

Outlineoffungi.org - Note 967 *Polystromomyces*

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Polystromomyces Mongkolsamrit, Noisriboom, Sakolrak & Himaman

Based on morphological comparison and phylogenetic analyses, *Polystromomyces* was established under *Cordycipitaceae* to accommodate *Polystromomyces araneae* Mongkolsamrit, Noisriboom, Sakolrak & Himaman by Mongkolsamrit et al., (2022) as monotypic genus. This species was found attached to a spider egg on the underside of a dicot leaf in northern Thailand (Mongkolsamrit et al., 2022). Multiple stipes with fertile heads at the apex, filiform and easily breakable ascospores in the sexual morph, and microcycle conidiation in the asexual morph distinguish this genus from others (Mongkolsamrit et al., 2022). *Polystromomyces* formed the basal branch of *Hevansia* in the phylogenetic tree based on the combined five-loci genes (ITS, LSU, *tefl*, *rpb1*, and *rpb2*), and they shared the same ecological habitat (Mongkolsamrit et al., 2022). Morphologically, the shape of the stipes distinguishes it from *Hevansia* (Kepler et al. 2017; Mongkolsamrit et al., 2022). The taxonomic placement of *Polystromomyces* is in *Cordycipitaceae*, *Hypocreales*, *Sordariomycetes* and *Ascomycota*.

References

- Kepler RM, Luangsa-ard JJ, Hywel-Jones NL et al. 2017 – A phylogenetically-based nomenclature for *Cordycipitaceae* (Hypocreales). *IMA Fungus* 8, 335–353. <https://doi.org/10.5598/imafungus.2017.08.02.08>
- Mongkolsamrit S, Noisriboom W, Tسانathai K, Kobmoo N, Thanakitpipattana D, Khonsanit A, Petcharad B, Sakolrak B, Himaman W 2022 – Comprehensive treatise of *Hevansia* and three new genera *Jenniferia*, *Parahevansia* and *Polystromomyces* on spiders in *Cordycipitaceae* from Thailand. *MycKeys* 91, 113–149. <https://doi.org/10.3897/mycokeys.91.83091>

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