

## Mushrooms nomenclatural novelties no. 11

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**Adustoporia** Audet, gen.nov.

**IF553972**

Differt from *Antrodia* s. str. by only resupinate basidiomes, by its pale brown pore surface when fresh, by lack of false skeletocystidia (ends of skeletal hyphae penetrating hymenium), by smaller basidia around 15-22 x 4-5  $\mu\text{m}$ , by smaller suballantoid basidiospores around 4-6 x 1-2  $\mu\text{m}$  with no tapering distal end and from *Amyloporia* s. str. by no yellow basidiome, by a different hyphal system, by inamyloid skeletal hyphae and by the not similar cultural characteristics with *A. xantha* and *A. alpina*.

Holotype : *Polyporus sinuosus* Fr., *Syst. mycol.* (Lundae) 1: 381 (1821).

Comment: The new genus is supported by the molecular analyses in Ortiz-Santana et al. 2013 (*Mycologia* 105 (6): 1391-1411), Spirin et al. 2015 (*Fungal Biology* 119 (12): 1291-1310) and Binder et al. 2013 (*Mycologia* 105 (6) : 1350-1373).

Dai & Penttilä 2006 bring a new taxon name *Antrodia hingganensis* very close to *Antrodia sinuosa* differing by the smaller pores size (3-5 per mm), its basidia narrower (15–25 x 4–5  $\mu\text{m}$ ), smaller basidiospores (4-5.4 x 1.1-1.5  $\mu\text{m}$ ) and some others distinctions. Specimens under *Antrodia* sp. 1 (Dai 1996) correspond to the taxon name *A. hingganensis*. However, Dai & Niemelä 2002 report that some specimens of *A. sinuosa* were treated as *Antrodia* sp. 1 (Dai 1996) because of their smaller pores (3-5 per mm) but after studying more material it turned out that the pore size of the species is variable in China. Also, in their paper Dai & Penttilä 2006 didn't compare with the holotype of *Antrodia sinuosa* under *Polyporus sinuosus* by Fries who is located at the Museum of Evolution Herbarium (UPS) : GUID :UPS :BOT : F-175119. This comparison is absolutely necessary for a serious study because the taxon name *Antrodia hingganensis* is reported very close to *Antrodia sinuosa*. To finish, some ITS sequences from Genbank originated from China and Finland including the holotype collection of *hingganensis* (KC595893) don't show 2 species. For these reasons, the combination or the synonymy were not made. Some collections under *A. sinuosa* from the paper Dai & Penttilä 2006 need to be sequenced with some collections very near or from the locality of the holotype of *Polyporus sinuosus* to resolved that question. Also, the holotype *Polyporus sinuosus* need to be studied.

Concerning the ITS sequence *Antrodia odora* EU232194 from Genbank (is a misidentification) who matched with others sequence of *Antrodia sinuosa*. The name *Antrodia odora* is a taxonomic synonym of *Skeletocutis odora* who is a white-rot fungus.

Rajchenberg et al. (2011) transfer *sinuosa* into *Amyloporia* but based on DNA phylotree low support.

The text and latin words have been revised by Jean-Marie Pirlot and acknowledged here.

Etymology : the name is derived from latin *Adustus*= referring to the pale brown pore surface when fresh and *poria*= resupinate polypores.

Gender : feminine

*Adustoporia sinuosa* (Fr.) Audet, comb. nov.

**IF553973**

Basionym : *Polyporus sinuosus* Fr., *Syst. mycol.* (Lundae) 1: 381 (1821).