Mushrooms nomenclatural novelties no. 11

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Adustoporia Audet, gen.nov.

Differ 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 µm, by smaller subelliptoid basidiospores around 4-6 x 1-2 µm 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 µm), smaller basidiospores (4-5.4 x 1.1-1.5 µm) 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.

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