

Outlineoffungi.org - Note 551, [Xenovaginatisspora](#)

[Xenovaginatisspora](#) Boonmee, Huanraluek & K.D. Hyde

[Xenovaginatisspora](#) is an ascomycetous genus belonging to *Lindgomycetaceae* (*Pleosporales*, *Dothideomycetes*). This genus includes a single species, *X. phichaiensis*, found from submerged decaying wood in a freshwater stream in Thailand ([Boonmee et al. 2021](#)). This genus is similar to *Vaginatisspora*, but the latter is a member of *Lophiostomataceae* ([Hashimoto et al. 2018](#), [Andreasen et al. 2021](#)). The ascospores of [Xenovaginatisspora](#) resemble those of *Lindgomyces* which also has fusiform, 1-septate, hyaline ascospores surrounded by a prominent sheath or bipolar mucilaginous appendages ([Hirayama et al. 2010](#)). However, [Xenovaginatisspora](#) is phylogenetically separated from *Lindgomyces* and forms a sister clade of the *Neolindgomyces* spp. ([Boonmee et al. 2021](#)) which has fusiform to cylindrical, 4–8-septate, hyaline ascospores ([Hyde and Goh 1999](#), [Jayasiri et al. 2019](#)).

References

- Andreasen M, Skrede I, Jaklitsch WM, Voglmayr et al. 2021 – Multi-locus phylogenetic analysis of lophiostomatoid fungi motivates a broad concept of *Lophiostoma* and reveals nine new species. *Persoonia* 46, 240–271. <https://www.ingentaconnect.com/content/nhn/pimj/2021/00000046/00000001/art00009>
- Boonmee S, Wanasinghe DN, Calabon MS, Huanraluek N, et al. 2021 – Fungal diversity notes 1387–1511: Taxonomic and phylogenetic contributions on genera and species of fungal taxa. *Fungal Diversity* 111, 1–335. <https://link.springer.com/article/10.1007/s13225-021-00489-3>
- Hashimoto A, Hirayama K, Takahashi H, Matsumura M, et al. 2018 – Resolving the *Lophiostoma bipolare* complex: generic delimitations within *Lophiostomataceae*. *Studies in Mycology* 90, 161–189. <https://www.sciencedirect.com/science/article/pii/S0166061618300083>
- Hirayama K, Tanaka K, Raja HA, Miller AN, et al. 2010 – A molecular phylogenetic assessment of *Massarina ingoldiana sensu lato*. *Mycologia* 102, 729–746. <https://www.tandfonline.com/doi/full/10.3852/09-230>
- Hyde KD, Goh TK 1999 – Tropical Australian freshwater fungi. XVI. Some new melanommataceous fungi from woody substrata and a key to genera of lignicolous loculoascomycetes in freshwater. *Nova Hedwigia* 68, 251–272. https://www.researchgate.net/publication/286486344_Tropical_Australian_Freshwater_Fungi_XVI_Some_new_melanommataceous_fungi_from_woody_substrata_and_a_key_to_genera_of_lignicolous_loculoascomycetes_in_freshwater
- Jayasiri SC, Hyde KD, Jones EBG, McKenzie EHC, et al. 2019 – Diversity, morphology and molecular phylogeny of *Dothideomycetes* on decaying wild seed pods and fruits. *Mycosphere* 10, 1–186. https://www.mycosphere.org/pdf/MYCOSPHERE_10_1_1.pdf

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