

## Outlineoffungi.org - Note 730 *Guomyces*

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***Guomyces*** Q.M. Wang, E. Tanaka, M. Groenew. & Begerow., in Li et al.

The genus is mainly circumscribed by phylogenetic analysis using ITS + LSU sequences for *Meira nicotianae* H.K. Wang & F.C. Lin ex Denchev & T. Denchev, isolated from the rhizosphere of tobacco root in China by Cao et al. (2018). *Guomyces* was introduced in Li et al. (2022) to accommodate *Guomyces nicotianae* H.K. Wang & F.C. Lin ex Q.M. Wang, E. Tanaka, M. Groenew. & Begerow ( $\equiv$  *Meira nicotianae*), an asexual morph basidiomycetous yeast in *Ustilaginomycotina*. Sexual reproduction is not known. Colonies are butyrous, yellow with eroded margin, budding cells present or not, hyphae are formed and ballistoconidia are not produced (Li et al. 2022). This genus was proposed for the branch represented by *Meira nicotianae*, which formed a separate branch from other genera in the *Brachybasidiaceae* (*Exobasidiales*, *Exobasidiomycetes*) (Li et al. 2022).

### References

- Cao Y, Li P-D, Zhao J, Wang H-K, Jeewon R, Bhoyroo V, Aruna B, Lin F-C, Wang Q. 2018 – Morph-molecular characterization of *Meira nicotianae* sp. nov., a novel basidiomycetous, anamorphic yeast-like fungus associated with growth improvement in tobacco plant. *Phytotaxa* 365(2), 169–181. <https://doi.org/10.11646/PHYTOTAXA.365.2.4>
- Li Y-Y, Wang, M-M, Groenewald M, Li A-H, Guo Y-T, Wu F, Zhang B-Q, Tanaka E, Wang Q-M, Bai F-Y, Begerow D. 2022 – Proposal of two new combinations, twenty new species, four new genera, one new family, and one new order for the anamorphic basidiomycetous yeast species in *Ustilaginomycotina*. *Frontiers in Microbiology* 12(no. 777338), 23. <https://doi.org/10.3389/fmicb.2021.777338>

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