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A nomenclator for ophiostomatoid genera and species in the *Ophiostomatales* and *Microascales*

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Abstract: In this updated nomenclator, the names of 646 species proposed for ophiostomatoid fungi are considered. The result is 397 accepted species in 12 genera classified in the *Ophiostomatales* and *Microascales*. The taxonomic status of each species was re-evaluated based on all published details and where available, phylogenetic inferences, and data on typification. The principle of single name nomenclature, as adopted by the 18th International Botanical Congress, Melbourne in July 2011, was applied to all genera and species. Based on these re-assessments, three genera were redefined: *Graphilbum* in the *Ophiostomatales*, and *Graphium* and *Knoxdaviesia* (= *Gondwanamyces*) in the *Microascales*. Species were reclassified as necessary, resulting in 30 new combinations and one new name. *Ophiostoma s.l.* now includes 134 accepted species, *Ceratocystiopsis* 16 species, *Fragosphaeria* two, *Graphilbum* eight, *Raffaelea s.str.* 13, and *Leptographium s.l.* (including *Grosmannia*) 94. A further 28 species could not be assigned to any of these six genera with certainty, and seven more species were invalidly described. In the *Microascales*, *Ceratocystis* contains 72 accepted species, *Graphium* nine, *Knoxdaviesia* nine, and *Sphaeronaemella* seven, while *Cornuvesica* and *Custingophora* are both monotypic. Three microascalean species of uncertain status and six invalidly published species remain. Type studies and evaluation of the literature allowed the remaining 144 species described in the classical concept of *Graphium* to be reconsidered. Finally, 19 species previously assigned to *Ceratocystis*, *Ceratostomella*, *Leptographium*, *Ophiostoma*, *Raffaelea*, *Sphaeronaemella* and/or *Sporothrix*, were excluded from both the *Ophiostomatales* and *Microascales*.

Key words: anamorph taxonomy, *Ascomycota,* one fungus : one name, rDNA phylogeny, *Sordariomycetes*..

Taxonomic novelties: *Cephalotrichum album* (Costantin) Seifert *comb. nov*., *Ceratocystiopsis neglecta* (Kirschner & Oberw.) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ceratocystis harringtonii* Z.W. de Beer & M.J. Wingf. *nom. nov*., *Graphilbum brunneocrinitum* (E.F. Wright & Cain) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Graphilbum curvicolle* (Olchow. & J. Reid) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Graphilbum fragrans* (Math.-Käärik) Z.W. de Beer, Seifert & M.J. Wingf. *comb. nov.*, *Graphilbum microcarpum* (Yamaoka & Masuya) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Graphilbum nigrum* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Graphilbum rectangulosporium* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Graphilbum tubicolle* (Olchow. & J. Reid) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Grosmannia truncicola* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia cecropiae* (M. Kolařík) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia scolytodis* (M. Kolařík) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia serotectus* (Van der Linde & Jol. Roux) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia suidafrikana* (Morgan-Jones & R.C. Sinclair) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia ubusi* (Van der Linde & Jol. Roux) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia undulatistipes* (Pinnoi) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Knoxdaviesia wingfieldii* (Roets & Dreyer) Z.W. de Beer & M.J. Wingf. *comb. nov., Leptographium obscurum* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Leptographium rostrocylindricum* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Leptographium verrucosum* (Gebhardt, R. Kirschner & Oberw.) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ophiostoma australiae* (Kamgan, K. Jacobs & M.J. Wingf.) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ophiostoma cupulatum* (McNew & Harrington) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ophiostoma denticulatum* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ophiostoma leucocarpum* (R.W. Davidson) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ophiostoma macrosporum* (Francke-Grosm.) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Ophiostoma populicola* (Olchow. & J. Reid) Z.W. de Beer, Seifert & M.J. Wingf. *comb. nov.*, *Ophiostoma tingens* (Lagerb. & Melin) Z.W. de Beer & M.J. Wingf. *comb. nov.*, *Phaeostilbella nigra* (Berk.) Seifert *comb. nov., Sphaeronaemella betae* (Delacr.) Z.W. de Beer & M.J. Wingf. *comb. nov., Stilbocrea aterrima* (Welw. & Curr.) Seifert *comb. nov.*