

Bryophyte flora of the Huon Peninsula, Papua New Guinea. LXXIII. Sematophyllaceae (Musci) 2. *Brotherella*, *Clastobryum*, *Clastobryopsis*, *Heterophyllum*, *Isocladiella*, *Isocladiellopsis*, *Meiotheciella*, *Meiothecium*, *Papillidiopsis*, *Rhaphidostichum* and *Wijkia*

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In part 2 of this revision, we continue to report on the accepted species of the genera in the Sematophyllaceae. A total of 11 genera, *Brotherella* Loeske ex M. Fleischer, *Clastobryopsis* M. Fleischer, *Clastobryum* Dozy & Molk., *Heterophyllum* (Schimp.) Kindb., *Isocladiella* Dixon, *Isocladiellopsis* B.C. Tan, T.J. Kop. & D.H. Norris, *Meiotheciella* B.C. Tan, W.B. Schofield & H.P. Ramsay, *Meiothecium* Mitt., *Papillidiopsis* W.R. Buck & B.C. Tan, *Rhaphidostichum* M. Fleischer and *Wijkia* Crum, and 30 species, one subspecies, and 4 varieties are treated and confirmed to be present in the study areas, including the Solomon Islands. *Isocladiellopsis* is described as an endemic genus new to science, while *Isocladiella* and *Heterophyllum* are two new generic records for the island. *Clastobryum flagelliferum* B.C. Tan, T.J. Kop. & D.H. Norris and *Isocladiellopsis timodanii* B.C. Tan are two new species to science, *Heterophyllum affine* subsp. *solomonensis* B.C. Tan, T.J. Kop. & D.H. Norris is described as a new subspecies for the Malesian moss flora. *Clastobryum conspicuum* var. *capillaripila* B.C. Tan, T.J. Kop. & D.H. Norris is a new variety described for science. Six species are newly recorded for Papua New Guinea. Five new combinations are proposed, and 12 new synonyms discovered (indexed). Lectotypes are proposed for *Clastobryopsis heteroclada* M. Fleischer, *Meiothecium attenuatum*

Broth., *M. tenellum* Broth. & Paris, *Rhaphidostegium loriforme* Broth. & Geheeb in Broth., *R. luzonense* Broth., *Sematophyllum ramulinum* Thwaites & Mitt. in Mitt. and *S. revolutum* Broth. & Geheeb. Keys to the species in each genus are presented and a short description of the species morphology based primarily on the New Guinean materials and comparative taxonomic notes for each taxon are provided. The distribution of the species in Western Melanesia and their total range are given. Several new records are given also to the floras of Solomon and Fiji.

Key words: *Brotherella*, *Clastobryum*, *Clastobryopsis*, distribution, *Heterophyllum*, Huon Peninsula, *Isoclediella*, *Isoclediellopsis*, *Meiotheciella*, *Meiothecium*, Musci, nomenclature, *Papillidiopsis*, Papua New Guinea, revision, *Rhaphidostichum*, Sematophyllaceae, Solomons, taxonomy, Western Melanesia, *Wikia*.