

## Outlineoffungi.org - Note 753 *Parvomelanocarpus*

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### *Parvomelanocarpus* X.Wei Wang & Houbraken

Wang et al. (2022) introduced this new genus based on the ITS, LSU, *tub2* and *rpb2* phylogenetic analysis. *Parvomelanocarpus* is distinct from the phylogenetically sister genus [Melanocarpus](#) in morphology, reproduction, temperature adaptation, and divergence time estimation (Wang et al. 2022). The genus is typified by *Parvomelanocarpus tardus* (X.Wei Wang & Samson) X. Wei Wang & Houbraken, isolated from a cotton jacket in Switzerland, and the species was previously placed in [Melanocarpus](#) (*M. tardus* X.Wei Wang & Samson). Species of *Parvomelanocarpus* are thermophilic, and no asexual morph has been recorded so far (Wang et al. 2022). The morphological characteristic of the genus includes superficial or embedded ascomata, which lack ostioles and are spherical, glabrous or covered by finger-like ascomatal hairs and ovate to broadly ovate asci that have eight irregularly-arranged ascospores (Wang et al. 2022). Species of *Parvomelanocarpus* can be easily distinguished from *Melanocarpus* as they grow very slowly on agar media and produce smaller ascospores. *Parvomelanocarpus* diverged from [Melanocarpus](#) about 60 Mya (Wang et al. 2022).

### References

Wang XW, Han PJ, Bai FY, Luo A, Bensch K, Meijer M, Kraak B, Han DY, Sun BD, Crous PW, Houbraken J 2022 – Taxonomy, phylogeny and identification of *Chaetomiaceae* with emphasis on thermophilic species. *Studies in Mycology* 101, 121–243. <https://doi.org/10.3114/sim.2022.101.03>

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