

Outlineoffungi.org - Note 1441 *Adustoporiaceae*

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Adustoporiaceae Audet

Adustoporiaceae was established to accommodate *Adustoporia* as the type genus based on the morphological characteristics and combined sequence dataset of LSU, SSU, TEF1, RPB1, and RPB2 (Audet 2018a; Liu et al., 2023). The type species is *Adustoporia sinuosa* (Fr.) Audet. In *Adustoporiaceae*, basidiocarps range from annual to perennial, appearing resupinate to effused-reflexed, with a texture varying from corky to woody. The hymenophores are poroid. The hyphal system can be monomitic or dimitic, with generative hyphae that have clamp connections. Cystidia are not present, while cystidioles may or may not be present. Basidiospores are allantoid, cylindrical to oblong ellipsoid, sometimes slightly curved, colorless, thin-walled, smooth, and test negative for IKI and CB (Liu et al., 2023). This type of fungi causes a brown rot. The taxonomic placement of *Adustoporiaceae* is in *Polyporales*, *Agaricomycetes*, *Agaricomycotina*, and *Basidiomycota*. Six genera are recognized in *Adustoporiaceae*, namely *Adustoporia*, *Amyloporia*, *Austroporia*, *Lentoporia*, *Resinoporia*, and *Rhodonina* (Liu et al., 2023). The genera *Adustoporia*, *Lentoporia*, and *Resinoporia* were recently created by Audet (2017 b,c,d,e), followed by the proposal of new families *Adustoporiaceae*, *Amyloporiaceae*, *Lentoporiaceae*, and *Rhodoniaceae* in 2018 (Audet et al. 2018 a,b,c,d). In phylogenetic analyses, these six genera were found to be closely related, sharing similar characteristics such as basidiocarps that are resupinate to effused-reflexed, generative hyphae with clamp connections, and basidiospores that are allantoid or cylindrical to oblong-ellipsoid in shape. Previously, these genera were often grouped under *Antrodia* s.l.. While they could be distinguished at the genus level, they could not be separated at the family level based on morphological characters and phylogenetic analysis. Therefore, only the family *Adustoporiaceae* is supported based on nomenclatural priority, with *Amyloporiaceae*, *Lentoporiaceae*, and *Rhodoniaceae* considered synonyms of *Adustoporiaceae* (Liu et al., 2023).

References

- Audet S. 2017a – New genera and new combinations in *Antrodia* sl or *Polyporus* sl, or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 1, 1.
- Audet S. 2017b – New genera and new combinations in *Antrodia* sl or *Polyporus* sl, or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 7, 1-2.
- Audet S. 2017c – New genera and new combinations in *Antrodia* sl or *Polyporus* sl, or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 11, 1.
- Audet S. 2018b – New genera and new combinations in *Antrodia* s.l. or *Polyporus* s.l., or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 12, 1–6.
- Audet S. 2018c – New genera and new combinations in *Antrodia* s.l. or *Polyporus* s.l., or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 13, 1–6.
- Audet S. 2018d – New genera and new combinations in *Antrodia* s.l. or *Polyporus* s.l., or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 15, 1–4.
- Audet S. 2018e – New genera and new combinations in *Antrodia* s.l. or *Polyporus* s.l., or new families in the *Polyporales*. *Mushrooms Nomencl* Nov 17, 1–5.
- Audet, S. 2018a – *Mushrooms Nomenclatural Novelties*. Available online: <http://www.indexfungorum.org/Publications/PDF/Mushrooms%20nomenclatural%20novelties%20no.%2012.pdf> (accessed on 10 November 2023).

Liu S, Chen YY, Sun YF, He XL, et al. 2023 – Systematic classification and phylogenetic relationships of the brown-rot fungi within the *Polyporales*. *Fungal diversity* 118(1), 1–94.

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