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ORIGINAL ARTICLE

Polypore diversity in North America with an annotated checklist

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Abstract Profound changes to the taxonomy and classification of polypores have occurred since the advent of molecular phylogenetics in the 1990s. The last major monograph of North American polypores was published by Gilbertson and Ryvarden in 1986–1987. In the intervening 30 years, new species, new combinations, and new records of polypores were reported from North America. As a result, an updated checklist of North American polypores is needed to reflect the polypore diversity in there. We recognize 492 species of polypores from 146 genera in North America. Of these, 232 species are unchanged from Gilbertson and Ryvarden's monograph, and 175 species required name or authority changes. In addition, 40 new species and 45 new records published since that monograph are included in the checklist. Among the 492 species of polypores, 486 species from 143 genera belong to 11 orders, while six other species from three genera have uncertain taxonomic position at the order level. Three orders, viz. Polyporales, Hymenochaetales and Russulales, accommodate most of polypore species (93.7 %) and genera (88.8 %). We hope that this updated checklist will inspire future studies in the polypore mycota of North America and contribute to the diversity and systematics of polypores worldwide.

Keywords Basidiomycota · Phylogeny · Taxonomy · Wood-decaying fungus

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Introduction

Polypores are an important group of wood-decaying basidiomycete fungi with poroid hymenophores. Although polyphyletic (Hibbett et al. 2007), they share many ecological characteristics and morphological features. Many polypores are able to fully decompose lignocellulose, and thus play an essential role in nutrient recycling in forest ecosystems. Economically, some polypores are serious forest pathogens (Woodward et al. 1998; Dai 2007; Rajchenberg and Robledo 2013), whereas others are valued for their medicial properties (Dai et al. 2009).

Polypores have been studied for hundreds of years throughout the world by many researchers. In North America, WA Murrill was a pioneering mycologist who described and clarified the diversity of polypores in a series of publications (Murrill 1902, 1903a, b, c, d, 1904a, b, c, d, 1905a, b, c, d, 1907, 1908). Later, Overholts (1953) and Lowe (1957, 1966, 1975) continued and expanded Murrill's studies. Gilbertson and Ryvarden (1986, 1987) summarized the mycota of North American polypores and used additional characters, such as hyphal structure, cultural and mating traits, chemical reactions, and decay type in their species

descriptions. Recent molecular phylogenetic studies have resulted in critical changes to a classification system that was based primarily on morphology (Hibbett et al. 2007). Therefore, a checklist summarizing the current knowledge of polypore diversity in North America is needed to capture the recent advances in taxonomy of polypores based on morphological and molecular evidence. This checklist will compliment recent polypore diversity assessments reported from Europe (Ryvarden and Melo 2014) and China (Dai 2012).

Materials and methods

We verified the current taxonomic status of 412 species from 96 genera included in Gilbertson and Ryvarden (1986, 1987), using the Index Fungorum database (http://www.indexfungorum.org/). All current and relevant papers addressing the taxonomy and phylogeny of polypores were consulted and selected herbarium specimens were examined to compile this checklist.

Among the examined North American specimens, one is identified as *Ganoderma martinicense* Welti & Courtec. This polypore species is a new record for North America and is described here based on a specimen from the United States. Sections of this specimen were stained in cotton blue (CB), Melzer's reagent (IKI) and 5 % potassium hydroxide (KOH) for examination using a Nikon Eclipse 80i microscope under phase contrast illumination at 1000 × magnification. All measurements from sections were taken under CB. Thirty basidiospores were measured with the exclusion of the turgid vesicular appendix; when presenting their size variation, 5 % of the measurements from each end of the range are given in parentheses. Microscopic illustrations were drawn with the aid of a drawing tube. In the description, IKI– stands for neither amyloid nor dextrinoid, CB+ for cyanophilous, L for mean basidiospore length (arithmetic average of all basidiospores), W for mean basidiospore width (arithmetic average of all basidiospores), and Q for L/W ratio.

Results and discussion

Ganoderma martinicense Welti & Courtec., Fungal Diversity 43(1): 120 (2010) (Fig. 1)

Basidiocarps Annual, stipitate, laterally inserted, corky to woody, light and soft texture upon drying. *Pilei* usually kidney-shaped to hemicircular, projecting up to 12 cm, 17 cm wide and 5 cm thick. *Pileal surface* laccate, yellow, globally plane to slightly concave, no concentrical zones; *margin* white when fresh, becoming pale yellow upon drying, obtuse. *Stipe* reddish brown near the base. *Pore surface* white when fresh, turning brown to dark brown when bruised, brown when dry; *pores* more or less round, 4–5 per mm; dissepiments thick, entire to slightly lacerate. *Context* cinnamon brown, corky, bearing distinct concentric growth zones, black melanoid band absent, up to 4.5 cm thick at base. *Tubes* french grey, woody, up to 0.5 mm long.

Hyphal system Trimitic; generative hyphae mostly bearing clamp connections, occasionally with simple septa; skeletal hyphae occasionally with simple septa; all hyphae IKI–, CB+; tissues darkening in KOH.

Cutis Composed of a vertical and closely-packed palisade of cells; cells clavate, yellowish to pale brown, thick-walled, occasionally with blunt outgrowth and protuberance in the apical or lateral parts, moderately amyloid at maturity, 30–45 × 5–9 μm.

Context Generative hyphae frequent near the pileal surface, hyaline, thin-walled, mostly bearing clamp connections, occasionally with simple septa, 2.4–3 μm in diam; skeletal hyphae dominant, pale yellowish brown, thick-walled to subsolid, arboriform, interwoven, occasionally with simple septa, 2.5–6 μm in diam; binding hyphae abundant, pale yellowish brown, thick-walled with a narrow lumen to subsolid, frequently branched, tortuous, interwoven, 1.2–2.5 μm in diam.

Tubes Generative hyphae infrequent, hyaline, thin-walled, usually bearing clamp connections, unbranched or with a few branches at the distal end, 2–2.5 μm in diam; skeletal hyphae dominant, pale brown to brown, thick-walled with a medium or narrow lumen to subsolid, frequently branched, strongly interwoven, 2.3–4 μm in diam; binding hyphae brownish yellow, thick-walled to almost solid, frequently branched, interwoven, 1–2.5 μm in diam. *Basidia* barrel-shaped, yellowish to pale brown, with a clamp connection at the base and four sterigmata, 13–18 × 5–7 μm; *basidioles* in shape similar to basidia, 14–20 × 5–9 μm.

Basidiospores Mostly broadly ellipsoid at maturity, indistinctly truncate, yellowish to pale brown, IKI–, CB+, double-walled, exospore smooth, endospore with coarse echinulate, (8–)9–11.2(−11.5) × (5–)5.3–6.5(−7.0) μm, L = 9.41 μm, W = 5.94 μm, Q = 1.58.

Specimen examined USA, Illinois, Champaign County, Campus of the University of Illinois at Urbana-Champaign, on the base of living angiosperm tree, 1 September 2014, He 2240 (BJFC 018860).

This checklist includes 492 polypore species representing 146 genera from North America (Table 1). Using Gilbertson and Ryvarden's (1986, 1987) monograph on North American polypores as a starting point for the checklist, 232 species were pulled unchanged from the monograph, whereas 175

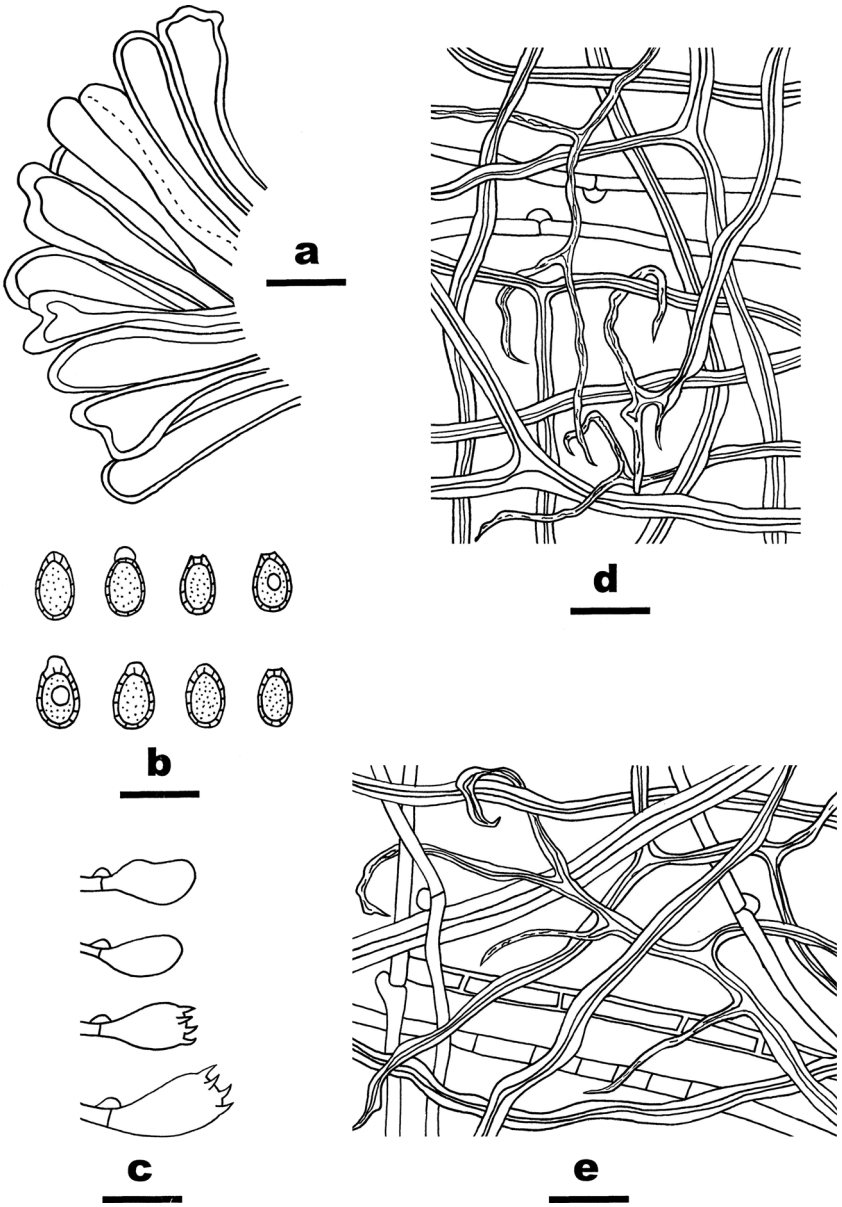

Fig. 1 Microscopic structures of *Ganoderma martinicense* (drawn from He 2240). **a**. Apical cells from the cuticle. **b**. Basidiospores. **c**. Basidia and basidioles. **d**. Hyphae from trama. **e**. Hyphae from context. Scale bars: a–e = 10 μm

species required a name change or authority correction. Additions to the monograph include 40 new species and 45 new records. Of the 175 changes or corrections, some involved simply correcting the authority citation to follow Index Fungorum. Name changes for most species were the result of their tranfers to other genera. The generic concepts in Gilbertson and Ryvarden (1986, 1987) are broad and based on morphological characters, but molecular phylogenetic studies often recognized and supported narrowly defined genera. Based on the studies of many researchers, species of *Phellinus* Quél. were transferred to *Fomitiporia* Murrill, *Fulvifomes* Murrill, *Fuscoporia* Murrill, *Phellinidium* (Kotl.) Fiasson & Niemelä, *Phellinopsis* Y.C. Dai, *Phellopilus* Niemelä, T. Wagner & M. Fisch., *Porodaedalea* Murrill, *Sanghuangporus* Sheng H. Wu, L.W. Zhou & Y.C. Dai and *Tropicoporus* L.W. Zhou, Y.C. Dai & Sheng H. Wu. Similarly, some species in *Inonotus* P. Karst. were moved into genera such as *Inocutis* Fiasson & Niemelä, *Inonotopsis* Parmasto, *Mensularia* Lázaro Ibiza, *Onnia* P. Karst. and *Pseudoinonotus* T. Wagner & M. Fisch. Some North American species in Gilbertson and Ryvarden (1986, 1987) were incorrectly based on European species concepts and were reidentified after phylogenetic studies of global samples. For example, reports of *Phellinus laevigatus* (P. Karst.) Bourdot & Galzin and *Phellinus pomaceus* (Pers.) Maire in North America are incorrect and should be attributed instead to *Phellinus betulinus* (Murrill) Parmasto and *Phellinus pomaceoides* Vlasák & L.W. Zhou, respectively. Other species names such as *Heterobasidion annosum* (Fr.) Bref., *Hydnochaete tabacina* (Berk. & M.A. Curtis) Ryvarden, and *Phellinus occidentalis*

Table 1 A checklist of North American polypores

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
1	*Abortiporus biennis* (Bull.) Singer [a]			Polyporales
2	*Albatrellus arizonicus* Gilb. [b]		Gilbertson (1991)	Russulales
3	*Albatrellus avellaneus* Pouzar [a]			Russulales
4	*Albatrellus confluens* (Alb. & Schwein.) Kotl. & Pouzar [a]			Russulales
5	*Albatrellus cristatus* (Schaeff.) Kotl. & Pouzar [a]			Russulales
6	*Albatrellus ellisii* (Berk.) Pouzar [a]			Russulales
7	*Albatrellus flettii* Morse ex Pouzar [a]			Russulales
8	*Albatrellus ovinus* (Schaeff.) Kotl. & Pouzar [d]	*Albatrellus ovinus* (Schaeff.) Murrill	Index Fungorum	Russulales
9	*Albatrellus skamanius* (Murrill) Pouzar [a]			Russulales
10	*Albatrellus subrubescens* (Murrill) Pouzar [a]			Russulales
11	*Amylocystis lapponica* (Romell) Bondartsev & Singer [d]	*Amylocystis lapponica* (Romell) Singer	Index Fungorum	Polyporales
12	*Amylosporus bracei* (Murrill) A. David & Rajchenb.[c]		Vlasák et al. (2011)	Russulales
13	*Amylosporus campbellii* (Berk.) Ryvarden [a]			Russulales
14	*Anomoloma flavissimum* (Niemelä) Niemelä, K.H. Larss. & Y.C. Dai [c]		Niemelä (1994)	Polyporales
15	*Anomoloma albolutescens* (Romell) Niemelä & K.H. Larss. [d]	*Anomoporia albolutescens* (Romell) Pouzar	Niemelä et al. (2007)	Polyporales
16	*Anomoloma myceliosum* (Peck) Niemelä & K.H. Larss. [d]	*Anomoporia myceliosa* (Peck) Pouzar	Niemelä et al. (2007)	Polyporales
17	*Anomoporia bombycina* (Fr.) Pouzar [a]			Polyporales
18	*Anomoporia kamtschatica* (Parmasto) Bondartseva [c]		Niemelä (1994)	Polyporales
19	*Antrodia albobrunnea* (Romell) Ryvarden [a]			Polyporales
20	*Antrodia alpina* (Litsch.) Gilb. & Ryvarden [a]			Polyporales
21	*Antrodia carbonica* (Overh.) Ryvarden & Gilb. [a]			Polyporales
22	*Antrodia cincta* Spirin, Vlasák & Miettinen [b]		Spirin et al. (2015b)	Polyporales
23	*Antrodia cretacea* Runnel, Spirin & Lõhmus [b]		Spirin et al. (2015b)	Polyporales
24	*Antrodia favescens* (Schwein.) Vlasák & Spirin [b]		Spirin et al. (2013)	Polyporales
25	*Antrodia ferox* (Long & D.V. Baxter) Gilb. & Ryvarden [a]			Polyporales
26	*Antrodia heteromorpha* (Fr.) Donk [d]	*Antrodia albida* (Fr.) Donk	Spirin et al. (2013)	Polyporales
27	*Antrodia ignobilis* Spirin & Vlasák [b]		Spirin et al. (2015b)	Polyporales
28	*Antrodia juniperina* (Murrill) Niemelä & Ryvarden [a]			Polyporales
29	*Antrodia ladiana* Spirin & Runnel [b]		Spirin et al. (2015b)	Polyporales
30	*Antrodia macra* (Sommerf.) Niemela [c]		Niemelä (1985a)	Polyporales
31	*Antrodia madronae* Vlasák & Ryvarden [b]		Vlasák et al. (2012)	Polyporales
32	*Antrodia malicola* (Berk. & M.A. Curtis) Donk [a]			Polyporales
33	*Antrodia mappa* (Overh. & J. Lowe) Miettinen & Vlasák [d]	*Oligoporus mappus* (Overh. & J. Lowe) Gilb. & Ryvarden	Spirin et al. (2013)	Polyporales
34	*Antrodia oleracea* (R.W. Davidson & Lombard) Ryvarden [a]			Polyporales
35	*Antrodia pini-cubensis* Vampola, Kotlaba & Pouzar [c]		Spirin et al. (2015b)	Polyporales
36	*Antrodia serialiformis* Kout & Vlasák [b]		Kout and Vlasák (2009)	Polyporales
37	*Antrodia serialis* (Fr.) Donk [a]			Polyporales
38	*Antrodia sinuosa* (Fr.) P. Karst. [a]			Polyporales
39	*Antrodia sitchensis* (D.V. Baxter) Gilb. & Ryvarden [a]			Polyporales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
40	*Antrodia sordida* Ryvarden & Gilb. [a]			Polyporales
41	*Antrodia variiformis* (Peck) Donk [a]			Polyporales
42	*Antrodia xantha* (Fr.) Ryvarden [a]			Polyporales
43	*Antrodiella americana* Ryvarden & Gilb.[a]			Polyporales
44	*Antrodiella incrustans* (Berk. & M.A. Curtis) Ryvarden [a]			Polyporales
45	*Antrodiella leucoxantha* (Bres.) Miettinen & Niemelä [d]	*Antrodiella semisupina* (Berk. & M.A. Curtis) Ryvarden	Miettinen et al. (2006)	Polyporales
46	*Antrodiella pachycheiles* (Ellis & Everh.) Miettinen & Niemelä [d]	*Antrodiella semisupina* (Berk. & M.A. Curtis) Ryvarden	Miettinen et al. (2006)	Polyporales
47	*Antrodiella romellii* (Donk) Niemelä [a]			Polyporales
48	*Antrodiella semisupina* (Berk. & M.A. Curtis) Ryvarden [a]			Polyporales
49	*Antrodiella thompsonii* Vampola & Pouzar [b]		Vampola and Pouzar (1996)	Polyporales
50	*Antrodiella versicutis* (Berk. & M.A. Curtis) Gilb. & Ryvarden [a]			Polyporales
51	*Aporpium caryae* (Schwein.) Teixeira & D.P. Rogers [a]			Auriculariales
52	*Auriporia aurea* (Peck) Ryvarden [a]			Polyporales
53	*Bjerkandera adusta* (Willd.) P. Karst. [a]			Polyporales
54	*Bjerkandera atroalba* (Rick) Westphalen & Tomšovský [d]	*Tyromyces humeana* (Murrill) J. Lowe	Westphalen et al. (2015)	Polyporales
55	*Bjerkandera fumosa* (Pers.) P. Karst. [a]			Polyporales
56	*Boletopsis grisea* (Peck) Bondartsev & Singer [d]	*Boletopsis subsquamosa* (Fr.) Kotl. & Pouzar	Watling and Milne (2008)	Thelephorales
57	*Boletopsis perplexa* Watling & J. Milne [c]		Watling and Milne (2008)	Thelephorales
58	*Boletopsis smithii* K.A. Harrison [a]			Thelephorales
59	*Bondarzewia berkeleyi* (Fr.) Bondartsev & Singer [a]			Russulales
60	*Bondarzewia mesenterica* (Schaeff.) Kreisel [d]	*Bondarzewia montana* (Quél.) Singer	Index Fungorum	Russulales
61	*Bridgeoporus nobilissimus* (W.B. Cooke) T.J. Volk, Burds. & Ammirati [d]	*Oxyporus nobilissimus* W.B. Cooke	Burdsall et al. (1996)	Incertae sedis
62	*Byssoporia terrestris* (DC.) M.J. Larsen & Zak [d]	*Byssoporia terrestre* (DC.) M.J. Larsen & Zak	Index Fungorum	Atheliales
63	*Ceriporia alachuana* (Murrill) Hallenb. [a]			Polyporales
64	*Ceriporia excelsa* S. Lundell ex Parmasto [a]			Polyporales
65	*Ceriporia ferrugineocincta* (Murrill) Ryvarden [a]			Polyporales
66	*Ceriporia purpurea* (Fr.) Donk [a]			Polyporales
67	*Ceriporia reticulata* (Hoffm.) Domański [d]	*Ceriporia reticulata* (Pers.) Domański	Index Fungorum	Polyporales
68	*Ceriporia spissa* (Schwein. ex Fr.) Rajchenb. [a]			Polyporales
69	*Ceriporia tarda* (Berk.) Ginns [a]			Polyporales
70	*Ceriporia viridans* (Berk. & Broome) Donk [a]			Polyporales
71	*Ceriporia xylostromatoides* (Berk.) Ryvarden [d]	*Ceriporia xylostromatoides* (Berk.) Ryvarden & Johansen	Index Fungorum	Polyporales
72	*Ceriporiopsis balaenae* Niemelä [b]		Niemelä (1985a)	Polyporales
73	*Ceriporiopsis carnegieae* (D.V. Baxter) Gilb. & Ryvarden [a]			Polyporales
74	*Ceriporiopsis cystidiata* C.L. Leite, G.V.C. Gonç. & Ryvarden [c]		Vlasák et al. (2011)	Polyporales
75	*Ceriporiopsis gilvescens* (Bres.) Domański [a]			Polyporales
76	*Ceriporiopsis pseudoplacenta* Vlasák & Ryvarden [b]		Vlasák et al. (2012)	Polyporales
77	*Cerrena gilbertsonii* Ryvarden [b]		Ryvarden (2013)	Polyporales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
78	*Cerrena unicolor* (Bull.) Murrill [a]			Polyporales
79	*Cinereomyces lindbladii* (Berk.) Jülich [d]	*Diplomitoporus lindbladii* (Berk.) Gilb. & Ryvarden	Index Fungorum	Polyporales
80	*Climacocystis borealis* (Fr.) Kotl. & Pouzar [a]			Polyporales
81	*Coltricia cinnamomea* (Jacq.) Murrill [d]	*Coltricia cinnamomea* (Pers.) Murrill	Index Fungorum	Hymenochaetales
82	*Coltricia focicola* (Berk. & M.A. Curtis) Murrill [a]			Hymenochaetales
83	*Coltricia montagnei* (Fr.) Murrill [a]			Hymenochaetales
84	*Coltricia perennis* (L.) Murrill [d]	*Coltricia perennis* (Fr.) Murrill	Index Fungorum	Hymenochaetales
85	*Coltriciella dependens* (Berk. & M.A. Curtis) Murrill [a]			Hymenochaetales
86	*Coltriciella oblectabilis* (Lloyd) Kotl., Pouzar & Ryvarden [a]			Hymenochaetales
87	*Coriolopsis byrsina* (Mont.) Ryvarden [a]			Polyporales
88	*Coriolopsis floccosa* (Jungh.) Ryvarden [d]	*Coriolopsis rigida* (Berk. & Mont.) Murrill	Index Fungorum	Polyporales
89	*Coriolopsis gallica* (Fr.) Ryvarden [a]			Polyporales
90	*Coriolopsis hostmannii* (Berk.) Ryvarden [c]		Vlasák et al. (2011)	Polyporales
91	*Coriolopsis polyzona* (Pers.) Ryvarden [c]		Vlasák et al. (2011)	Polyporales
92	*Cryptoporus volvatus* (Peck) Shear [a]			Polyporales
93	*Cyanotrama rimosa* (Murrill) Ghob.-Nejh. & Y.C. Dai [d]	*Diplomitoporus rimosus* (Murrill) Gilb. & Ryvarden	Ghobad-Nejhad and Dai (2010)	Hymenochaetales
94	*Daedalea americana* M.L. Han, Vlasák & B.K. Cui [b]		Han et al. (2015)	Polyporales
95	*Daedalea quercina* (L.) Pers. [d]	*Daedalea quercina* Fr.	Index Fungorum	Polyporales
96	*Daedaleopsis confragosa* (Bolton) J. Schröt. [a]			Polyporales
97	*Datronia mollis* (Sommerf.) Donk [a]			Polyporales
98	*Datronia stereoides* (Fr.) Ryvarden [a]			Polyporales
99	*Datroniella scutellata* (Schwein.) B.K. Cui, Hai J. Li & Y.C. Dai [d]	*Datronia scutellata* (Schwein.) Gilb. & Ryvarden	Li et al. (2014)	Polyporales
100	*Diacanthodes novoguineensis* (Henn.) O. Fidalgo [a]			Polyporales
101	*Dichomitus campestris* (Quél.) Domański & Orlicz [a]			Polyporales
102	*Dichomitus squalens* (P. Karst.) D.A. Reid [a]			Polyporales
103	*Dichomitus stenospora* Renvall & Niemelä [a]			Polyporales
104	*Diplomitoporus crustulinus* (Bres.) Domański [a]			Polyporales
105	*Diplomitoporus overholtsii* (Pilát) Gilb. & Ryvarden [a]			Polyporales
106	*Donkioporia expansa* (Desm.) Kotl. & Pouzar [a]			Polyporales
107	*Earliella scabrosa* (Pers.) Gilb. & Ryvarden [a]			Polyporales
108	*Echinodontium ballouii* (Banker) H.L. Gross [a]			Russulales
109	*Echinodontium tinctorium* (Ellis & Everh.) Ellis & Everh. [a]			Russulales
110	*Echinoporia aculeifera* (Berk. & M.A. Curtis) Ryvarden [a]			Hymenochaetales
111	*Emmia latemarginata* (Durieu & Mont.) Zmitr., Spirin & Malysheva [d]	*Oxyporus latemarginatus* (Durieu & Mont.) Donk	Zmitrovich et al. (2006)	Incertae sedis
112	*Erastia salmonicolor* (Berk. & M.A. Curtis) Niemelä & Kinnunen [d]	*Hapalopilus salmonicolor* (Berk. & M.A. Curtis) Pouzar	Niemelä et al. (2005)	Polyporales
113	*Favolus tenuiculus* P. Beauv. [d]	*Polyporus tenuiculus* (P. Beauv.) Fr.	Index Fungorum	Polyporales
114	*Fibroporia gossypium* (Speg.) Parmasto [d]	*Antrodia gossypina* (Speg.) Ryvarden	Kim et al. (2001)	Polyporales
115	*Fibroporia radiculosa* (Peck) Parmasto [d]	*Antrodia radiculosa* (Peck) Gilb. & Ryvarden	Index Fungorum	Polyporales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
116	*Fibroporia vaillantii* (DC.) Parmasto [d]	*Antrodia vaillantii* (Fr.) Ryvarden	Index Fungorum	Polyporales
117	*Fistulina hepatica* (Schaeff.) With. [d]	*Fistulina hepatica* Schaeff.	Index Fungorum	Agaricales
118	*Fomes fasciatus* (Sw.) Cooke [a]			Polyporales
119	*Fomes fomentarius* (L.) Fr. [d]	*Fomes fomentarius* (L.) Kickx.	Index Fungorum	Polyporales
120	*Fomitella supina* (Sw.) Murrill [a]			Polyporales
121	*Fomitiporia apiahyna* (Speg.) Vlasák & Kout [c]		Vlasák et al. (2011)	Hymenochaetales
122	*Fomitiporia bakeri* (Murrill) Vlasák & Kout [c]		Vlasák and Kout (2011)	Hymenochaetales
123	*Fomitiporia calkinsii* (Murrill) Vlasák & Kout [c]		Vlasák and Kout (2011)	Hymenochaetales
124	*Fomitiporia cupressicola* Amalfi, Raymundo, Valenz. & Decock [b]		Amalfi et al. (2012)	Hymenochaetales
125	*Fomitiporia dryophila* Murrill [d]	*Phellinus punctatus* (Fr.) Pilát	Decock et al. (2007)	Hymenochaetales
126	*Fomitiporia juniperina* (Murrill) T. Hattori & Y. Ota [c]		Ota et al. (2014)	Hymenochaetales
127	*Fomitiporia langloisii* Murrill [d]	*Phellinus punctatus* (Fr.) Pilát	Decock et al. (2007)	Hymenochaetales
128	*Fomitiporia maxonii* Murrill [d]	*Phellinus punctatus* (Fr.) Pilát	Decock et al. (2007)	Hymenochaetales
129	*Fomitiporia robusta* (P. Karst.) Fiasson & Niemelä [d]	*Phellinus robustus* (P. Karst.) Bourdot & Galzin	Index Fungorum	Hymenochaetales
130	*Fomitiporia sonorae* (Gilb.) Y.C. Dai [d]	*Phellinus sonarae* Gilb.	Dai et al. (2001)	Hymenochaetales
131	*Fomitiporia texana* (Murrill) Nuss [d]	*Phellinus texanus* (Murrill) A. Ames	Index Fungorum	Hymenochaetales
132	*Fomitiporia tsugina* Murrill [d]	*Phellinus hartigii* (Allesch. & Schnabl) Bondartsev	Decock et al. (2007)	Hymenochaetales
133	*Fomitopsis betulina* (Bull.) B.K. Cui, M.L. Han & Y.C. Dai [d]	*Piptoporus betulinus* (Bull.) P. Karst.	Han et al. (2016)	Polyporales
134	*Fomitopsis durescens* (Overh. ex J. Lowe) Gilb. & Ryvarden [a]			Polyporales
135	*Fomitopsis epileucina* (Pilát) Gilb.& Ryvarden [c]		Ryvarden and Gilbertson (1993)	Polyporales
136	*Fomitopsis meliae* (Underw.) Gilb. & Ryvarden [a]			Polyporales
137	*Fomitopsis nivosa* (Berk.) Gilb. & Ryvarden [a]			Polyporales
138	*Fomitopsis ochracea* Ryvarden & Stokland [b]		Stokland and Ryvarden (2008)	Polyporales
139	*Fomitopsis officinalis* (Vill.) Bondartsev & Singer [a]			Polyporales
140	*Fomitopsis palustris* (Berk. & M.A. Curtis) Gilb. & Ryvarden [a]			Polyporales
141	*Fomitopsis pinicola* (Sw.) P. Karst. [a]			Polyporales
142	*Fomitopsis rosea* (Alb. & Schwein.) P. Karst. [a]			Polyporales
143	*Fomitopsis spraguei* (Berk. & M.A. Curtis) Gilb. & Ryvarden [a]			Polyporales
144	*Frantisekia fissiliformis* (Pilát) Spirin & Zmitr. [d]	*Antrodiella fissiliformis* (Phil.) Gilb. & Ryvarden	Spirin and Zmitrovich (2007)	Polyporales
145	*Fulvifomes fastuosus* (Lév.) Bondartseva & S. Herrera [d]	*Phellinus fastuosus* (Lév.) Ryvarden	Bondartseva et al. (1992)	Hymenochaetales
146	*Fulvifomes inermis* (Ellis & Everh.) Y.C. Dai [d]	*Phellinus inermis* (Ellis & Everh.) G. Cunn.	Dai (2010)	Hymenochaetales
147	*Fulvifomes johnsonianus* (Murrill) Y.C. Dai [d]	*Phellinus johnsonianus* (Murrill) Ryvarden	Dai (2010)	Hymenochaetales
148	*Fulvifomes melleoporus* (Murrill) Baltazar & Gibertoni [d]	*Phellinus melleoporus* (Murrill) Ryvarden	Baltazar and Gibertoni (2010)	Hymenochaetales
149	*Fulvifomes merrillii* (Murrill) Baltazar & Gibertoni [d]	*Phellinus merrillii* (Murrill) Ryvarden	Baltazar and Gibertoni (2010)	Hymenochaetales
150	*Fulvifomes robiniae* (Murrill) Murrill [d]	*Phellinus robineae* (Murrill) A. Ames	Index Fungorum	Hymenochaetales
151	*Fulvifomes umbrinellus* (Bres.) Y.C. Dai [d]	*Phellinus umbrinellus* (Bres.) Ryvarden	Dai (2010)	Hymenochaetales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
152	*Fuscocerrena portoricensis* (Fr.) Ryvarden [a]			Polyporales
153	*Fuscoporia callimorpha* (Lév.) Groposo, C.L. Leite & Góes-Neto [c]		Vlasák et al. (2011)	Hymenochaetales
154	*Fuscoporia contigua* (Pers.) G. Cunn. [d]	*Phellinus contiguus* (Fr.) Pat.	Index Fungorum	Hymenochaetales
155	*Fuscoporia coronadensis* (Rizzo, Gieser & Burds.) Raymundo, R. Valenz. & Cifuentes [b]		Rizzo et al. (2003)	Hymenochaetales
156	*Fuscoporia ferrea* (Pers.) G. Cunn. [d]	*Phellinus ferreus* (Pers.) Bourdot & Galzin	Index Fungorum	Hymenochaetales
157	*Fuscoporia ferruginosa* (Schrad.) Murrill [d]	*Phellinus ferruginosus* (Schrad.) Bourdot & Galzin	Index Fungorum	Hymenochaetales
158	*Fuscoporia gilva* (Schwein.) T. Wagner & M. Fisch. [d]	*Phellinus gilvus* (Schwein.) Pat.	Wagner and Fischer (2002)	Hymenochaetales
159	*Fuscoporia palomari* Vlasák & Ryvarden [b]		Vlasák et al. (2012)	Hymenochaetales
160	*Fuscoporia torulosa* (Pers.) T. Wagner & M. Fisch. [d]	*Phellinus torulosus* (Pers.) Bourdot & Galzin	Wagner and Fischer (2001)	Hymenochaetales
161	*Fuscoporia viticola* (Schwein.) Murrill [d]	*Phellinus viticola* (Schwein.) Donk	Index Fungorum	Hymenochaetales
162	*Fuscoporia wahlbergii* (Fr.) T. Wagner & M. Fisch. [d]	*Phellinus wahlbergii* (Fr.) D.A. Reid	Wagner and Fischer (2001)	Hymenochaetales
163	*Fuscoporia xerophila* Raymundo, R. Valenz. & Esqueda [b]		Raymundo et al. (2013)	Hymenochaetales
164	*Ganoderma annularis* (Fr.) Gilb. [a]			Polyporales
165	*Ganoderma applanatum* (Pers.) Pat. [a]			Polyporales
166	*Ganoderma australe* (Fr.) Pat. [c]		Yeh et al. (2000)	Polyporales
167	*Ganoderma brownii* (Murrill) Gilb. [a]			Polyporales
168	*Ganoderma colossus* (Fr.) C.F. Baker [d]	*Ganoderma colossum* (Fr.) C.F. Baker	Index Fungorum	Polyporales
169	*Ganoderma curtisii* (Berk.) Murrill [c]		Zhou et al. (2015)	Polyporales
170	*Ganoderma lobatum* (Schwein.) G.F. Atk. [a]			Polyporales
171	*Ganoderma martinicense* Welti & Courtec. [c]		current study (BJFC 018860)	Polyporales
172	*Ganoderma oregonense* Murrill [a]			Polyporales
173	*Ganoderma sessile* Murrill [c]		Zhou et al. (2015)	Polyporales
174	*Ganoderma tsugae* Murrill [a]			Polyporales
175	*Ganoderma zonatum* Murrill [a]			Polyporales
176	*Gelatoporia dichroa* (Fr.) Ginns [d]	*Gloeoporus dichrous* (Fr.) Bres.	Index Fungorum	Polyporales
177	*Gelatoporia subvermispora* (Pilát) Niemelä [d]	*Ceriporiopsis subvermispora* (Pilát) Gilb. & Ryvarden	Niemelä (1985b)	Polyporales
178	*Gilbertsonia angulopora* (M.J. Larsen & Lombard) Parmasto [d]	*Oligoporus anguloporus* (M.J. Larsen & Lombard) Gilb. & Ryvarden	Parmasto (2001)	Polyporales
179	*Globifomes graveolens* (Schwein.) Murrill [a]			Polyporales
180	*Gloeophyllum abietinum* (Bull.) P. Karst. [d]	*Gloeophyllum abietinum* (Fr.) P. Karst.	Index Fungorum	Gloeophyllales
181	*Gloeophyllum carbonarium* (Berk. & M.A. Curtis) Ryvarden [a]			Gloeophyllales
182	*Gloeophyllum mexicanum* (Mont.) Ryvarden [d]	*Gloeophyllum protractum* (Fr.) Imazeki	Kout et al. (2013)	Gloeophyllales
183	*Gloeophyllum odoratum* (Wulfen) Imazeki [d]	*Gloeophyllum odoratum* (Fr.) Imazeki	Index Fungorum	Gloeophyllales
184	*Gloeophyllum sepiarium* (Wulfen) P. Karst. [d]	*Gloeophyllum sepiarium* (Fr.) P. Karst.	Index Fungorum	Gloeophyllales
185	*Gloeophyllum striatum* (Fr.) Murrill [d]	*Gloeophyllum striatum* (Sw.) Murrill	Index Fungorum	Gloeophyllales
186	*Gloeophyllum trabeum* (Pers.) Murrill [d]	*Gloeophyllum trabeum* (Fr.) Murrill	Index Fungorum	Gloeophyllales
187	*Gloeoporus pannocinctus* (Romell) J. Erikss. [d]	*Ceriporiopsis pannocincta* (Romell) Gilb. & Ryvarden	Index Fungorum	Polyporales
188	*Gloeoporus taxicola* (Pers.) Gilb. & Ryvarden [a]			Polyporales
189	*Gloeoporus thelephoroides* (Hook.) G. Cunn. [a]			Polyporales
190	*Grifola frondosa* (Dicks.) Gray [a]			Polyporales
191	*Hapalopilus albocitrinus* (Petch) Ryvarden [a]			Polyporales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
192	*Hapalopilus croceus* (Fr.) Donk [a]			Polyporales
193	*Hapalopilus mutans* (Peck) Gilb. & Ryvarden [a]			Polyporales
194	*Hapalopilus nidulans* (Fr.) P. Karst. [a]			Polyporales
195	*Haploporus odorus* (Sommerf.) Bondartsev & Singer [d]	*Haploporus odorus* (Sommerf.) Singer	Index Fungorum	Polyporales
196	*Heterobasidion irregulare* Garbel. & Otrosina [d]	*Heterobasidion annosum* (Fr.) Bref.	Otrosina and Garbelotto (2010)	Russulales
197	*Heterobasidion occidentale* Otrosina & Garbel. [b]		Otrosina and Garbelotto (2010)	Russulales
198	*Hexagonia hydnoides* (Sw.) M. Fidalgo [a]			Polyporales
199	*Hydnopolyporus fimbriatus* (Cooke) D.A. Reid [d]	*Hydnopolyporus fimbriatus* (Fr.) D.A. Reid	Index Fungorum	Polyporales
200	*Hymenochaete iodina* (Mont.) Baltazar & Gibertoni [d]	*Cyclomyces iodinus* (Mont.) Pat.	Gomes-Silva et al. (2012)	Hymenochaetales
201	*Hymenochaete odontoides* S.H. He & Y.C. Dai [d]	*Hydnochaete tabacina* (Berk. & M.A. Curtis) Ryvarden	He and Dai (2012)	Hymenochaetales
202	*Hymenochaetopsis olivacea* (Schwein.) S.H. He & Jiao Yang [d]	*Hydnochaete olivacea* (Schwein.) Banker	Yang et al. (2016)	Hymenochaetales
203	*Hyphodontia apacheriensis* (Gilb. & Canf.) Hjortstam & Ryvarden [d]	*Schizopora apacheriensis* (Gilb. & Canf.) Gilb. & Ryvarden	Hjortstam and Ryvarden (1986)	Hymenochaetales
204	*Hyphodontia latitans* (Bourdot & Galzin) Ginns & M.N.L. Lefebvre [d]	*Chaetoporellus latitans* (Bourdot & Galzin) Bondartsev & Singer	Ginns and Lefebvre (1993)	Hymenochaetales
205	*Inocutis dryophila* (Berk.) Fiasson & Niemelä [d]	*Inonotus dryophilus* (Berk.) Murrill	Index Fungorum	Hymenochaetales
206	*Inocutis jamaicensis* (Murrill) A.M. Gottlieb, J.E. Wright & Moncalvo [d]	*Inonotus jamaicensis* Murrill	Gottlieb et al. (2002)	Hymenochaetales
207	*Inocutis ludoviciana* (Pat.) T. Wagner & M. Fisch. [d]	*Inonotus ludovicianus* (Pat.) Murrill	Wagner and Fischer (2002)	Hymenochaetales
208	*Inocutis porrecta* (Murrill) Baltazar [d]	*Inonotus porrectus* Murrill	Baltazar et al. (2010)	Hymenochaetales
209	*Inocutis rheades* (Pers.) Fiasson & Niemelä [d]	*Inonotus rheades* (Pers.) Bondartsev & Singer	Index Fungorum	Hymenochaetales
210	*Inocutis texana* (Murrill) S. Martínez [d]	*Inonotus texanus* Murrill	Martínez (2006)	Hymenochaetales
211	*Inonotopsis subiculosa* (Peck) Parmasto [d]	*Inonotus subiculosus* (Peck) J. Erikss. & Å. Strid	Index Fungorum	Hymenochaetales
212	*Inonotus andersonii* (Ellis & Everh.) Černý [a]			Hymenochaetales
213	*Inonotus arizonicus* Gilb. [a]			Hymenochaetales
214	*Inonotus cuticularis* (Bull.) P. Karst. [a]			Hymenochaetales
215	*Inonotus farlowii* (Lloyd) Gilb. [a]			Hymenochaetales
216	*Inonotus glomeratus* (Peck) Murrill [a]			Hymenochaetales
217	*Inonotus hispidus* (Bull.) P. Karst. [a]			Hymenochaetales
218	*Inonotus juniperinus* Murrill [a]			Hymenochaetales
219	*Inonotus luteoumbrinus* (Romell) Ryvarden [d]	*Aurificaria luteo-umbrina* (Romell) D.A. Reid	Ryvarden (2005)	Hymenochaetales
220	*Inonotus macrosporus* Ginns [b]		Ginns (2011)	Hymenochaetales
221	*Inonotus munzii* (Lloyd) Gilb. [a]			Hymenochaetales
222	*Inonotus obliquus* (Ach. ex Pers.) Pilát [d]	*Inonotus obliquus* (Pers.) Pilát	Index Fungorum	Hymenochaetales
223	*Inonotus patouillardii* (Rick) Imazeki [a]			Hymenochaetales
224	*Inonotus quercustris* M. Blackw. & Gilb. [a]			Hymenochaetales
225	*Inonotus rickii* (Pat.) D.A. Reid [a]			Hymenochaetales
226	*Inonotus triqueter* (Fr.) P. Karst. [c]		Ryvarden (2005)	Hymenochaetales
227	*Irpex lacteus* (Fr.) Fr. [a]			Polyporales
228	*Ischnoderma resinosum* (Schrad.) P. Karst. [d]	*Ischnoderma resinosum* (Fr.) P. Karst.	Index Fungorum	Polyporales
229	*Jahnoporus hirtus* (Cooke) Nuss [d]	*Jahnoporus hirtus* (Quél. ex Cooke) Nuss	Index Fungorum	Russulales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
230	*Junghuhnia collabens* (Fr.) Ryvarden [a]			Polyporales
231	*Junghuhnia fimbriatella* (Peck) Ryvarden [a]			Polyporales
232	*Junghuhnia lacera* (P. Karst.) Niemelä & Kinnunen [d]	*Junghuhnia separabillima* (Pouzar) Ryvarden	Niemelä et al. (2001a)	Polyporales
233	*Junghuhnia luteoalba* (P. Karst.) Ryvarden [a]			Polyporales
234	*Junghuhnia nitida* (Pers.) Ryvarden [d]	*Junghuhnia nitida* (Fr.) Ryvarden	Index Fungorum	Polyporales
235	*Junghuhnia undigera* (Berk. & M.A. Curtis) Ryvarden [b]		Ryvarden (2009)	Polyporales
236	*Junghuhnia zonata* (Bres.) Ryvarden [a]			Polyporales
237	*Laetiporus caribensis* Banik & D.L. Lindner [b]		Banik et al. (2012)	Polyporales
238	*Laetiporus cincinnatus* (Morgan) Burds., Banik & T.J. Volk [c]		Banik et al. (1998)	Polyporales
239	*Laetiporus conifericola* Burds. & Banik [b]		Burdsall and Banik (2001)	Polyporales
240	*Laetiporus gilbertsonii* Burds. [b]		Burdsall and Banik (2001)	Polyporales
241	*Laetiporus huroniensis* Burds. & Banik [b]		Burdsall and Banik (2001)	Polyporales
242	*Laetiporus persicinus* (Berk. & M.A. Curtis) Gilb. [a]			Polyporales
243	*Laetiporus sulphureus* (Bull.) Murrill [a]			Polyporales
244	*Leptoporus mollis* (Pers.) Quél. [d]	*Leptoporus mollis* (Pers.) Pilát	Index Fungorum	Polyporales
245	*Lindtneria baboquivariensis* (Gilb.) Gilb. & Ryvarden [a]			Russulales
246	*Lindtneria flava* Parmasto [a]			Russulales
247	*Lindtneria lowei* M.J. Larsen [b]		Larsen (2000a)	Russulales
248	*Lindtneria thujatsugina* M.J. Larsen [a]			Russulales
249	*Lindtneria trachyspora* (Bourdot & Galzin) Pilát [a]			Russulales
250	*Loweomyces fractipes* (Berk. & M.A. Curtis) Jülich [d]	*Abortiporus fractipes* (Berk. & M.A. Curtis) Gilb. & Ryvarden	Index Fungorum	Polyporales
251	*Loweporus tephroporus* (Mont.) Ryvarden [d]	*Perenniporia tephropora* (Mont.) Ryvarden	Index Fungorum	Polyporales
252	*Megasporoporia setulosa* (Henn.) Rajchenb. [a]			Polyporales
253	*Megasporoporiella cavernulosa* (Berk.) B.K. Cui, Y.C. Dai & Hai J. Li [d]	*Megasporoporia cavernulosa* (Berk.) Ryvarden	Li and Cui (2013)	Polyporales
254	*Melanoporia nigra* (Berk.) Murrill [a]			Polyporales
255	*Mensularia crocitincta* (Berk. & M.A. Curtis) T. Wagner & M. Fisch. [d]	*Inonotus crocitinctus* (Berk. & M.A. Curtis) Ryvarden	Wagner and Fischer (2002)	Hymenochaetales
256	*Mensularia radiata* (Sowerby) Lázaro Ibiza [d]	*Inonotus radiatus* (Sowerby) P. Karst.	Index Fungorum	Hymenochaetales
257	*Meripilus lentifrondosa* (Murrill) M.J. Larsen & Lombard [c]		Larsen and Lombard (1988)	Polyporales
258	*Meripilus sumstinei* (Murrill) M.J. Larsen & Lombard [d]	*Meripilus giganteus* (Pers.) P. Karst.	Larsen and Lombard (1988)	Polyporales
259	*Meruliporia incrassata* (Berk. & M.A. Curtis) Murrill [a]			Boletales
260	*Microporellus dealbatus* (Berk. & M.A. Curtis) Murrill [a]			Polyporales
261	*Microporellus obovatus* (Jungh.) Ryvarden [a]			Polyporales
262	*Navisporus floccosus* (Bres.) Ryvarden [c]		Vlasák et al. (2011)	Polyporales
263	*Navisporus sulcatus* (Lloyd) Ryvarden [a]			Polyporales
264	*Neoalbatrellus caeruleoporus* (Peck) Audet [d]	*Albatrellus caeruleoporus* (Peck) Pouzar	Audet (2010)	Russulales
265				Russulales

Table 1 (continued)

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	Neoalbatrellus subcaeruleoporus Audet & B.S. Luther [b]		Audet and Luther (2015)	
266	*Neofavolus alveolaris* (DC.) Sotome & T. Hatt. [d]	*Polyporus alveolaris* (DC.) Bondartsev & Singer	Sotome et al. (2013)	Polyporales
267	*Nigrofomes melanoporus* (Mont.) Murrill [a]			Polyporales
268	*Nigroporus vinosus* (Berk.) Murrill [a]			Polyporales
269	*Obba rivulosa* (Berk. & M.A. Curtis) Miett. & Rajchenb. [d]	*Ceriporiopsis rivulosa* (Berk. & M.A. Curtis) Gilb. & Ryvarden	Miettinen and Rajchenberg (2012)	Polyporales
270	*Oligoporus subpendulus* (G.F. Atk.) Gilb. & Ryvarden [a]			Polyporales
271	*Onnia leporina* (Fr.) H. Jahn. [d]	*Inonotus circinatus* (Fr.) Gilb.	Jahn (1978)	Hymenochaetales
272	*Onnia tomentosa* (Fr.) P. Karst. [d]	*Inonotus tomentosus* (Fr.) Teng	Index Fungorum	Hymenochaetales
273	*Osteina obducta* (Berk.) Donk [d]	*Oligoporus obductus* (Berk.) Gilb. & Ryvarden	Cui et al. (2014)	Polyporales
274	*Oxyporus corticola* (Fr.) Ryvarden [a]			Incertae sedis
275	*Oxyporus cuneatus* (Murrill) Aoshima [a]			Incertae sedis
276	*Oxyporus populinus* (Schumach.) Donk [a]			Incertae sedis
277	*Oxyporus similis* (Bres.) Ryvarden [a]			Incertae sedis
278	*Pachykytospora alabamae* (Berk. & Cooke) Ryvarden [a]			Polyporales
279	*Pachykytospora papyracea* (Cooke) Ryvarden [a]			Polyporales
280	*Pachykytospora tuberculosa* (Fr.) Kotl. & Pouzar [a]			Polyporales
281	*Panellus pusillus* (Pers. ex Lév.) Burds. & O.K. Mill. [d]	*Panellus pusillus* (Lév.) Burds. & O.K. Mill.	Index Fungorum	Agaricales
282	*Perenniporia amylodextrinoidea* Gilb. & Ryvarden [a]			Polyporales
283	*Perenniporia bartholomaei* (Peck) Gibertoni & Ryvarden [d]	*Perenniporia semistipitata* (Lloyd) Gilb. & Ryvarden	Gibertoni et al. (2006)	Polyporales
284	*Perenniporia compacta* (Overh.) Ryvarden & Gilb. [a]			Polyporales
285	*Perenniporia cremeopora* Decock & Ryvarden [b]		Ryvarden (2009)	Polyporales
286	*Perenniporia ellipsospora* Ryvarden & Gilb. [a]			Polyporales
287	*Perenniporia ellisiana* (F.W. Anderson) Gilb. & Ryvarden [a]			Polyporales
288	*Perenniporia fergusii* Gilb. & Ryvarden [a]			Polyporales
289	*Perenniporia fraxinea* (Bull.) Ryvarden [a]			Polyporales
290	*Perenniporia fraxinophila* (Peck) Ryvarden [a]			Polyporales
291	*Perenniporia medulla-panis* (Jacq.) Donk [a]			Polyporales
292	*Perenniporia phloiophila* Gilb. & M. Blackw. [a]			Polyporales
293	*Perenniporia robiniophila* (Murrill) Ryvarden [a]			Polyporales
294	*Perenniporia subacida* (Peck) Donk [a]			Polyporales
295	*Perenniporia tenuis* (Schwein.) Ryvarden [d]	*Perenniporia tenuis* var. *pulchella* (Schwein.) Lowe *Perenniporia tenuis* var. *tenuis* (Schwein.) Ryvarden	Index Fungorum	Polyporales
296	*Perenniporia tepeitensis* (Murrill) Ryvarden [a]			Polyporales
297	*Perenniporia variegata* Ryvarden & Gilb. [a]			Polyporales
298	*Phaeolus schweinitzii* (Fr.) Pat. [a]			Polyporales
299	*Phellinidium ferrugineofuscum* (P. Karst.) Fiasson & Niemelä [d]	*Phellinus ferrugineofuscus* (P. Karst.) Bourdot	Index Fungorum	Hymenochaetales
300	*Phellinidium fragrans* (M.J. Larsen & Lombard) Nuss [d]	*Phellinus fragrans* M.J. Larsen & Lombard	Index Fungorum	Hymenochaetales

Table 1 (continued)

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301	*Phellinidium weirii* (Murrill) Y.C. Dai [d]	*Phellinus weirii* (Murrill) Gilb.	Dai (1995)	Hymenochaetales
302	*Phellinopsis conchata* (Pers.) Y.C. Dai [d]	*Phellinus conchatus* (Pers.) Quél.	Dai (2010)	Hymenochaetales
303	*Phellinopsis overholtsii* (Ginns) L.W. Zhou & Ginns [d]	*Phellinus occidentalis* (Overh.) Gilb.	Zhou and Ginns (2014)	Hymenochaetales
304	*Phellinus alni* (Bondartsev) Parmasto [c]		Zhou et al. (2016b)	Hymenochaetales
305	*Phellinus arctostaphyli* (Long) Niemelä [a]			Hymenochaetales
306	*Phellinus badius* (Cooke) G. Cunn. [a]			Hymenochaetales
307	*Phellinus betulinus* (Murrill) Parmasto [d]	*Phellinus laevigatus* (P. Karst.) Bourdot & Galzin	Zhou et al. (2016b)	Hymenochaetales
308	*Phellinus bicuspidatus* Lombard & M.J. Larsen [b]		Lombard and Larsen (1985)	Hymenochaetales
309	*Phellinus calcitratus* (Berk. & M.A. Curtis) Ryvarden [c]		Vlasák et al. (2011)	Hymenochaetales
310	*Phellinus caribaeo-quercicola* Decock & S. Herrera [c]		Vlasák et al. (2011)	Hymenochaetales
311	*Phellinus everhartii* (Ellis & Galloway) A. Ames [a]			Hymenochaetales
312	*Phellinus extensus* (Lév.) Pat. [a]			Hymenochaetales
313	*Phellinus ferrugineovelutinus* (Henn.) Ryvarden [a]			Hymenochaetales
314	*Phellinus gilbertsonii* M.J. Larsen [b]		Larsen (2000b)	Hymenochaetales
315	*Phellinus grenadensis* (Murrill) Ryvarden [a]			Hymenochaetales
316	*Phellinus igniarius* (L.) Quél. [a]			Hymenochaetales
317	*Phellinus lundellii* Niemelä [a]			Hymenochaetales
318	*Phellinus nigricans* (Fr.) P. Karst. [c]		Zhou et al. (2016b)	Hymenochaetales
319	*Phellinus nilgheriensis* (Mont.) G. Cunn. [c]		Vlasák et al. (2011)	Hymenochaetales
320	*Phellinus palmicola* (Berk. & M.A. Curtis) Ryvarden [a]			Hymenochaetales
321	*Phellinus pomaceoides* Vlasák & L.W. Zhou [d]	*Phellinus pomaceus* (Pers.) Maire	Zhou et al. (2016b)	Hymenochaetales
322	*Phellinus prunicola* (Murrill) Gilb. [a]			Hymenochaetales
323	*Phellinus punctatiformis* (Murrill) Ryvarden [a]			Hymenochaetales
324	*Phellinus repandus* (Overh.) Gilb. [a]			Hymenochaetales
325	*Phellinus rufitinctus* (Berk. & M.A. Curtis ex Cooke) Pat. [d]	*Phellinus rufitinctus* (Cke) Pat.	Index Fungorum	Hymenochaetales
326	*Phellinus spiculosus* (W.A. Campb. & R.W. Davidson) Niemelä [a]			Hymenochaetales
327	*Phellinus tremulae* (Bondartsev) Bondartsev & P.N. Borisov [a]			Hymenochaetales
328	*Phellopilus nigrolimitatus* (Romell) Niemelä, T. Wagner & M. Fisch. [d]	*Phellinus nigrolimitatus* (Romell) Bourdot & Galzin	Niemelä et al. (2001b)	Hymenochaetales
329	*Phylloporia chrysites* (Berk.) Ryvarden [d]	*Phylloporia chrysita* (Berk.) Ryvarden	Index Fungorum	Hymenochaetales
330	*Phylloporia fruticum* (Berk. & M.A. Curtis) Ryvarden [d]	*Phylloporia frutica* (Berk.) Ryvarden	Index Fungorum	Hymenochaetales
331	*Phylloporia ribis* (Schumach.) Ryvarden [d]	*Phylloporia ribis* (Fr.) Ryvarden	Index Fungorum	Hymenochaetales
332	*Physisporinus sanguinolentus* (Alb. & Schwein.) Pilát [a]			Polyporales
333	*Physisporinus vitreus* (Pers.) P. Karst. [a]			Polyporales
334	*Piptoporus soloniensis* (Dubois) Pilát [a]			Polyporales
335	*Polyporoletus sublividus* Snell [a]			Russulales
336	*Polyporoletus sylvestris* (Overh. ex Pouzar) Audet [c]		Audet (2010)	Russulales
337	*Polyporus admirabilis* Peck [d]	*Polyporus coronadensis* Gilb. & K.J. Martin	Index Fungorum	Polyporales
338	*Polyporus americanus* Vlasák & Y.C. Dai [b]		Dai et al. (2014)	Polyporales
339	*Polyporus arcularius* (Batsch) Fr. [a]			Polyporales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
340	*Polyporus badius* (Pers.) Schwein. [a]			Polyporales
341	*Polyporus brumalis* (Pers.) Fr. [a]			Polyporales
342	*Polyporus craterellus* Berk. & M.A. Curtis [a]			Polyporales
343	*Polyporus leptocephalus* (Jacq.) Fr. [d]	*Polyporus elegans* Bull.	Index Fungorum	Polyporales
344	*Polyporus longiporus* Audet, Boulet & Sirard [b]		Boulet (2003)	Polyporales
345	*Polyporus melanopus* (Pers.) Fr. [d]	*Polyporus melanopus* Fr.	Index Fungorum	Polyporales
346	*Polyporus radicatus* Schwein. [a]			Polyporales
347	*Polyporus rhizophilus* Pat. [d]	*Polyporus cryptopus* Ellis & Barthol.	Index Fungorum	Polyporales
348	*Polyporus squamosus* (Huds.) Fr. [a]			Polyporales
349	*Polyporus tricholoma* Mont. [a]			Polyporales
350	*Polyporus tuberaster* (Jacq. ex Pers.) Fr. [a]			Polyporales
351	*Polyporus umbellatus* (Pers.) Fr. [d]	*Polyporus umbellatus* Fr.	Index Fungorum	Polyporales
352	*Polyporus varius* (Pers.) Fr. [d]	*Polyporus varius* Fr.	Index Fungorum	Polyporales
353	*Polyporus virgatus* Berk. & M.A. Curtis [a]			Polyporales
354	*Polypus dispansus* (Lloyd) Audet [d]	*Albatrellus dispansus* (Lloyd) Canf. & Gilb.	Audet (2010)	Russulales
355	*Porodaedalea cancriformans* (M.J. Larsen, Lombard & Aho) T. Wagner & M. Fisch. [c]		Wagner and Fischer (2002)	Hymenochaetales
356	*Porodaedalea piceina* (Peck) Niemelä [c]		Niemelä (1985a)	Hymenochaetales
357	*Porodisculus pendulus* (Fr.) Murrill [d]	*Porodisculus pendulus* (Schw.) Murrill	Index Fungorum	Agaricales
358	*Porotheleum fimbriatum* (Pers.) Fr. [d]	*Stromatoscypha fimbriata* (Pers.) Donk	Index Fungorum	Agaricales
359	*Porpomyces mucidus* (Pers.) Jülich [d]	*Ceriporiopsis mucida* (Pers.) Gilb. & Ryvarden	Larsson (2001)	Polyporales
360	*Postia amara* (Hedgc.) M.J. Larsen & Lombard [d]	*Oligoporus amarus* (Hedgc.) Gilb. & Ryvarden	Larsen and Lombard (1986)	Polyporales
361	*Postia balsamea* (Peck) Jülich [d]	*Oligoporus balsameus* (Peck) Gilb. & Ryvarden	Index Fungorum	Polyporales
362	*Postia caesia* (Schrad.) P. Karst. [d]	*Oligoporus caesius* (Schrad.) Gilb. & Ryvarden	Index Fungorum	Polyporales
363	*Postia ceriflua* (Berk. & M.A. Curtis) Jülich [d]	*Oligoporus minusculoides* (Pilát) Gilb. & Ryvarden *Tyromyces cerifluus* (Berk. & M.A. Curtis) Murrill	Index Fungorum	Polyporales
364	*Postia floriformis* (Quél.) Jülich [d]	*Oligoporus floriformis* (Quél.) Gilb. & Ryvarden	Index Fungorum	Polyporales
365	*Postia fragilis* (Fr.) Jülich [d]	*Oligoporus fragilis* (Fr.) Gilb. & Ryvarden	Index Fungorum	Polyporales
366	*Postia guttulata* (Sacc.) Jülich [d]	*Oligoporus guttulatus* (Peck) Gilb. & Ryvarden	Index Fungorum	Polyporales
367	*Postia hibernica* (Berk. & Broome) Jülich [d]	*Oligoporus hibernicus* (Berk. & Broome) Gilb. & Ryvarden	Index Fungorum	Polyporales
368	*Postia immitis* (Peck) Niemelä [c]		Niemelä et al. (2005)	Polyporales
369	*Postia lateritia* Renvall [c]		Renvall (1992)	Polyporales
370	*Postia leucomallella* (Murrill) Jülich [d]	*Oligoporus leucomallellus* (Murrill) Gilb. & Ryvarden	Index Fungorum	Polyporales
371	*Postia leucospongia* (Cooke & Harkn.) Jülich [d]	*Oligoporus leucospongia* (Cooke & Harkn.) Gilb. & Ryvarden	Index Fungorum	Polyporales
372	*Postia lowei* (Pilát) Jülich [d]	*Oligoporus lowei* (Pilát) Gilb. & Ryvarden	Index Fungorum	Polyporales
373	*Postia perdelicata* (Murrill) M.J. Larsen & Lombard [d]	*Oligoporus perdelicatus* (Murrill) Gilb. & Ryvarden	Index Fungorum	Polyporales
374	*Postia ptychogaster* (F. Ludw.) Vesterh. [c]		Leacock (2015)	Polyporales
375				Polyporales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
	Postia rancida (Bres.) M.J. Larsen & Lombard [d]	*Oligoporus rancidus* (Bres.) Gilb. & Ryvarden	Larsen and Lombard (1986)	
376	*Postia rennyi* (Berk. & Broome) Rajchenb. [c]		Gilbertson and Ristich (1997)	Polyporales
377	*Postia sequoiae* (Bonar) M.J. Larsen & Lombard [d]	*Oligoporus sequoiae* (Bonar) Gilb. & Ryvarden	Index Fungorum	Polyporales
378	*Postia sericeomollis* (Romell) Jülich [d]	*Oligoporus sericeomollis* (Romell) Pouzar	Index Fungorum	Polyporales
379	*Postia stiptica* (Pers.) Jülich [d]	*Oligoporus stipticus* (Pers.) Gilb. & Ryvarden	Index Fungorum	Polyporales
380	*Postia tephroleuca* (Fr.) Jülich [d]	*Oligoporus tephroleucus* (Fr.) Gilb. & Ryvarden	Index Fungorum	Polyporales
381	*Postia undosa* (Peck) Jülich [d]	*Oligoporus undosus* (Peck) Gilb. & Ryvarden	Index Fungorum	Polyporales
382	*Pouzaroporia subrufa* (Ellis & Dearn.) Vampola [d]	*Ceriporiopsis subrufa* (Ellis & Dearn.) Ginns	Vampola (1992)	Polyporales
383	*Pseudofavolus cucullatus* (Mont.) Pat. [a]			Polyporales
384	*Pseudofistulina radicata* (Schwein.) Burds. [d]	*Fistulina radicata* Schwein.	Index Fungorum	Agaricales
385	*Pseudoinonotus dryadeus* (Pers.) T. Wagner & M. Fisch. [d]	*Inonotus dryadeus* (Pers.) Murrill	Wagner and Fischer (2001)	Hymenochaetales
386	*Pseudowrightoporia cylindrospora* (Ryvarden) Y.C. Dai, Jia J. Chen & B.K. Cui [d]	*Wrightoporia cylindrospora* Ryvarden	Chen et al. (2016)	Russulales
387	*Pycnoporellus alboluteus* (Ellis & Everh.) Kotl. & Pouzar [a]			Polyporales
388	*Pycnoporellus fulgens* (Fr.) Donk [a]			Polyporales
389	*Pyrofomes demidoffii* (Lév.) Kotl. & Pouzar [a]			Polyporales
390	*Raduliporus aneirinus* (Sommerf.) Spirin & Zmitr. [d]	*Ceriporiopsis aneirina* (Sommerf.) Domański	Zmitrovich et al. (2006)	Polyporales
391	*Resupinatus poriaeformis* (Pers.) Thorn, Moncalvo & Redhead [d]	*Stigmatolemma poriaeforme* (Pers.) W.B. Cooke	Thorn et al. (2005)	Agaricales
392	*Rhodofomes cajanderi* (P. Karst.) B.K. Cui, M.L. Han & Y.C. Dai [d]	*Fomitopsis cajanderi* (P. Karst.) Kotl. & Pouzar	Han et al. (2016)	Polyporales
393	*Rhodofomitopsis feei* (Fr.) B.K. Cui, M.L. Han & Y.C. Dai [d]	*Fomitopsis feei* (Fr.) Kreisel	Han et al. (2016)	Polyporales
394	*Rhodonia placenta* (Fr.) Niemelä, K.H. Larss. & Schigel [d]	*Oligoporus placenta* (Fr.) Gilb. & Ryvarden	Niemelä et al. (2005)	Polyporales
395	*Rigidoporus crocatus* (Pat.) Ryvarden [a]			Polyporales
396	*Rigidoporus lineatus* (Pers.) Ryvarden [a]			Polyporales
397	*Rigidoporus microporus* (Sw.) Overeem [d]	*Rigidoporus microporus* (Fr.) Overeem	Index Fungorum	Polyporales
398	*Rigidoporus ulmarius* (Sowerby) Imazeki [a]			Polyporales
399	*Rigidoporus vinctus* (Berk.) Ryvarden [a]			Polyporales
400	*Sarcoporia longitubulata* Vlasák & Spirin [b]		Vlasák et al. (2015)	Polyporales
401	*Sarcoporia polyspora* P. Karst. [d]	*Parmastomyces transmutans* (Overh.) Ryvarden & Gilb.	Niemelä et al. (2005)	Polyporales
402	*Sanghuangporus vaninii* (Ljub.) L.W. Zhou & Y.C. Dai [d]	*Phellinus vaninii* Ljub.	Zhou et al. (2016a)	Hymenochaetales
403	*Sanghuangporus weirianus* (Bres.) L.W. Zhou & Y.C. Dai [d]	*Phellinus weirianus* (Bres.) Gilb.	Zhou et al. (2016a)	Hymenochaetales
404	*Schizopora flavipora* (Berk. & M.A. Curtis ex Cooke) Ryvarden [a]			Hymenochaetales
405	*Schizopora paradoxa* (Schrad.) Donk [a]			Hymenochaetales
406	*Schizopora radula* (Pers.) Hallenb. [c]		Hallenberg (1983)	Hymenochaetales
407	*Scutiger pes-caprae* (Pers.) Bondartsev & Singer [d]	*Albatrellus pes-caprae* (Pers.) Pouzar	Index Fungorum	Russulales
408	*Sidera lenis* (P. Karst.) Miettinen [d]	*Diplomitoporus lenis* (P. Karst.) Gilb. & Ryvarden	Miettinen and Larsson (2011)	Hymenochaetales
409	*Sistotrema confluens* Pers. [a]			Cantharellales

Table 1 (continued)

No.	Species accepted in North America	Original name in Gilbertson and Ryvarden (1986, 1987) for name or authority changed species	Reference for species or name accepted	Taxonomic position at the order level
410	*Sistotrema muscicola* (Pers.) S. Lundell [a]			Cantharellales
411	*Skeletocutis albocremea* A. David [c]		Niemelä (1998)	Polyporales
412	*Skeletocutis alutacea* (J. Lowe) Jean Keller [a]			Polyporales
413	*Skeletocutis amorpha* (Fr.) Kotl. & Pouzar [a]			Polyporales
414	*Skeletocutis brunneomarginata* Ryvarden [b]		Ryvarden (2009)	Polyporales
415	*Skeletocutis carneogrisea* A. David [a]			Polyporales
416	*Skeletocutis diluta* (Rajchenb.) A. David & Rajchenb. [c]		Vlasák et al. 2011	Polyporales
417	*Skeletocutis hymeniicola* (Murrill) Niemelä [c]		Niemelä (1998)	Polyporales
418	*Skeletocutis lilacina* A. David & Jean Keller [a]			Polyporales
419	*Skeletocutis nivea* (Jungh.) Jean Keller [a]			Polyporales
420	*Skeletocutis ochroalba* Niemelä [a]			Polyporales
421	*Skeletocutis odora* (Sacc.) Ginns [a]	*Antrodia odora* (Peck ex Sacc.) Gilb. & Ryvarden	Index Fungorum	Polyporales
422	*Skeletocutis stellae* (Pilát) Jean Keller [a]			Polyporales
423	*Skeletocutis subincarnata* (Peck) Jean Keller [a]			Polyporales
424	*Skeletocutis subodora* Vlasák & Ryvarden [b]		Vlasák et al. (2012)	Polyporales
425	*Spongipellis delectans* (Peck) Murrill [a]			Polyporales
426	*Spongipellis pachyodon* (Pers.) Kotl. & Pouzar [a]			Polyporales
427	*Spongipellis spumea* (Sowerby) Pat. [d]	*Spongipellis spumeus* (Sowerby) Pat.		Polyporales
428	*Spongipellis unicolor* (Fr.) Murrill [d]	*Spongipellis unicolor* (Schw.) Murrill	Index Fungorum	Polyporales
429	*Theleporus ajovalliensis* Gilb. & M. Blackw. [d]	*Thelephora ajovalliensis* Gilb. & M. Blackw.	Index Fungorum	Polyporales
430	*Tinctoporellus epimiltinus* (Berk. & Broome) Ryvarden [a]			Polyporales
431	*Trametes betulina* (L.) Pilát [d]	*Lenzites betulina* (Fr.) Fr.	Justo and Hibbett (2011)	Polyporales
432	*Trametes conchifer* (Schwein.) Pilát [a]			Polyporales
433	*Trametes cubensis* (Mont.) Sacc. [a]			Polyporales
434	*Trametes drummondii* (Klotzsch) Ryvarden [a]			Polyporales
435	*Trametes ectypa* (Berk. & M.A. Curtis) Gilb. & Ryvarden [a]			Polyporales
436	*Trametes elegans* (Spreng.) Fr. [a]			Polyporales
437	*Trametes gibbosa* (Pers.) Fr. [c]		Kout and Vlasák (2007)	Polyporales
438	*Trametes hirsuta* (Wulfen) Lloyd [d]	*Trametes hirsuta* (Wulfen) Pilát	Index Fungorum	Polyporales
439	*Trametes lactinea* (Berk.) Sacc. [c]		Vlasák et al. (2011)	Polyporales
440	*Trametes maxima* (Mont.) A. David & Rajchenb. [a]			Polyporales
441	*Trametes membranacea* (Sw.) Kreisel [a]			Polyporales
442	*Trametes modesta* (Kunze ex Fr.) Ryvarden [d]	*Trametes modesta* (Fr.) Ryvarden	Index Fungorum	Polyporales
443	*Trametes ochracea* (Pers.) Gilb. & Ryvarden [a]			Polyporales
444	*Trametes ochroflava* Cooke [c]		Vlasák et al. (2011)	Polyporales
445	*Trametes pavonia* (Hook.) Ryvarden [a]			Polyporales
446	*Trametes pubescens* (Schumach.) Pilát [a]			Polyporales
447	*Trametes cinnabarina* (Jacq.) Fr. [d]	*Pycnoporus cinnabarinus* (Jacq.) P. Karst. [a]	Justo and Hibbett (2011)	Polyporales
448	*Trametes sanguinea* (L.) Lloyd [d]	*Pycnoporus sanguineus* (L.) Murrill	Justo and Hibbett (2011)	Polyporales
449	*Trametes suaveolens* (L.) Fr. [a]			Polyporales

Table 1 (continued)

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450	*Trametes subectypa* (Murrill) Gilb. & Ryvarden [a]			Polyporales
451	*Trametes trogii* Berk. [a]			Polyporales
452	*Trametes variegata* (Berk.) Zmitr., Wasser & Ezhov [d]	*Hexagonia papyracea* Berk.	Zmitrovich et al. (2012)	Polyporales
453	*Trametes versicolor* (L.) Lloyd [d]	*Trametes versicolor* (L.) Pilát	Index Fungorum	Polyporales
454	*Trametes villosa* (Sw.) Kreisel [d]	*Trametes villosa* (Fr.) Kreisel	Index Fungorum	Polyporales
455	*Trametopsis cervina* (Schwein.) Tomšovský [d]	*Trametes cervina* (Schwein.) Bres.	Tomšovský (2008)	Polyporales
456	*Trechispora candidissima* (Schwein.) Bondartzev & Singer [c]		Larsson (1994)	Trechisporales
457	*Trechispora hymenocystis* (Berk. & Broome) K.H. Larsson [c]		Larsson (1994)	Trechisporales
458	*Trechispora mollusca* (Pers.) Liberta [a]			Trechisporales
459	*Trechispora regularis* (Murrill) Liberta [a]			Trechisporales
460	*Trichaptum abietinum* (Dicks.) Ryvarden [a]			Hymenochaetales
461	*Trichaptum biforme* (Fr.) Ryvarden [a]			Hymenochaetales
462	*Trichaptum byssogenum* (Jungh.) Ryvarden [a]			Hymenochaetales
463	*Trichaptum fuscoviolaceum* (Ehrenb.) Ryvarden [d]	*Trichaptum fusco-violaceum* (Fr.) Ryvarden	Index Fungorum	Hymenochaetales
464	*Trichaptum laricinum* (P. Karst.) Ryvarden [a]			Hymenochaetales
465	*Trichaptum perrottetii* (Lév.) Ryvarden [a]			Hymenochaetales
466	*Trichaptum sector* (Ehrenb.) Kreisel [a]			Hymenochaetales
467	*Trichaptum subchartaceum* (Murrill) Ryvarden [a]			Hymenochaetales
468	*Tropicoporus dependens* (Murrill) L.W. Zhou, Y.C. Dai & Vlasák [d]	*Phellinus dependens* (Murrill) Imazeki	Zhou et al. (2016a)	Hymenochaetales
469	*Tropicoporus linteus* (Berk. & M.A. Curtis) L.W. Zhou & Y.C. Dai [d]	*Phellinus linteus* (Berk. & M.A. Curtis) Teng	Zhou et al. (2016a)	Hymenochaetales
470	*Tropicoporus pseudolinteus* (Vlasák & Y.C. Dai) L.W. Zhou, Y.C. Dai & Vlasák [b]		Vlasák et al. (2013)	Hymenochaetales
471	*Truncospora arizonica* Spirin & Vlasák [b]		Spirin et al. (2015a)	Polyporales
472	*Truncospora floridana* Vlasák & Spirin [b]		Spirin et al. (2015a)	Polyporales
473	*Truncospora mexicana* Vlasák, Spirin & Kout [b]		Spirin et al. (2015a)	Polyporales
474	*Truncospora ohiensis* (Berk.) Pilát [d]	*Perenniporia ohiensis* (Berk.) Ryvarden	Spirin et al. (2015a)	Polyporales
475	*Truncospora tropicalis* Vlasák & Spirin [b]		Spirin et al. (2015a)	Polyporales
476	*Tyromyces canadensis* (Overh.) J. Lowe [d]	*Antrodiella overholtsii* Ryvarden & Gilb.	Niemelä (1985b)	Polyporales
477	*Tyromyces chioneus* (Fr.) P. Karst. [a]			Polyporales
478	*Tyromyces fissilis* (Berk. & M.A. Curtis) Donk [a]			Polyporales
479	*Tyromyces fumidiceps* G.F. Atk. [a]			Polyporales
480	*Tyromyces galactinus* (Berk.) J. Lowe [a]			Polyporales
481	*Tyromyces kmetii* (Bres.) Bondartsev & Singer [a]			Polyporales
482	*Tyromyces leucomallus* (Berk. & M.A. Curtis) Murrill [a]			Polyporales
483	*Tyromyces pseudolacteus* Murrill [a]			Polyporales
484	*Tyromyces subgiganteus* (Berk. & M.A. Curtis) Ryvarden [a]			Polyporales
485	*Wolfiporia cocos* (Schw.) Ryvarden & Gilb. [a]			Polyporales
486	*Wolfiporia dilatohypha* Ryvarden & Gilb. [a]			Polyporales
487	*Wrightoporia avellanea* (Bres.) Pouzar [a]			Russulales

Table 1 (continued)

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488	*Wrightoporia lenta* (Overh. & J. Lowe) Pouzar [a]			Russulales
489	*Wrightoporia subrutilans* (Murrill) Ryvarden [a]			Russulales
490	*Xanthoporus peckianus* (Cooke) Audet [d]	*Albatrellus peckianus* (Cooke) Niemelä	Audet (2010)	Polyporales
491	*Xanthoporus syringae* (Parmasto) Audet [c]		Ginns (1997)	Polyporales
492	*Yuchengia narymica* (Pilát) B.K. Cui, C.L. Zhao & Steffen [d]	*Perenniporia narymica* (Pilát) Pouzar	Zhao et al. (2013)	Polyporales

[a] Retrived from Gilbertson and Ryvarden (1986, 1987)

[b] Newly described since Gilbertson and Ryvarden (1986, 1987)

[c] Newly reported since Gilbertson and Ryvarden (1986, 1987)

[d] Name or authority changed compared with Gilbertson and Ryvarden (1986, 1987)

Overh. ex Gilb., are replaced by *Heterobasidion irregulare* Garbel. & Otrosina, *Hymenochaete odontoides* S.H. He & Y.C. Dai, and *Phellinopsis overholtsii* (Ginns) L.W. Zhou & Ginns, respectively, as new nomenclatures.

According to Index Fungorum, among the 492 species of polypores from 146 genera in North America, 486 species from 143 genera belong to 11 orders, while six other species from three genera, viz. *Bridgeoporus* T.J. Volk, Burds. & Ammirati, *Emmia* Zmitr., Spirin & Malysheva and *Oxyporus* (Bourdot & Galzin) Donk, have uncertain taxonomic position at the order level. Most of the North American polypores are in the orders Polyporales (306 species from 90 genera), Hymenochaetales (122 species from 27 genera) and Russulales (33 species from 13 genera). Six species from six different genera belong to the Agaricales. The orders Cantharellales, Gloeophyllales, Thelephorales and Trechisporales, respectively, consist of two, seven, three and four species from one genus. The orders Atheliales, Auriculariales and Boletales only comprise one species from one genus.

A thorough study of polypore diversity of Europe and China resulted in 394 and 704 species, respectively (Dai 2012; Ryvarden and Melo 2014). In comparison, the diversity of polypores in North America is greater than that in Europe, which has no subtropical and tropical zones that support more species diversity of polypores than other areas (Zhou et al. 2011). Although North America covers a larger area with varied climatic zones, its polypore diversity is much lower than that of China. This may be a result of fewer taxonomic and molecular phylogenetic studies on polypores in North America compared to China. Future exploration of polypore diversity and taxonomy by researchers throughout the world will continue to impact our knowledge of North American polypores. This updated polypore checklist in North America reflects the progression of methods used in polypore taxonomy—from macromorphology used in Murrill's era, to micromorphology and decay type emphasized in Gilbertson and Ryvarden's (1986, 1987) monograph, and the molecular systematics of today.

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