

Outlineoffungi.org - Note 657 *Adustochaete*

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Adustochaete Alvarenga & K.H. Larss.

This is a genus of saprotrophic jelly fungi fruiting on dead hardwood branches in Neotropical regions (Brazil, Mexico) and China. *Adustochaete* was introduced based on morphological and phylogenetic studies (ITS and LSU sequences) of two newly described auricularioid species, *A. rava* Alvarenga & K.H. Larss. and *A. Interrupta* Spirin & Malysheva ([Alvarenga et al. 2019](#)). Both clustered in an independent clade sister to *Eichleriella* which was strongly supported in Bayesian analysis ([Alvarenga et al. 2019](#)). Another new species (*A. nivea* Alvarenga) from Brazil was described with an updated phylogeny (ITS and LSU) for *Auriculariaceae* ([Hyde et al. 2020](#)). In their analysis, *Adustochaete* formed a well-supported group, sister to a large clade including the genera *Proterochaete*, *Exidiopsis*, *Heteroradulum*, *Sclerotrema*, *Exidia*, and *Tremellochaete*. A fourth species was described from China (*A. yunnanensis*) ([Li & Zhao 2022](#)), which forms a well-supported lineage sister to a clade comprising *A. interrupta* and *A. rava*. The type species is *A. rava* ([Alvarenga et al. 2019](#)). The genus is characterized by resupinate, dry, soft basidiomata, monomitic hyphal structure, spiny or tuberculate hymenophore covered by smooth tramal hyphae and encrusted hyphidia, 4-celled basidia, clamp connections, and hyaline, thin-walled, cylindrical to broadly cylindrical basidiospores ([Alvarenga et al. 2019](#), [Hyde et al. 2020](#), [Alvarenga & Gibertoni 2021](#)). The asexual morph is unknown. *Adustochaete* is currently placed in *Auriculariaceae*, *Auriculariales*, *Agaricomycetes*, *Basidiomycota*. Further sampling and sequencing of additional genes (e.g. *rpb2*, *tef1*, *tub2*) are required to determine the correct phylogenetic position of this genus within *Auriculariaceae*.

References

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