

**Additions to the knowledge of lignocellulolytic
basidiomycetes in forests from Santa Catarina, Southern
Brazil**

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Abstract — An updated checklist of the lignocellulolytic basidiomycetes in Santa Catarina State with 110 species distributed in 19 families and six orders (*Agaricales*, *Hymenochaetales*, *Polyporales*, *Russulales*, *Auriculariales*, *Tremellales*) is presented. The complete checklist is available on <http://www.mycotaxon.com/resources/weblists.html> and as Electronic Guide BASC (Basidiomycetes of Santa Catarina) as well on <http://www.cienciasbiologicas.ufsc.br/bot/micologia/index.htm>.

Introduction

Basidiomycota comprises almost 30,000 species with *Basidiomycetes* representing approximately 70% (more of the 20,000 spp.) of the phylum (Kirk et al. 2001, David 2002). The basidiomycetes include wood decomposing organisms in most ecosystems causing white and brown rots in tropical areas where they are very abundant (Nobles 1971, Dix & Webster 1995, Deacon 1997, Anagnost 1998, Highley & Dashek 1998, Bononi & Grandi 1999). In Southern Brazil, the Santa Catarina State (26°–30° S lat, 48°30'–54° W long) presents two major vegetation types: the Atlantic Rain Forest and the Atlantic Semi-deciduous Forest (Morellato & Haddad 2000). In these ecosystems, Polypore fungi were first studied by Europeans Mycologists already in the 19th century (Loguercio-Leite 1990). The contributions by Brazilian researches from the Mycology Laboratory (BOT/CCB/UFSC) in Santa Catarina State has been taking place since 1990, with several works based on collections from the Atlantic Forest (Loguercio-Leite & Wright 1991ab, Loguercio-Leite 1992, 1993, 1994; Loguercio-Leite & Wright 1995, Gerber 1996, Gerber & Loguercio-Leite 1997, Loguercio-Leite & Gerber 1997, Loguercio-Leite & Wright 1998, Loguercio-Leite et al. 1998, Gerber et al. 1999, Neves & Loguercio-Leite 1999, Gerber & Loguercio-Leite 2000, Gonçalves 2001, Loguercio-Leite et al. 2001, 2002; Groposo & Loguercio-Leite 2005). The purpose of this study was to estimate the species diversity of basidiomycetes in Santa Catarina State.

Material and methods

This study is based on the collections deposited in the herbarium FLOR since 1983 (Holmgren et al. 1990). Basidiomes were studied using macroscopic (shape, size, colors, types of hymenophore) and microscopic (presence/absence of structures, dimensions, basidiospores) characters (Ryvarden 1991). Measurements were made from slide preparations stained with 1% aqueous phloxine and 5% KOH. Melzer's reagent was used to define wall chemical characteristics. Specimens were identified to species using specialized references and comparing collections with BAFC, ICN and PACA Herbaria collections. Nomenclature, taxonomy and author citation followed Kirk et al. 2001 and databases: Centraalbureau voor Schimmelcultures – CBS (<http://www.cbs.knaw.nl/databases/>) and Index Fungorum – IFS (<http://www.indexfungorum.org/Names/Names.asp>). For geographic references consult the map of Santa Catarina State in Groposo & Loguercio-Leite (2005).

Results and discussion

As a contribution to the general checklist of the lignocellulolytic fungi (*Basidiomycetes*) in Santa Catarina State a total of 110 species is presented. The taxa are distributed in 19 families and six orders. *Polyporales* is the most representative order with 74 species in 12 families, followed by *Hymenochaetales* with 25 species in two families. The high diversity of *Polyporales* found in the present study agrees with the results of other inventories of the basidiomycetes on subtropical Southern Brazil (Groposo & Loguercio-Leite 2005) and also in tropical Northeastern Brazil (Gibertoni et al. 2004). Consequently, *Polyporaceae* is the most representative family with 45 species, followed by *Hymenochaetaceae* with 23 species. *Phellinus* s. l. is the genus with the highest number of species with 16 taxa. Most of the reported species showed a tropical distribution: 47 neotropical (almost 42.7%) and 42 pantropical species (38.2%). Only 8 and 13 species are considered widely distributed (7.3%) and cosmopolitan (11.8%), respectively. Up to now, these 110 species added here to the original list of lignocellulolytic fungi (Groposo & Loguercio-Leite 2005) increases to 157 species the total diversity of these organisms in Santa Catarina State, Brazil. The results revealed a high mycodiversity in Santa Catarina State, which corresponds to the knowledge of the basidiomycetes in the Atlantic Forest of Southern Brazil. From the total 157 species, 75.8% (119 species) are tropical (pantropical and neotropical). Besides the 4 species known only from Brazil [*Amauroderma corneri* Gulaid & Ryvarden, *Antrodiella multipileata* C.L. Leite & J.E. Wright, *Henningsia brasiliensis* (Speg.) Speg., *Skeletocutis roseolus* (Rick ex Theiss.) Rajchenb.] cited earlier by Groposo & Loguercio-

Leite (2005), we report ten additional species endemic to this country: *Phellinus bambusarum* (Rick) M.J. Larsen, *Ceriporiopsis cystidiata* C.L. Leite et al., *Rigidoporus amazonicus* Ryvarden, *Diplomitoporus dilutabilis* C.L. Leite & J.E. Wright, *Rubroporus carneoporis* C.L. Leite et al., *Tyromyces crassisporus* C.L. Leite & J.E. Wright, *Tyromyces hypocitrinus* (Berk.) Ryvarden, *Wrightoporia porilacerata* C.L. Leite et al., *Pyrofomes fulvoumbrinus* (Bres.) A. David & Rajchenb., and *Protomerulius substuppeus* (Berk. & Cooke) Ryvarden. Of these, six are known only to Santa Catarina State. Only eight of the 157 taxa cause brown rot [*Fistulina hepatica* (Schaeff.) With., *Fomitopsis feei* (Fr.) Kreisel, *Gloeophyllum striatum* (Sw.) Murrill, *Antrodia albida* (Fr.) Donk, *Laetiporus sulphureus* (Bull.) Murrill, *Amyloporus bracei* (Murrill) A. David & Rajchenb., *Wrightoporia avellanea* (Bres.) Pouzar, and *Wrightoporia porilacerata*]. Consequently, 93-95% of the lignocellulolytic fungi from Santa Catarina caused white rots, confirming the trends given for tropical and subtropical areas by several authors (Nobles 1971, Gilbertson 1980, Nakasone 1996).

Checklist for the species from Santa Catarina State – Part II:

AGARICALES Clem.

Fistulinaceae Lotsy

Fistulina hepatica (Schaeff.) With.

Bot. Arr. Brit. Pl., Edn 2 2: 405. 1792.

BASIONYM: *Boletus hepaticus* Schaeff., 1777.

DISTRIBUTION: cosmopolitan.

Ref.: Gilbertson & Ryvarden 1986; Gonçalves & Loguercio-Leite 2001.

HYMENOGYALES Imazeki & Toki

Hymenochaetaceae Imazeki & Tori

Aurificaria luteoumbrina (Romell) D.A. Reid

Kew Bull. 17: 279. 1963

BASIONYM: *Phaeoporus luteoumbrinus* Romell, 1901

DISTRIBUTION: neotropical.

Ref.: Reid 1963.

Hydnochaete peroxydata (Berk. ex Cooke) Dennis

Kew Bull., Addit. Ser. 3: 105. 1970

BASIONYM: *Hydnum peroxydatum* Berk. ex Cooke, 1891

DISTRIBUTION: neotropical.

Ref.: Ryvarden 1982.

Hymenochaete anomala Burt

Ann. Mo. Bot. Gdn 5: 358. 1918

DISTRIBUTION: neotropical.

Ref.: Job 1990, Parmasto 2001.

- Hymenochaete damicornis* (Link) Lév.
Annls Sci. Nat., Bot., sér. 3 5: 151. 1846
BASIONYM: *Stereum damicornis* Link
DISTRIBUTION: pantropical.
Ref.: Job 1990, Parmasto 2001.
- Hymenochaete rhabarberina* (Berk.) Cooke
Grevillea 8(48): 148. 1880
BASIONYM: *Corticium rhabarbarinum* Berk.
DISTRIBUTION: pantropical.
Ref.: Parmasto 2001.
- Inonotus patouillardii* (Rick) Imazeki
Bulletin of the Tokyo Sci. Mus. 6: 105. 1943
BASIONYM: *Polystictus patouillardii* Rick
DISTRIBUTION: pantropical.
Ref.: Ryvarden & Johansen 1980, Ryvarden 2004.
- Phellinus allardii* (Bres.) S. Ahmad
Basidiomyc. W. Pakist.: 57. 1972
BASIONYM: *Fomes allardii* Bres.
DISTRIBUTION: pantropical.
Ref.: Ryvarden & Johansen 1980, Gerber & Loguercio-Leite 1997.
- Phellinus apiahynus* (Speg.) Rajchenb. & J.E. Wright
Mycologia 79(2): 251. 1987
BASIONYM: *Fomes apiahynus* Speg.
DISTRIBUTION: neotropical.
Ref.: Loguercio-Leite & Wright 1995, Neves & Loguercio-Leite 1999.
- Phellinus bambusarum* (Rick) M.J. Larsen
A survey of the world taxa. (Oslo) 3: 40. 1990
BASIONYM: *Poria bambusarum* Rick
DISTRIBUTION: neotropical (Known only from Southern Brazil).
Ref.: Rajchenberg 1987, Larsen & Cobb-Pouille 1990.
- Phellinus callimorphus* (Lév.) Ryvarden
Prelim. Polyp. Fl. E. Afr. (Oslo): 145. 1980
BASIONYM: *Polyporus callimorphus* Lév.
DISTRIBUTION: pantropical.
Ref.: Ryvarden & Johansen 1980, Corner 1991, Loguercio-Leite & Wright 1995.
- Phellinus cesatii* (Bres.) Ryvarden
Norw. Jl. Bot. 19: 234. 1972
BASIONYM: *Poria cesatii* Bres.
DISTRIBUTION: neotropical.
Ref.: Ryvarden & Johansen 1980, Loguercio-Leite & Wright 1995.
- Phellinus ferreus* (Pers.) Bourdot & Galzin
Hyménomyc. de France (Sceaux): 627. 1928
BASIONYM: *Polyporus ferreus* Pers.
DISTRIBUTION: widely distributed.

Ref.: Gilbertson 1979, Ryvarden & Johansen 1980, Loguercio-Leite & Wright 1995, Ryvarden 2004.

Phellinus flavomarginatus (Murrill) Ryvarden

Norw. Jl. Bot. 19: 234. 1972

BASIONYM: *Fomitiporia flavomarginata* Murrill

DISTRIBUTION: neotropical.

Ref.: Loguercio-Leite & Wright 1995.

Phellinus glaucescens (Petch) Ryvarden

Norw. Jl. Bot. 19: 234. 1972

BASIONYM: *Poria glaucescens* Petch

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980, Larson & Cobb-pouille 1990, Corner 1991.

Phellinus linteus (Berk. & M.A. Curtis) Teng

Chung-Kuo Ti Chen-chun: 762. 1963

BASIONYM: *Polyporus linteus* Berk. & M.A. Curtis

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980, Dai & Xu 1998, Ryvarden 2004.

Phellinus melanodermus (Pat.) M. Fidalgo

Mem. N. Y. bot. Gdn. 17: 135. 1968

BASIONYM: *Xanthochrous melanodermus* Pat.

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980, Corner 1991, Gonçalves & Loguercio-Leite 2001.

Phellinus pullus (Mont. & Berk.) Ryvarden

Norw. Jl. Bot. 19: 235. 1972

BASIONYM: *Polyporus pullus* Mont. & Berk.

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980, Larsen & Cobb-Pouille 1990.

Phellinus punctatiformis (Murrill) Ryvarden

Norw. Jl. Bot. 19: 235. 1972

BASIONYM: *Fomitiporia punctatiformis* Murrill

DISTRIBUTION: neotropical.

Ref.: Ryvarden & Johansen 1980, Loguercio-Leite & Wright 1995, Ryvarden 2004.

Phellinus punctatus (Fr.) Pilát

Atl. Champ. Europ. 3: 530. 1942

BASIONYM: *Polyporus punctatus* Fr.

DISTRIBUTION: widely distributed.

Ref.: Nobles 1948, Gilbertson 1979, Ryvarden & Johansen 1980, Loguercio-Leite & Wright 1995, Ryvarden 2004.

Phellinus rhabarbarinus (Berk.) G. Cunn.

Bull. N.Z. Dept. Sci. Industr. Res., Pl. Dis. Div. 164: 229. 1965

BASIONYM: *Polyporus rhabarbarinus* Berk.

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980, Corner 1991, Gerber & Loguercio-Leite 1997, Ryvarden 2004.

Phellinus sarcites (Fr.) Ryvarden

Norw. Jl. Bot. 19: 235. 1972

BASIONYM: *Polyporus sarcites* Fr.
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden & Johansen 1980, Ryvarden 2004.

Phellinus undulatus (Murrill) Ryvarden
 Norw. Jl. Bot. 19: 235. 1972
 BASIONYM: *Fomitiporia undulata* Murrill
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden & Johansen 1980, David & Rajchenberg 1985, Loguercio-Leite & Wright 1995,
 Ryvarden 2004.

Phylloporia chrysites (Berk.) Ryvarden
 Norw. Jl. Bot. 19: 235. 1972
 BASIONYM: *Polyporus chrysites* Berk.
 DISTRIBUTION: pantropical.
 Ref.: Gilbertson & Ryvarden 1987, Ryvarden & Johansen 1980, Corner 1991.

Schizoporaceae Jülich

Schizopora flavipora (Berk & M.A. Curtis ex Cooke) Ryvarden
 Mycotaxon 23: 186. 1985
 BASIONYM: *Poria flavipora* Berk. & M.A. Curtis ex Cooke
 DISTRIBUTION: cosmopolitan.
 Ref.: Gilbertson & Hemmes 1997.

Schizopora paradoxa (Schrad.) Donk
 Persoonia 5(1): 76. 1967.
 BASIONYM: *Hydnum paradoxum* Schrad.
 DISTRIBUTION: cosmopolitan.
 Ref.: Ryvarden & Johansen 1980, Gilbertson & Blackwell 1985, Nakasone 1990.

POLYPORALES Gäum.

Boreostereaceae Jülich

Mycobonia flava (Sw.) Fr.
 Bull. Soc. Mycol. Fr. 10: 77. 1894
 BASIONYM: *Peziza flava* Sw.
 DISTRIBUTION: neotropical.
 Ref.: Reid 1976.

Fomitopsidaceae Jülich

Fomitopsis feei (Fr.) Kreisel
 Ciencias Biológicas, Cuba 16: 83. 1971
 BASIONYM: *Polyporus feei* Fr.
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden & Johansen 1980, Carranza-Morse & Gilbertson 1986, Corner 1989.

Ganodermataceae Donk

Amauroderma omphalodes (Berk.) Torrend
 Broteria, Bot. 18: 131. 1920
 BASIONYM: *Polyporus omphalodes* Berk.

DISTRIBUTION: neotropical.
Ref.: Furtado 1981, Ryvarden 1984.

Ganoderma annulare (Lloyd) Boedijn
Bull. Jard. Bot. Buitenzorg 16: 391. 1940
BASIONYM: *Fomes annularis* Lloyd
DISTRIBUTION: cosmopolitan.
Ref.: Gerber & Loguercio-Leite 1997.

Ganoderma lucidum (Curtis) P. Karst.
Revue Mycol. (Toulouse) 3(9): 17. 1881
BASIONYM: *Boletus lucidus* Curtis
DISTRIBUTION: widely distributed.
Ref.: Nobles 1948, Steyaert 1975, Bazzalo & Wright 1982.

Ganoderma oerstedii (Fr.) Torrend
Bull. Torrey Bot. Club 29: 606. 1902
BASIONYM: *Polyporus oerstedii* Fr.
DISTRIBUTION: neotropical.
Ref.: Bazzalo & Wright 1982, Ryvarden 2004.

Ganoderma multiplicatum (Mont.) Pat.
Bull. Soc. Mycol. Fr. 5(2,3): 74. 1889
BASIONYM: *Polyporus multiplicatus* Mont.
DISTRIBUTION: neotropical.
Ref.: Ryvarden 2004.

Humphreya coffeata (Berk.) Steyaert
Persoonia 7(1): 102. 1972
BASIONYM: *Polyporus coffeatus* Berk.
DISTRIBUTION: neotropical.
Ref.: Steyaert 1972, Ryvarden 1976.

***Gloeophyllaceae* Jülich**

Gloeophyllum striatum (Sw.) Murrill
Torrey. Bot. Club 32(7): 370. 1905
BASIONYM: *Agaricus striatus* Sw.
DISTRIBUTION: pantropical.
Ref.: Ryvarden & Johansen 1980, Corner 1987.

***Grammotheleaceae* Jülich**

Grammothele subargentea (Speg.) Rajchenb.
Mycotaxon 17: 280. 1983
BASIONYM: *Poria subargentea* Speg.
DISTRIBUTION: pantropical.
Ref.: Rajchenberg 1984.

***Hapalopilaceae* Jülich**

Ceriporia xylostromatoides (Berk.) Ryvarden
Prelim. Polyp. Fl. E. Afr. (Oslo): 276. 1980
BASIONYM: *Polyoporus xylostromatoides* Berk.

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980, David & Rajchenberg 1985, Gilbertson & Blackwell 1985.

Ceriporiopsis cystidiata C.L. Leite et al.

Mycotaxon 79: 286. 2001

DISTRIBUTION: neotropical (Known only from Southern Brazil).

Ref.: Loguercio-Leite et al. 2001.

Ceriporiopsis pannocincta (Romell) Gilb. & Ryvarden

Mycotaxon 22(2): 364. 1985

BASIONYM: *Polyporus pannocinctus* Romell

DISTRIBUTION: cosmopolitan.

Ref.: Gilbertson & Ryvarden 1986.

Meripilaceae Jülich

Antrodia albida (Fr.) Donk

Persoonia 4(3): 339. 1966

BASIONYM: *Daedalea albida* Fr.

DISTRIBUTION: widely distributed.

Ref.: Ryvarden & Johansen 1980, Gilbertson & Ryvarden 1986.

Hydnopolyporus fimbriatus (Fr.) D. A. Reid

Persoonia 2(2): 151. 1962

BASIONYM: *Polyporus fimbriatus* Fr.

DISTRIBUTION: neotropical.

Ref.: Reid 1962, Fidalgo 1963, Stalpers 1978.

Physisporinus sanguinolentus (Alb. & Schwein.) Pilát

Atlas Champ. Eur., Polypor., B3: 248. 1940

BASIONYM: *Boletus sanguinolentus* Alb & Schwein.

DISTRIBUTION: widely distributed.

Ref.: Gilbertson & Ryvarden 1987, Gerber & Loguercio-Leite 2000.

Rigidoporus amazonicus Ryvarden

Mycotaxon 28(2): 537. 1987

DISTRIBUTION: neotropical (Known only from Brazil).

Ref.: Ryvarden 1987, Gerber & Loguercio-Leite 2000.

Rigidoporus lineatus (Pers.) Ryvarden

Norw. J. Bot. 19: 236. 1972

BASIONYM: *Polyporus lineatus* Pers.

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980.

Meruliaceae P. Karst.

Merulius tremellosus Schrad.

Spicil. Fl. Germ.: 139. 1794

DISTRIBUTION: pantropical.

Ref.: Eriksson & Ryvarden 1976, Ginns 1976.

Gloeoporus thelephoroides (Hook.) G. Cunn.

Bull. N.Z. Dept. Sci. Industr. Res., Pl. Dis. Div. 164: 111. 1965

BASIONYM: *Boletus theleporoides* Hook.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarde & Johansen 1980, Gilbertson & Ryvarde 1986, Corner 1989.

Podocyphaceae Reid

Cymatoderma caperatum (Berk. & Mont.) D.A. Reid
 Kew. Bull. 10: 635. 1956
 BASIONYM: *Thelephora caperata* Berk. & Mont.
 DISTRIBUTION: neotropical.
 Ref.: Reid 1965.

Polyporaceae Fr. ex Corda.

Coriopsis caperata (Berk.) Murrill
 N. Amer. Fl. (New York) 9(2): 77. 1908
 BASIONYM: *Polyporus caperatus* Berk.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarde & Johansen 1980.

Coriopsis polyzona (Pers.) Ryvarde
 Norw. J. Bot. 19: 230. 1972
 BASIONYM: *Polyporus polyzonus* Pers.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarde & Johansen 1980.

Coriopsis rigida (Berk. & Mont.) Murrill
 N. Amer. Fl. (New York) 9(2): 75. 1908
 BASIONYM: *Trametes rigida* Berk. & Mont.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarde & Johansen 1980.

Datronia scutellata (Schwein.) Gilb. & Ryvarde
 Mycotaxon 22(2): 364. 1985
 BASIONYM: *Polyporus scutellatus* Schwein.
 DISTRIBUTION: widely distributed.
 Ref.: Gilbertson & Ryvarde 1986.

Dichomitus anoetoporus (Berk. & M.A. Curtis) Ryvarde
 Mycotaxon 20(2): 331. 1984
 BASIONYM: *Polyporus anoetoporus* Berk. & M.A. Curtis
 DISTRIBUTION: neotropical.
 Ref.: Ryvarde 1984.

Dichomitus citricremus Masuka & Ryvarde
 Mycol. Res. 103(9): 1128. 1999
 DISTRIBUTION: pantropical.
 Ref.: Masuka & Ryvarde 1999, Goncalves & Loguercio-Leite 2001.

Diplomitoporus dilutabilis C.L. Leite & J.E. Wright
 Mycotaxon 68: 48. 1998
 DISTRIBUTION: neotropical (Known only from Southern Brazil).
 Ref.: Loguercio-Leite & Wright 1998.

- Fomes fasciatus* (Sw.) Cooke
 Grevillea 14(69): 21. 1885
 BASIONYM: *Boletus fasciatus* Sw.
 DISTRIBUTION: neotropical.
 Ref.: Gilbertson & Ryvarden 1986.
- Fomitella supina* (Sw.) Murrill
 Bull. Torrey bot. Club 32(7): 365. 1905
 BASIONYM: *Boletus supinus* Sw.
 DISTRIBUTION: pantropical.
 Ref.: Gerber 1996.
- Hexagonia hydnoides* (Sw.) M. Fidalgo
 Mem. N. Y. bot. Gdn. 17: 64. 1968
 BASIONYM: *Boletus hydnoides* Sw.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.
- Hexagonia tenuis* J.M. Hook
 Epicrisis Systematis Mycologici: 498. 1838
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Loguercio-Leite & Wright 1991.
- Laetiporus sulphureus* (Bull.) Murrill
 Annls mycol. 18(1/3): 51. 1920
 BASIONYM: *Boletus sulphureus* Bull.
 DISTRIBUTION: widely distributed.
 Ref.: Ryvarden & Johansen 1980, Corner 1984.
- Lentinus badius* (Berk.) Berk.
 J. Bot. 6: 491. 1847
 BASIONYM: *Panus badius* Berk.
 DISTRIBUTION: pantropical.
 Ref.: Pavlich 1976, Corner 1981.
- Lenzites betulina* (L.) Fr.
 Epicr. Syst. Mycol. (Upsaliae): 405. 1838
 BASIONYM: *Agaricus betulinus* L.
 DISTRIBUTION: cosmopolitan.
 Ref.: Gilbertson & Ryvarden 1987.
- Megasporoporia cavernulosa* (Berk.) Ryvarden
 Mycotaxon 16(1): 174. 1982
 BASIONYM: *Polyporus cavernulosus* Berk.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden et al. 1982.
- Megasporoporia setulosa* (Henn.) Rajchenb.
 Mycotaxon 16(1): 180. 1982
 BASIONYM: *Poria setulosa* Henn.
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden et al. 1982.

- Microporellus dealbatus* (Berk. & M.A. Curtis) Murrill
 Bull. Torrey bot. Club 32(9): 483. 1905
 BASIONYM: *Polyporus dealbatus* Berk. & M.A. Curtis
 DISTRIBUTION: neotropical.
 Ref.: David & Rajchenberg 1985.
- Nigroporus vinosus* (Berk.) Murrill
 Bull. Torrey bot. Club 32(7): 361. 1905
 BASIONYM: *Polyporus vinosus* Berk.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Corner 1987.
- Pachykytospora alabamae* (Berk. & Cooke) Ryvarden
 Norw. Jl. Bot. 19: 233. (1972)
 BASIONYM: *Polyporus alabamae* Berk. & Cooke
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Gilbertson & Blackwell 1985.
- Pachykytospora papyracea* (Schwein.) Ryvarden
 Norw. Jl. Bot. 19: 233. 1972
 BASIONYM: *Boletus papyraceus* Schwein.
 DISTRIBUTION: cosmopolitan.
 Ref.: Ryvarden & Johansen 1980, Gerber & Loguercio-Leite 1997.
- Perenniporia martii* (Berk.) Ryvarden
 Norw. Jl. Bot. 19: 143. 1972
 BASIONYM: *Polyporus martius* Berk.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Gerber et al. 1999, Decock & Herrera-Figueroa 2000.
- Perenniporia medulla-panis* (Jacq.) Donk
 Persoonia 5(1): 76. 1967
 BASIONYM: *Boletus medulla-panis* Jacq.
 DISTRIBUTION: cosmopolitan.
 Ref.: Ryvarden & Johansen 1980, Gerber et al. 1999, Decock & Stalpers 2006.
- Perenniporia ohiensis* (Berk.) Ryvarden
 Norw. Jl. Bot. 19: 143. 1972
 BASIONYM: *Trametes ohiensis* Berk.
 DISTRIBUTION: neotropical.
 Ref.: Gerber et al. 1999.
- Perenniporia piperis* (Rick) Rajchenb.
 Nordic Jl. Bot. 7(5): 555. 1987
 BASIONYM: *Fomes piperis* Rick
 DISTRIBUTION: neotropical.
 Ref.: Gerber et al. 1999.
- Perenniporia stipitata* Ryvarden
 Mycotaxon 28(2): 535. 1987
 DISTRIBUTION: neotropical.
 Ref.: Decock & Ryvarden 1998, Gerber et al. 1999.

- Perenniporia tephropora* (Mont.) Ryvarden
 Norw. Jl. Bot. 19: 233. 1972
 BASIONYM: *Polyporus tephroporus* Mont.
 DISTRIBUTION: widely distributed.
 Ref.: Gilbertson & Ryvarden 1987, Ryvarden & Johansen 1980.
- Polyporus blanchetianus* Berk. & Mont.
 Anns Sci. nat., Bot., III 11:238. 1849
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.
- Polyporus guianensis* Mont.
 Anns Sc. Nat., Bot., sér. 2 13(1): 201. 1840
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden & Johansen 1980, Corner 1983.
- Polyporus infernalis* Berk.
 J. Bot., London 2: 637. 1843
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.
- Polyporus leprieurii* Mont.
 Anns Sci. Nat., Bot., sér. 2 13: 203. 1840
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden & Johansen 1980, Nuñez & Ryvarden 1995.
- Polyporus tricholoma* Mont.
 Anns Sci. Nat., Bot., sér. 2 8: 365. 1837
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Nuñez & Ryvarden 1995.
- Polyporus virgatus* Berk. & M.A. Curtis
 J. Linn. Soc., Bot. 10: 304, 1868
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Nuñez & Ryvarden 1995.
- Pseudofavolus cucullatus* (Mont.) Pat.
 Essai taxonomique: 81. 1900
 BASIONYM: *Favolus cucullatus* Mont.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980, Nuñez & Ryvarden 1995.
- Pyrofomes fulvoumbrinus* (Bres.) A. David & Rajchenb.
 Mycotaxon 22(2): 313. 1985
 BASIONYM: *Fomes fulvoumbrinus* Bres.
 DISTRIBUTION: neotropical (Known only from Southern Brazil).
 Ref.: David & Rajchenberg 1985.
- Rubroporus carneoporis* C.L. Leite et al.
 Mycotaxon 83: 223-227. 2002
 DISTRIBUTION: neotropical (Known only from Southern Brazil).
 Ref.: Loguercio-Leite et al. 2002.
- Skeletocutis diluta* (Rajchenb.) A. David & Rajchenb.

Mycotaxon 45: 144. 1992
 BASIONYM: *Skeletocutis nivea* var. *diluta* Rajchenb.
 DISTRIBUTION: pantropical.
 Ref.: David & Rajchenberg 1992.

Stiophyllum erubescens (Berk.) Ryvarden
 Norw. Jl. Bot. 20: 4. 1973
 BASIONYM: *Daedalea erubescens* Berk.
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden 1973.

Tinctoporellus epimiltinus (Berk. & Broome) Ryvarden
 Trans. Br. Mycol. Soc. 73(1): 18. 1979
 BASIONYM: *Polyporus epimiltinus* Berk. & Broome
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.

Trametes cubensis (Mont.) Sacc.
 Syll. Fung. (Abellini) 9: 198. 1891
 BASIONYM: *Polyporus cubensis* Mont.
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden 1982.

Trametes elegans (Spreng.) Fr.
 Epicr. Syst. Mycol. (Upsaliae): 492. 1838
 BASIONYM: *Daedalea elegans* Spreng.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.

Trametes pavonia (Hook.) Ryvarden
 Norw. Jl. Bot. 19: 236. 1972
 BASIONYM: *Boletus pavonius* Hook.
 DISTRIBUTION: neotropical.
 Ref.: Gilbertson & Ryvarden 1987.

Trametes socotrana Cooke
 Grevillea 11(no. 57) 39. 1882
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.

Tyromyces crassisporus C.L. Leite & J.E. Wright
 Mycotaxon 41(1): 169. 1991
 DISTRIBUTION: neotropical (Known only from Southern Brazil).
 Ref.: Loguercio-Leite & Wright 1991.

Tyromyces hypocitrinus (Berk.) Ryvarden
 Mycotaxon 20(2): 344. 1984
 BASIONYM: *Polyporus hipocitrinus* Berk.
 DISTRIBUTION: neotropical (Known only from Brazil).
 Ref.: Ryvarden 1984.

Tyromyces tephrus (Pat.) Ryvarden
 Occas. Pap. Farlow Herbarium of Cryptogamic Botany 18: 35. 1983

BASIONYM: *Poria tephra* Pat.
 DISTRIBUTION: neotropical.
 Ref.: Lowe 1966.

***Sistotremataceae* Jülich**

Trechispora farinacea (Pers.) Liberta
 Taxon 15(8): 318. 1966
 BASIONYM: *Hydnum farinaceum* Pers.
 DISTRIBUTION: cosmopolitan.
 Ref.: Larsson 1995, Gilbertson & Hemmes 1997.

Trechispora mollusca (Pers.) Liberta
 Can. J. Bot. 51(10): 1878. 1974
 BASIONYM: *Boletus molluscus* Pers.
 DISTRIBUTION: cosmopolitan.
 Ref.: Ryvarden & Johansen 1980.

***Steccherinaceae* Parmasto**

Flaviporus liebmannii (Fr.) Ginns
 Can. J. Bot. 58(14): 1584. 1980
 BASIONYM: *Polyporus liebmannii* Fr.
 DISTRIBUTION: pantropical.
 Ref.: Ryvarden & Johansen 1980.

Flaviporus subhydrophilus (Speg.) Rajchenb. & J.E. Wright
 Mycologia 79(2): 259. 1987
 BASIONYM: *Polystictus subhydrophilus* Speg.
 DISTRIBUTION: neotropical.
 Ref.: Gerber & Loguercio-Leite 1997.

Junghuhnia polycystidifera (Rick) Rajchenb.
 Nordic Jl. Bot. 7(5): 566. 1987
 BASIONYM: *Poria polycystidifera* Rick
 DISTRIBUTION: neotropical.
 Ref.: Rajchenberg 1987.

Junghuhnia undigera (Berk. & M.A. Curtis) Ryvarden
 Mycotaxon 20(2): 359. 1984
 BASIONYM: *Polyporus undiger* Berk. & M.A. Curtis
 DISTRIBUTION: neotropical.
 Ref.: Ryvarden 1984.

Steccherinum ochraceum (Pers.) Gray
 Nat. Arr. Brit. Pl. (London) 1: 651. 1821
 BASIONYM: *Hydnum ochraceum* Pers.
 DISTRIBUTION: cosmopolitan.
 Ref.: Gilbertson & Blackwell 1987, Ellis & Ellis 1990.

Steccherinum reniforme (Berk. & M.A. Curtis) Banker
 Mem. Torrey. Bot. Club 12: 127. 1906
 BASIONYM: *Hydnum reniforme* Berk. & M.A. Curtis

DISTRIBUTION: neotropical.
Ref.: Hjortstam & Larsson 1995.

RUSSULALES Kreisel ex. P.M. Kirk, P.F. Cannon & J.C. David

Bondarzewiaceae Kotl. & Pouzar

Amylosporus bracei (Murrill) A. David & Rajchenb.

Mycotaxon 22(2): 288. 1985

BASIONYM: *Poria bracei* Murrill

DISTRIBUTION: neotropical.

Ref.: David & Rajchenberg 1985.

Stecchericum seriatum (Lloyd) Maas Geest.

Proc. Kon. Ned. Akad. Wetensch., 2 Sectie 69: 325. 1966

BASIONYM: *Hydnum seriatum* Lloyd

DISTRIBUTION: neotropical.

Ref.: Burdsall & Nakasone 1983.

Wrightoporia avellanea (Bres.) Pouzar

Ceská Mykol. 20: 173. 1966

BASIONYM: *Poria avellanea* Bres.

DISTRIBUTION: pantropical.

Ref.: Ryvarden & Johansen 1980.

Wrightoporia porilacerata C.L. Leite et al.

Mycotaxon 67: 252. 1998

DISTRIBUTION: neotropical (Known only from Southern Brazil).

Ref.: Loguercio-Leite et al. 1998.

AURICULARIALES J. Schröt

Auriculariaceae Fr.

Auricularia delicata (Fr.) Henn.

Bot. Jb. 17: 492. 1893

BASIONYM: *Laschia delicata* Fr.

DISTRIBUTION: pantropical.

Ref.: Lowy 1952.

Auricularia fuscosuccinea (Mont.) Henn.

Bot. Jb. 17: 19. 1893

BASIONYM: *Hirneola fuscosuccinea* Mont.

DISTRIBUTION: pantropical.

Ref.: Lowy 1952.

Auricularia polytricha (Mont.) Sacc.

Atti Inst. Veneto Sci. Lett., ed Arti, Série 6 3: 722. 1885

BASIONYM: *Exidia polytricha* Mont.

DISTRIBUTION: cosmopolitan.

Ref.: Lowy 1952.

TREMELLALES Fr.

Aporpiaceae Bondartsev & Bondartseva

Elmerina caryae (Schwein.) D.A. Reid
 Persoonia 14(4): 471. 1992
 BASIONYM: *Polyporus caryae* Schwein.
 DISTRIBUTION: cosmopolitan.
 Ref.: Reid 1992.

Elmerina dimidiata (A. David) D.A. Reid 1992
 Persoonia 14(4): 472. 1992
 BASIONYM: *Aporpium dimidiatum* A. David
 DISTRIBUTION: neotropical.
 Ref.: David 1974.

Exidiaceae R. T. Moore

Protomerulius substuppeus (Berk. & Cooke) Ryvarden
 Syn. Fung. (Oslo) 5: 212. 1991
 BASIONYM: *Polyporus substuppeus* Berk. & Cooke
 DISTRIBUTION: neotropical (Known only from Brazil).
 Ref.: Rajchenberg 1987.

Acknowledgements

The work was supported by a Masters Scholarship from CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior/Brazil) to the first author. Many thanks are due to Dr. Leif Ryvarden, Dr. Mario Rajchenberg, and Dr. Orlando Popoff for expert review of the manuscript. Dr. Marcela Cáceres is warmly acknowledged for her assistance concerning the English language.

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- Oxyporus*, *Paratrichaptum*, *Rigidoporus*, *Scenidium*, *Trichaptum*, *Vanderbylia*, and *Steccherinum*. Beihefte zur Nova Hedwigia 86: 1-265.
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