

Outlineoffungi.org - Note 755 *Appendicosporaceae*

Web-links: [Index Fungorum](#), [Facesoffungi](#), [MycoBank](#)

Appendicosporaceae Samarak. & K.D. Hyde

Phylogenetic analysis of Samarakoon et al. (2022), showed that the genera *Appendicospora* and *Neoamphisphaeria* form a distinct clade in *Amphisphaeriales* apart from *Apiosporaceae*. Thus, with the help of morphology, phylogeny and divergent time estimation, this clade was introduced as the new family *Appendicosporaceae*. *Appendicosporaceae* split from *Hyponectriaceae* and *Nothodactylariaceae* 89 (65–117) MYA. This range is within the common divergence trend at the family level of *Sordariomycetes* (50–150 MYA), as detailed in Hyde et al. (2017). The type genus of the family, *Appendicospora* is distinct from the *Apiospora* in having ascospores with basal bifurcate appendages (Hyde 1995a, b). The previous studies (Wang and Hyde 1999, Smith et al. 2003, Bahl 2006) based on the only available LSU sequence of *Appendicospora* sp. (HKUCC 1120) suggest placing *Appendicospora* within *Hyponectriaceae*. However, additional species with multilocus phylogeny of Samarakoon et al. (2022) showed that *Appendicospora* is not related to *Hyponectriaceae*. *Appendicosporaceae* is characterized by immersed, conical to subglobose ascomata, multi-layered peridium, paraphyses embedded in a gelatinous matrix, 8-spored, unitunicate asci lacking an apical ring and hyaline, clavate to broadly ellipsoidal, 1-septate ascospores (Samarakoon et al. 2022). No asexual morph has been reported.

References

- Bahl J 2006 – Molecular evolution of three morphologically similar families in the *Xylariomycetidae* (*Apiosporaceae*, *Clypeosphaeriaceae*, *Hyponectriaceae*). The University of Hong Kong, Hong Kong. https://doi.org/10.5353/th_b3785674
- Hyde KD 1995a – Fungi from palms. XVIII. *Appendicospora coryphae*, a new name for *Apiosporella coryphae*. *Sydowia* 47, 31–37. https://www.zobodat.at/pdf/Sydowia_47_0031-0037.pdf
- Hyde KD 1995b – Fungi from palms. XV. *Sabalicola* gen. nov., and a new combination for *Anthostomella sabalensioides*. *Nova Hedwigia* 60, 595–598.
- Hyde KD, Maharachchikumbura SSN, Hongsanan S, Samarakoon MC, Lücking R, Pem D, Harishchandra D, Jeewon R, Zhao RL, Xu JC, Liu JK 2017 – The ranking of fungi: a tribute to David L. Hawksworth on his 70th birthday. *Fungal Diversity* 84, 1–23. <https://doi.org/10.1007/s13225-017-0383-3>
- 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, 1–88. <https://doi.org/10.1007/s13225-021-00495-5>
- Smith GJD, Liew ECY, Hyde KD 2003 – The *Xylariales*: a monophyletic order containing 7 families. *Fungal Diversity* 13, 185–218. https://www.researchgate.net/profile/Kevin-Hyde-3/publication/241654490_The_Xylariales_A_monophyletic_order_containing_7_families/links/57e33a1508aecd0198dd856d/The-Xylariales-A-monophyletic-order-containing-7-families.pdf
- Wang YZ, Hyde KD 1999 – *Hyponectria buxi* with notes on the *Hyponectriaceae*. *Fungal Diversity* 3, 159–172. https://www.fungaldiversity.org/fdp/sfdp/FD_3_159-172.pdf

Entry by

Rekhani Hansika Perera, Center of Excellence in Fungal Research, Mae Fah Luang

University, Muang, Chiang Rai 57100, Thailand

(Edited by **Kevin D. Hyde & Sajeewa Maharachchimbura**)

Published online 15 March 2023