**Fungalpedia - Note 37**[***Rostrohypoxylon***](https://www.mycobank.org/page/Name%20details%20page/453720)

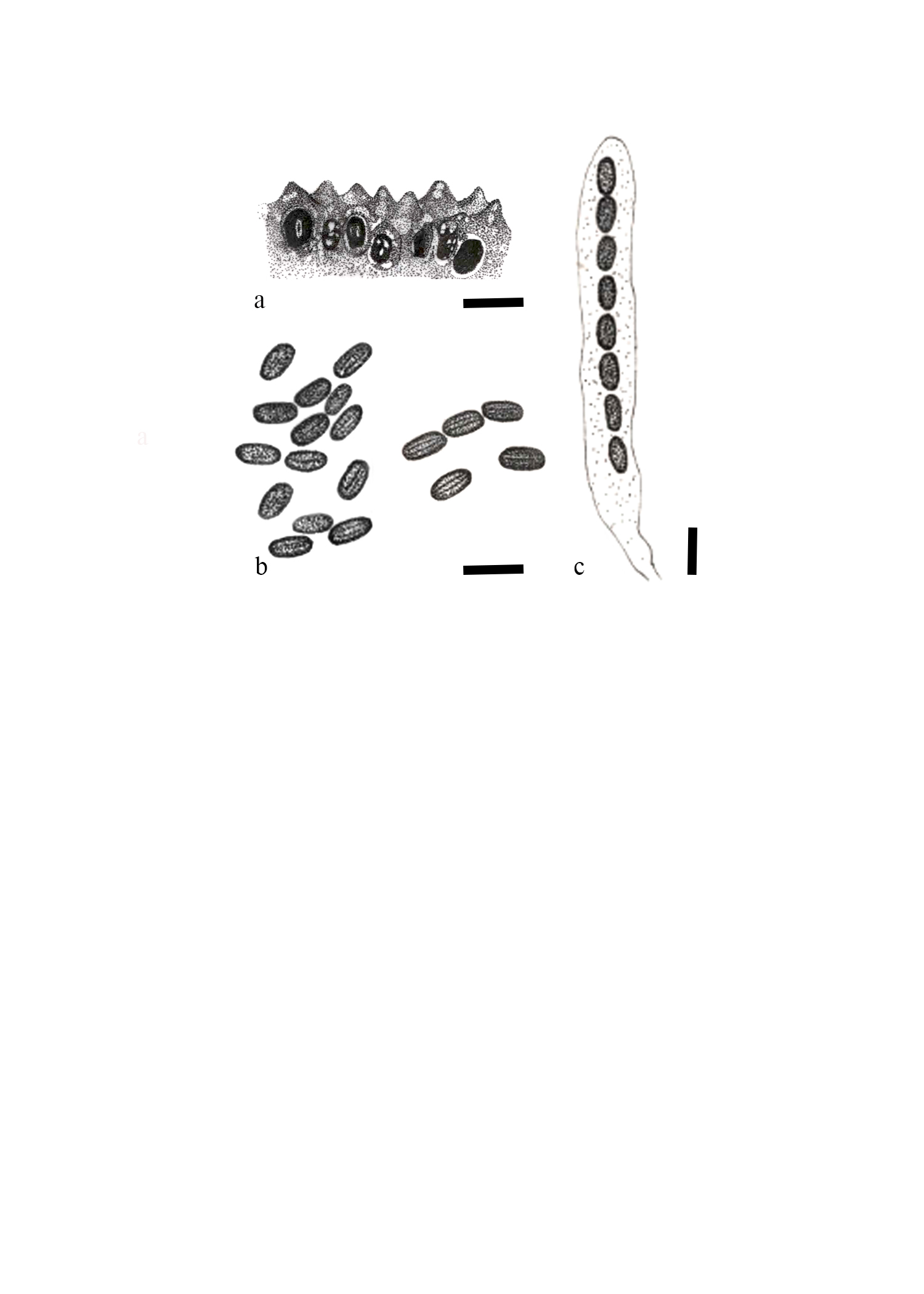
[***Rostrohypoxylon***](http://www.indexfungorum.org/Names/NamesRecord.asp?RecordID=512543) J. Fourn. & M. Stadler

**Citation if using this entry**: Fallahi et al. (2023) New genera in 2010-2011. Mycosphere (in prep)

[Index Fungorum](http://www.indexfungorum.org/Names/NamesRecord.asp?RecordID=512543) , [MycoBank](https://www.mycobank.org/page/Name%20details%20page/453720), [Faceoffungi](https://www.facesoffungi.org/rostrohypoxylon/), [GenBank](https://www.ncbi.nlm.nih.gov/nuccore/MU385855.1), Fig 1.

[Fournier et al. (2010)](https://link.springer.com/article/10.1007/s13225-010-0026-4)introduced[*Rostrohypoxylon*](http://www.indexfungorum.org/Names/NamesRecord.asp?RecordID=512543)as a monotypic genus with the type species [*Rostrohypoxylon terebratum*](https://www.mycobank.org/page/Name%20details%20page/453721) J. Fourn. & M. Stadler in [Hypoxylaceae](https://www.facesoffungi.org/hypoxylaceae/) ([Xylariales](https://www.facesoffungi.org/xylariales/)). [*Rostrohypoxylon terebratum*](https://www.facesoffungi.org/rostrohypoxylon/) was found on the dead bark of *Lithocarpus* from northern Thailand ([Fournier et al. 2010](https://link.springer.com/article/10.1007/s13225-010-0026-4))*.* The species is distinguished by its strongly protruding ostiolar necks, erumpent effuse stromata, and KOH extractable pigments ([Fournier et al. 2010](https://link.springer.com/article/10.1007/s13225-010-0026-4)). It forms unitunicate, cylindrical, eight-spored, and fragile asci. Ascospores are brown, one-celled, cylindrical, and have faint straight germ slits. [*Rostrohypoxylon*](http://www.indexfungorum.org/Names/NamesRecord.asp?RecordID=512543)shares high morphological similarity with [*Annulohypoxylon*](https://www.facesoffungi.org/annulohypoxylon/), within [*Hypoxylaceae*](https://www.facesoffungi.org/hypoxylaceae/). According to the phylogenetic analysis (based on ITS, LSU, RPB2, and *β-tubulin*), and chemotaxonomic data, [*Rostrohypoxylon terebratum*](https://www.mycobank.org/page/Name%20details%20page/453721) showed a strong connection with [*Annulohypoxylon*](https://www.facesoffungi.org/annulohypoxylon/) species ([Daranagama et al. 2018](https://link.springer.com/article/10.1007/s13225-017-0388-y)). However, the comparison of stromal HPLC profiles revealed unknown compounds that did not correspond with those of [*Annulohypoxylon*](https://www.facesoffungi.org/annulohypoxylon/). Subsequently, [*Rostrohypoxylon*](https://www.facesoffungi.org/rostrohypoxylon/) was considered a distinct genus from [*Annulohypoxylon*](https://www.facesoffungi.org/annulohypoxylon/) ([Fournier et al. 2010](https://link.springer.com/article/10.1007/s13225-010-0026-4); [Daranagama et al. 2018](https://link.springer.com/article/10.1007/s13225-017-0388-y)).

**Type species:** [*Rostrohypoxylon terebratum*](https://www.mycobank.org/page/Name%20details%20page/453721)J. Fourn. & M.



**Fig 1**- [***Rostrohypoxylon terebratum***](https://www.indexfungorum.org/names/NamesRecord.asp?RecordID=512544) (redrawn from Fournier et al. 2010). a Section through rostrate stroma. b Ascospores (clearly showing the ascospore germ slits). c Asci. Scale bars: a = 1mm; b-c=10 μm.

**References**

Fournier J, Stadler M, Hyde KD, Duong ML. 2010- The new genus *Rostrohypoxylon* and two new *Annulohypoxylon* species from Northern Thailand. Fungal Diversity 40, 23-36. <https://link.springer.com/article/10.1007/s13225-010-0026-4>

Daranagama DA, Hyde KD, Esteban B, Thambugala KM, Tian Q, Samarakoon MC, ... Stadler M. 2018- Towards a natural classification and backbone tree for *Graphostromataceae*, *Hypoxylaceae*, *Lopadostomataceae* and *Xylariaceae*. Fungal Diversity 88, 1-165. <https://link.springer.com/article/10.1007/s13225-017-0388-y>

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