

## Outlineoffungi.org - Note 1472 *Alloascoideomyces*

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*Alloascoideomyces* M. Groenew., Hittinger, Opulente & A. Rokas

*Alloascoideomyces* was erected to accommodate *Alloascoideales* M. Groenew., Hittinger, Opulente & A. Rokas as the type order. (Groenewald et al. 2023). The type genus and type species in this order are *Alloascoidea* Kurtzman & Robnett and *Alloascoidea hylecoeti* (L.R. Batra & Francke-Grosz.) Kurtzman & Robnett respectively. The diagnosis of *Alloascoideomyces* involves the recognition of class-specific protein families OG0009556 and OG0024318. Key morphological features include multilateral budding and the development of pseudohyphae and septate hyphae. Blastoconidia are formed on hyphae and can either be sessile or emerge from denticles. Notably, sugars within this group are not fermented (Groenewald et al. 2023). To understand the evolutionary relationships within *Alloascoideomyces*, phylogenetic analyses utilize DNA sequences encoding LSU rDNA, SSU rDNA, EF-1 $\alpha$ , Rpb1, Rpb2 as detailed in the research by Kurtzman & Robnett (2013).

### References

- Groenewald M, Hittinger CT, Bensch K, Opulente DA, et al. 2023 – A genome-informed higher rank classification of the biotechnologically important fungal subphylum *Saccharomycotina*. *Studies in Mycology* 105(1), 1–22.
- Kurtzman CP, Robnett CJ. 2013 – *Alloascoidea hylecoeti* gen. nov., comb. nov., *Alloascoidea africana* comb. nov., *Ascoidea tarda* sp. nov., and *Nadsonia starkeyi-henricii* comb. nov., new members of the *Saccharomycotina* (*Ascomycota*) *FEMS Yeast Research* 13: 423–432.

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