

Outlineoffungi.org - Note 676 *Azygosporus*

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[*Azygosporus*](#) B. Huang & Y. Nie

Within the framework of elucidating the phylogenetic placement of *Conidiobolus parvus*, [Cai et al. \(2021\)](#) described [*Azygosporus*](#) as a new synapomorphic clade in the family *Ancylistaceae* (*Entomophthorales*) using morphological and molecular evidence. In their ML tree based on nrLSU, *tef1* and mtSSU sequences, the type [*A. parvus*](#) (Drechsler) B. Huang & Y. Nie (= *Conidiobolus parvus* Drechsler) and the newly described species *A. macropapillatus* B. Huang & Y. Nie formed a well-supported monophyletic group sister to *Conidiobolus sensu stricto* ([Gryganskyi et al. 2022](#)). This genus is characterized by azygospore production (synapomorphy) and associated species are easy to culture on nutrient media ([Gryganskyi et al. 2022](#)). The discovery of this new basal lineage provides new evidence for the saprotrophic lifestyle to be the ancestral state of *Entomophthorales* ([Gryganskyi et al. 2022](#)).

Reference

- Cai Y, Nie Y, Zhao H, Wang Z, Zhou Z, Liu X, Huang B. 2021 – *Azygosporus* gen. nov., a synapomorphic clade in the family *Ancylistaceae*. *MycoKeys* 85, 161–172. <https://doi.org/10.3897/2Fmycokeys.85.73405>
- Gryganskyi AP, Nie Y, Hajek AE, Hodge KT, Liu XY, Aadland K, Voigt K, Anishchenko IM, Kutovenko VB, Kava L, Vuck A. 2022 – The Early Terrestrial Fungal Lineage of *Conidiobolus*—Transition from Saprotroph to Parasitic Lifestyle. *Journal of Fungi* 8 (8), 789–801. <https://doi.org/10.3390/jof8080789>

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