Mushrooms nomenclatural novelties no. 14

Effectively published 2018-02-09 06:29:35 (ISSN 2560-9548)

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Fibroporiaceae Audet, fam. nov.

IF554248

Basidiomata annual, resupinate or pileate (flabelliform to dimidiate), often widely effused, margin often fimbriate with rhizomorphs. Pore surface white to apricot-orange or lemon yellow to curry buff when fresh, pores circular to angular, dissepiments thin, entire to slightly lacerate. Subiculum soft and cottony, white to apricot-orange. Hyphal system monomitic to dimitic, generative hyphae mostly with clamps and thin-walled, occasionally thick-walled, rarely thick-walled with simple septa, skeletal hyphae dominant in subiculum and rhizomorphs, solid to thick-walled, rarely dichotomously branched, IKI–, CB–.

Cystidia absent, cystidioles present or absent. Basidiospores oblong to broadly ellipsoid, slightly thick-walled, hyaline, smooth, uninucleated, IKI–, CB–. Grows on angiosperm or gymnosperm wood. Causing brown decay. Nuclear behavior normal and mating system tetrapolar heterothallic (Fibroporia).

Holotype : *Fibroporia* Parmasto, Consp. System. Corticiac. (Tartu): 176, 1968.

Other genus accepted in this family: Pseudofibroporia Yuan Y. Chen, B.K. Cui & Y.C. Dai, in Chen, Wu, Wang & Cui, Mycol. Progr. 16(5): 528 (2017).

Comment : Only by RPB1, the family Fibroporiaceae based on some species of Fibroporia (4) is on another clade than Adustoporiaceae, Amyloporiaceae, Lentoporiaceae and Rhodoniaceae in bayasian analyses and also by alignment with unpublish phylotree. With multi loci Pseudofibroporia was suggested as the closest relative of Fibroporia from Chen et al. paper 2017. See personal phylotree below about the support of this new family.

Table 2 from figure 2

Taxon	Phylotree	SSU (18S) Genbank
Adustoporia sinuosa	Asinu6786	AY336786
Amyloporia xantha	Axantha5919	KR605919
Fibroporia albicans	Falb0524	KU550524
Fibroporia bambusae	Fbamb0527	KU550527
Fibroporia bohemica	Fbohe0529	KU550529
Fibroporia ceracea	Fcer0530	KU550530
Fibroporia citrina	Fcit0533	KU550533
Fibroporia radiculosa	Fradi0538	KU550538
Fibroporia vaillantii	Avail8583	AJ488583
Fomitopsis pinicola	Fpinic5858	KR605858
Lentoporia carbonica	Acarb9059	U59059
Pseudofibroporia citrinella	Pcitr0540	KU550540

Table 6 from figure 6

		Genbank	
Taxon	Phylotree	LSU	RPB2
Adustoporia sinuosa	Asinu5070	KC585070	KT895894
Amyloporia carbonica	Acarb7844	AF287844	AY218470
Amyloporia subxantha	Asubx8826	KT968826	KT895897
Amyloporia xantha	Axant2284	EU232284	KP134912
Cerrena unicolor	Cunic5209	KP135209	KP134968
Fibroporia albicans	Falb0485	KU550485	KR610838
Fibroporia bambusae	Fbamb0488	KU550488	KU55054
Fibroporia ceracea	Fcera0490	KU550490	KU550547
Fibroporia citrina	Fcit0492	KU550492	KU550551
Fibroporia gossypium	Agossy2298	EU232298	KU550550
Fibroporia radiculosa	Fradic5167	KC585167	KT895899
Postia rancida	Pranc0999	KX900999	KX901242
Pseudofibroporia citrinella	Pscit0500	KU550500	KU550556
Rhodonia placenta	Pplac2285	KC585223	KT893746

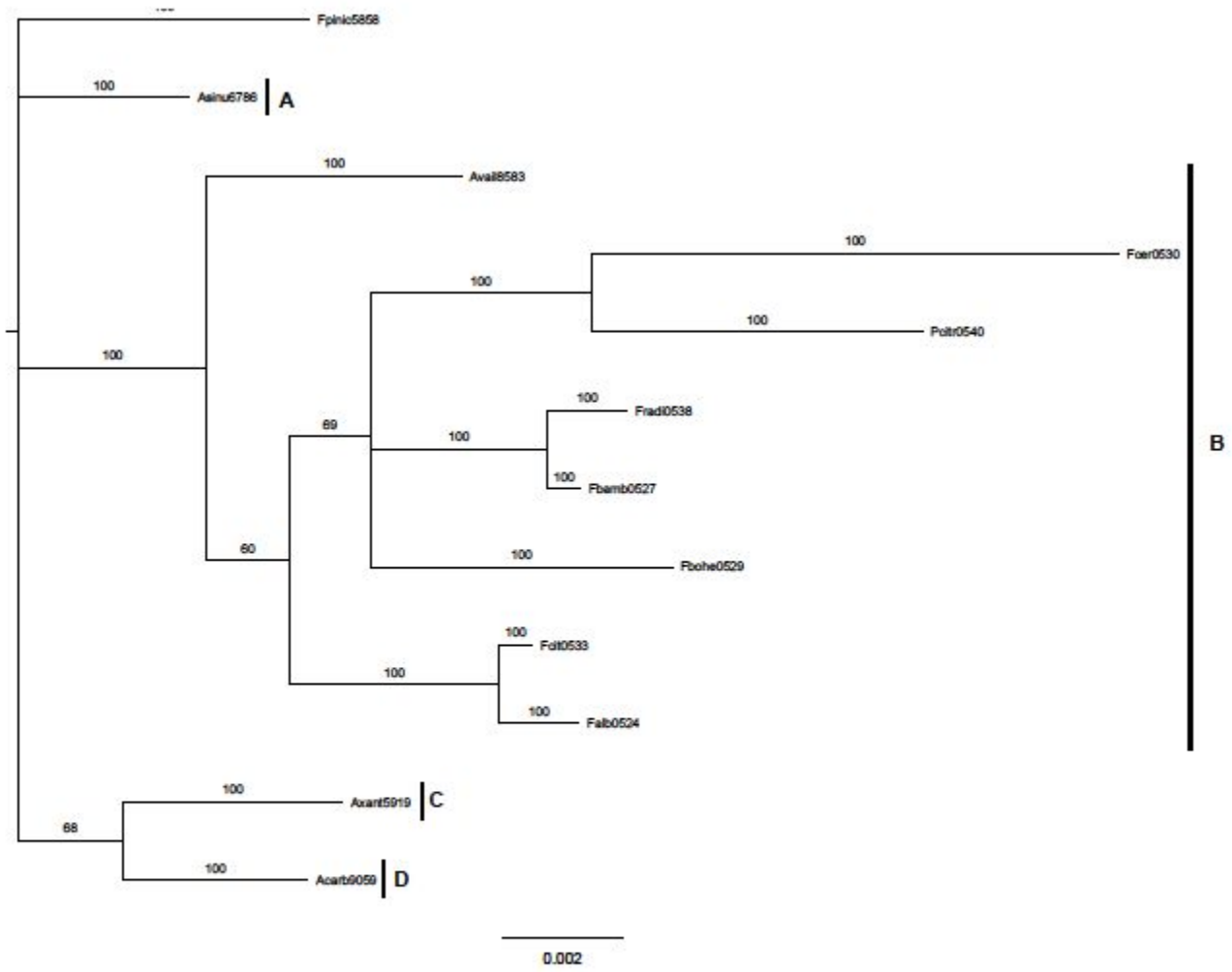

Figure 2: Strict consensus phylotree of small subunit ribosomal RNA gene (18S) calculated by the MrBayes software (Ronquist et al. 2015; 1 000 000 generations).
A: *Adustoporiaceae*; B: *Fibroporiaceae*; C: *Amyloporiaceae*; D: *Lentoporiaceae*; outgroup: *Fpinic*5858

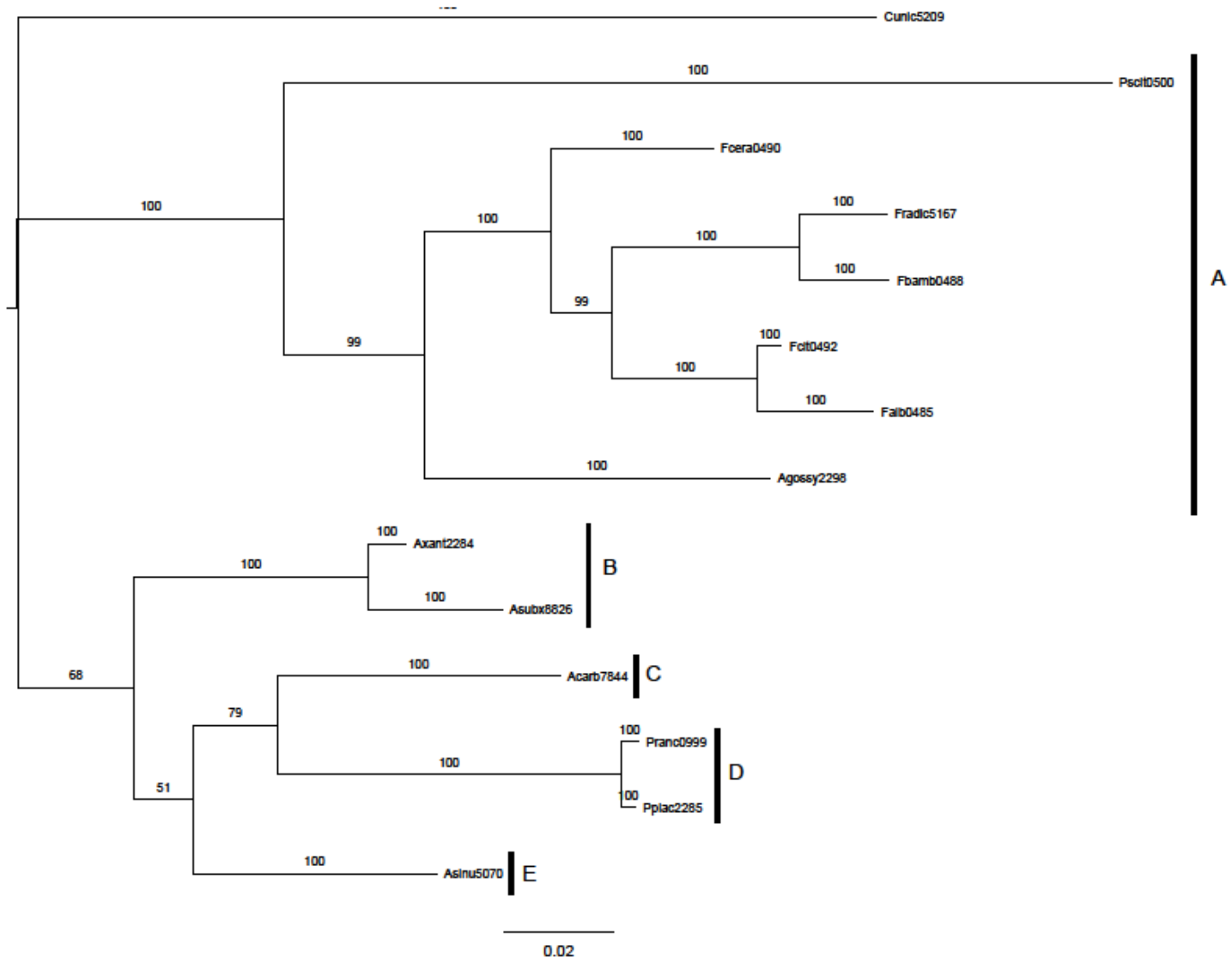

Figure 6: Strict consensus phylotree of LSU +RPB2 calculated by the MrBayes software (Ronquist et al. 2015; 1 000 000 generations).
A: *Fibroporiaceae*; B: *Amyloporiaceae*; C: *Lentoporiaceae*; D: *Rhodoniaceae;* E: *Adustoporiaceae*; outgroup: *Cunic*5209