

Outlineoffungi.org - Note 822 *Oligostoma*

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Oligostoma Voglmayr, J. Fourn. & Jaklitsch

Oligostoma was introduced by Voglmayr et al. (2022) as a monospecific genus, with its type species *O. insidiosum* (P. Crouan & H. Crouan) Voglmayr, J. Fourn. & Jaklitsch (\equiv *Valsa insidiosa*). The sexual morph of the genus is characterized by erumpent, inconspicuous stromata with a black leathery clypeus and central to slightly eccentric ostiolar openings; whitish to brownish hyphal entostroma; pseudoparenchymatous peridium; copious, hyphal, thin-walled paraphyses; cylindrical, short stipitate asci with 8 uniseriate, obliquely overlapping ascospores and a plug-like, euamyloid apical ring with a flattened apex and a sharp subapical rim, blue in Melzer's reagent; inequilaterally ellipsoid to nearly citriform, olivaceous brown to dark brown ascospores with rounded ends, a conspicuous sigmoid germ slit on the ventral side, a thin slimy sheath and a small basal cellular appendage. Asymmetrical ascospore sheaths can be found in similar inconspicuous xylarialean anthostomella-like taxa such as *Anthocanalis sparti*, *Anthostomella formosa* var. *taxi*, and *An. triangularis* (Lu and Hyde 2000, [Daranagama et al. 2015](#)). The asexual morph was not found on the natural substrate. Voglmayr et al. (2022) provided fresh collections of *Oligostoma insidiosum* from Austria (on dead corticated fallen branches of *Acer pseudoplatanus*, *Fagus sylvatica*, *Ostrya carpinifolia*, and *Tilia* sp.), France (on a corticated twig of *F. sylvatica*), Germany (on a dead branches of *A. pseudoplatanus*), Slovenia (on a corticated twig of *F. sylvatica*), and Switzerland (on a dead corticated fallen twigs of *F. sylvatica*). Based on SSU-ITS-LSU-RPB2-TUB2 phylogeny by Voglmayr et al. (2022), *Oligostoma* clustered with *Leptomassaria* with 100% ML and 100% MP statistical support in *Xylariaceae sensu stricto* with shared morphology. However, *Oligostoma* is distinct from *Leptomassaria* in having differences in stromatal morphology and ascospore shape ([Voglmayr et al. 2022](#)). The taxonomic placement of *Oligostoma* is in *Xylariaceae*, *Xylariales*, *Xylariomycetidae*, *Sordariomycetes*, *Pezizomycotina*, and *Ascomycota*.

Reference

- Daranagama DA, Camporesi E, Tian Q, Liu X, Chamyuang S, Stadler M, Hyde KD. 2015 – *Anthostomella* is polyphyletic comprising several genera in *Xylariaceae*. *Fungal Diversity* 73, 203–238. <https://doi.org/10.1007/s13225-015-0329-6>
- Lu BS, Hyde KD. 2000 – A world monograph of *Anthostomella*. Fungal Diversity Press, Fungal Diversity Research Series.
- Voglmayr H, Tello S, Jaklitsch WM, Friebe G, Baral H.-O, Fournier J. 2022 – About spirals and pores: *Xylariaceae* with remarkable germ loci. *Persoonia* 49, 58–98. <https://doi.org/10.3767/persoonia.2022.49.02>

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