

## Outlineoffungi.org - Note 903 *Nigropunctata*

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*Nigropunctata* Samarak. & K.D. Hyde

*Nigropunctata* was established by Samarakoon et al (2022) with *Nigropunctata bambusicola* Samarak. & K.D. Hyde as the type species. *Nigropunctata bambusicola* was found on the dead culm of bamboo (*Poaceae*) as a saprobe in Thailand. Only the sexual morph is known in this genus (Samarakoon et al. 2022). *Nigropunctata* is characterized by immersed ascomata, centric or eccentric ostioles, a periphysate ostiolar canal covered with a black, thick clypeus, yellow to brown ectostroma and long, filamentous, septate, rarely branched, numerous, paraphyses, constricted at septa. Asci are embedded in a gelatinous matrix, 8-spored, unitunicate, cylindrical, short pedicellate, apically rounded with a discoid, or inverted, hat-shaped ring. Ascospores are uniseriate or overlapping uniseriate, brown to dark brown, cylindrical to broadly ellipsoidal, aseptate, covered with a thick mucilaginous sheath or sheath lacking, germ slit on the ventral side, straight, along the entire spore length. Asexual morph is undetermined. Morphologically, *Nigropunctata* is similar to *Anthostomella*, however, it can be distinguished from *Anthostomella* in having immersed ascomata with a thick clypeus, white or yellow ectostroma, short pedicel, apically rounded asci with J+, discoid or inverted, hat-shaped, apical ring and broadly ellipsoidal, aseptate, ascospores with a germ slit. Phylogenetic evidence also supports *Nigropunctata* as distinct from *Anthostomella* and placed it independently in *Xylariales*. It forms an independent phylogenetic clade in *Xylariales* and has unique morphological characters from similar genera. The other accepted species in *Nigropunctata* are *Nigropunctata bambusicola* Samarak. & K.D. Hyde, *Nigropunctata nigrocircularis* Samarak. & K.D. Hyde and *Nigropunctata thailandica* Samarak. & K.D. Hyde (Samarakoon et al. 2022). Based on the evidence of combined ITS, LSU, *rpb2*, *tub2*, and *tef1-a* sequence data and the distinct morphological characters the taxonomic placement of *Nigropunctata* is in *Xylariaceae*, *Xylariales*, *Sordariomycetes*.

### Reference

Samarakoon MC, Hyde KD, Maharachchikumbura SSN, Stadler M, Gareth Jones EB, Promputtha I, Suwannarach N, Camporesi E, Bulgakov TS, Liu JK. – 2022 Taxonomy, phylogeny, molecular dating and ancestral state reconstruction of *Xylariomycetidae* (*Sordariomycetes*). *Fungal Diversity* 112(1), 1–88. <https://doi.org/10.21203/rs.3.rs-935829/v1>

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