

Outlineoffungi.org – Note1078 *Neobrevicollum*

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Neobrevicollum W.L. Li & Jian K. Liu

Li et al. (2023) introduced *Neobrevicollum* under *Neohendersoniaceae* to accommodate *Neobrevicollum oleae* W.L. Li & Jian K. Liu as the type species based on morphology and phylogenetic analyses. Another species is *Neobrevicollum biancaeae* H.Z. Du, Y.H Lu & Jian K. Liu (Lu et al. 2024). *Neobrevicollum oleae* and *N. biancaeae* were isolated from *Olea europaea* and *Biancaea sappan* in China, respectively (Li et al. 2023; Lu et al. 2024). The sexual morph only has been observed. The new genus *Neobrevicollum* is identified by its cylindrical to obclavate-shaped asci that have an elongated and cylindrical pedicel, as well as hyaline, fusiform-shaped ascospores with 1-3 septa. *Neobrevicollum* differs in morphology from *Brevicollum* and *Crassiparies* based on their ascospore characteristics. *Neobrevicollum* features 1–3-septate, hyaline ascospores with a mucilaginous sheath, whereas *Brevicollum* displays 3–5-septate ascospores that are either hyaline or brown, enveloped by a rounded mucilaginous sheath. In contrast, *Crassiparies* exhibit hyaline ascospores lacking a sheath. Molecular analyses of the multi-locus dataset (ITS, SSU, LSU, *tefl*, and *rpb2*) have confirmed that the genus belongs to the *Neohendersoniaceae* and formed a sister clade with *Brevicollum* and *Amarenographium solium* (Li et al. 2023; Lu et al. 2024).

References

- Lu YH, Zhang SN, Du HZ, Cheewangkoon R et al. 2024 – Additions to *Crassiparies* and *Neobrevicollum* (*Neohendersoniaceae*, *Pleosporales*) associated with woody hosts in Southwest China. *Phytotaxa* 636(2), 126–38.
- Li WL, Liang RR, Dissanayake AJ, Liu JK. 2023 – *Mycosphere Notes* 413–448, *Dothideomycetes* associated with woody oil plants in China. *Mycosphere* 14 (1), 1436–1529.

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