp. Group 201, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x sanctisebastianii* Bramw. & Rowl. (= *A. saundersii* Bolle x *subplanum* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 480, 1929; Acc. Semp. Group 210, 1932; *Sempervivum saundersii* Christ x *canariense* L. ssp. *latifolium* Burchard in Burchard in Kanarenpflanzen 119, 138, 1929) Nat. Cact. Succ. J. 28: 5 March 1973.
- Aeonium x santosianum* Bramw. & Rowl. (= *A. goochiae* Webb & Berth. x *palmense* Webb in Praeger in Proc. Roy. Irish Acad. 38B: 474, 1929; Acc. Semp. Group 208, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x splendens* Bramw. & Rowl. (= *A. ciliatum* Webb & Berth. x *nobile* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 470-471, 1929; Acc. Semp. Group 185, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x tabulicum* Bramw. & Rowl. (= *A. tabuliforme* Webb & Berth. x *urbicum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 483, 1929; Acc. Semp. Group 149, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x tenensis* Bramw. & Rowl. (= *A. ciliatum* Webb & Berth. x *haworthii* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 470, 1929; Acc. Semp. Group 184, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x teneriffae* Bramw. & Rowl. (= *A. ciliatum* Webb & Berth. x *urbicum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 471-472, 1929; Acc. Semp. Group 186, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aeonium x vegamorai* Bramw. & Rowl. (= *A. subplanum* Praeger x *viscatum* Webb in Praeger in Proc. Roy. Irish Acad. 38B: 482-483, 1929; Acc. Semp. Group 141, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Aichryson x intermedium* Bramw. & Rowl. (= *A. laxum* Bramw. (as *dichotomum* Webb & Berth.) x *punctatum* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 462-463, 1929; Acc. Semp. Group 112, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Crassula streyi* Toelken. Fl. Pl. Afr. 42: t. 1672, May 1973.
- x *Greenonium bramwellii* Rowl. (= *Greenovia dodrentalis* Webb & Berth. x *Aeonium* ? *spathulatum* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 487, 1929; Acc. Semp. Group 223-224, 1932) Nat. Cact. Succ. J. 28: 7, March 1973.
- x *Greenonium rowleyi* Bramw. (= *Greenovia dodrentalis* Webb & Berth. x *Aeonium haworthii* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 486, 1929; Acc. Semp. Group 223, 1932) Nat. Cact. Succ. J. 28: 7, March 1973.
- Greenovia x aureozoon* Bramw. & Rowl. (= *G. aizoon* Bolle x *aurea* Webb & Berth. in Praeger in Proc. Roy. Irish Acad. 38B: 484-485, 1929; Acc. Semp. Group 216, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x anagiflora* Bramw. & Rowl. (= *M. anagensis* Praeger x *laxiflora* Bolle in Praeger in Proc. Roy. Irish Acad. 38B: 489-490, 1929; Acc. Semp. Group 238, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.

- Monanthes x burchardii* Bramw. & Rowl. (= *M. laxiflora* Bolle x *silensis* Svent. (*pallens* Christ var. *silensis* Praeg.) in Praeger in Proc. Roy. Irish Acad. 38B: 494-495, 1929; Acc. Semp. Group 237, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x hybrida* Bramw. & Rowl. (= *M. brachycaulon* Lowe x *pallens* Christ in Praeger in Proc. Roy. Irish Acad. 38B: 492, 1929; Acc. Semp. Group 230, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x intermedia* Bramw. & Rowl. (= *M. brachycaulon* Lowe x *polyphylla* Haw. in Praeger in Proc. Roy. Irish Acad. 38B: 492, 1929; Acc. Semp. Group 230, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x polycaulis* Bramw. & Rowl. (= *M. polyphylla* Haw. x *subcrassicaulis* Praeger in Praeger in Proc. Roy. Irish Acad. 38B: 496, 1929; Acc. Semp. Group 242, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x pumila* Bramw. & Rowl. (= *M. brachycaulon* Lowe x *silensis* Svent. (*pallens* Christ var. *silensis* Praeg.) in Praeger in Proc. Roy. Irish Acad. 38B: 492, 1929; Acc. Semp. Group 230, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x silophylla* Bramw. & Rowl. (= *M. silensis* Svent. x *polyphylla* Haw. in Praeger in Proc. Roy. Irish Acad. 38B: 496, 1929; Acc. Semp. Group 232, 1932, as *M. pallens* Christ var. *silensis* Praeg. x *polyphylla* Haw.) Nat. Cact. Succ. J. 28: 5, March 1973.
- Monanthes x sventenii* Braw. & Rowl. (= *M. laxiflora* Bolle x *pallens* Christ in Praeger in Proc. Roy. Irish Acad. 38B: 494-495, 1929; Acc. Semp. Group 237, 1932) Nat. Cact. Succ. J. 28: 5, March 1973.
- x *Pachysedum* Rowl. gen. hybr. (= *Pachyphytum* x *Sedum*) Nat. Cact. Succ. J. 28: 7, March 1973.
- Rhodiola crassipes* Boriss. var. *cholaensis* (Praeg.) Jacobs. (= *Sedum crassipes* Hook. f. & Thoms. var. *cholaense* Praeg. in J. Bot. 57: 50, 1919) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola crassipes* Boriss. var. *cretinii* (Ham.) Jacobs. (= *Sedum cretini* Hamet in J. Bot. 54 Suppl. 16, 1916; *S. crassipes* Hook. f. & Thoms. var. *cretini* (Ham.) Froed.) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola crassipes* Boriss. var. *stephanii* (Cham.) Jacobs. (= *Sedum stephani* Cham. in Linnaea 6: 549, 1831; *S. crassipes* Hook. f. & Thoms. var. *stephani* (Cham.) Froed.) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola dumulosa* (Franch.) Fu f. *farreri* (Smith) Jacobs. (= *Sedum farreri* W. W. Smith in Notes Roy. Bot. Gard. Edinb. 9: 125, 1916) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola fastigiata* Fu var. *gelida* (Fisch. & Mey.) Jacobs. (= *Sedum gelidum* Fisch. & Mey. in Schrenk Enum. Pl. 2, 1841 & Kar. & Kir. in Bull. Soc. Nat. Mosc. 15: 355, 1842) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola himalensis* (Don) Fu var. *bouvieri* (Ham.) Jacobs. (= *Sedum bouvieri* Hamet in J. Bot. 54 Suppl. 11, 1916) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola himalensis* (Don) Fu var. *ishidae* (Miy. & Kudo) Jacobs. (= *Sedum ishidae* Miyabe & Kudo in Trans. Sapporo Nat. Hist. Soc. 8: 3, 1921; *Rhodiola ishidae* Hara) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola kirilowii* Regel var. *rubra* (Praeg.) Jacobs. (= *Sedum kirilowii* Regel var. *rubrum* Praeg. in J. Roy. Hort. Soc. 46: 37, 1921) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola nuristanica* (Kit.) Jacobs. (= *Sedum nuristanicum* Kitamura in Acta Phyt. Geob. Kyoto 17: 138, 186, 1958) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola primuloides* Fu var. *pachyclados* (Hemsl.) Jacobs. (= *Sedum pachyclados* Aitch. ex Hemsl. in J. Linn. Soc. Bot. 18: 58, 1880) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola rhodantha* (Gray) Jacobs. (= *Sedum rhodanthum* A. Gray in Amer. J. Sci. Ser. II. 33: 405, 1862) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola rosea* L. subsp. *atropurpurea* (Turcz.) Jacobs. (= *Sedum atropurpureum* Turcz. in Bull. Soc. Nat. Mosc. 13: 70, 1840; *S. rosea* L. var. *atropurpureum* Praeg.) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola rosea* L. ssp. *elongata* (Led.) Jacobs. (= *Sedum elongatum* Ledebour in Fl. Alt. 2: 193, 1830; *S. rosea* L. var. *elongatum* (Led.) Praeg.) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola rosea* L. ssp. *neomexicana* (Br.) Jacobs. (= *R. neomexicana* Britton in Bull. N. Y. Bot. Gard. 3: 38, 1904) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola rosea* L. ssp. *polygama* (Rydb.) Jacobs. (= *Sedum polygamum* Rydberg in Bull. Torr. Bot. Club 28: 283, 1901) Nat. Cact. Succ. J. 28: 5, March 1973.
- Rhodiola rosea* L. ssp. *roanensis* (Br.) Jacobs. (= *Sedum roanense* Britton in Small Fl. S. E. U. S. 497, 1903; *Rhodiola roanensis* Br.) Nat. Cact. Succ. J. 28: 6, March 1973.

- Rhodiola rosea* L. ssp. *rosea* var. *alaskana* (Rose) Jacobs. (= *R. alaskana* Rose in Bull. N. Y. Bot. Gard. 3: 39, 1903) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola rosea* L. ssp. *tachiroi* (Franch. & Sav.) Jacobs. (= *Sedum rosea* L. var. *tachiroi* Franch. & Sav. in Enum. Pl. Jap. 2: 366, 1878) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola sinica* (Diels) Jacobs. (= *Sedum sinicum* Diels in Engl. Bot. Jahrb. 29: 361, 1900) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola subopposita* (Max.) Jacobs. (= *Sedum suboppositum* Maximowicz in Bull. Acad. Petersb. 29: 132, 1883) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola trifida* (Hook. f. & Thoms.) Jacobs. (= *Sedum trifidum* Wall. in Cat. No. 7230, 1832, n. nud.; Hook. f. & Thoms. in J. Linn. Soc. Bot. 2: 100, 1858) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola tuberosa* (Coss. & Let.) Jacobs. (= *Sedum tuberosum* Coss. & Let. in Bull. Soc. Bot. France 22: 9, 1875) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola yunnanensis* (Franch.) Fu var. *forrestii* (Ham.) Jacobs. (= *Sedum yunnanense* Franch. var. *forrestii* Hamet in Notes Roy. Bot. Gard. Edinb. 24: 117, 1912; *S. yunnanense* var. *muliense* Froed.; *S. yunnanense* var. *strictum* Froed.; *Rhodiola forrestii* Fu) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola yunnanensis* (Franch.) Fu var. *henryi* (Diels) Jacobs. (= *Sedum henryi* Diels in Engl. Bot. Jahrb. 29: 360, 1900; *S. yunnanense* var. *henryi* Hamet; *Rhodiola henryi* Fu) Nat. Cact. Succ. J. 28: 6, March 1973.
- Rhodiola yunnanensis* (Franch.) Fu var. *valerianoides* (Diels) Jacobs. (= *Sedum valerianoides* Diels in Engl. Bot. Jahrb. 29: 360, 1900; *S. yunnanense* var. *valerianoides* Hamet) Nat. Cact. Succ. J. 28: 6, March 1973.
- x *Rocheassula* Rowl. (= x *Kalorochea* Veitch in J. Roy. Hort. Soc. 22: cxviii, cxlvi, 1898; 24: 33, 1900; *Crassula* x *Rochea*) Nat. Cact. Succ. J. 28: 7, March 1973.
- x *Rocheassula langleyensis* (Veitch) Rowl. (= x *Kalorochea langleyensis* Veitch in J. Roy. Hort. Soc. 22: cxviii, cxlvi, 1898; 24: 33, 1900; *Crassula falcata* Wendl. x *Rochea coccinea* D. C.) Nat. Cact. Succ. J. 28: 7, March 1973.
- Sedum batallae* Barocio, Cact. Suc. Mex. 18: 96-100, Oct.-Dec. 1973.
- Sedum fui* Rowl. (= *S. platyphyllum* Fu in Acta Phytotax. Sin. 1: 123-124, 1951; non Alexander (1942) nec Hamet ex Berger (1930)) Nat. Cact. Succ. J. 28: 6, March 1973.
- Sedum reflexum* L. var. *aureum* (Wirtg.) Jacobs. (= *S. aureum* Wirtgen ex Schultz in Arch. Fl. 1: 200, 1844-45; *S. rupestre* L. var. *aureum* Wirtg.) Nat. Cact. Succ. J. 28: 6, March 1973.
- Sempervivum* x *roseum* Huter nm. *fimbriatum* Rowl. (= *S. x fimbriatum* Schott ex Hegi Ill. Fl. Mitt. Eur. 4: 561, 1921, non Schnittsp. & Lehm. nec Klotsch; *S. arachnoideum* L. var. *doellianum* Jacc. x *wulfenii* Hoppe) Nat. Cact. Succ. J. 28: 6, March 1973.
- Sinocrassula indica* Berg. var. *longistyla* (Praeg.) Jacobs. (= *Sedum longistylum* Praeg. in Notes Bot. Gard. Edinb. 13: 87, 1921; *S. indicum* Ham. var. *longistylum* Froed.; *Sinocrassula longistyla* Fu) Nat. Cact. Succ. J. 28: 6, March 1973.

Dioscoreaceae

- Testudinaria elephantipes* Lindl. f. *montana* (Burch.) Rowl. (= *T. montana* Burchell in "Travels Int. S. Africa" 2: 148, 1824) Nat. Cact. Succ. J. 28: 6, March 1973.
- Testudinaria macrostachya* (Benth.) Rowl. (= *Dioscorea macrostachya* Benth. in Plant. Hartw. 73, 1831; Hemsley in Godman & Salvin Biol. Centr. Amer. 3: 357-358, 1884) Nat. Cact. Succ. J. 28: 6, March 1973.
- Testudinaria sylvatica* Knuth var. *brevipes* (Burt Davy) Rowl. (= *Dioscorea brevipes* Burt Davy in Kew Bull. 1924: 232; *D. sylvatica* Eckl. var. *brevipes* Burk.) Nat. Cact. Succ. J. 28: 6, March 1973.
- Testudinaria sylvatica* Knuth var. *multiflora* (Marl.) Rowl. (= *T. multiflora* Marloth in Trans. Roy. Soc. S. Afr. 3: 127, 1913 & 4: 131, 1915; *Dioscorea sylvatica* Eckl. var. *multiflora* Burk.) Nat. Cact. Succ. J. 28: 6, March 1973.
- Testudinaria sylvatica* Knuth var. *paniculata* (Duemm.) Rowl. (= *T. paniculata* Duemm. in Kew Bull. 1912: 195; *Dioscorea sylvatica* Eckl. var. *paniculata* Burk.) Nat. Cact. Succ. J. 28: 6, March 1973.
- Testudinaria sylvatica* Knuth var. *rehmannii* (Bak.) Rowl. (= *Dioscorea rehmannii* Baker in Harvey & Sonder Fl. Cap. 6: 248, 1896; *D. sylvatica* Eckl. var. *rehmannii* Burk.) Nat. Cact. Succ. J. 28: 6, March 1973.



2-4, *Euphorbia piscidermis* Gilbert

Photos:
(Left) A. Clarkson
(Above)
M. Gilbert



5. *Euphorbia mlanjeana* Leach L. Leach photo

Euphorbiaceae

Endadenium Leach (Typ. *E. gossweileri* (N. E. Br.) Leach) Garcia de Orta Ser. Bot. I: 31-35, 1973.

Endadenium gossweileri (N. E. Br.) Leach (= *Monadenium gossweileri* N. E. Br. in Fl. Trop. Afr. 6: 460, 1911) Garcia de Orta Ser. Bot. I: 31-35, 1973.

Euphorbia declivicola Leach in J. S. Afr. Bot. 39: 13-18, 1973.

Euphorbia fanshawei Leach in J. S. Afr. Bot. 39: 8-13, 1973.

Euphorbia knuthii Pax subsp. *johnsonii* (N. E. Br.) Leach (= *E. johnsonii* N.E.Br. in Fl. Trop. Afr. 6: 511, 1911) in J. S. Afr. Bot. 39: 20-22, 1973.

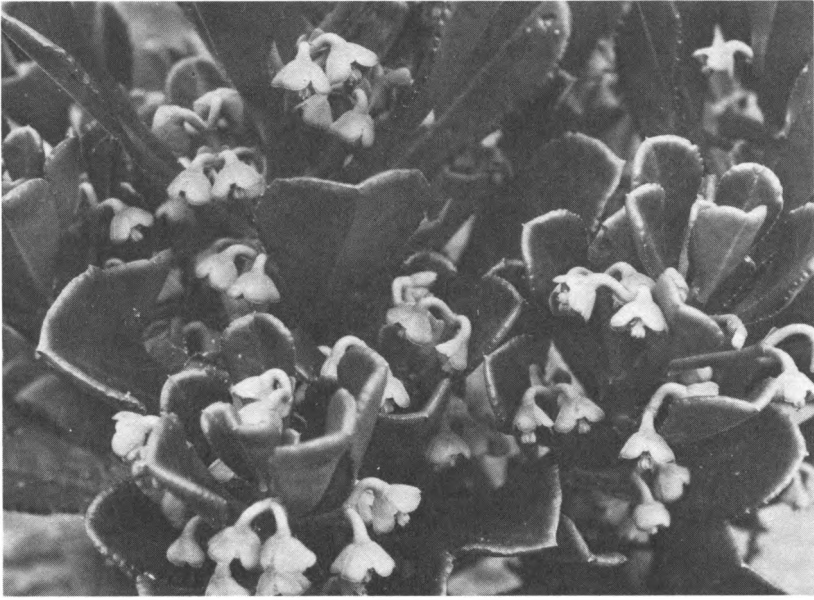
Euphorbia linearibracteata Leach, Garcia de Orta Ser. Bot. I: 39-41, 1973.

Euphorbia mlanjeana Leach in J. S. Afr. Bot. 39: 3-8, 1973.

Euphorbia piscidermis Gilb., Kew Bull. 28: 437-440, 1973.

Monadenium cannellii Leach, Garcia de Orta Ser. Bot. I: 35-37, 1973.

Monadenium torrei Leach, Garcia de Orta Ser. Bot. I: 37-39, 1973.

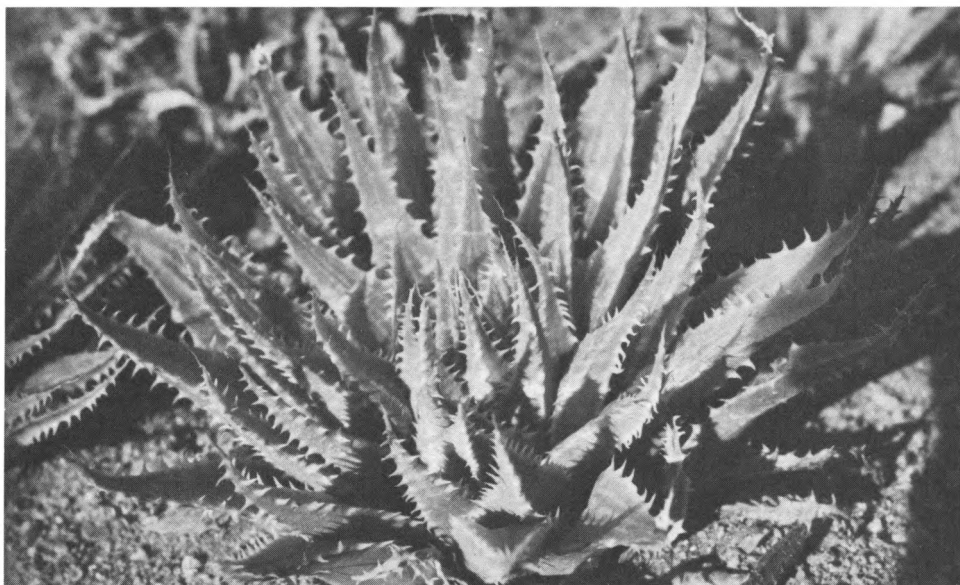


6. *Endadenium gossweileri* (N.E. Br.) Leach L. Leach photo

Liliaceae

- Aloe dewinteri* Giess, Bothalia 11: 120-122, 1973.
- Aloe* 'Die Wit Kraai' Koeleman (= *A. cameronii* x *ferox*). Aloe 10: 5, March 1972.
- Aloe* 'Dirk' Koeleman (= *A. cameronii* x *globuligemma*). Aloe 10: 23, Sept. 1972.
- Aloe* 'Erna' Koeleman (= *A. thraskii* x *arborescens*). Aloe 11: 46-47, Dec. 1973.
- Aloe* 'Hans Herre' Koeleman (= *A. marlothii* x *ferox*). Aloe 10: 22-23, Dec. 1972.
- Aloe* 'Hansie Koeleman' (= [*A. pluridens* x *thraskii*] x [*A. marlothii* x *thraskii*]). Aloe 10: 20, Sept. 1972.
- Aloe* 'Addie' Koeleman (= *A. vryheidensis* x *ferox*). Aloe 10: 8, March 1972.
- Aloe* 'Apomik' Koeleman (= *A. reitzii* x *marlothii* x *aculeata*). Aloe 10: 17-18, June 1972.
- Aloe* 'Appelkoos' Wessels (= *A. claviflora* x *mudenensis*). Aloe 10: 6, March 1972.
- Aloe* 'Barbara Jeppe' Koeleman (= *A. dawei* x *marlothii*). Aloe 10: 10, March 1972.
- Aloe bargalensis* Lavranos, Cact. Succ. J. Amer. 45: 116-117, May-June 1973.
- Aloe* 'Barnie' Koeleman (= *A. marlothii* x *arborescens*). Aloe 11: 48, Dec. 1973.
- Aloe* 'Berrie Marais' Marais (= *A. longistyla* x *arborescens*). Aloe 10: 22, Sept. 1972.
- Aloe chlorantha* Lavranos, J. S. Afr. Bot. 39: 87, Jan. 1973.
- Aloe* 'Corrie Smit' Koeleman (= *A. andongensis* x *jucunda*). Aloe 10: 9-10, March 1972.
- Aloe* 'Hartebees' Koeleman (= *A. africana* x *ferox*). Aloe 11: 35-36, March 1973.
- Aloe heliderana* Lavranos, Cact. Succ. J. Amer. 45: 114-115, May-June 1973.
- Aloe* 'Hennie Eksteen' Koeleman (= *A. aculeata* x *africana*). Aloe 11: 33-34, March 1973.
- Aloe* 'Henry' Koeleman (= *A. marlothii* x *hereroensis*). Aloe 10: 20-21, Sept. 1972.
- Aloe* 'Hettie' Koeleman (= *A. africana* x *cameronii*). Aloe 11: 48, Dec. 1973.
- Aloe* 'Isabella' Koeleman (= *A. vanbalenii* x *marlothii* x *petricola*). Aloe 10: 23, Dec. 1972.
- Aloe* 'Kandelaar' Wessels (= *A. vanbalenii* x *marlothii* x *sessiliflora*). Aloe 10: 21-22, Sept. 1972.
- Aloe* 'Klawerjas' Koeleman (= *A. castanea* x *petricola*). Aloe 10: 14, June 1972.
- Aloe krapohliana* Marloth var. *dumoulinii* Lavranos, J. S. Afr. Bot. 39: 41, Jan. 1973.
- Aloe* 'Lefras' Wessels (= *A. thraskii* x *rupes- tris* x *marlothii*). Aloe 10: 21, Sept. 1972.
- Aloe* 'Loskop' Koeleman (= *A. reitzii* x 'Dag- breek'). Aloe 10: 16-17, June 1972.
- Aloe* 'Malie' Koeleman (= *A. marlothii* x *arborescens*). Aloe 10: 20-21, Dec. 1972.
- Aloe* 'Nantes' Koeleman (= *A. peglerae* x *jucunda*). Aloe 11: 34, March 1973.
- Aloe* 'Oom At' Dednam (= *A. reitzii* x *arbo- rescens*). Aloe 10: 18-19, June 1972.

- Aloe* 'Palomino' Koeleman (= *A. marlothii* x *globuligemma*). *Aloe* 10: 22, Dec. 1972.
- Aloe* 'Pérel' Koeleman (= *A. excelsa* x *ferox*). *Aloe* 10: 21-22, Dec. 1972.
- Aloe* 'Petite' Joubert (= *A. albida* x *bellatula*). *Aloe* 10: 14-15, June 1972.
- Aloe pulchra* Lavranos n. illeg. (non *A. pulchra* Jacq. in Hort. Schoenbr. IV: 10, 1804) *Cact. Succ. J. Amer.* 45: 118-119, May-June 1973.
- Aloe* 'Rooibok' Koeleman (= *A. cameronii* x *arborescens*). *Aloe* 10: 5-6, March 1972.
- Aloe* 'Sarie Marais' (= *A. dawei* x *africana*). *Aloe* 10: 15, June 1972.
- Aloe* 'Skouspel' Koeleman (= *A. pluridens* x *thraskii* x *mutabilis*). *Aloe* 10: 17, June 1972.
- Aloe* 'Sonop' Koeleman (= *A. cameronii* x *saponaria*). *Aloe* 10: 24, Dec. 1972.
- Aloe* 'Spikkels' Koeleman (= *A. andongensis* x *arborescens*). *Aloe* 11: 47, Dec. 1973.
- Aloe* 'Spiraal' Koeleman (= *A. pluridens* x *mutabilis*). *Aloe* 11: 47-48, Dec. 1973.
- Aloe subacutissima* Rowl. (= *A. deltoideodonta* Bak. *intermedia* Perr. in Mem. Soc. Linn. Norm. N. S. 1: 24-25, 1926; *A. intermedia* Reyn. non Haw.) *Nat. Cact. Succ. J.* 28: 6, March 1973.
- Aloe* 'Thys' Koeleman (= *A. marlothii* x *chabaudii*). *Aloe* 10: 23-24, Sept. 1972.
- Aloe* 'Toeloel' Wessels (= *A. cameronii* x *dorotheae*). *Aloe* 10: 6-7, March 1972.
- Aloe* 'Tricolor' Koeleman (= *A. globuligemma* x *chabaudii*). *Aloe* 10: 7-8, March 1972.
- Aloe* 'Triplie' Marais (= *A. marlothii* x *rupes-tris* x *vanbalenii*). *Aloe* 10: 22-23, Sept. 1972.
- Aloe* 'Vaaljapie' Koeleman (= *A. africana* x *parvibracteata*). *Aloe* 10: 8-9, March 1972.
- Aloe* 'Verrassing' Koeleman (= *A. gerstneri* x *vossii*). *Aloe* 10: 15-16, June 1972.
- Aloe* 'Volop' Dednam (= *A. reitzii* x *mutabilis*). *Aloe* 10: 18, June 1972.
- Aloe* 'Voorbrand' Wessels (= *A. marlothii* x *arborescens* x *dawei*). *Aloe* 10: 20, Dec. 1972.
- Aloe* 'Vuurpyl' Koeleman (= *A. marlothii* x *petricola* x *africana*). *Aloe* 11: 35, March 1973.
- Aloe* 'Zimbabwe' Koeleman (= *A. excelsa* x *chabaudii*). *Aloe* 10: 21, Dec. 1972.
- x *Alolirion* Rowl. gen. hybr. (= *Aloe* x *Chortolirion*) *Nat. Cact. Succ. J.* 28: 7, March 1973.
- x *Alworthia* Rowl. gen. hybr. (= *Aloe* x *Haworthia*). *Nat. Cact. Succ. J.* 28: 7, March 1973.
- x *Astroworthia bicarinata* (Haw.) Rowl. (= *Apicra bicarinata* Haw. in Suppl. Pl. Succ. 63, 1819; *Astroloba bicarinata* Uit.; *Astroloba aspera* Uit. x *Haworthia margaritifera* Haw.) *Nat. Cact. Succ. J.* 28: 7, March 1973.
- x *Astroworthia bicarinata* Rowl. nm. *skinneri* (Berg.) Rowl. (= *Apicra skinneri* Berger in Engl. Das Pflanzenreich IV. 38, III. ii: 116, 1908; *Astroloba skinneri* Uit.; *Astroloba aspera* Uit. x *Haworthia margaritifera* Haw.) *Nat. Cact. Succ. J.* 28: 7, March 1973.
- Bulbine frutescens* (L.) Willd. 'Hallmark' Rowl., *Ashingtonia* 1: 7-8, July 1973; 23, Sept. 1973.
- Bulbine frutescens* Willd. var. *incurva* (Thunb.) Rowl. (= *Anthericum incurvum* Thunb. in Prodr. Pl. Cap. 62, 1794; *Bulbine incurva* Spreng.; *B. caulescens* Steud. var. *incurva* Roem. & Schult.) *Nat. Cact. Succ. J.* 28: 6, March 1973.
- Bulbine frutescens* Willd. var. *rostrata* (Jacq.) Rowl. (= *Anthericum rostratum* Jacq. in Coll. Suppl. 82-83, 1796; *Bulbine rostrata* Willd.; *B. caulescens* Steud. var. *rostrata* v. P.) *Nat. Cact. Succ. J.* 28: 6, March 1973.
- x *Chamaeleptaloe* Rowl. gen. hybr. (= *Chamaealoe* x *Leptaloe*) *Nat. Cact. Succ. J.* 28: 7, March 1973.
- x *Gastrolea beguinii* Walth. nm. *chcludowii* (Radl) Rowl. (= *Aloe chcludowii* Radl in Monatss. f. Kakteenk. 6: 24, 1896; x *Gastrolea chcludowii* Walth.; *Aloe aristata* Haw. x *Gasteria verrucosa* Duv.) *Nat. Cact. Succ. J.* 28: 7, March 1973.
- ° *Haworthia coarctata* Haw. ssp. *adelaidensis* (v. P.) Bayer (= *H. reinwardtii* Haw. var. *adelaidensis* v. P. in Beitr. z. Sukkulen-tenk. u. Pflege 1940: 41-43 [non "Succ. Afr. 3: 82, 1943"]; *H. r.* var. *riebeekensis* Smith; *H. r.* var. *bellula* (Smith) *Nat. Cact. Succ. J.* 28: 86, Sept. 1973.
- Haworthia coarctata* Haw. ssp. *coarctata* var. *greenii* (Bak.) Bayer (= *H. greenii* Baker in J. Linn. Soc. 48: 202, 1880; *H. peacockii* Bak.) *Nat. Cact. Succ. J.* 28: 86, Sept. 1973.
- Haworthia coarctata* Haw. ssp. *coarctata* var. *tenuis* (Smith) Bayer (= *H. reinwardtii* Haw. var. *tenuis* Smith in J. S. Afr. Bot. 14: 51, 1948) *Nat. Cact. Succ. J.* 28: 86, 1973.
- Haworthia pulchella* Bayer, J. S. Afr. Bot. 39: 252, Jul. 1973.
- Haworthia serrata* Bayer, J. S. Afr. Bot. 39: 249, Jul. 1973.
- Haworthia solitaria* (Smith) Scott (= *H. retusa* Haw. var. *solitaria* Smith in J. S. Afr. Bot. 12: 5, 1946) in *Aloe* 11: 37, Dec. 1973.
- x *Leptaloinella* Rowl. gen. hybr. (= *Leptaloe* x *Aloinella*) *Nat. Cact. Succ. J.* 28: 7, March 1973.
- x *Poellneria* Rowl. gen. hybr. (= *Poellnitzia* x *Gasteria*) *Nat. Cact. Succ. J.* 28: 7, March 1973.



7. *Haworthia serrata* Bayer B. Bayer photo



8. *Haworthia pulchella* Bayer B. Bayer photo

Mesembryanthemaceae

- Argyroderma framesii* L. Bol. ssp. *hallii* (L. Bol.) Hartmann (= *A. hallii* L. Bol. in J. S. Afr. Bot. 29: 136, 1963; *A. strictum* L. Bol.) Nat. Cact. Succ. J. 28: 50, June 1973.
- Cheiridopsis pillansii* L. Bol. var. *crassa* (L. Bol.) Rowl. (= *C. crassa* L. Bol. in Notes on Mesemb. 2: 269-270, July 1931) Nat. Cact. Succ. J. 28: 6, March 1973.
- Conophytum flavum* N. E. Br. var. *luteum* (N. E. Br.) Boom (= *C. luteum* N. E. Br. in Gard. Chron. 1930. i: 515) Succulenta 52: 103, June 1973.
- Conophytum laetum* L. Bol. var. *extractum* (Tisch.) Rawe (= *C. extractum* Tisch. in Cact. Succ. J. Gt. Brit. 19: 78, 83, 1957; *C. leopardium* L. Bol.) Kakt. and Sukk. 24: 199, Sept. 1973.
- Conophytum minutum* N. E. Br. var. *nudum* (Tisch.) Boom (= *C. nudum* Tischer in Kakt. and Sukk. 9: 31, 1958) Succulenta 52: 143, Aug. 1973.
- Conophytum minutum* N. E. Br. var. *pearsonii* (N. E. Br.) Boom (= *C. pearsonii* N. E. Br. in Gard. Chron. 1925 ("1952"). ii: 484) Succulenta 52: 143, Aug. 1973.
- Conophytum minutum* N. E. Br. var. *sellatum* (Tisch.) Boom (= *C. sellatum* Tischer in Nat. Cact. Succ. J. 7: 32, 1951) Succulenta 52: 143, Aug. 1973.
- Conophytum saxetanum* N. E. Br. f. *hallianum* Rowl. (= *C. saxetanum* N. E. Br. forma . . . L. Bol. in Cact. Succ. J. Gt. Brit. 20: 82, Oct. 1958; J. S. Afr. Bot. 30: 236-237, Oct. 1964) Nat. Cact. Succ. J. 28: 6, March 1973.
- Fenestraria aurantiaca* N.E.Br. f. *rhopalophylla* (Schlecht. & Diels) Rowl. (= *Mesembryanthemum rhopalophyllum* Schlecht. & Diels in Schultze "Aus Namaland und Kalahari" 83, 692, 1907; Marloth in Fl. S. Afr. 1: 207, 1913; *Fenestraria rhopalophylla* N.E.Br.) Nat. Cact. Succ. J. 28: 6, March 1973.
- Glottiphyllum longum* N. E. Br. var. *heterophyllum* (Haw.) Rowl. (= *Mesembryanthemum angustum* Haw. γ *heterophyllum* Haw. in Revis. Pl. Succ. 102, 1821; *M. heterophyllum* Jacks. 1808 non Haw. nec S. D.; *Glottiphyllum longum* N. E. Br. var. *hamatum* N. E. Br.) Nat. Cact. Succ. J. 28: 6, March 1973.
- Lithops aucampiae* L. Bol. var. *koelemanii* (De Boer) Cole (= *L. koelemanii* De Boer in Succulenta 1960: 28-29; *L. aucampiae* L. Bol. var. *koelemanii* De Boer & Boom nom. inval.) Excelsa 3: 55, Dec. 1973.
- Lithops bromfieldii* L. Bol. var. *glaudinae* (De Boer) Cole (= *L. glaudinae* De Boer in Succulenta 1960: 129-132.) Excelsa 3: 50, Dec. 1973.
- Lithops comptonii* L. Bol. var. *weberi* (Nel) Cole (= *L. weberi* Nel in Succulenta 22: 16-18, 1940; *L. otzeniana* Nel var. *weberi* Fearn) Excelsa 3: 69, Dec. 1973.
- Lithops dinteri* Schwantes var. *fredericii* ("frederici") Cole in Madoqua Ser. I No. 7, 33-38, 1973.
- Lithops fulleri* N. E. Br. var. *rouxii* (De Boer) Cole (= *L. julii* N. E. Br. var. *rouxii* De Boer in Succulenta 43: 137, 139-140, 1964) Excelsa 3: 64, Dec. 1973.
- Lithops fulviceps* N. E. Br. var. *lactinea* Cole, Excelsa 3: 56, Dec. 1973.
- Lithops gesinae* De Boer var. *annae* (De Boer) Cole (= *L. annae* De Boer in Succulenta 1956: 90-92; *L. gesinae* De Boer var. *annae* De Boer & Boom nom. inval.; *L. francisci* N. E. Br. var. *annae* Fearn) Excelsa 3: 45, Dec. 1973.
- Lithops hallii* De Boer var. *ochracea* (De Boer) Cole (= *L. fulleri* N. E. Br. var. *ochracea* De Boer in Succulenta 1962: 68-69) Excelsa 3: 61, Dec. 1973.
- Lithops karasmontana* N. E. Br. var. *lericheana* (Dint. & Schw.) Cole (= *Mesembryanthemum lericheanum* Dint. & Schw. in Zeits. f. Sukk. 2: 25-26, 1925; *Lithops lericheana* N. E. Br.; *L. bella* N. E. Br. var. *lericheana* De Boer & Boom) Excelsa 3: 56, Dec. 1973.
- Lithops karasmontana* N. E. Br. var. *tischeri* Cole, Excelsa 3: 66-67, Dec. 1973.
- Lithops marmorata* N. E. Br. var. *elisae* (De Boer) Cole (= *L. elisae* De Boer in Succulenta 1961: 107-108) Excelsa 3: 48, Dec. 1973.
- Lithops pseudotruncatella* N. E. Br. var. *archerae* (De Boer) Cole (= *L. archerae* De Boer in Succulenta 46: 113, 122-123, 1967) Excelsa 3: 45, Dec. 1973.
- Lithops ruschiorum* N. E. Br. var. *lineata* (Nel) Cole (= *L. lineata* Nel in Lithops: 111-112, 1946; *L. ruschiorum* N. E. Br. var. *lineata* De Boer & Boom nom. inval.) Excelsa 3: 57, Dec. 1973.
- Lithops schwantesii* Dint. var. *marthae* (Loesch & Tisch.) Cole (= *L. marthae* Loesch & Tisch. in Succulenta 18: 74-76, 1936; *L. dinteri* Schwant. var. *marthae* Fearn) in Madoqua Ser. I No. 7, 35, 1973.



9. *Lithops dinteri* Schwantes var. *fredericii* Cole



10. *Lithops karasmontana* (Dint. & Schw.) N.E.Br. var. *tischeri* Cole D. Cole photos

Lithops turbiniiformis N. E. Br. var. *dabneri* (L. Bol.) Cole (= *L. dabneri* L. Bol. in J. S. Afr. Bot. 31: 237, 1965) Excelsa 3: 46, Dec. 1973.

Lithops turbiniiformis N. E. Br. var. *marginata* (Nel) Cole (= *L. marginata* Nel in Lithops: 112-113, 1946) Excelsa 3: 59, Dec. 1973.

Lithops villetii L. Bol. var. *deboerii* (Schwant.) Cole (= *L. de boerii* Schwant. in Nat. Cact. Succ. J. 7: 42, 1952) Excelsa 3: 46-47, Dec. 1973.

Lithops villetii L. Bol. var. *kennedyi* (De Boer) Cole (= *L. fulleri* N. E. Br. var. *kennedyi* De Boer in Succulenta 46: 108-109, 1967) Excelsa 3: 55, Dec. 1973.

Monilaria chrysoleuca Schwant. f. *purpurea* (L. Bol.) Rowl. (= *M. chrysoleuca* Schwant. var. *purpurea* L. Bol. in Notes on Mesemb. 3: 224, Aug. 1950) Nat. Cact. Succ. J. 28: 6, March 1973.

Roodia (N. E. Br.) Hartmann pro subg. (Gen. *Argyroderma* N. E. Br.; *Roodia* N. E. Br. in Fl. Pl. S. Afr. 2: t. 78, 1922; Typ. *A. fissum* (Haw.) L. Bol.) Nat. Cact. Succ. J. 28: 49, June 1973.

Ruschia haworthii Jacobs. & Rowl. (= *Mesembryanthemum dilatatum* Haw. in Misc. Nat. 68, 1803; non *Ruschia dilatata* L. Bol.) Nat. Cact. Succ. J. 28: 6, March 1973.

Schwantesia herrei L. Bol. f. *major* Rowl. (= *S. loeschiana* Tischer in Jahrb. Deutsch. Kakt.-Ges. 1: 71, 1935-36) Nat. Cact. Succ. J. 28: 6, March 1973.

Piperaceae

- Peperomia columella* Rauh & Hutch., Cact. Succ. J. Amer. 45: 152-156, July-Aug. 1973.

Portulacaceae

- Lewisia megarhiza* (Hemsl.) MacBryde (= *Calandrinia megarhiza* Hemsley in Diagn. Pl. Nov. 23, 1879; *Claytonia megarhiza* Kuntze; *Oreobroma mexicanum* Rydb.; *Calandrinia mexicana* Pax & Hoffm.; *Lewisia mexicana* Clay; *Oreobroma megarhizum* Standl. & Stey.) J. Scottish Rock Gard. Club 13: 294-296, 1973.

* Signifies a new name, validated here for the first time.

BIBLIOGRAPHIA

- ALLEN, S.F., PRIOR, D.A. & STUBBINGS, H.G.—The flowers of *Backebergia militaris* (Audot) H. Bravo. Nat. Cact. Succ. J. 28: 66-67, Sept. 1973.
- ARP, G.—Studies in the Colorado Cacti. IV. *Opuntia compressa* & *O. macrorhiza*. Cact. Succ. J. Amer. 45: 56-57, March-April 1973.
- V. The spineless hedgehog. I. c. 132-133, May-June 1973. VI. An interesting hybrid *Opuntia* from Southwestern Colorado. I. c. 219-221, Sept.-Oct. 1973.
- ARP, G.—The Galapagos *Opuntias*: another interpretation. Noticias de Galapagos (Unesco Pubn. No. 21, 1973): 33-37.
- BALLY, P.R.O.—An amplified description of *Euphorbia quadrialata* (Euphorbiaceae). Kew Bull. 28: 322-324, June 1973.
- BARTHLOTT, W.—See SCHILL, R.
- BAYER, M.B.—Natural Variation and Species Delimitation in *Haworthia* Duval. Part 3. *Haworthia reinwardtii* Haw. and *Haworthia coarctata* Haw. Nat. Cact. Succ. J. 28: 80-86, Sept. 1973.
- BLUNDEN, G., YI, Y. & JEWERS, K.—The comparative leaf anatomy of *Agave*, *Beschorneria*, *Doryanthes* and *Furcraea* species (Agavaceae: Agaveae). Bot. J. Linn. Soc. 66: 157-179, Feb. 1973.
- BOOM, B.K.—Hes geslacht *Conophytum* N. E. Br. Succulenta 52: 22-26, 42-45, 62-65, 82-86, 102-105, 122-126, 142-146, 162-166, 182-187, 202-203, Feb.-Nov. 1973. Descriptions of 94 spp. with key; 4 new varieties.
- BRACK, S.—Key to the Succulent Asclepiadaceae. Bull. Afr. Succ. Pl. Soc. 7: 230-233, Jan.-Feb. 1973.
- BRANDHAM, P.E.—New hybrids in the Aloineae. Nat. Cact. Succ. J. 28: 16-19, March 1973.
- BRAVO, H.—*Triglochidiata*, una nueva Sección del Genero *Echinocereus*. Cact. Suc. Mex. 18: 108-109, Oct.-Dec. 1973.
- BRAVO, H., SCHEINVAR, L. & SANCHEZ-MEJORADA, H.—*Neobuxbaumia multiareolata*. Cact. Suc. Mex. 18: 57, 59-67, 84, July-Sept. 1973.
- BREDEROO, A.J.—See DONALD, J.
- BUXBAUM, F.—See KRAINZ, H.
- CARRUTHERS, L. & GINNS, R.—*Echeverias*—A Guide to Cultivation and Identification. 110 pp. Edinburgh 1973.
- CASTELLANOS, A.—Recopilación de sus publicaciones sobre Cactaceas. xxii + 385 pp. Argentina 1972. Collected edition of the author's writings on cacti, with introduction by R. KIESLING and index. Facsimile reproduction but omitting original pagination.
- COLE, D.T.—Lost and found—*Lithops deboeri* Schwant. Excelsa 2: 23-25, 27-29, Dec. 1972.
- COLE, D.T.—*Lithops gulielmi* L. Bol.—Dis-mythed. Nat. Cact. Succ. J. 28: 89-92, Sept. 1973.
- COLE, D.T.—*Lithops dinteri* Schwantes: a review, and a new variety. Madoqua Ser. I No. 7: 33-38, 1973.
- COLE, D.T.—*Lithops gulielmi* L. Bol. and *Lithops fossulifera* nom. nud.: 35 years of confusion resolved. Madoqua Ser. I No. 7: 39-43, 1973.
- CRESPO, J.H.—La Madera de *Pereskia conzattii* Britton y Rose. Cact. Suc. Mex. 18: 31-36, Apr.-June 1973.

- CROIZAT, L.—Nueva especie de *Wilmattea* (Cactaceae) en Venezuela. *Pittieria* 4: 39-41, 1972.
- DONALD, J.D.—Purple-flowered *Weingartias*. *Ashingtonia* 1: 4-6, June 1973.
- DONALD, J.D.—Variability in the Subgenus *Matucana*—some pink-flowered forms. *Ashingtonia* 1: 16-18, Sept. 1973.
- DONALD, J. & BREDEROO, A.J.—*Sulcorebutias*. *Succulenta* 52: 192-193, Oct. 1973. With list of 41 spp.
- EHLER, N.—See SCHILL, R.
- FARWIG, S.—See GIRARD, V.
- FAVARGER, C. & SCHERBATOFF, M.—Sur une espèce intéressante des Alpes austro-occidentales: *Sempervivum calcareum* Jordan. *Candollea* 28: 219-235, 1973.
- FOSTER, R.—See GLASS, C.
- FRIEDRICH, H.-C.—Zur Cytotaxonomie der Gattung *Crassula*. *Garcia de Orta, Ser. Bot.* 1: 49-65, 1973.
- GIBSON, A.C.—Comparative anatomy of secondary xylem in Cactoideae (Cactaceae). *Biotropica* 5: 29-65, 1973.
- GISS, W.—See OBERMEYER, A.A.
- GILBERT, M.G.—Notes on Ethiopian Stapeliads. 1. The Rediscovery of *Caralluma furta*. *Nat. Cact. Succ. J.* 28: 43-44, June 1973.
- GINNS, R.—See CARRUTHERS, L.
- GIRARD, V. & FARWIG, S.—Two forms of *Coryphantha* (*Neobesseyia*) *missouriensis* found in Arizona. *Cact. Succ. J. Amer.* 45: 125-131, May-June 1973.
- GLASS, C. & FOSTER, R.—A word about the Ptaxonomy of the Genus *Pterocereus*. *Cact. Succ. J. Amer.* 45: 34, Jan.-Feb. 1973.
- HARLAND, S.—Classification Problems of *Haworthias*. *Bull. Afr. Succ. Pl. Soc.* 8: 24-27, March-April 1973; 50, 52, 54-56, 59, May-June 1973.
- HARTMANN, H.—*Argyroderma* N. E. Br. (Mesembryanthemaceae Fenzl). *Nat. Cact. Succ. J.* 28: 48-50, June 1973.
- HAWKES, M.W.—Notes on *Opuntia fragilis* (Nutt.) Haworth in British Columbia. *Cact. Succ. Inf. Exch.* 6: 46-49, Mar. 1973.
- HAWKES, M.W.—*Opuntia polyacantha* Haworth in British Columbia. *Cact. Succ. Inf. Exch.* 6: 207-8, Dec. 1973.
- HENRICKSON, J.—World Pollen and Spore Flora—I. Angiospermae Fouquieriaceae DC. 13 pp. Stockholm 1973.
- HOFMANN, U.—Morphologische Untersuchungen zur Umgrenzung und Gliederung der Aizoaceen. *Engl. Bot. Jahrb.* 93: 247-324, 1973.
- HUNT, D.R.—Review of *Mammillaria* names in current usage. *J. Mamm. Soc.* 13: 10-14, Feb. 1973; 23-27, Apr. 1973; 35-39, June 1973; 51-56, Aug. 1973; 60-67, Oct. 1973; 76-81, Dec. 1973. (Parts 29-34).
- ILIFF, J.—See LEIGHTON-BOYCE, G.G.
- IVIMEY-COOK, R.B.—On the spiral arrangement of tubercles. *J. Mamm. Soc.* 13: 43-47, Aug. 1973.
- JACOBSEN, H. & ROWLEY, G.D.—Some name changes in Succulent Plants. Part 5. *Nat. Cact. Succ. J.* 28: 4-7, March 1973.
- JEWERS, K.—See BLUNDEN, G.
- KIESLING, R.—Especies nuevas o criticas de la Provincia de Jujuy. V. Une nueva especie de Cactaceas. *Bol. Soc. Argentina Bot.* 15: 132-135, 1973. (*Rebutia gonjianii* Kiesel.)
- KIESLING, R.—See CASTELLANOS, A.
- KOELEMAN, A.—Registration of *Aloe* cultivars. List of *Aloe* cultivars Nos. 8 (-9). *Aloe* 11 (i): 33-36; (iv): 46-48, 1973. (9 new cultivars of hybrid origin).
- KOELEMAN, A. et alia—The Hybrid *Aloe* has a good future. *Bull. Afr. Succ. Pl. Soc.* 8: 10-12, March-April 1973; 62-64, May-June 1973.
- KOK, J.C.—Die Evolusie van die Genus *Aloe*. *Aloe* 11 (ii): 21-27, June 1973.
- KRAINZ, H., BUXBAUM, F. et alia—*Neoporteria*, *Pyrrhocactus*, *Coryphantha calipensis*, *Escobaria vivipara* var. *neo-mexicana*, *Frailea curvispina*, *F. friedrichii*, *F. ignacionensis*, *F. mammiifera*, *F. moseriana*, *Mammillaria dixanthocentron*, *Melocactus amethystinus*, *M. onychacanthus*, *Notocactus oxycostatus*, *N. uebelmannianus*, *Parodia formosa*. *Die Kakteen* 50-51 "Oct. 1972" (1973).
- KRAINZ, H., BUXBAUM, F. et alia—*Arrojadoda theunisseniana*, *Copiapoa pendulina*, *Discocactus horstii*, *Echinomastus mapimienensis*, *Gymnocalycium castellanosi*, *Mammillaria schiedeana*, *Melocactus albicephalus*, *M. ferreophilus*, *Pediocactus knowltonii*. *Die Kakteen* 52, Jan. 1973.
- KRAINZ, H., BUXBAUM, F. et alia—*Haageocereus*, *Islaya*, *Cereus crassispinus*, *Copiapoa hypogaea*, *Echinomastus erectocentrus*, *Frailea albiareolata*, *Neobesseyia cubensis*, *Notocactus erinaceus* var. *tephraacanthus*. *Die Kakteen* 53, Apr. 1973.
- KRAINZ, H., BUXBAUM, F. et alia—*Matucana*, *Frailea deminuta*, *Frailea lepida*, *Matucana paucicostata*, *Melocactus salvadorensis*, *Uebelmannia flavispina*. *Die Kakteen* 54, Sept. 1973.
- LAVRANOS, J.J.—Three new *Aloes* from Somalia. *Cact. Succ. J. Amer.* 45: 114-119, May-June 1973.
- LEACH, L.C.—Stapeliaceae (Asclepiadaceae) from South Tropical Africa: VII. *Bothalia* 11: 133-137, May 1973.
- LEACH, L.C.—New and interesting taxa of the Tribe Euphorbieae (Euphorbiaceae) from Portuguese Africa. *Garcia de Orta, Ser. Bot.* 1: 31-42, 1973.

- LEACH, L.C.—*Euphorbia* species from the Flora Zambesiaca area: X. J. S. Afr. Bot. 39: 3-22, 1973.
- LEACH, L.C.—*Euphorbia tirucalli* L.: its typification, synonymy and relationships, with notes on "Almeidina" and "Cassoneira". Kirkia 9: 69-86, 1973.
- LEIGHTON-BOYCE, G.—The Airampoae: a background note. Cact. Succ. J. Gt. Brit. 35: 6-8, Feb. 1973.
- LEIGHTON-BOYCE, G.G. & ILIFF, J.—The Sub-genus *Tephrocactus*—a historical survey with notes on cultivation. 106 pp. I11. Succulent Plant Trust, Morden, 1973.
- MADDAMS, W.F.—Interesting new *Mammillarias*. 40 pp. Surrey n. d. (1973).
- MAJUMDAR, S.K. & RILEY, H.P.—Hybridization Studies in *Haworthia*. Amer. J. Bot. 58: 459, 1971.
- MAJUMDAR, S.K. & RILEY, H.P.—Chromosome morphology in *Astroloba* & *Poellnitzia*. The Nucleus 15: 85-91, 1972.
- MAJUMDAR, S.K. & RILEY, H.P.—Chromosome numbers, pollen fertility & pollen size in *Haworthia* species & hybrids. Canad. J. Bot. 51: 1753-1759, 1973.
- MEYRAN, J.—*Echinofossulocactus lamellosus*. Cact. Suc. Mex. 18: 40-46, Apr.-June 1973. *Echinofossulocactus infractuusus*. l. c. 101-108, Oct.-Dec. 1973.
- MORAN, R.—*Echeveria gracilis* Rose. Cact. Suc. Mex. 18: 1, 3-7, Jan.-Mar. 1973.
- MORAN, R.—Spekbloom flowers. Cact. Succ. J. Amer. 45: 71-73, March-April 1973. (*Portulacaria afra*).
- MORAN, R.—See UHL, C.H.
- MOTTRAM, R.—Some observations on "Schumann and Buxbaum reconciled". J. Mamm. Soc. 13: 18-20, Apr. 1973.
- NEWTON, L.E.—Notes on West African *Aloe* (Liliaceae). Kew Bull. 28: 324-325, June 1973.
- OBERMEYER, A.A. & GIESS, W.—Liliaceae. Bothalia XI.i-ii: 119-123, May 1973. (Review of status of several succulent genera.)
- ONDREJ, M.—Vyuzití semen při zjišťování druhových odlišností u kaktusu (daktyloskopie semen). Use of cactus seeds in the determination of species differences (seed dactyloscopy). Friciana VIII.48: 1-32, 1973.
- PINKAVA, D.J. et alia—Chromosome numbers in some cacti of Western North America—II. Brittonia 25: 2-9, Feb. 1973.
- PLOWES, D.C.H.—*Aloes* in Manicaland. Excelsa 2: 26, 31-39, 55-56, 63, Dec. 1972.
- PRIOR, D.A.—See ALLEN, S.F.
- RADCLIFFE-SMITH, A.—*Kalanchoe robusta*. Curtis Bot. Mag. 179: t. 657, 1973.
- RAUH, W.—See SCHILL, R.
- RAWE, R.—*Conophytum laetum* L. Bolus. Kakt. and. Sukk. 24: 197-199, Sept. 1973.
- RAWE, R.—*Conophytum altum* L. Bolus. Kakt. and. Sukk. 24: 248-251, Nov. 1973.
- RAWE, R.—*Conophytum elishae* (N. E. Brown) N. E. Brown. Kakt. and. Sukk. 24: 285-286, Dec. 1973.
- REESE, G.—The structure of the highly specialized Carrion-flowers of stapeliads. Cact. Succ. J. Amer. 45: 18-29, Jan.-Feb. 1973.
- ROBINSON, H.—New combinations in the Cactaceae Subfamily Opuntioideae. Phytologia 26: 175-176, 1973.
- ROWLEY, G.D.—*Nopalxochia macdougalii*. Ashingtonia 1: 11, June 1973. (With key to four species).
- ROWLEY, G.D.—*Decabelone*. Ashingtonia 1: 28, 30, Nov. 1973. (With key to four species).
- ROWLEY, G.D.—See JACOBSEN, H.
- SANCHEZ-MEJORADA, H.—El Género *Neoevansia* Marshall—Historia y Revisión. Cact. Suc. Mex. 18: 13-27, Jan.-Mar. 1973.
- SANCHEZ-MEJORADA, H.—The correct name of the Grenadier's Cap. Cact. Succ. J. Amer. 45: 171-174, July-Aug. 1973. (*Backebergia militaris*).
- SANCHEZ-MEJORADA, H.—Nuevas Cactáceas de la Nueva Galicia. Cact. Suc. Mex. 18: 85, 87-95, Oct.-Dec. 1973.
- SANCHEZ-MEJORADA, H.—See BRAVO, H.
- SCHEINVAR, L.—See BRAVO, H.
- SCHERBATOFF, M.—See FAVARGER, C.
- SCHILL, R.—Palynologische (lichtmikroskopische) Untersuchungen an sukkulenten Vertretern der Gattung *Euphorbia* L. aus Madagaskar. Trop. subtrop. Pflanzenw. 2: 151-165, 1973.
- SCHILL, R., BARTHLOTT, W. & EHLER, N.—Cactus spines under the Scanning Electron Microscope. Cact. Succ. J. Amer. 45: 175-185, July-Aug. 1973.
- SCHILL, R., BARTHLOTT, W. & EHLER, N.—Mikromorphologie der Cactaceen-Dornen. Trop. subtrop. Pflanzenw. 6: 263-279, 1973.
- SCHILL, R., BARTHLOTT, W., EHLER, N. & RAUH, W.—Raster-elektronen-mikroskopische Untersuchungen an Cactaceen. Trop. subtrop. Pflanzenw. 4: 209-218, 1973.
- SCOTT, C.L.—A Revision of the Genus *Haworthia*, Section Retusae. Aloe 11 (iv): 8-45, Dec. 1973.
- STUBBINGS, H.G.—See ALLEN, S.F.
- UHL, C.H. & MORAN, R.—Chromosomes of Crassulaceae from Japan and South Korea. Cytologia 37: 59-81, 1972.
- UHL, C.H. & MORAN, R.—The chromosomes of *Pachyphytum* (Crassulaceae). Amer. J. Bot. 60: 648-656, 1973.
- VORSTER, P. & VORSTER, E.—Die Suid-Afrikaanse *Adenium*-soorte. Aloe 11 (ii): 5-19, June 1973.
- VORSTER, P. & VORSTER, E.—The South African Species of *Pachypodium*. Aloe 11 (iii): 5-30, September 1973.
- YI, Y.—See BLUNDEN, G.

WHAT IS THE I.O.S.?

The INTERNATIONAL ORGANISATION FOR SUCCULENT PLANT RESEARCH came into being in 1949 by the common desire of experimenters throughout the world to know more of each others' work. It has achieved recognition as a Commission of the Division of Botany of the I.U.B.S. (International Union of Biological Sciences), a branch of Unesco, but receives no monetary support, being financed entirely by the members themselves. Membership is by election only and confined to leading succulent specialists in each country who form a National Section in close contact with succulent societies and amateur and professional growers. Congresses are held biennially to allow members of different countries to compare their points of view.

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QU'EST-CE QUE L'I.O.S.?

L'ORGANISATION INTERNATIONALE POUR LA RECHERCHE SUR LES PLANTES SUCCULENTES est née en 1949 du commun désir de chaque savant de mieux connaître le travail de ses Collègues du monde entier.

Elle est maintenant reconnue comme une Commission de la Division de Botanique de l'I.U.B.S. (Union Internationale des Sciences Biologiques), dépendant de l'Unesco, mais n'en recevant aucune aide financière, les membres eux-mêmes pourvoient à ses besoins.

Les membres, admis par élection seulement, ne peuvent être pour chaque Nation que des spécialistes notoires des Plantes Succulentes; ils forment, pour chaque pays, une Section Nationale en contact étroit avec les Sociétés Cactophiles, les amateurs et les cultivateurs professionnels.

Des Congrès ont lieu tous les deux ans afin de permettre aux membres des différents pays de confronter leurs points de vue.

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WAS IST DIE I.O.S.?

Die INTERNATIONALE ORGANISATION FÜR SUKKULENTENFORSCHUNG entstand 1949 aus dem allgemeinen Wunsch der Sukkulantenforscher der ganzen Welt nach gegenseitigem Austausch ihrer Kenntnisse und Erfahrungen. Sie ist als Kommission der Botanischen Abteilung der I.U.B.S. (Internationale Union der Biologischen Wissenschaften), einem Zweig der Unesco anerkannt, erhält aber keine finanzielle Unterstützung, sodass sie gänzlich auf die Beiträge der Mitglieder angewiesen ist. Die Mitgliedschaft wird allein durch Wahl erworben und ist beschränkt auf führende Sukkulanten-Spezialisten in jedem Lande, die eine nationale Sektion bilden und im engen Kontakt mit den Sukkulanten-Vereinigungen, den Liebhabern und Berufs-Züchtern stehen.

Die Kongresse werden jedes zweite Jahr abgehalten, um eine bessere Verständigung zwischen den Mitgliedern der verschiedenen Länder zu pflegen.

