

## Outlineoffungi.org - Note 1010 *Thermochaetoides*

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***Thermochaetoides*** X. Wei Wang & Houbraken

*Thermochaetoides* was erected by Wang et al. (2022) to accommodate *Thermochaetoides thermophila* (La Touche) X. Wei Wang & Houbraken as the type species based on the morphological characteristics and phylogenetic analysis of *rpb2*, *tub2*, ITS, and LSU sequence data. Another species is *Thermochaetoides dissita* (Cooney & R. Emers.) X. Wei Wang & Houbraken. *Thermochaetoides* species are found on animal dung, mushroom compost, rotten wheat straw, and typha straw in terrestrial habitats, and they are distributed in Israel, Switzerland, the Netherlands, the USA, and the UK (Cooney & Emerson 1964). *Thermochaetoides* is known only from its sexual morph and is characterized by subglobose or ovoid ascomata, with ostiolate, brown peridium, composed of irregular or angular cells, and brown terminal hairs, flexuous, dichotomously or irregularly branched, verrucose and septate, cylindrical or clavate asci, 8-spored, ascospores olivaceous when mature, single-celled, globose to subglobose or broad ovoid, with a distinctly protuberant apical germ pore (Wang et al. 2022). The genus *Ovatospora* formed a sister clade with *Thermochaetoides* based on the phylogenetic analysis. The taxonomic placement of *Thermochaetoides* is in [Chaetomiaceae](#), [Sordariales](#), [Sordariomycetidae](#), [Sordariomycetes](#), [Pezizomycotina](#), *Ascomycota*.

### References

- Cooney DG, Emerson R. 1964 – Thermophilic Fungi: an account of their biology, activities and classification. W.H. Freeman and Co., San Francisco, London. <https://www.cabdirect.org/cabdirect/abstract/19651102963>
- Wang XW, Han PJ, Bai FY, Luo A et al. 2022 – Taxonomy, phylogeny and identification of *Chaetomiaceae* with emphasis on thermophilic species. *Studies in Mycology* 101, 121. <https://doi.org/10.3114/sim.2022.101.03>

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