



Checklist of Central and South American Agaricales (Basidiomycota) I: Entolomataceae

Coimbra VRM¹

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Abstract

A literature-based checklist of Entolomataceae species (Agaricales, Basidiomycota) occurring in Central and South Americas is provided. In total, 271 species belonging to 13 genera are reported, representing roughly 18% of the known taxa worldwide. Here, Brazil (107 spp.) and Argentina (80 spp.) were the most representative countries. This list does not reflect the real diversity of Entolomataceae in Neotropics but covers only our limited and inconclusive knowledge.

Key words – agarics – America – diversity

Introduction

Entolomataceae Kotl. & Pouzar (Agaricales, Basidiomycota) is a very rich family which includes more than 1,500 species distributed worldwide and occurring in almost every kinds of vegetation and soil (Noordeloos 1987, Co-David 2009, Noordeloos & Gates 2012). Most of its members are saprophytic, but few ectomycorrhizal species are known (Antibus et al. 1981, Noordeloos 1984, Agerer & Waller 1993).

This family has been subject of several taxonomic studies around the world, mainly: Africa (Eyssartier et al. 2001, Noordeloos & Hauksnecht 2007), Asia (Manimohan et al. 1995, 2006, He et al. 2013), Europe (Noordeloos 1987, Orton 1991, Noordeloos & Morozova 2010), Oceania (Horak 1980, Gates & Noordeloos 2007, Noordeloos & Gates 2012) and North America (Baroni & Largent 1989, Horak & Desjardin 1993, Largent 1994).

For Central and South Americas, the works of Singer (1969), Horak (1978, 1982), Baroni & Halling (1992, 2000), Baroni & Lodge (1998), Baroni et al. (2008, 2012), Largent et al. (2008), Aime et al. (2010), Coimbra et al. (2013) and Karstedt & Capelari (2013) are noteworthy. Despite of these contributions, some of the Entolomataceae species occurring in these continents are recorded on Agaricales or macrofungi regional monographs or checklists, most with limited availability.

The aim of this work is provide a complete literature-based checklist of the Entolomataceae species recorded to Central and South America, evidencing the current panorama of taxonomic knowledge of these fungi.

Methods

This checklist includes data gathered only on published papers and books up to 16 April 2014, not including information from websites and Masters/PhD dissertations. Taxa unidentified at specific level were not included (e.g. *Entoloma* sp.) as well doubtful ones (species without and/or unknown deposited material or referred as 'excluded taxa' on the publications). Herbaria data were also not included in this list (for voucher numbers, see respective references).

Despite of the clear separation of Entolomataceae species with bumped or ridged basidiospores (without true facets) as suggested by Co-David et al. (2009), there is no consensus on the scientific community related to the generic classification of angular-spored taxa (with true facets). Due the high morphological variability found between species with this kind of basidiospores, *Entoloma* taxa are treated here in a narrower sense, following Largent (1994). For bumped- to ridged-spored taxa (*Clitopilus* spp.), the generic classification of Co-David et al. (2009) was adopted. Some taxa labeled as *Rhodocybe* Maire or *Rhodophyllus* Quél. and without combination in *Clitopilus* (Fr. ex Rabenh.) P. Kumm. and *Entoloma* (Fr. ex Rabenh.) P. Kumm. respectively, were inserted in the end of the list, in a special section. Nomenclatures followed the databases MycoBank and Index Fungorum.

Results and Discussion

Through extensive research, a total of 271 Entolomataceae species were listed to Neotropics (Table 1) based on previously published information. If considered the estimated number of described entolomatoid fungi to the world (<1,500 spp.), the recorded species to this biogeographical region roughly represents 18% of the world known diversity. Despite its variety of biomes (Amazon Forest, Atlantic Forest, Pampas, Páramos, among others) and their high diversity and endemism rates, this value can be similar to the *Entoloma* richness in Europe - 217 spp. - (Noordeloos 1987). Also noteworthy, 100 species were recorded only to the island of Tasmania, South Australia (Noordeloos & Gates 2012), almost the same quantity known for Brazil. The total number of recorded Entolomataceae species in Central and South Americas clearly does not reflect its real diversity but, mainly, the lack of more specific studies in these areas.

Brazil and Argentina have, maybe due to their mycological tradition and the past efforts of Rolf Singer and Egon Horak among others, the highest number of records (107 and 80, respectively). Central American countries had lower numbers, but the contributions of Timothy Baroni and colleagues are noteworthy. In contrast, nations as Belize, El Salvador, Equator, Guatemala, Haiti, Honduras, Nicaragua, Paraguay, Peru, Suriname and Uruguay, as well some Caribbean Islands are poorly studied. In most of these countries, agaricologists are virtually inexistent; however, the scarcity of trained professional is not only a regional problem, but a worldwide phenomenon. Therefore, the list below (Table 1) is the result of our preliminary knowledge on Entolomataceae fungi in the the region of interest.

Table 1 List of Entolomataceae species recorded to Central and South America.

Taxa	Distribution	Reference
<i>Alboleptonia aripoana</i> (Dennis) Pegler	BRA, DMA, MTQ, TTO	Dennis (1953) and Pegler (1983); Wartchow et al. (2011) as <i>Entoloma aripoanum</i>
<i>Alboleptonia cylindrocapitata</i> T.J. Baroni & Ovrebo	PAN	Ovrebo & Baroni (2007)
<i>Alboleptonia cyathiformis</i> (Dennis) Pegler	BRA, MTQ, TTO	Pegler (1983) and Putzke & Cavalcanti (1997); Dennis (1953) as <i>E. cyathiforme</i>
<i>Alboleptonia earlei</i> (Murrill) Largent & R. G. Benedict	CRC, CUB	Largent & Benedict (1970) and Baroni & Halling (2000); Pegler (1987) as <i>L. earlei</i>
<i>Alboleptonia flavifolia</i> Baroni & Lodge	PRI	Baroni & Lodge (1998)
<i>Alboleptonia hyalodepas</i> (Berk. & Br.) Pegler	MTQ	Pegler (1983)
<i>Alboleptonia largentii</i> Baroni & Lodge	PRI	Baroni & Lodge (1998)
<i>Alboleptonia stylophora</i> (Berk. & Broome) Pegler	BRA, CRC, MTQ, PRI, TTO	Pegler (1983) and Ovrebo (1996); Dennis (1970) and Putzke & Cavalcanti (1997) as <i>E. stylophorum</i>

<i>Alboleptonia sericella</i> (Fr.) Largent & R.G. Benedict	BRA	Maziero et al. (2013)
<i>Alboleptonia subrosea</i> Baroni & Lodge	PRI	Baroni & Lodge (1998)
<i>Alboleptonia sulcata</i> Baroni & Lodge	PRI	Baroni & Lodge (1998)
<i>Calliderma caeruleosplendens</i> Largent, Aime et T.W. Henkel	GUY	Aime et al. (2010)
<i>Calliderma fibulatum</i> Karstedt & Capelari	BRA	Karstedt & Capelari (2010)
<i>Calliderma pruinatocutis</i> (E. Horak) Karstedt & Capelari	BRA	Karstedt & Capelari (2010).
<i>Calliderma rimosum</i> Karstedt & Capelari	BRA	
<i>Calliderma tucuchense</i> (Dennis) Karstedt & Capelari	BRA, GUF, TTO	Karstedt & Capelari (2010); Dennis (1953), Horak (1978, 1982), Courtecuisse et al. (1996), Wartchow et al. (2011) and Coimbra et al. (2013) as <i>E. tucuchense</i>
<i>Claudopus tympanifer</i> E. Horak	BRA	Horak (1982); Meijer (2006) as <i>E. tympanifer</i>
<i>Clitopilus aff. albovelutinus</i> (G. Stev.) Noordel. & Co-David	BRA	Meijer (2006) as <i>Rhodocybe aff. albovelutina</i>
<i>Clitopilus argentinus</i> Singer	ARG, COL	Wright & Albertó (2002), Franco-Molano et al. (2010) and Niveiro & Albertó (2014)
<i>Clitopilus caelatoideus</i> (Dennis) Noordel. & Co-David	BRA, MTQ, VEN	Dennis (1961), Baroni (1981), Pegler (1983) and Meijer (2006) as <i>R. caelatoidea</i>
<i>Clitopilus caelatus</i> (Fr.) Kuhner & Romagn.	ARG, BRA, CHI	Baroni (1981) and Meijer (2006) as <i>R. caelata</i> ; Singer (1969) and Niveiro & Albertó (2014) as <i>R. caelata</i> and <i>R. australis</i>
<i>Clitopilus claudopus</i> (Singer ex T.J. Baroni) Noordel. & Co-David	ARG	Baroni (1981)
<i>Clitopilus collybioides</i> (Singer) Noordel. & Co-David	ARG, BOL, CHI	Singer (1969) and Baroni (1981); Niveiro & Albertó (2014) as <i>Rhodocybe collybioides</i>
<i>Clitopilus conchatus</i> (E. Horak) Noordel. & Co-David	BRA	Meijer (2006) as <i>R. aff. conchata</i>
<i>Clitopilus conicus</i> (Singer) Noordel. & Co-David	BRA	Singer (1989) as <i>R. conica</i>
<i>Clitopilus crepidotoides</i> (Singer) Noordel. & Co-David	ARG, BOL, BRA	Singer (1973), Baroni (1981), Pegler (1997) and Niveiro & Albertó (2014) as <i>R. crepidotoides</i>
<i>Clitopilus crystallinus</i> (T.J. Baroni) Noordel. & Co-David	VEN	Baroni & Halling (1992)
<i>Clitopilus densifolius</i> (T.J. Baroni & Ovrebo) Noordel. & Co-David	CRC, PAN	Ovrebo & Baroni (1988) and Ovrebo & Baroni (2007) as <i>R. densifolia</i>
<i>Clitopilus eccentricus</i> (T.J. Baroni & Ovrebo) Noordel. & Co-David	CRC	Ovrebo & Baroni (1988)
<i>Clitopilus farctipes</i> (Speg.) Singer	ARG	Wright & Albertó (2002)
<i>Clitopilus filifer</i> (Speg.) Singer	ARG	Niveiro & Albertó (2014)
<i>Clitopilus galerinoides</i> (Singer) Noordel. & Co-David	BOL	Singer (1962) and Baroni (1981) as <i>R. galerinoides</i>
<i>Clitopilus giovanellae</i> (Bres.) Joss.	ARG	Niveiro & Albertó (2014)
<i>Clitopilus griseobrunneus</i> T. J. Baroni & Halling	CRC	Baroni & Halling (2000) and Halling & Mueller (2005)
<i>Clitopilus griseolus</i> (T.J. Baroni & Halling) Noordel. & Co-David	EQU	Baroni & Halling (1992) as <i>R. griseola</i>
<i>Clitopilus himantiigenus</i> (Speg.) Noordel. & Co-David	ARG	Singer (1969), Wright & Albertó (2002) and Niveiro & Albertó (2014) as <i>R. himantiigena</i>
<i>Clitopilus hobsonii</i> (Berk. & Br.) Orton var. <i>hobsonii</i>	ARG, BOL, BRA, CHI, CRC, JAM, VEN	Dennis (1968), Singer (1969), Singer & Aguiar (1986), Baroni & Halling (2000), Wright & Albertó (2002) and Niveiro & Albertó (2014)
<i>Clitopilus hobsonii</i> var. <i>hobsonii</i> Singer	CHI	Singer (1969)
<i>Clitopilus hygrophoroides</i> (T.J. Baroni & Halling) Noordel. & Co-David	VEN	Baroni & Halling (1992)
<i>Clitopilus incarnatus</i> (T.J. Baroni & Halling) Noordel. & Co-David	VEN	Baroni & Halling (1992)
<i>Clitopilus incrustatus</i> Singer	ARG, BRA, CRC	Baroni & Halling (2000), Putzke & Putzke (2000) and Niveiro & Albertó (2014)

<i>Clitopilus lactariiformis</i> (Singer) Noordel. & Co-David	BOL	Singer (1962) and Baroni (1981) as <i>R. lactariiformis</i>
<i>Clitopilus laetus</i> (Singer) Noordel. & Co-David	BOL	Baroni (1981)
<i>Clitopilus levisporus</i> (de Meijer) de Meijer	BRA	Meijer (2008) as <i>R. levispora</i>
<i>Clitopilus luteocinnamomeus</i> (T.J. Baroni & Ovrebo) Noordel. & Co-David	PAN	Ovrebo & Baroni (2007)
<i>Clitopilus marasmioides</i> (Singer) Noordel. & Co-David	ARG	Niveiro & Albertó (2014) as <i>Rhodocybe marasmioides</i>
<i>Clitopilus melleus</i> (T.J. Baroni & Ovrebo) Noordel. & Co-David	BRA, CRC	Ovrebo & Baroni (1988), Baroni & Halling (2000) and Halling & Mueller (2005); Meijer (2006) as <i>R. aff. mellea</i>
<i>Clitopilus mycenoides</i> (Singer) Noordel. & Co-David	ARG, BRA	Baroni (1981), Meijer (2006) and Niveiro & Albertó (2014) as <i>R. mycenoides</i>
<i>Clitopilus naucoria</i> (Singer) Noordel. & Co-David	ARG	Singer & Digilio (1951), Baroni (1981) and Niveiro & Albertó (2014) as <i>R. naucoria</i>
<i>Clitopilus nitellinus</i> (Fr.) Noordel. & Co-David	COL	Vasco-Palacios et al. (2005) as <i>R. nitellina</i>
<i>Clitopilus passeckerianus</i> (Pilát) Singer	ARG	Wright & Albertó (2002) and Niveiro & Albertó (2014)
<i>Clitopilus pinsitus</i> (Fr.) Joss.	ARG	Niveiro & Albertó (2014)
<i>Clitopilus popinalis</i> (Fr.) P. Kumm.	PRY	Baroni (1981) as <i>R. mundula</i> .
<i>Clitopilus porcelanicus</i> (Dennis) Noordel. & Co-David	DMA, MTQ, VEN	Dennis (1961) as <i>Eccilia porcelanica</i> ; Baroni (1981) and Pegler (1983) as <i>R. porcelanica</i>
<i>Clitopilus pseudonitellinus</i> (Dennis) Noordel. & Co-David	BRA, TTO	Pegler (1983), Baroni & Halling (2000) and Meijer (2006) as <i>R. pseudonitellina</i>
<i>Clitopilus pussillimus</i> (Speg.) Singer	ARG	Wright & Albertó (2002) and Niveiro & Albertó (2014)
<i>Clitopilus rhodotrama</i> Singer	ARG, BRA, CRC, DMA, VEN	Dennis (1961), Pegler (1983), Baroni & Halling (2000), Puztke & Putzke (2000) and Niveiro & Albertó (2014)
<i>Clitopilus russularia</i> (Singer) Noordel. & Co-David	BOL	Baroni (1981)
<i>Clitopilus semiarboricola</i> (T.J. Baroni) Noordel. & Co-David	ARG	Baroni (1981)
<i>Clitopilus scyphoides</i> (Fr.) Singer	MTQ	Pegler (1983)
<i>Clitopilus scyphoides</i> var. <i>submicropus</i> (Rick) Singer	BRA	Puztke & Putzke (2000)
<i>Clitopilus septicoides</i> (Henn.) Singer	ARG	Niveiro & Albertó (2014)
<i>Clitopilus testaceus</i> (Dennis) Noordel. & Co-David	GUF, MTQ, VEN	Dennis (1961), Pegler (1983) and Courtecuisse et al. (1996) as <i>R. testacea</i>
<i>Clitopilus umbrosus</i> (T.J. Baroni & Halling) Noordel. & Co-David	CRC	Baroni & Halling (2000); Halling & Mueller (2005) as <i>R. umbrosa</i>
<i>Clitopilus venososulcatus</i> Singer	ARG	Niveiro & Albertó (2014)
<i>Eccilia farctipes</i> Speg.	ARG	Niveiro & Albertó (2014)
<i>Eccilia odorata</i> Pegler	MTQ	Pegler (1983)
<i>Eccilia vespertilio</i> (Berk.) Pegler	BRA	Pegler (1987)
<i>Entoloma acutopallidum</i> E. Horak & Cheype	GUF	Horak & Cheype (2009)
<i>Entoloma andinum</i> Dennis	VEN	Dennis (1961)
<i>Entoloma antillancae</i> E. Horak	BRA, CHI	Horak (1978); Meijer (2006) as <i>E. aff. antillancae</i>
<i>Entoloma arachnoideus</i> (Berk. & M. A. Curtis) Singer	CUB	Pegler (1987) as <i>Claudopus arachnoideus</i>
<i>Entoloma argentinum</i> (Speg.) E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014); Wright & Albertó (2002) as <i>R. argentinus</i>
<i>Entoloma atropileatum</i> Dennis	VEN	Dennis (1961) as <i>L. sericella</i> ; Horak (1978)
<i>Entoloma austroanatinum</i> (Singer) E. Horak	ARG, CHI	Horak (1978) and Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus austroanatinum</i>
<i>Entoloma bloxamii</i> (Berk. & Broome) Sacc.	BRA	Meijer (2006)
<i>Entoloma brunneolum</i> Hesler	JAM	Dennis (1968) as <i>N. jamaicensis</i>
<i>Entoloma brunneum</i> var. <i>chilensis</i> E. Horak	CHI	Horak (1976, 1978)
<i>Entoloma brunneostriatum</i> Dennis	TTO	Dennis (1953) and Horak (1976); Pegler (1983) as <i>Eccilia brunneostriata</i>

<i>Entoloma callidermum</i> (Romagn.) Noordel. & Co-David	BRA	Meijer (2006) as <i>R. callidermus</i>
<i>Entoloma cantharelluloides</i> (Singer) E. Horak	BRA	Horak (1978)
<i>Entoloma caribaeum</i> (Pegler) Courtec. & Fiard	BRA	Meijer (2006) and Coimbra et al. (2013)
<i>Entoloma</i> aff. <i>cedretorum</i> (Romagn. & Rioussset) Noordel.	BRA	Meijer (2008)
<i>Entoloma cerussatum</i> Pegler	BRA, MTQ, GLP	Pegler (1983) and Bononi et al. (2008)
<i>Entoloma chalybeum</i> var. <i>lazulinum</i> (Fr.) Noordel.	ARG, CHI	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus lazulinus</i>
<i>Entoloma chloropolium</i> (Fr.) M. Moser	ARG, CHI	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus chloropolius</i>
<i>Entoloma clitocyboides</i> E. Horak & Singer	BRA, COL	Horak (1982) and Vasco-Palacios et al. (2005); Meijer (2006) as <i>E. cf. clytocyboides</i>
<i>Entoloma conspicuocystidiosum</i> E. Horak & Singer	BRA	Horak (1982) and Singer & Aguiar (1986)
<i>Entoloma corvinum</i> (Kühner) Noordel.	ARG	Niveiro & Albertó (2014)
<i>Entoloma cryptochroum</i> (Singer) E. Horak	ARG, CHI	Horak (1978) and Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus cryptochrous</i>
<i>Entoloma cubensis</i> (Murrill) Dennis	CUB, TTO	Horak (1977); Pegler (1987) as <i>Eccilia cubensis</i>
<i>Entoloma cucurbita</i> E. Horak	ARG, CHI	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma</i> aff. <i>cuniculorum</i> Arnolds & Noordel.	BRA	Meijer (2006)
<i>Entoloma cutifractum</i> E. Horak & Singer	BRA	Horak (1982)
<i>Entoloma dennisii</i> Horak	DMA, GLP, MTQ, TTO	Horak (1976, 1978); Pegler (1983) as <i>I. dennisii</i>
<i>Entoloma depluens</i> (Batsch) Hesler	BRA, VEN	Dennis (1961); Pegler (1997) as <i>C. depluens</i>
<i>Entoloma disputatum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma dissimile</i> (Singer) E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma elaboratum</i> E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma entolomoides</i> (Pegler) Courtec. & Fiard	DMA, MTQ	Pegler (1983) as <i>I. entolomoides</i>
<i>Entoloma excentricum</i> Bres.	ARG	Niveiro & Albertó (2014)
<i>Entoloma</i> aff. <i>farinogustus</i> Arnolds & Noordel.	BRA	Meijer (2006)
<i>Entoloma ferrugineogranulatum</i> (Singer) E. Horak	BRA, COL	Horak (1978) and Meijer (2006)
<i>Entoloma fiardii</i> Courtec.	GLP, MTQ	Pegler (1983) as <i>I. bombycinus</i>
<i>Entoloma flavotinctum</i> E. Horak & Corner	BRA	Horak (1982)
<i>Entoloma fragilum</i> Largent & Aime	GUY	Largent et al. (2008)
<i>Entoloma fuscorufescens</i> (Speg.) E. Horak	BRA	Horak (1978); Pegler (1997) as <i>Eccilia fuscorufescens</i>
<i>Entoloma gainsvillae</i> Morgan-Jones	BRA, CUB	Pegler (1987) as <i>Claudopus cyaneus</i> ; Putzke & Cavalcanti (1997) as <i>E. cyaneum</i>
<i>Entoloma garibaldii</i> E. Horak	ARG	Horak (1978); Niveiro & Albertó (2014) as <i>Rhodophyllus garibaldii</i>
<i>Entoloma gerronematoides</i> (Raithelh.) Raithelh	ARG	Niveiro & Albertó (2014)
<i>Entoloma glycosmum</i> (Pegler) Courtec. & Fiard	GLP	Pegler (1983) as <i>Inopilus glycosmus</i>
<i>Entoloma haastii</i> Stevenson	CHI	Horak (1978)
<i>Entoloma hololeucum</i> (Singer) E. Horak	ARG, BRA, CHI	Horak (1978); Meijer (2006) as <i>E. aff. hololeucum</i> ; Singer (1969) as <i>Rhodophyllus hololeucus</i>
<i>Entoloma howellii</i> (Peck) Dennis	MTQ, TTO	Dennis (1953) and Pegler (1983)
<i>Entoloma illinita</i> Largent & Aime	GUY	Largent et al. (2008)
<i>Entoloma imbecille</i> E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma impedidum</i> E. Horak	ARG, CHI	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma infirmum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma inocephalum</i> (Romagn.) Dennis	BRA, DMA, GLP, MTQ, TTO	Dennis (1953), Putzke & Putzke (2000) and Coimbra et al. (2013); Meijer (2006) as <i>E. aff. inocephalum</i> ; Pegler (1983) as <i>I. inocephalus</i>

<i>Entoloma kamerunense</i> (Bres.) Horak	BRA GLP, MTQ	Pegler (1983) as <i>I. kamerunense</i>
<i>Entoloma lacteonigrum</i> (Singer) E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus lacteoniger</i>
<i>Entoloma lazoii</i> E. Horak	CHI	Horak (1978)
<i>Entoloma lazulinellum</i> (Singer) E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma lilacinogriseum</i> (Raithelh.) Raithelh.	ARG	Niveiro & Albertó (2014)
<i>Entoloma lilacipes</i> E. Horak	CHI	Horak (1978)
<i>Entoloma lividoalbum</i> (Kuhner & Romagn.) Moser	BRA	Albuquerque et al. (2007)
<i>Entoloma longistriatum</i> var. <i>sarcitulum</i> (P.D. Orton) Noordel.	ARG	Niveiro & Albertó (2014)
<i>Entoloma lowyi</i> (Singer) E. Horak	BRA	Horak (1978)
<i>Entoloma luteifolium</i> Hesler	COL	Vasco-Palacios et al (2005) as <i>Eccilia earlei</i>
<i>Entoloma luteosplendidum</i> E. Horak & Cheype	BRA, GUF	Horak & Cheype (2007) and Coimbra et al. (2013)
<i>Entoloma lycopersicum</i> E. Horak & Singer	BRA, GUF	Horak (1982) and Courtecuisse et al. (1996)
<i>Entoloma lyophylliforme</i> (Singer) E. Horak	BRA, COL	Singer (1973) as <i>R. lyophylliformis</i> ; Horak (1978) and Pegler (1997)
<i>Entoloma machiellii</i> de Meijer	BRA	Meijer (2008)
<i>Entoloma maculosum</i> (Pegler) Courtec. & Fiard	DMA, MTQ	Pegler (1983) as <i>I. maculosus</i>
<i>Entoloma madidum</i> (Fr.) Gillet	GLP, MTQ	Pegler (1983)
<i>Entoloma magnificum</i> (Pegler) Courtec. & Fiard	DMA, GLP, MTQ	Pegler (1983) as <i>I. magnificus</i>
<i>Entoloma martinicum</i> (Pegler) Courtec. & Fiard	GLP, MTQ	Pegler (1983) as <i>Eccilia martinica</i>
<i>Entoloma mesospermum</i> E. Horak	CHI	Horak (1976, 1978)
<i>Entoloma minutoalbum</i> E. Horak	ARG	Horak (1976, 1978) and Niveiro & Albertó (2014)
<i>Entoloma murinoalbum</i> E. Horak & Singer	BRA	Horak (1982)
<i>Entoloma myceliosum</i> E. Horak	CHI	Horak (1976, 1978)
<i>Entoloma necopinatum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma neoturbidum</i> Pegler	MTQ	Pegler (1983)
<i>Entoloma nitens</i> (Velen.) Noordel.	ARG, CHI	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus nitens</i>
<i>Entoloma nitens</i> var. <i>defibulatus</i> (Singer) Garrido	CHI	Singer (1969) as <i>Rhodophyllus nitens</i> var. <i>defibulatus</i>
<i>Entoloma novum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma nubigenum</i> (Singer) Garrido	ARG	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus nubigenus</i>
<i>Entoloma obscurum</i> Dennis	TTO	Dennis (1953) and Horak (1978)
<i>Entoloma obtusisporum</i> E. Horak	BRA	Horak (1982) and Meijer (2006)
<i>Entoloma occultum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma olivaceocolaratum</i> Largent & T.W. Henkel	GUY	Largent et al. (2008)
<i>Entoloma olivaesimile</i> E. Horak	ARG	Horak (1982) and Niveiro & Albertó (2014)
<i>Entoloma pampeanum</i> Speng.	ARG, BRA	Horak (1978), Putzke & Cavalcanti (1997), Wright & Albertó (2002) and Niveiro & Albertó (2014)
<i>Entoloma patagonicum</i> (Singer) E. Horak	ARG, CHI	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma peculiare</i> Horak & Corner	BRA	Horak (1983)
<i>Entoloma plectum</i> E. Horak	ARG	Horak (1978); Niveiro & Albertó (2014) as <i>Rhodophyllus plectus</i>
<i>Entoloma perbrevisporum</i> (Singer) E. Horak	BRA	Horak (1978)
<i>Entoloma pileofibrosus</i> E. Horak & Cheype	GUF	Horak & Cheype (2009)
<i>Entoloma politum</i> (Pers.) Donk	ARG	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus politus</i>
<i>Entoloma portentosum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma proximum</i> E. Horak	ARG, BRA	Horak (1978) and Niveiro & Albertó (2014); Meijer (2006) as <i>E. cf. proximum</i>
<i>Entoloma pruinatocutis</i> E. Horak	BRA	Horak (1982) and Meijer (2006)
<i>Entoloma pruinatum</i> E. Horak	ARG	Horak (1983) and Niveiro & Albertó (2014)

<i>Entoloma pruinosipes</i> Singer	ARG	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus pruinosipes</i>
<i>Entoloma</i> aff. <i>pseudopapillatum</i> (Pegler) Courtec. & Fiard	BRA	Maziero et al. (2013)
<i>Entoloma pumaquense</i> (Singer) E. Horak	ARG, CHI	Horak (1978); Singer (1969) as <i>Rhodophyllus pumanquensis</i>
<i>Entoloma radicum</i> Pegler	BRA	Coimbra et al. (2013)
<i>Entoloma reductum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma ripartitoides</i> E. Horak	CHI	Horak (1978)
<i>Entoloma rhodocylis</i> (Lasch) M.M. Moser	ARG	Niveiro & Albertó (2014)
<i>Entoloma rugosostriatum</i> Largent & T.W. Henkel	GUY	Largent et al. (2008)
<i>Entoloma rusticoides</i> (Gillet) Noordel.	ARG	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus rusticoides</i>
<i>Entoloma sericeum</i> Quéf.	ARG, CHI	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus sericeus</i>
<i>Entoloma silva-araucariae</i> de Meijer	BRA	Meijer (2008)
<i>Entoloma sodale</i> (Kuehner & Romagn.) E. Horak	ARG, CHI	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma spadiceum</i> Hesler	BRA	Horak (1982) and Singer & Aguiar (1986)
<i>Entoloma spadix</i> Hesler	BRA	Horak (1976, 1978)
<i>Entoloma sparcystis</i> E. Horak & Singer	BRA	Horak (1982)
<i>Entoloma speciosum</i> (Romag.) Putzke & M. Putzke ex Courtec.	BRA	Capelari & Maziero (1988), Pegler (1997) and Rosa & Capelari (2009) as <i>Inopilus speciosus</i> ; Coimbra et al. (2013)
<i>Entoloma spineum</i> E. Horak & Singer	BRA	Horak (1982)
<i>Entoloma squamifolium</i> (Murrill) Singer	ARG	Niveiro & Albertó (2014)
<i>Entoloma strictius</i> (Peck) Sacc.	ARG	Niveiro & Albertó (2014); Singer (1969) as <i>Rhodophyllus strictior</i>
<i>Entoloma subgoniosporum</i> (Speg.) E. Horak	ARG	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma substrictior</i> (Singer) E. Horak	ARG, BRA, CHI	Horak (1978) and Niveiro & Albertó (2014); Meijer (2006) as <i>E. cf. substrictius</i>
<i>Entoloma taedium</i> E. Horak	CHI	Horak (1978)
<i>Entoloma tenebricosum</i> E. Horak	CHI	Horak (1978)
<i>Entoloma trinitense</i> Dennis	TTO	Dennis (1953)
<i>Entoloma umbilicatum</i> Dennis	ARG	Horak (1978) and Niveiro & Albertó (2014)
<i>Entoloma underwoodii</i> Dennis	BRA, CUB, MTQ, TTO	Horak (1978); Dennis (1953) and Pegler (1983, 1987) as <i>Eccilia earlei</i>
<i>Entoloma vibrantium</i> E. Horak	CHI	Horak (1978)
<i>Entoloma virgale</i> (Pegler) Courtec.	MTQ	Pegler (1983) as <i>Eccilia virgalis</i>
<i>Entoloma viscaurantium</i> E. Horak & Singer	BRA	Horak (1982) and Singer & Aguiar (1986)
<i>Entoloma vitellinum</i> (Singer) E. Horak	BRA	Horak (1978)
<i>Entoloma wednae</i> V. Coimbra & Wartchow	BRA	Coimbra et al. (2013)
<i>Inocephalus azureoviridis</i> (E. Horak & Singer) Karstedt & Capelari	BRA	Horak (1982) as <i>E. azureoviride</i> ; Souza & Aguiar (2004) and Meijer (2006) as <i>E. cf. azureoviride</i>
<i>Inocephalus cervinus</i> Karstedt & Capelari	BRA	Karstedt & Capelari (2013)
<i>Inocephalus cystidiophorus</i> (Dennis) Karstedt & Capelari	BRA, COL, GLP, MTQ, VEN	Meijer (2006); Dennis (1961) and Souza & Aguiar (2004) as <i>E. cystidiophorum</i> ; Pegler (1983) and Vasco-Palacios et al. (2005) as <i>I. cystidiophorus</i>
<i>Inocephalus dennisii</i> (Dennis) Karstedt & Capelari	BRA	Karstedt & Capelari (2013)
<i>Inocephalus dragonosporus</i> (Singer) T.J. Baroni & Largent	BIZ, BOL, BRA, GUY, GUF, PRI, TTO	Largent et al. (2008); Singer (1965) as <i>Rhodophyllus dragonosporus</i> ; Horak (1977), Singer & Aguiar (1986), Meijer (2006), Wartchow (2006), Horak & Cheype (2007) and Coimbra et al. (2013) as <i>E. dragonosporum</i>
<i>Inocephalus flavotinctus</i> (E. Horak & Corner) Karstedt & Capelari	BRA	Horak (1982) as <i>E. flavotinctum</i> ; Karstedt & Capelari (2013)
<i>Inocephalus glycosmus</i> var. <i>paranapiacabensis</i> Karstedt & Capelari	BRA	Karstedt & Capelari (2013)

<i>Inocephalus mucronatus</i> Karstedt & Capelari	BRA	Karstedt & Capelari (2013)
<i>Inocephalus murrayi</i> (Berk. & M.A. Curtis) Rutter & Watling	BRA, CRC, DOM, PRI	Baroni et al. (1997), Baroni & Halling (2000), Sobestiansky (2005) and Meijer (2006) as <i>E.</i> <i>murrayi</i> ; Halling & Mueller (2005) as <i>N.</i> <i>murrayi</i>
<i>Inocephalus quadratus</i> (Berk. & M. A. Curtis) T. J. Baroni	CRC	Baroni & Halling (2000); Halling & Mueller (2005) as <i>N. quadrata</i>
<i>Inocephalus tenuis</i> Karstedt & Capelari	BRA	Karstedt & Capelari (2013)
<i>Inocephalus virescens</i> (Sacc.) Largent and Abell-Davis	BRA	Putzke & Putzke (2000) and Alves & Nascimento (2012) as <i>E. virescens</i> ; Pegler (1997) as <i>I. virescens</i> ; Karstedt & Capelari (2013)
<i>Leptonia alboconica</i> (Dennis) Dennis	VEN	Dennis (1961) and Horak (1977) as <i>E.</i> <i>alboconicum</i>
<i>Leptonia argyropellis</i> Pegler	MTQ	Pegler (1983)
<i>Leptonia bakeri</i> (Dennis) Dennis	BRA, MTQ, GLP, TTO	Dennis (1953), Pegler (1983) and Meijer (2006) as <i>E. bakeri</i>
<i>Leptonia caeruleocapitata</i> (Dennis) Pegler	GLP, TTO	Pegler (1983)
<i>Leptonia caribaea</i> Pegler	DOM, GLP, MTQ, TTO	Pegler (1983)
<i>Leptonia chloropolia</i> Fr.	ARG, BRA	Putzke & Cavalcanti (1997).
<i>Leptonia dichroa</i> (Pers) P.D. Orton	BRA	Putzke & Cavalcanti (1997) as <i>E. dichroum</i>
<i>Leptonia fragilis</i> (Baker & Dale) Dennis	DOM, GLP, MTQ, TTO	Pegler (1983)
<i>Leptonia fuscogrisella</i> (Peck) Largent	BRA	Putzke & Cavalcanti (1997) as <i>E.</i> <i>fuscogrisella</i>
<i>Leptonia</i> aff. <i>griseorubida</i> (Kuhner ex Noordel.) P.D. Orton	BRA	Meijer (2006) as <i>E. aff. griseorubidum</i>
<i>Leptonia guatopoana</i> Dennis	BRA, GLP, MTQ, VEN	Dennis (1961) and Pegler (1983); Horak (1978) and Putzke & Cavalcanti (1997) as <i>E.</i> <i>guatopoanum</i>
<i>Leptonia hypoporphyrta</i> (Berk. & Curt.) Sacc.	CUB, GLP, MTQ	Pegler (1983)
<i>Leptonia incana</i> Fr.	ARG, BRA, JAM	Baroni et al. (1997); Horak (1978), Putzke & Cavalcanti (1997) and Niveiro & Albertó (2014) as <i>E. incanum</i>
<i>Leptonia lampropus</i> (Fr.) Quélet	BRA	Putzke & Cavalcanti (1997) as <i>E. lampropus</i>
<i>Leptonia lazulino-ardesiaca</i> Dennis	ARG, VEN	Dennis (1961); Horak (1978) as <i>E.</i> <i>lazulinellum</i>
<i>Leptonia linkii</i> Fr.	BRA, CHI	Lazo (1984) as <i>R. linkii</i> ; Putzke & Cavalcanti (1997)
<i>Leptonia miniata</i> Pat.	DMA, GLP	Pegler (1983) as <i>I. miniatus</i>
<i>Leptonia naranjana</i> Dennis	GLP, MTQ, TTO	Pegler (1983); Dennis (1953) and Horak (1976, 1978) as <i>E. naranjana</i>
<i>Leptonia serrulata</i> (Pers.) Kumm.	BRA, VEN	Horak (1978) and Meijer (2006) as <i>E.</i> <i>serrulatum</i>
<i>Leptonia obscura</i> (Dennis)	BRA, MTQ, TTO	Pegler (1983); Capelari & Maziero (1988) as <i>E. cf. obscura</i>
<i>Leptonia vallicutis</i> Pegler	BRA	Putzke & Putzke (2000) as <i>E. vallicutis</i>
<i>Leptonia venezuelana</i> Dennis	VEN	Dennis (1961); Horak (1978) as <i>E.</i> <i>venezuelanum</i>
<i>Nolanea atripes</i> Dennis	BRA, DOM, VEN	Dennis (1961); Pegler (1983) and Putzke & Cavalcanti (1997) as <i>E. alboserrulata</i>
<i>Nolanea avilana</i> Dennis	BRA, DMA, GLP, VEN	Dennis (1961); Pegler (1983) as <i>I. avilanus</i> ; Meijer (2006) as <i>E. aff. avilanum</i> ; Coimbra et al. (2013) as <i>E. avilanum</i>
<i>Nolanea</i> cf. <i>conferenda</i> (Britzelm.) Sacc.	BRA	Meijer (2006) as <i>E. cf. conferendum</i>
<i>Nolanea conoidea</i> Speg.	BRA	Pegler (1997); Horak (1978) as <i>E. conoideum</i>
<i>Nolanea cordobensis</i> Speg.	ARG	Niveiro & Albertó (2014)
<i>Nolanea dunstervillei</i> Dennis	VEN	Dennis (1961)
<i>Nolanea foldatsii</i> Dennis	MTQ, VEN	Dennis (1961); Pegler (1983) as <i>I. foldatsii</i>
<i>Nolanea fuscifolia</i> (Peck) Sacc.	ARG	Singer (1969) as <i>Rhodophyllus fuscifolius</i>
<i>Nolanea</i> aff. <i>hebes</i> (Romagn.) P.D. Orton	BRA	Meijer (2006) as <i>E. aff. hebes</i>
<i>Nolanea mammosa</i> var. <i>venezuelana</i> Dennis	CHI	Singer (1969) as <i>Rhodophyllus venezuelanus</i>

<i>Nolanea metalis</i> (Romagn.) Dennis	BRA	Rosa & Capelari (2009)
<i>Nolanea nigropapillatum</i> (Romagn.) Pegler	BRA	Bononi et al. (1984); Putzke & Putzke (2000) as <i>E. nigropapillata</i>
<i>Nolanea papillata</i> Bres.	ARG, BRA, CHI, DOM, GLP, TTO	Horak (1978) and Pegler (1983); Dennis (1953), Putzke & Cavalcanti (1997) and Niveiro & Albertó (2014) as <i>E. papillatum</i>
<i>Nolanea pinna</i> (Romagn.) Dennis	BRA, TTO	Horak (1976, 1978), Putzke & Cavalcanti (1997) and Meijer (2006) as <i>E. pinnum</i>
<i>Nolanea sipariana</i> (Dennis) Dennis	BRA, COL, GLP, MTQ, TTO	Rosa & Capelari (2009); Pegler (1983) and Vasco-Palacios et al. (2005) as <i>I. siparianus</i> ; Dennis (1953), Meijer (2006) and Coimbra et al. (2013) as <i>E. siparianum</i>
<i>Paraeccilia unicolorata</i> Largent et T.W. Henkel	GUY	Aime et al. (2010)
<i>Pouzarella argenteolanata</i> T.J. Baroni, Perd.-Sánchez & S.A.Cantrell	DOM	Baroni et al. (2008)
<i>Pouzarella aureocrinita</i> (E. Horak) T.J. Baroni	ARG	Niveiro & Albertó (2014); Horak (1983) as <i>Pouzaromyces aureocrinitus</i>
<i>Pouzarella brunneonigrescens</i> T.J. Baroni, Albertó, Niveiro & B.E. Lechner	ARG	Baroni et al. (2012) and Niveiro & Albertó (2014)
<i>Pouzarella caribaea</i> T. J. Baroni and B. Ortiz	DOM, GLP, MTQ, PRI	Pegler (1983), Baroni & Ortiz (2002) and Baroni et al. (2008)
<i>Pouzarella dominguensis</i> T. J. Baroni	DOM	Baroni et al. (2008)
<i>Pouzarella dysthales</i> (Peck) Mazzer	ARG	Singer (1969) as <i>Rhodophyllus dysthales</i> ; Niveiro & Albertó (2014) as <i>Entoloma dysthales</i>
<i>Pouzarella dysthales</i> var. <i>acystidiosa</i> (Noordel.) Karstedt & Capelari	BRA	Karstedt et al. (2007)
<i>Pouzarella erinacea</i> (E. Horak) T.J. Baroni	ARG	Niveiro & Albertó (2014); Horak (1983) as <i>Pouzaromyces erinaceus</i>
<i>Pouzarella ferreri</i> T.J. Baroni, S.A.Cantrell & Perd.-Sánchez.	ARG, BRA, CRC, DOM	Karstedt et al. (2007), Baroni et al. (2008) and Niveiro & Albertó (2014)
<i>Pouzarella ferreri</i> var. <i>pallidonigrescens</i> T.J. Baroni, S.A.Cantrell & Perd.-Sánchez.	JAM	Baroni et al. (2008)
<i>Pouzarella nitens</i> T.J. Baroni & Cantrell	DOM	Baroni et al. (2008)
<i>Pouzarella olivacea</i> T.J. Baroni, Albertó, Niveiro & B.E. Lechner	ARG	Baroni et al. (2012) and Niveiro & Albertó (2014)
<i>Pouzarella parvispora</i> T.J. Baroni, Albertó, Niveiro & B.E. Lechner	ARG	Baroni et al. (2012) and Niveiro & Albertó (2014)
<i>Pouzarella sepiaceobasalis</i> (E. Horak) T.J. Baroni	ARG	Niveiro & Albertó (2014); Horak (1983) as <i>Pouzaromyces sepiaceobasalis</i>
<i>Pouzarella squamifolia</i> (Murrill) Mazzer	CRC, DOM, JAM	Halling & Mueller (2005)
<i>Pouzarella strigosissima</i> (Rea) Mazzer	BRA	Putzke & Cavalcanti (1997) and Souza & Aguiar (2004) as <i>E. strigosissima</i>
<i>Pouzarella sulcata</i> T.J. Baroni, Albertó, Niveiro & B.E. Lechner	ARG	Baroni et al. (2012) and Niveiro & Albertó (2014)
<i>Pouzarella variabilis</i> T.J. Baroni, Albertó, Niveiro & B.E. Lechner	ARG	Baroni et al. (2012) and Niveiro & Albertó (2014)
<i>Rhodogaster chilensis</i> E. Horak	CHI	Horak (1964)
<i>Trichopilus fasciculatus</i> Largent et Aime	BRA, GUY	Aime et al. (2010) and Coimbra & Gibertoni (2014)
<i>Trichopilus luteolamellatus</i> Largent et Aime	GUY	Aime et al. (2010)
<i>Trichopilus tibiiformis</i> Largent et Aime	GUY	Aime et al. (2010)
<i>Trichopilus vividus</i> Largent et Aime	GUY	Aime et al. (2010)
Species with doubtful placement		
<i>Rhodocybe lignicola</i> Singer	BOL	Singer (1961) and Baroni (1981)
<i>Rhodocybe spongiosa</i> T.J. Baroni, Largent & Aime	GUY	Henkel et al. (2010)
<i>Rhodocybe pruinostipitata</i> T.J. Baroni, Largent & Aime	GUY	Henkel et al. (2010)
<i>Rhodophyllus argentinensis</i> (Speg.) Singer	ARG	Niveiro & Albertó (2014)
<i>Rhodophyllus mesites</i> Singer	ARG	Singer (1969)
<i>Rhodophyllus dissimilis</i> var. <i>dissimilis</i> Singer	ARG	Singer (1969)

<i>Rhodophyllus dissimilis</i> var. <i>aporpus</i> Singer	CHI	Singer (1969)
<i>Rhodophyllus pampicola</i> (Speg.) Singer	ARG	Niveiro & Albertó (2014)

*Countries: ARG = Argentina; BIZ = Belize; BRA = Brazil; BOL = Bolivia; CHI = Chile; COL = Colombia; CRC = Costa Rica; CUB = Cuba; DMA = Dominica; DOM = Dominican Republic; EQU = Equator; GUF = French Guiana; GLP = Guadeloupe; GUY = Guyana; JAM = Jamaica; MTQ = Martinique; PAN = Panama; PRY = Paraguay; PRI = Puerto Rico; TTO = Trinidad and Tobago; VEN = Venezuela.

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