

from below rather than from above. The practical effect of this may be seen by comparing the picture of live material of *Aloe namibensis* in Fig. 13 with the replica in Fig. 14.

An interesting optical illusion may be noted when using these replicas (see Fig. 15). This is the negative of Fig. 14. In negatives of SEM pictures of replicas made as described above, hairs, papillae, micropapillae, ridges and hollows are seen in an approximation to their correct perspective; this is seen when Fig. 15 is compared with Fig. 13.

An example of the use of characters made available by this method, that would otherwise have been unavailable to the investigators, is given by Glen & Hardy (in press).

We thank Mr R. M. Watkins (Wirsam Scientific) for suggesting this method to us, and Mrs S. M. Perold for help with the minutiae of SEM specimen preparation. Thanks are also due to Drs G. E. Gibbs Russell and O. A. Leistner for reading drafts of this note and offering helpful comment and advice.

MESEMBRYANTHEMACEAE

A NEW COMBINATION IN *LAMPRANTHUS*

A proposal was made (Glen 1980) and accepted (Brummitt 1983) to conserve the generic name *Lampranthus* N.E. Br. against the earlier name *Oscularia* Schwant. if both names were considered to refer to the same genus. Glen (1978) showed that all three names published in the genus *Oscularia* belong to the same species, that this species could not be held separate from the genus *Lampranthus*, and that it belongs to the section *Lunati* of that genus. However, the necessary new combination has not been published until now.

Lampranthus deltoides (L.) Glen, comb. nov.

Mesembryanthemum deltoides L., Sp. Pl. edn 1, 482 (1753); Gouan, Hort. Monspel. 244 (1765); Mill., Gard. Dict. edn 8, n. 11 (1768); Soland. in Ait., Hort. Kew. edn 1, 2: 183 (1789); Gmel., Syst. Nat. edn 14, 2: 844 (1791); Haw., Obs. Gen. Mesemb. 2: 364 (1795); Willd., Sp. Pl. edn 5, 2: 1052 (1799); DC., Hist. Pl. Succ. t. 53 (1800); Haw., Misc. Nat. 74 (1803); Willd., Enum. Pl. Hort. Berol. 539 (1809); Haw., Syn. Pl. Succ. 296 (1812); Hornem., Hort. Reg. Hafniae 465 (1815); Haw., Rev. Pl. Succ. 133 (1821); DC., Prodr. 3: 433 (1828); Salm Dyck, Monogr. Gen. Aloes Mesemb. § 30 f. 3 t. 24 (1840); D. Dietr., Syn. Pl. 3: 140 (1843); Sond., F. C. 2: 421 (1862); Berger, Mesemb. Portulac. 190 (1908); N.E. Br. in JI Linn. Soc. Bot. 45: 118 (1920). *M. deltoideum* L., Syst. Nat. edn 10, 1059 (1758). *Oscularia deltoides* (L.) Schwantes in Möllers dt. Gärtn.-Ztg 42: 187 (1927); Jacobsen, Handb. Succ. Pl. 3: 1338 (1960); in Lex. Succ. Pl. 535 (1974). Iconotype: Dill., Hort. Eltham. t. 195 f. 246 (1732). Typotype: *Dillenius s.n.*, hort. (OXF!).

M. caulescens Mill., Gard. Dict. edn 8, n. 12 (1768); Haw., Obs. Gen. Mesemb. 2: 367 (1795); in Misc. Nat. 74 (1803); in Syn. Pl. Succ. 296 (1812); Hornem., Hort. Reg. Hafniae 465 (1815); Haw., Rev. Pl. Succ. 133 (1821); DC., Prodr. 3: 433 (1828); Salm Dyck, Monogr. Gen. Aloes Mesemb. § 30 f. 3 t. 23 (1840); D. Dietr., Syn. Pl. 3: 140 (1843); Sond., F. C. 2: 421 (1862); Berger, Mesemb. Portulac. 188 (1908). *M. deltoides* L. var. δ L., Sp. Pl. edn 2, 690 (1762); Soland. in Ait., Hort. Kew. edn 1, 2: 183 (1789). *O. caulescens* (Mill.) Schwantes in Möllers dt. Gärtn.-Ztg 42: 187 (1927); Jacobsen, Handb. Succ. Pl. 3: 1338 (1960); in Lex. Succ. Pl. 535 (1974). Iconotype: Dill., Hort. Eltham. t. 195 f. 243-4 (1732). Typotype: *Dillenius s.n.*, hort. (OXF!).

REFERENCES

- BRANDHAM, P. E. & CUTLER, D. F. 1978. Influence of chromosome variation on the organization of the leaf epidermis in a hybrid *Aloe* (Liliaceae). *Bot. J. Linn. Soc.* 77: 1-16.
- CHAPMAN, B. 1967. Polystyrene replicas for scanning reflexion electron microscopy. *Nature, Lond.* 216: 1347-1348.
- CUTLER, D. F. 1969. Cuticular markings and other epidermal features in *Aloe* leaves. *Notes Jod. Lab.* 6: 21-27.
- CUTLER, D. F. 1972. Leaf anatomy of certain *Aloë* and *Gasteria* species and their hybrids. In A.K.M. Ghouse & M. Yunus, *Research trends in plant anatomy*, 103-122. New Delhi: Tata McGraw-Hill.
- CUTLER, D. F. & BRANDHAM, P. E. 1977. Experimental evidence for genetic control of leaf surface characters in hybrid *Aloineae* (Liliaceae). *Kew Bull.* 32: 23-32.
- GLEN, H. F. & HARDY, D. S. in press. The identity of *Aloe spicata* L.f. *Bothalia*.
- HEARLE, J. W. S., SPARROW, J. T. & CROSS, P. M. 1974. *The use of the scanning electron microscope*. Oxford: Pergamon Press.

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M. deltoides L. var. *majus* Weston, Universal Botanist 1: 169 (1770); Haw., Obs. Gen. Mesemb. 2: 366 (1795); N.E. Br. in JI Linn. Soc. Bot. 45: 118 (1920). *O. deltoides* (L.) Schwantes var. *major* (Weston) Schwantes ex Jacobsen in Fedde Reprium Beih. 106: 158 (1938); Jacobsen, Handb. Succ. Pl. 3: 1338 (1960); in Lex. Succ. Pl. 535 (1974). *O. deltata* (Mill.) Schwantes var. *major* (Weston) Schwantes in Möllers dt. Gärtn.-Ztg 42: 187 (1927). Iconotype: Dill., Hort. Eltham. t. 196 f. 247 (1732). Typotype: *Dillenius s.n.*, hort. (OXF!).

M. muricatum Haw., Obs. Gen. Mesemb. 2: 364 (1795); in Misc. Nat. 75 (1803); in Syn. Pl. Succ. 297 (1812); in Rev. Pl. Succ. 133 (1821); DC., Prodr. 3: 433 (1828); Salm Dyck, Monogr. Gen. Aloes Mesemb. § 30, f. 3 t. 25 (1840); D. Dietr., Syn. Pl. 3: 140 (1843); Sond., F. C. 2: 421 (1862). *M. deltoides* L. var. *muricatum* (Haw.) Berger, Mesemb. Portulac. 190 (1908). *O. muricata* (Haw.) Schwantes ex Jacobsen, Sukk. Lex. 478 (1970) in synonymy, comb. illegit. Iconotype: Dill., Hort. Eltham. t. 195 f. 246 (1732). Typotype: *Dillenius s.n.*, hort. (OXF!).

M. deltoides L. var. *simplex* DC., Hist. Pl. Succ. t. 53 (1800). Type not stated.

M. deltoides L. var. *pedunculatum* N.E. Br. in JI Linn. Soc. Bot. 45: 118 (1920). *O. deltoides* (L.) Schwantes var. *pedunculata* (N.E. Br.) Schwantes ex Jacobsen in Fedde Reprium Beih. 106: 158 (1938). *O. pedunculata* (N.E. Br.) Schwantes in Natn. Cact. Succ. JI 4: 58 (1949); Jacobsen, Handb. Succ. Pl. 3: 1338 (1960); in Lex. Succ. Pl. 535 (1974). Syntypes: *Schlechter 9045*, Nuwe-kloof (K!); *Scott Elliot 228*, Nuwe Kloof (K!).

Oscularia deltata (Mill.) Schwantes in Möllers dt. Gärtn.-Ztg 42: 187 (1927). Type: not stated, but apparently based on Miller's description of *M. deltoides*.

The pre-Linnaean citations listed by Glen (1978) are not repeated here, in order to save space.

REFERENCES

- BRUMMITT, R. K. 1983. Report of the Committee for Spermatophyta 25. *Taxon* 32: 279-284.
- GLEN, H. F. 1978. *A taxonomic monograph of Lampranthus and allied genera*. Ph. D. thesis, University of Cape Town.
- GLEN, H. F. 1980. Proposal (537) to conserve the generic name 2405 *Lampranthus* N.E. Br. (1930) against *Oscularia* Schwantes (1927) (Mesembryanthemaceae). *Taxon* 29: 693-694.

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