

## Outlineoffungi.org - Note 1309 *Nigrohirschioporus*

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*Nigrohirschioporus* Y.C. Dai, Yuan Yuan & Meng Zhou

The taxonomy of *Trichaptum s.l.* underwent a comprehensive revision through the integration of morphological analysis and molecular studies based on ITS, LSU, SSU, SSU, and *tefl* sequence data from 256 samples (Zhou et al. 2023). In this study, the polyphyletic nature of *Trichaptum s.l.* was revealed and consequently, *Nigrohirschioporus* was established (Zhou et al. 2023). The name “*Nigrohirschioporus*” can be understood as a combination of “Nigro-” indicating the blackish basidiomata and a reference to the similarity with *Hirschioporus* Donk ( $\equiv$  *Trichaptum* Murrill) (Zhou et al. 2023). The genus is typified by *N. sector* (Ehrenb.) Y.C. Dai, Yuan Yuan & Meng Zhou is characterized by effuso-reflexed or pileate to resupinate, annual to perennial basidiomata. The surface of the pileus ranges from blackish to purplish to grayish brown and is generally glabrous to velutinose. The nature of the hymenophore may be hydroid, irpicoid, or poroid, where tubes are concolorous to the pileus surface. The hyphal system varies from dimitic or trimitic with clamp connections present on the generative hyphae. The presence of cystidia is reported in this genus. Basidiospores are thin-walled, hyaline, smooth, cylindrical to ellipsoid in shape (Zhou et al. 2023). The members of *Nigrohirschioporus* can be differentiated from other genera in *Trichaptum s.l.* by their typical blackish, woody basidiomata with poroid or toothed hymenophore and sometimes the presence of skeletocystidia (Zhou et al. 2023). *Nigrohirschioporus* are associated mostly with angiospermic wood causing white rot and their distribution is pantropical. To date, thirteen species have been documented within this genus (Zhou et al. 2023; Saha et al. 2024).

### References

- Zhou M, Dai YC, Vlasák J, Liu HG et al. 2023 – Revision and updated systematics of *Trichaptum s.l.* (Hymenochaetales, Basidiomycota). *Mycosphere* 14(1), 815–917.
- Saha R, Dutta AK, Acharya K. 2024 – *Nigrohirschioporus violacaeruleum* sp. nov. and a new record of *Pallidohirschioporus brastagii* (Basidiomycota, Hymenochaetales) from India. *Phytotaxa* 634(2), 131–142.

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