



Checklist of Central and South American Agaricales (Basidiomycota) II: Strophariaceae

Coimbra VRM¹

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Abstract

Following a serie of papers inventorying the agaric mycota (Agaricales) of Central and South Americas, this second publication is a literature-based checklist of the dark-spored family Strophariaceae. In total, 288 taxa belonging to 18 genera are reported here, mainly for Argentina (120 spp.) and Brazil (115 spp.), the most representative countries. This list is an effort to organize the widespread knowledge of Strophariaceae species diversity and geographical distribution, but does not reflect the real diversity of Strophariaceae from this region.

Key words – agarics – America – diversity – Neotropics

Introduction

This paper is the second part of a series of extensive checklists inventorying the agaric mycota from Central and South Americas. Each annual volume has been dedicated to one of the most important families of agaricoid fungi (Agaricales), as for example, the Entolomataceae Kotl. & Pouzar (Coimbra 2014).

This current volume deals with Strophariaceae Singer & A.H. Smith, a large family of dark-spored mushrooms with 1316 known species (Kirk et al. 2008), and distributed worldwide, since the Arctic to the Antarctic zones (Pegler et al. 1980, Singer 1986, Borgen et al. 2006).

The aim of this work is to provide a complete literature-based checklist of the Strophariaceae species recorded to Central and South America, as a tool for future studies on diversity, geographical distribution and species estimation.

Methods

The methodology of gathering data adopted here is the same of Coimbra (2014), as a way of standardization for all volumes of this series. Thus, only data recovered up to 10 March 2015 and published in papers and books were considered. Also, unidentified species (e.g. *Pholiota* sp.) and voucher numbers were not included. A special section (“Excluded species”) was designated in the end of the list, for taxa names absent on the adopted databases (Mycobank – www.mycobank.org – and Index Fungorum – www.indexfungorum.org) and for species referred as “excluded” in the literature (invalid names, “nomen dubium”, species with lost types, etc).

Strophariaceae is recognised here, mainly, in the sense of Singer (1986), but also considering the recent advances on the understanding of this family (Matheny et al. 2014). *Naematoloma* P. Karst, despite of its illegitimacy (according to Mycobank), is maintained here

because the two species known for that geographical region and belonging to this genus (*N. amazonicum* Singer and *N. nudum* Singer) still needs proper combinations. Thus, the adopted genera in this checklist are: *Agrocybe* Fayod, *Crassisporium* Matheny, P.-A. Moreau & Vizzini, *Deconica* (W.G. Sm.) P. Karst., *Flammula* (Schaeff.: Fr.) P. Kumm., *Geophila* Quél., *Hypholoma* (Fr.) P. Kumm., *Kuehneromyces* Singer & A.H. Sm., *Leratiomyces* Bresinsky & Manfr. Binder ex Bridge, Spooner, Beever & D.C. Park, *Melanotus* Pat., *Naematoloma*, *Naucoria* (Fr.) P. Kumm., *Pachylepyrium* Singer, *Phaeogalera* Kühner, *Pholiota* (Fr.) P. Kumm., *Protostropharia* Redhead, Moncalvo & Vilgalys, *Psilocybe* (Fr.) P. Kumm., *Stagnicola* Redhead & A.H. Sm. and *Stropharia* (Fr.) Quél.

Results and Discussion

In total, 288 Strophariaceae taxa (281 species and 7 varieties), belonging to 18 genera, were listed to Central and South Americas (Table 1) based on previously published data. These data were recovered from 113 publications (some with limited availability), written in several languages (Danish, English, Latin, German, Portuguese and Spanish).

Among all genera, the neurotropic *Psilocybe* (Fr.) P. Kumm. was the most reported (Figure 1), mainly due to the extensive studies of the renowned specialist Gastón Guzmán and colleagues (Guzmán 1978, 1983, 1995, 2004, 2012, Guzmán & Cortez 2005, Guzmán et al. 1984, 1994, 1998, 2003, 2004a, 2004b).

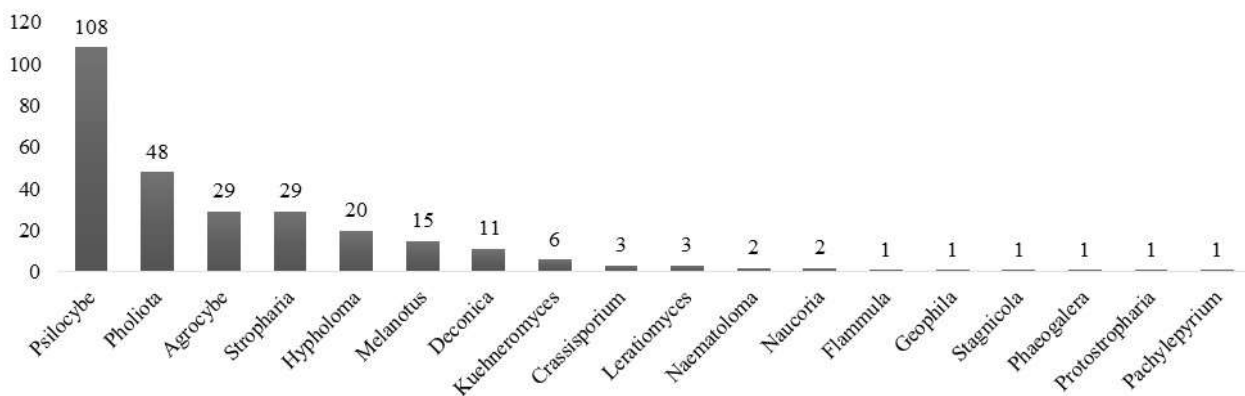


Fig. 1 – Number of Strophariaceae species for each genus, reported for Central and South America.

Table 1 List of Strophariaceae taxa recorded to Central and South America.

Taxa	Distribution	Reference
<i>Agrocybe allocystis</i> Singer	ARG, BRA, CHI, URU	Singer (1969), Wright & Albertó (2002) and Meijer (2006)
<i>Agrocybe arenicola</i> (Berk.) Singer	ARG	Wright & Albertó (2002)
<i>Agrocybe broadwayi</i> (Murrill) Dennis	BRA, CUB, GRN, GUF, TTO	Pegler (1983, 1997) and Courtecuisse (1996); Pegler (1987a) as <i>Agaricus semiorbicularis</i>
<i>Agrocybe collybitiformis</i> (Murrill) Singer	BRA	Pegler (1997)
<i>Agrocybe coprophila</i> (Rick) Singer	ARG, BRA	Wright & Albertó (2002); Rick (1938, 1961) as <i>Hebeloma coprophilum</i> .
<i>Agrocybe cubensis</i> (Murrill) Singer	BRA, CUB	Pegler (1987b), Watling (1992) and Meijer (2006)
<i>Agrocybe cylindracea</i> (DC.: Fr.) Maire	ARG, BRA, CHI, GUA	Watling (1992), Pegler (1997), Wright & Albertó (2002), Meijer (2006) and George-Nascimento (2007); Spegazzini (1899) and Rick (1938, 1961) as <i>Pholiota impudica</i> ; Boa (2004) and Flores Arzú et al. (2012) as <i>Agrocybe aegerita</i> .
<i>Agrocybe earlei</i> (Murrill) Dennis	BRA(?), JAM, MTQ, COL	Pegler (1983), Watling (1992), Meijer (2006) and Franco-Molano et al. (2010)

Taxa	Distribution	Reference
<i>Agrocybe fimicola</i> (Speg.) Singer	ARG, BRA	Watling (1992), Wright & Albertó (2002) and Meijer (2006); Rick (1938, 1961) as <i>Naucoria pediades</i> .
<i>Agrocybe lazoi</i> Singer	CHI	Singer (1969)
<i>Agrocybe lenticeps</i> (Peck) Singer	ARG	Singer (1973)
<i>Agrocybe musae</i> (Earle) Pegler	CUB	Pegler (1987b)
<i>Agrocybe neocoprohila</i> Singer	BRA	Singer (1953, 1965); Rick (1938, 1961) as <i>Hebeloma coprophilum</i> .
<i>Agrocybe paradoxa</i> Singer	ARG	Singer (1973)
<i>Agrocybe pediades</i> (Fr.) Fayod	ARG	Wright & Albertó (2002); Singer (1969) also as <i>A. semiorbicularis</i>
<i>Agrocybe perfecta</i> (Rick) Singer	BRA	Singer (1953), Watling (1992) and Meijer (2006); Rick (1938, 1961) as <i>Pholiota vermiflua</i> .
<i>Agrocybe platensis</i> (Speg.) Singer	ARG, CHI	Singer (1969)
<i>Agrocybe praecox</i> (Pers.) Fayod	ARG, BRA, CHI, COL, VEN	Dennis (1961), Singer (1969), Franco-Molano & Uribe-Calle (2000) and Delgado & Urdaneta (2002); Rick (1938, 1961) as <i>Pholiotella gibberosa</i> .
<i>Agrocybe procera</i> Singer	ARG, CHI	Singer (1969)
<i>Agrocybe puiggarii</i> (Speg.) Singer	BRA	Pegler (1997) and Meijer (2006); Spegazzini (1899) as <i>Pholiota puiggarii</i> ; Rick (1938, 1961) as <i>P. praecox</i> .
<i>Agrocybe retigera</i> (Speg.) Singer	ARG, BRA, PAR, VEN	Singer & Digilio (1951), Delgado & Urdaneta (2002), Wright & Albertó (2002) and Cortez & Silveira (2005); Spegazzini (1922) as <i>Naucoria retigera</i>
<i>Agrocybe sacchari</i> (Murrill) Dennis	BRA(?), VEN	Dennis (1961) and Grandi et al. (1984)
<i>Agrocybe sororia</i> (Peck) Watling	BRA	Watling (1992) and Meijer (2006)
<i>Agrocybe subpediades</i> (Murrill) Watling	BRA	Watling (1992) and Meijer (2006)
<i>Agrocybe tropicalis</i> (Speg.) Guzmán	BRA	Pegler (1997)
<i>Agrocybe tucumana</i> (Singer) Watling	ARG, BRA	Singer (1973), Pegler (1997) and Meijer (2006)
<i>Agrocybe underwoodii</i> (Murrill) Singer	BRA, CUB	Watling (1992) and Meijer (2006); Pegler (1987b) as <i>Naucoria underwoodii</i>
<i>Agrocybe vervacti</i> (Fr.) Singer	BRA	Rick (1930, 1938, 1961) as <i>Naucoria vervacti</i>
<i>Agrocybe viscosa</i> Singer	CHI	Singer (1969)
<i>Crassisporium chilense</i> (M.M. Moser) Matheny, P.-A. Moreau & Vizzini	CHI	Moser (2000)
<i>Crassisporium funariophilum</i> (M.M. Moser) Matheny, P.-A. Moreau & Vizzini	CHI	Singer (1969) as <i>Pachylepyrium funariophilum</i>
<i>Crassisporium squarrulosum</i> (Singer) Matheny, P.-A. Moreau & Vizzini	CHI	Singer (1969) as <i>Pachylepyrium squarrulosum</i>
<i>Deconica argentina</i> Speg.	ARG, BRA, COL, PER, VEN	Spegazzini (1899); Singer (1969), Raithelhuber (1974, 1988, 1991, 2004), Guzmán (1978, 1995), Yokoyama (1987), Franco-Molano & Uribe-Calle (2000), Wright & Albertó (2002), Wartchow et al. (2007) and Niveiro & Albertó (2012) as <i>Psilocybe argentina</i>
<i>Deconica coprophila</i> (Bull.) P. Karst.	ARG, BRA, COL, ECU, GUF, PAN, PER, VEN	Silva et al. (2012); Spegazzini (1887b, 1899, 1925, 1926b), Rick (1938, 1961), Dennis (1961), Guzmán (1978, 1995), Horak (1980), Yokoyama (1987), Stijve & Meijer (1993), Guzmán et al. (1994), Courtecuisse et al. (1996), Cortez & Coelho (2004), Meijer (2006), Silva et al. (2006, 2008) and Niveiro & Albertó (2012) as <i>Psilocybe coprophila</i>
<i>Deconica horizontalis</i> (Bull.) Noordel.	ARG, BRA	Silva et al. (2012); Rick (1938, 1961) as <i>Melanotus hepatochrous</i> ; Cortez & Coelho (2004) as <i>M. proteus</i> ; Niveiro & Albertó (2012) as <i>M. horizontalis</i>

Taxa	Distribution	Reference
<i>Deconica merdaria</i> (Fr.) Noordel.	ARG, BRA, CHI, URU, VEN	Rick (1907, 1939, 1961) as <i>Stropharia merdaria</i> ; Guzmán (1978) and Valenzuela et al. (1992) as <i>Psilocybe merdaria</i>
<i>Deconica moelleri</i> (Guzmán) Noordel.	ARG, BRA, CHI, PER	Spezzazzini (1899, 1926b) as <i>Stropharia merdaria</i> ; Singer (1969) as <i>Psilocybe merdaria</i> var. <i>macrospora</i> ; Guzmán (1978), Cortez & Coelho (2004) and Niveiro & Albertó (2012) as <i>P. moelleri</i>
<i>Deconica montana</i> (Pers.) P.D. Orton	CHI, COL, VEN	Dennis (1961) as <i>P. atrorufa</i> ; Singer (1969), Guzmán (1978), Guzmán et al. (1994) and Franco-Molano & Uribe-Calle (2000) as <i>Psilocybe montana</i>
<i>Deconica musacearum</i> (Singer) Cortez & P.S. Silva	BRA	Silva et al. (2014); Singer (1989) and Meijer (2006) as <i>Melanotus musacearum</i>
<i>Deconica neorhombispora</i> (Guzmán) P.S. Silva, Ram.-Cruz & Guzmán	BRA	Silva et al. (2013); Silva et al. (2007) as <i>P. subbrunneocystidiata</i>
<i>Deconica pegleriana</i> (Guzmán) Ram.-Cruz & Guzmán	ARG, BRA, ECU, VEN	Guzmán et al. (1998), Moyano & Daniele (2003), Cortez & Coelho (2004), Wartchow et al. (2007) and Niveiro & Albertó (2012) as <i>Psilocybe pegleriana</i>
<i>Deconica phyllogena</i> (Peck) Noordel.	COL, VEN	Guzmán et al. (1994), Franco-Molano & Uribe-Calle (2000) and Franco-Molano et al. (2010) as <i>Psilocybe phyllogena</i> ; Dennis (1961) as <i>P. modesta</i>
<i>Deconica subcoprophila</i> (Britzelm.) E. Horak	ARG	Singer (1969), Guzmán (1978), Horak (1980), Raithelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012) as <i>Psilocybe subcoprophila</i>
<i>Flammula peregrina</i> (Fr.) Sacc.	BRA	Pegler (1997)
<i>Geophila hyperella</i> (Fr.) Kühner & Romagn.	ARG	Wright & Albertó (2002) as <i>Psilocybe hyperella</i>
<i>Hypholoma aurantiacum</i> (Cooke) Faus	ARG, BRA, CHI	Silva et al. (2006, 2008); Rick (1961) as <i>Stropharia thrausta</i> ; Moreno & Albertó (1996), Meijer (2001, 2006), Sobestiansky (2005) and George-Nascimento (2007) as <i>S. aurantiaca</i>
<i>Hypholoma capnoides</i> (Fr.) P. Kumm.	ARG, CHI, VEN	Dennis (1961) and Niveiro & Albertó (2012); Singer (1969) as <i>Naematoloma capnoides</i>
<i>Hypholoma castilloi</i> (Singer) Raithelh.	ARG	Niveiro & Albertó (2012); Singer (1969) as <i>Naematoloma castilloi</i>
<i>Hypholoma confusum</i> Dennis	VEN	Dennis (1961)
<i>Hypholoma elongatum</i> (Pers.) Ricken	ARG, CHI	Singer (1969) as <i>Naematoloma elongatipes</i> ; Horak (1980) and Niveiro & Albertó (2012) as <i>H. elongatipes</i> .
<i>Hypholoma ericaeum</i> (Pers.) Kühner	BRA, VEN	Meijer (2001, 2006) and Silva et al. (2006, 2008, 2012); Singer (1953) and Pereira & Putzke (1990) as <i>Naematoloma subumbonatenscens</i> ; Delgado & Urdaneta (2002) as <i>N. ericaeum</i> ; Rick (1961) as <i>Stropharia ericaea</i> .
<i>Hypholoma fasciculare</i> (Huds.) P. Kumm.	ARG, BRA	Wright & Albertó (2002) and Niveiro & Albertó (2012); Rick (1919, 1939, 1961) and Singer (1969) as <i>Naematoloma fasciculare</i>
<i>Hypholoma fasciculare</i> var. <i>mitis</i> Raithelh.	ARG	Niveiro & Albertó (2012)
<i>Hypholoma frowardii</i> (Speg.) Garrido	ARG, CHI	Niveiro & Albertó (2012); Singer (1969) as <i>Pholiota frowardii</i>
<i>Hypholoma intonsum</i> Pass.	ARG	Spezzazzini (1899) and Niveiro & Albertó (2012)
<i>Hypholoma lateritium</i> (Schaeff.) P. Kumm.	ARG, CHI, COL	Singer (1969) as <i>Naematoloma sublateritium</i> ; Wright & Albertó (2002), Franco-Molano et al. (2010) and Niveiro & Albertó (2012) as <i>H. sublateritium</i>
<i>Hypholoma megapotamicum</i> (Speg.) Speg.	ARG	Spezzazzini (1899) and Niveiro & Albertó

Taxa	Distribution	Reference
		(2012)
<i>Hypholoma nodipes</i> Speg.	ARG	Niveiro & Albertó (2012)
<i>Hypholoma polylepidis</i> Dennis	VEN	Dennis (1961)
<i>Hypholoma puiggarii</i> (Speg.) Raitheh.	ARG, BRA, URU	Wright & Albertó (2002), Meijer (2006) and Niveiro & Albertó (2012); Spegazzini (1899) as <i>Flammula puiggarii</i> ; Singer (1969) as <i>Naematoloma puiggarii</i>
<i>Hypholoma radicosoides</i> Raitheh.	ARG	Niveiro & Albertó (2012)
<i>Hypholoma radicosum</i> J.E. Lange	CHI(?)	Singer (1969) as <i>Naematoloma radicosum</i>
<i>Hypholoma stellula</i> Speg.	ARG	Spegazzini (1899) and Niveiro & Albertó (2012)
<i>Hypholoma subviride</i> (Berk. & M.A. Curtis) Dennis	ARG, BRA, COL, CRC, CUB, DMA, GLP, JAM, MTQ, TTO, VEN	Dennis (1961), Pegler (1983, 1997), Bononi et al. (1984), Sotão et al. (1991), Ovrebo (1996), Cortez & Coelho (2004) and Meijer (2006); Pegler (1987a) as <i>Agaricus subviridis</i> ; Franco-Molano & Uribe-Calle (2000) and Wright & Albertó (2002) as <i>Naematoloma subviride</i>
<i>Hypholoma trinitensis</i> (Dennis) Pegler	ARG, BRA, MTQ, TTO	Pegler (1983, 1997), Lechner et al. (2006), Bononi et al. (2008), Wright et al. (2008) and Niveiro & Albertó (2012)
<i>Hypholoma udum</i> (Pers.) Quéf.	COL	Franco-Molano & Uribe-Calle (2000) as <i>Naematoloma udum</i>
<i>Kuehneromyces cystidiosus</i> Singer	ARG, CHI	Singer (1969), Horak (1980) and Niveiro & Albertó (2012)
<i>Kuehneromyces macrosporus</i> Singer	ARG, CHI	Singer (1969) and Niveiro & Albertó (2012)
<i>Kuehneromyces mutabilis</i> (Schaeff.) Singer & A.H. Sm.	BRA, JAM	Rick (1938, 1961) and Dennis (1968)
<i>Kuehneromyces nudus</i> Singer	ARG	Singer (1950) and Niveiro & Albertó (2012)
<i>Kuehneromyces pseudoblattaria</i> E. Horak	ARG	Horak (1967) and Niveiro & Albertó (2012)
<i>Kuehneromyces vinicolor</i> (Pat.) Pegler	GLP, MTQ	Pegler (1983)
<i>Leratiomyces ceres</i> (Cooke & Massee) Spooner & Bridge	BRA	Silva et al. (2012); Cortez & Silveira (2007b) and Silva et al. (2006) as <i>Hypholoma aurantiacum</i>
<i>Leratiomyces squamosus</i> (Pers.) Bridge & Spooner	CRC	Halling & Mueller (2005) as <i>Psilocybe squamosa</i>
<i>Melanotus alpiniae</i> (Berk.) Pilát	BRA, COL, CUB, GLP, MTQ, TTO	Dennis (1961), Pegler (1983, 1988, 1997), Capelari & Maziero (1988), Franco-Molano & Uribe-Calle (2000) and Meijer (2001, 2006)
<i>Melanotus brevisporus</i> Singer	BRA(?)	Meijer (2006)
<i>Melanotus cassiicolor</i> (Berk.) Singer	ARG, CHI, COL, VEN(?)	Singer (1969), Franco-Molano et al. (2010) and Niveiro & Albertó (2012) as <i>M. cassiicolor</i>
<i>Melanotus decapitatus</i> Singer	BRA(?), VEN	Singer (1989) and Meijer (2001, 2006)
<i>Melanotus dumontii</i> Singer	BRA, COL	Singer (1989), Franco-Molano & Uribe-Calle (2000) and Meijer (2001, 2006)
<i>Melanotus eccentricus</i> (Murrill) Singer	ARG, BRA(?), GLP, MTQ	Pegler (1983), Meijer (2006) and Niveiro & Albertó (2012)
<i>Melanotus gayi</i> (Pilát) Singer	ARG, CHI	Singer (1969) and Niveiro & Albertó (2012)
<i>Melanotus heteroloma</i> Singer	BOL	Singer (1989)
<i>Melanotus fumosifolius</i> (Murrill) Murrill	JAM	Dennis (1968)
<i>Melanotus matrisdei</i> Singer	BOL	Singer (1989)
<i>Melanotus musaecola</i> (Berk. & M.A. Curtis) Singer	BRA, CUB	Singer (1965) and Pegler (1987a)
<i>Melanotus patagonicus</i> Singer	ARG	Singer (1969) and Niveiro & Albertó (2012)
<i>Melanotus polylepidis</i> Singer	ARG	Singer (1973) and Niveiro & Albertó (2012)
<i>Melanotus subcuneifolius</i> (Murrill) Singer	BRA, GRN, VEN	Pegler (1983); Rick (1938, 1961) as <i>Crepidotus scymnodes</i>
<i>Melanotus subvariabilis</i> (Speg.) Singer	ARG, BRA	Singer (1950) and Niveiro & Albertó (2012); Spegazzini (1899) as <i>Claudopus subvariabilis</i>
<i>Naematoloma amazonicum</i> Singer	BRA	Singer (1973)
<i>Naematoloma nudum</i> Singer	BRA	Singer (1973)
<i>Naucoria devia</i> (Singer) Raitheh.	ARG	Wright & Albertó (2002)

Taxa	Distribution	Reference
<i>Naucoria rigidipes</i> Speg.	BRA	Pegler (1997)
<i>Pachylepyrium fulvidula</i> (Singer) Singer	ARG	Spegazzini (1925) and Niveiro & Albertó (2012)
<i>Phaeogalera dissimulans</i> (Berk. & Broome) Holec	BRA	Pegler (1997) as <i>Flammula sordida</i>
<i>Pholiota aberrans</i> A.H. Sm. & Hesler	COL, VEN	Franco-Molano et al. (2010); Dennis (1961) as <i>Hypholoma anomalum</i>
<i>Pholiota abstrusa</i> (Fr.) Singer	ARG	Niveiro & Albertó (2012)
<i>Pholiota agrocybiformis</i> Singer	CHI	Singer (1969)
<i>Pholiota alnea</i> Singer	ARG	Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota apiahyna</i> Speg.	ARG, BRA, COL	Singer (1950, 1953), Raitelhuber (1988, 1991, 2004), Pegler (1997), Franco-Molano et al. (2010) and Niveiro & Albertó (2012)
<i>Pholiota ascophora</i> (Peck) Singer	ARG, CHI	Singer (1969), Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota aurantioalbida</i> Singer	ARG, BRA(?)	Singer (1969), Horak (1980), Raitelhuber (1988, 1991, 2004), Meijer (2001, 2006) and Niveiro & Albertó (2012)
<i>Pholiota aurivella</i> (Batsch) P. Kumm.	CHI, VEN	Dennis (1961) and Singer (1969)
<i>Pholiota aurivella</i> var. <i>squarrosipes</i> Singer	ARG	Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota baeosperma</i> Singer	ARG, CHI	Singer (1969), Raitelhuber (1988, 1991, 2004), Gamundi & Horak (2002) and Niveiro & Albertó (2012)
<i>Pholiota bicolor</i> (Speg.) Singer	ARG, BRA	Pegler (1997), Raitelhuber (1988, 1991, 2004), Meijer (2001, 2006) and Niveiro & Albertó (2012)
<i>Pholiota calendulina</i> Singer	ARG	Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota chacoensis</i> Speg.	ARG	Spegazzini (1926b), Singer (1950) and Niveiro & Albertó (2012)
<i>Pholiota conissans</i> (Fr.) Kuyp. & Tjall.	BRA	Albuquerque et al. (2007)
<i>Pholiota discolor</i> (Peck) Sacc.	DOM, GLP, TTO	Pegler (1983)
<i>Pholiota flavida</i> (Schaeff.) Singer	ARG	Spegazzini (1926b) and Niveiro & Albertó (2012)
<i>Pholiota formosa</i> Speg.	ARG	Spegazzini (1926b), Singer (1950) and Niveiro & Albertó (2012)
<i>Pholiota freindlingiae</i> (Singer) Singer	CHI	Singer (1969)
<i>Pholiota glutinigera</i> Singer	ARG	Singer (1959) and Niveiro & Albertó (2012)
<i>Pholiota glutinosipes</i> Singer	VEN	Dennis (1961)
<i>Pholiota gummosa</i> (Lasch) Singer	BRA, JAM	Dennis (1968) and Pegler (1997)
<i>Pholiota gymnopiloides</i> Raitelhub.	ARG	Raitelhuber (1974, 1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota highlandensis</i> (Peck) Quadr. & Lunghini	ARG, BRA, CHI	Raitelhuber (1974, 1977, 1988, 1991, 2004), Meijer (2001, 2006), Wright & Albertó (2002) and Niveiro & Albertó (2012); Singer (1969) as <i>P. carbonaria</i>
<i>Pholiota irazuensis</i> Singer	CRC	Singer (1989)
<i>Pholiota limonella</i> (Peck) Sacc.	BRA	Meijer (2001, 2006), Sobestiansky (2005) and Silva et al. (2012)
<i>Pholiota majalis</i> Singer	CHI	Singer (1969)
<i>Pholiota marthae</i> Singer	CHI	Singer (1969)
<i>Pholiota martinicensis</i> Pat.	MTQ	Pegler (1983)
<i>Pholiota megalosperma</i> Singer	ARG	Singer (1969), Horak (1980), Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota microcarpa</i> Singer	ARG, CHI	Singer (1969), Raitelhuber (1977, 1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota montana</i> Singer	ARG, CHI	Singer (1969), Horak (1980), Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)

Taxa	Distribution	Reference
<i>Pholiota myxacioides</i> Singer	CHI	Singer (1969)
<i>Pholiota naucorioides</i> Singer	BRA, COL	Singer (1955), Meijer (2006) and Franco-Molano et al. (2010)
<i>Pholiota novembris</i> Singer	ARG	Singer (1969), Raitelhuber (1977) and Niveiro & Albertó (2012)
<i>Pholiota nubicola</i> (Singer) Matheny & P.-A. Moreau	VEN	Dennis (1961) as <i>Pachylepyrium nubicola</i>
<i>Pholiota oblita</i> Niveiro, Popoff & Albertó	ARG	Niveiro et al. (2014)
<i>Pholiota ochrospora</i> Raitelhuber.	ARG	Raitelhuber (1974, 1988, 1991, 2004), Wright & Albertó (2002) and Niveiro & Albertó (2012)
<i>Pholiota polychroa</i> (Berk.) Smith & Brodie	BRA, MTQ	Singer (1953), Pegler (1983) and Bononi et al. (2008)
<i>Pholiota privigna</i> (Speg.) Singer	ARG, CHI, COL, VEN	Dennis (1961), Singer (1969), Horak (1980), Raitelhuber (1988, 1991, 2004), Franco-Molano & Uribe-Calle (2000) and Niveiro & Albertó (2012)
<i>Pholiota psathyrelloides</i> Singer	ARG	Singer (1969), Horak (1980), Raitelhuber (1977, 1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota pseudofascicularis</i> Speg.	ARG	Speggazzini (1899, 1926b), Singer (1950), Raitelhuber (1991, 2004), Wright & Albertó (2002) and Niveiro & Albertó (2012)
<i>Pholiota rosea</i> Rick	BRA	Rick (1919, 1928, 1938, 1961)
<i>Pholiota rudis</i> Rick	BRA	Rick (1961)
<i>Pholiota spumosa</i> (Fr.) Singer	ARG, BRA, CHI	Speggazzini (1926b), Singer (1969), Pegler (1997), Wright & Albertó (2002), Cortez & Coelho (2003), Silva et al. (2012) and Niveiro & Albertó (2012)
<i>Pholiota spumosa</i> var. <i>crassitunicata</i> Singer	ARG	Singer (1969), Raitelhuber (1974, 1977, 1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota squarrosoides</i> (Peck) Sacc.	BRA(?)	Meijer (2006)
<i>Pholiota subflammans</i> (Speg.) Sacc.	ARG, CHI, URU	Speggazzini (1887a, 1887b), Singer (1950, 1969), Raitelhuber (1977, 1988, 1991, 2004), Horak (1980), Wright & Albertó (2002) and Niveiro & Albertó (2012)
<i>Pholiota subsquarrosa</i> (Fr.) Sacc.	BRA	Rick (1938, 1961)
<i>Pholiota tuberculosa</i> (Schaeff.) P. Kumm.	BRA	Rick (1907, 1938, 1961)
<i>Pholiota varzeae</i> Singer	BRA	Singer (1989)
<i>Protostropharia semiglobata</i> (Batsch) Redhead, Moncalvo & Vilgalys	ARG, BRA, COL, VEN	Rick (1907, 1939, 1961), Spegazzini (1887a, 1887b, 1899, 1926a, 1926b), Dennis (1961), Singer (1969), Horak (1980), Raitelhuber (1991, 2004), Stijve & de Meijer (1993), Guzmán et al. (1994), Pegler (1997), Franco-Molano & Uribe-Calle (2000), Meijer (2001, 2006), Wright & Albertó (2002), Cortez & Coelho (2004), Cortez & Silveira (2008) and Niveiro & Albertó (2012) as <i>Stropharia semiglobata</i>
<i>Psilocybe acutipilea</i> (Speg.) Guzmán	BRA	Guzmán (1978, 1995), Pegler (1997) and Guzmán et al. (1998); Spegazzini (1899) as <i>Deconica acutipilea</i>
<i>Psilocybe aequatoriae</i> Singer	EQU	Singer (1978) and Guzmán (2004)
<i>Psilocybe aggericola</i> Singer & A.H. Sm.	ARG	Guzmán (1978) and Niveiro & Albertó (2012)
<i>Psilocybe albofimbriata</i> (Rick) Singer	BRA	Singer (1986) and Guzmán (1995)
<i>Psilocybe alnetorum</i> (Singer) Singer	ARG, BRA	Guzmán (1978, 1995), Raitelhuber (1988, 1991, 2004), Stijve & Meijer (1993), Meijer (2006) and Niveiro & Albertó (2012)
<i>Psilocybe andina</i> Guzmán	ECU	Guzmán (1978)
<i>Psilocybe angulata</i> (Berk. & Broome) Singer	CHI, VEN	Singer (1969) and Guzmán (1978)
<i>Psilocybe angustipleurocystidiata</i> Guzmán	COL	Guzmán (1983) and Guzmán et al. (1998)

Taxa	Distribution	Reference
<i>Psilocybe antioquiensis</i> Guzmán, Saldarr., Pineda, G. García & L.-F. Velázquez	COL	Guzmán et al. (1994, 1998), Guzmán (1995) and Franco-Molano et al. (2010)
<i>Psilocybe araucana</i> Singer	ARG	Singer (1969), Raitelhuber (1977, 1988, 1991, 2004), Guzmán (1978) and Niveiro & Albertó (2012)
<i>Psilocybe aztecorum</i> var. <i>aztecorum</i> R. Heim	CRC	Sáenz et al. (1983) and Guzmán (1995)
<i>Psilocybe bispora</i> Guzmán	COL	Guzmán et al. (2007) and Franco-Molano et al. (2010)
<i>Psilocybe blattariopsis</i> (Speg.) Singer	BRA	Guzmán (1978), Pegler (1997), Guzmán et al. (1998) and Meijer (2006); Spegazzini (1899) as <i>Pholiotella blattariopsis</i>
<i>Psilocybe brasiliensis</i> Guzmán	BRA	Guzmán (1978), Bononi et al. (1984), Pegler (1997) and Guzmán et al. (1998)
<i>Psilocybe bullacea</i> (Bull.) P. Kumm.	COL	Guzmán et al. (1994) and Franco-Molano & Uribe-Calle (2000)
<i>Psilocybe cabiensis</i> Guzmán, M. Torres & Ram.-Guill.	COL	Guzmán et al. (2004a)
<i>Psilocybe caeruleoannulata</i> Singer ex Guzmán	BRA, URU	Guzmán (1978, 1983, 1995), Stijve & Meijer (1993), Pegler (1997), Guzmán et al. (1998), Cortez & Coelho (2004), Guzmán & Cortez (2004), Meijer (2006) and Silva et al. (2006, 2008, 2012)
<i>Psilocybe caerulescens</i> Murrill	ARG, BRA, COL, GUA, PAN, VEN	Guzmán (1983, 1995), Stijve & Meijer (1993), Guzmán et al. (1998), Meijer (2006), López-Quintero et al. (2011) and Niveiro & Alberto (2012)
<i>Psilocybe caesioannulata</i> Singer	CHI	Singer (1969) and Guzmán (1978)
<i>Psilocybe callosa</i> (Fr.) Quél.	CHI	Singer (1969) and Guzmán (1978)
<i>Psilocybe carbonaria</i> Singer	CHI	Guzmán (1978, 1983) and Guzmán et al. (1998)
<i>Psilocybe caribaea</i> Guzmán, T. J. Baroni & Tapia	MTQ, PRI	Guzmán et al. (2003); Pegler (1983) as <i>P. caerulescens</i>
<i>Psilocybe chilensis</i> Singer	BRA(?), CHI	Singer (1969), Guzmán (1978), Stijve & Meijer (1993) and Meijer (2006)
<i>Psilocybe chrysocystidiata</i> Singer	ARG, BOL	Singer (1973), Guzmán (1978), Raitelhuber (1991, 2004) and Niveiro & Alberto (2012)
<i>Psilocybe clavata</i> Guzmán	COL	Guzmán (1983)
<i>Psilocybe collybioides</i> Singer & A.H. Sm.	ARG	Guzmán (1978, 1983) and Niveiro & Alberto (2012)
<i>Psilocybe columbiana</i> Guzmán	COL	Guzmán (1978, 1983), Guzmán et al. (1994, 1998) and Franco-Molano & Uribe-Calle (2000)
<i>Psilocybe cordispora</i> R. Heim	BIZ	Guzmán et al. (1998)
<i>Psilocybe cordobensis</i> Singer	ARG	Singer (1973), Guzmán (1978), Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Psilocybe crobula</i> var. <i>crobula</i> (Fr.) Singer	BRA(?)	Stijve & Meijer (1993) and Meijer (2006)
<i>Psilocybe cubensis</i> (Earle) Singer	ARG, BIZ, BRA, COL, CRC, CUB, DOM, DMA, ECU, ESA, GLP, GUA, GUF, MTQ, PAN, PER, PRI, TTO, VEN	Singer (1953), Guzmán (1978, 1983, 1995), Reid et al. (1980), Pegler (1983), Sáenz et al. (1983), Rodríguez-Gallart (1989), Navarro & Betancourt (1992), Stijve & Meijer (1993), Courtecuisse et al. (1996), Franco-Molano & Uribe-Calle (2000), Guzmán et al. (1998), Delgado & Urdaneta (2002), Wright & Albertó (2002), Cortez & Coelho (2004), Meijer (2006), Silva et al. (2006, 2008), Wartchow et al. (2007), Laessoe & Petersen (2008), Piepenbring (2008), Flores Arzú et al. (2012) and Niveiro & Albertó (2012); Montagne (1856) as <i>Agaricus rhytopilus</i> ; Rick (1930, 1939, 1961) as <i>Stropharia subcyanescens</i> ; Pegler (1987b) as <i>S. cubensis</i>

Taxa	Distribution	Reference
<i>Psilocybe cyanescens</i> Wakef.	GUA	Flores Arzú et al. (2012)
<i>Psilocybe dumontii</i> Singer ex Guzmán	PAN	Guzmán (1978) and Guzmán et al. (1998)
<i>Psilocybe dunicola</i> (Speg.) Singer	ARG	Spegazzini (1899), Singer (1969), Guzmán (1978), Wright & Albertó (2002) and Niveiro & Albertó (2012)
<i>Psilocybe egonii</i> Guzmán & T. J. Baroni	PRI	Guzmán et al. (2003)
<i>Psilocybe farinacea</i> Rick ex Guzmán	BRA	Guzmán (1978) and Guzmán et al. (1998); Rick (1961) as <i>Naucoria albofimbriata</i> and <i>N. tenax</i>
<i>Psilocybe februaryana</i> Singer	BOL	Singer (1989)
<i>Psilocybe fimetaria</i> (P.D. Orton) Watling	CHI	Singer (1969), Guzmán (1983) and Guzmán et al. (1998)
<i>Psilocybe fimicola</i> Guzmán	COL	Guzmán et al. (1994) and Franco-Molano & Uribe-Calle (2000)
<i>Psilocybe flammuliformis</i> Singer	CHI	Singer (1969) and Guzmán (1978)
<i>Psilocybe fuegiana</i> (E. Horak) Singer	ARG, PER	Spegazzini (1926b), Singer (1969), Guzmán (1978), Horak (1980), Yokoyama (1987), Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Psilocybe fuliginosa</i> (Murrill) A.H. Sm.	JAM	Guzmán (1983) and Guzmán et al. (1998)
<i>Psilocybe furtadoana</i> Guzmán	BRA	Guzmán (1978), Bononi et al. (1984), Pegler (1997) and Guzmán et al. (1998)
<i>Pholiota galapagensis</i> Pegler	ECU	Reid et al. (1980)
<i>Psilocybe guatapensis</i> Guzmán, Saldarr., Pineda, G. García & L.-F. Velázquez	COL	Guzmán et al. (1994, 1998) and Franco-Molano et al. (2010)
<i>Psilocybe guilartensis</i> Guzmán, F. Tapia & Nieves-Riv.	DOM, PRI	Guzmán et al. (1997, 1998, 2003)
<i>Psilocybe heliconiae</i> Guzmán, Saldarr., Pineda, G. García & L.-F. Velázquez	COL	Guzmán et al. (1994, 1998) and Franco-Molano et al. (2010)
<i>Psilocybe hoogshagenii</i> R. Heim	ARG, BRA, COL	Guzmán (1978), Stijve & Meijer (1993), Guzmán et al. (1998), Meijer (2006) and Niveiro & Albertó (2012)
<i>Psilocybe horakii</i> Guzmán	ARG	Guzmán (1978) and Niveiro & Albertó (2012)
<i>Psilocybe inquilina</i> (Fr.: Fr.) Bres.	ARG, BRA, CHI, URU	Spegazzini (1909), Guzmán (1978), Raitelhuber (2004), Meijer (2006) and Silva et al. (2008); Singer (1969), Raitelhuber (1977, 1988, 1991), Wright & Albertó (2002) and Niveiro & Albertó (2012) as <i>P. ecbola</i> ; Silva et al. (2006) as <i>P. muscorum</i>
<i>Psilocybe jujuyensis</i> Singer	ARG	Singer (1973), Guzmán (1978), Raitelhuber (1991, 2004) and Niveiro & Albertó (2012)
<i>Psilocybe lazoi</i> Singer	CHI	Singer (1969, 1986) and Guzmán et al. (1998); Guzmán (1978) as <i>P. zapotecorum</i>
<i>Psilocybe liniformans</i> var. <i>americana</i> Guzmán & Stamets	CHI	Guzmán (1983)
<i>Psilocybe mammillata</i> (Murrill) A.H. Sm.	BOL, JAM	Dennis (1968), Guzmán (1983) and Guzmán et al. (1998)
<i>Psilocybe marthae</i> Singer	CHI	Singer (1969) and Guzmán (1978)
<i>Psilocybe meridensis</i> Guzmán	VEN	Guzmán (1995) and Guzmán et al. (1998)
<i>Psilocybe mesospora</i> Singer	ARG	Singer (1969), Guzmán (1978), Raitelhuber (1988, 1991) and Niveiro & Albertó (2012)
<i>Psilocybe mexicana</i> R. Heim	COL, CRC, GUA	Flores Arzú et al.(2012); Sáenz et al. (1983) as <i>P. cf. mexicana</i> ; Guzmán et al. (1994, 1998) and Franco-Molano et al. (2010) as <i>P. subacutipilea</i>
<i>Psilocybe microcystidiata</i> Guzmán & Bononi	BRA	Guzmán et al. (1984, 1998)
<i>Psilocybe muliercula</i> Singer & A.H.Sm.	BRA(?)	Meijer (2006)
<i>Psilocybe omiumsantorum</i> Singer	ARG, CHI	Singer (1969), Raitelhuber (1977, 1988, 1991), Guzmán (1978) and Niveiro & Albertó (2012)
<i>Psilocybe pallidisporea</i> (Murrill) A.H. Sm.	JAM	Dennis (1968)
<i>Psilocybe panaeoliformis</i> Murrill	ECU	Guzmán (1978)

Taxa	Distribution	Reference
<i>Psilocybe paulensis</i> (Guzmán & Bononi) Guzmán	BRA	Guzmán et al. (1984, 1998) and Guzmán (1995)
<i>Psilocybe paupera</i> Singer	BRA	(Singer 1953), Guzmán (1978), Stijve & Meijer (1993) and Guzmán et al. (1998)
<i>Psilocybe peladae</i> Singer	CHI	Singer (1969) and Guzmán (1978)
<i>Psilocybe pelliculosa</i> (A.H. Sm.) Singer & A.H. Sm.	CHI	Guzmán (1978)
<i>Psilocybe pericystis</i> Singer	BRA	Singer (1989) and Guzmán et al. (1998)
<i>Psilocybe peruviana</i> Singer	COL, PER	Singer (1959) and Guzmán (1978)
<i>Psilocybe phyllogena</i> (Sacc.) Peck		
<i>Psilocybe pintonii</i> Guzmán	COL	Guzmán (1978, 1983), Guzmán et al. (1994) and Franco-Molano & Uribe-Calle (2000)
<i>Psilocybe pleurocystidiosa</i> Guzmán	COL	Guzmán (1983)
<i>Psilocybe plutonia</i> (Berk. & M.A. Curtis) Sacc.	BRA, COL, CUB, GLP, MTQ, VEN	Dennis (1961, 1970), Guzmán (1978, 1983), Pegler (1983, 1987a) and Guzmán et al. (1998, 2004a)
<i>Psilocybe portoricensis</i> Guzmán, Nieves-Riv. & F. Tapia	PRI	Guzmán et al. (1997, 1998)
<i>Psilocybe praetervisa</i> Singer	ARG	Singer (1969), Guzmán (1978), Raitelhuber (1991, 2004) and Niveiro & Albertó (2012)
<i>Psilocybe pseudobullacea</i> (Petch) Pegler	VEN	Marcano et al. (1994) and Guzmán et al. (1998)
<i>Psilocybe pteridophytorum</i> Singer	ARG	Singer (1959), Guzmán (1978) and Niveiro & Albertó (2012)
<i>Psilocybe ramulosa</i> (Guzmán & Bononi) Guzmán	BRA	Guzmán (1995), Stijve & Meijer (1993) and Guzmán et al. (1998); Guzmán et al. (1984), Pegler (1997) and Bononi et al. (2008) as <i>P. zapotecorum</i> var. <i>ramulosus</i>
<i>Psilocybe rickii</i> Guzmán & Cortez	BRA	Guzmán & Cortez (2005)
<i>Psilocybe scatigena</i> (Berk. & M.A. Curtis) Guzmán	CUB	Guzmán (1983) and Pegler (1987a)
<i>Psilocybe sclerotifera</i> (Speg.) Singer	ARG	Guzmán (1978)
<i>Psilocybe semiangustipleurocystidiata</i> Guzmán, Ram.-Guill. & M. Torres	COL	Guzmán et al. (2004a)
<i>Psilocybe semilanceata</i> (Fr.) P. Kumm.	CHI	Singer (1969), Guzmán (1978, 1983) and Guzmán et al. (1998)
<i>Psilocybe septembris</i> (Singer) Singer	CHI	Guzmán (1978); Singer (1969) as <i>Pholiota septembris</i>
<i>Psilocybe sierrae</i> Singer	CHI	Singer (1969, 1986), Guzmán (1978, 1983) and Guzmán et al. (1998)
<i>Psilocybe singeriana</i> Guzmán	BRA	Guzmán (1983) and Meijer (2006)
<i>Psilocybe squalens</i> (Fr.) Sacc.	ARG	Spegazzini (1926b) and Niveiro & Albertó (2012)
<i>Psilocybe squarrosipes</i> Singer	ARG	Singer (1959), Guzmán (1978) and Niveiro & Albertó (2012)
<i>Psilocybe strictipes</i> Singer & A.H. Sm.	CHI	Singer (1969), Guzmán (1983) and Guzmán et al. (1998)
<i>Psilocybe subaeruginascens</i> Höhn.	BRA	Silva et al. (2014)
<i>Psilocybe subalnetorum</i> Guzmán & E. Horak	ARG	Guzmán & Horak (1978) and Niveiro & Albertó (2012)
<i>Psilocybe subcubensis</i> Guzmán	BOL, COL, ECU, ESA, HON, PRI, VEN	Guzmán (1978, 1983), Velazquez et al. (1991), Navarro & Betancourt (1992), Guzmán et al. (1994, 1997, 1998) and Franco-Molano & Uribe-Calle (2000)
<i>Psilocybe subheliconiae</i> Guzmán, Ram.-Guill. & M. Torres	COL	Guzmán et al. (2004a)
<i>Psilocybe subhoogshagenii</i> Guzmán, M. Torres & Ram.-Guill.	COL	Guzmán et al. (2004a)
<i>Psilocybe subhyperella</i> Singer	BRA(?), COL	Singer (1973) and Guzmán (1978); Franco-Molano & Uribe-Calle (2000) and Meijer (2006) as <i>P. castanella</i> var. <i>subhyperella</i>
<i>Psilocybe subpsilocybioides</i> Guzmán, Lodge	PRI	Guzmán et al. (2003)

Taxa	Distribution	Reference
& Cantrell		
<i>Psilocybe subtropicalis</i> Guzmán	GUA	Guzmán (1995) and Flores Arzú et al. (2012)
<i>Psilocybe subyungensis</i> Guzmán	BRA(?), VEN	Guzmán (1978, 1983), Stijve & Meijer (1993), Guzmán et al. (1998) and Meijer (2006)
<i>Psilocybe tortipes</i> Speg.	ARG, BRA	Rick (1906, 1908, 1939, 1961), Theissen (1912) and Guzmán (1978); Niveiro & Albertó (2002) as <i>Naematoloma tortipes</i>
<i>Psilocybe truffemiae</i> Guzmán & Bononi	BRA	Bononi et al. (1984), Guzmán et al. (1984) and Pegler (1997)
<i>Psilocybe uruguayensis</i> Singer ex Guzmán	BRA, URU	Guzmán (1978, 1983), Stijve & Meijer (1993) and Guzmán et al. (1998)
<i>Psilocybe valdiviensis</i> Singer	BRA(?), CHI	Singer (1969), Guzmán (1978), Stijve & Meijer (1993) and Meijer (2006)
<i>Psilocybe venezuelana</i> Dennis	BRA, GLP, MTQ, VEN	Dennis (1961), Guzmán (1978), Pegler (1997, 1983), Stijve & Meijer (1993), Meijer (2006) and Bononi et al. (2008)
<i>Psilocybe wrightii</i> Guzmán	ARG, BRA, COL	Guzmán (1978, 1983), Guzmán & Cortez (2004), Silva et al. (2006, 2008, 2012), Franco-Molano et al. (2010) and Niveiro & Albertó (2012)
<i>Psilocybe yungensis</i> Singer & A.H. Sm.	BOL, COL, ECU, PER(?)	Guzmán (1978, 1983), Guzmán et al. (1994, 1998) and Franco-Molano & Uribe-Calle (2000)
<i>Psilocybe zapotecoantillarum</i> Guzmán, T. J. Baroni & Lodge	PRI	Guzmán et al. (2003)
<i>Psilocybe zapotecocaribaea</i> Guzmán, Ramírez-Guillén & T. J. Baroni	MTQ	Guzmán et al. (2003); Pegler (1983) as <i>P. yungensis</i>
<i>Psilocybe zapotecorum</i> Heim.	ARG, BRA, CHI, COL, ECU, GUA, PER, VEN	Guzmán (1978, 1983, 2012), Stijve & Meijer (1993), Guzmán et al. (1994, 1998), Franco-Molano & Uribe-Calle (2000), Wright & Albertó (2002), Sobestiansky (2005), Meijer (2006), Silva et al. (2012) and Flores Arzú et al. (2012)
<i>Psilocybe zoncuantlensis</i> Guzmán & Ram.-Guillén	BRA(?)	Meijer (2006)
<i>Stagnicola perplexa</i> (P.D. Orton) Redhead & A.H. Sm.	ARG	Singer (1969) and Niveiro et al. (2012)
<i>Stropharia acanthocystis</i> Cortez & R.M. Silveira	BRA	Cortez & Silveira (2007a) and Silva et al. (2012)
<i>Stropharia aeruginosa</i> (Curtis) Quél.	BRA	Cortez & Silveira (2008)
<i>Stropharia aeruginosa</i> var. <i>neuquenensis</i> M.M. Moser & Singer	ARG	Singer (1969), Raitelhuber (1977, 1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Stropharia agaricoides</i> P.S. Silva, Cortez & R.M. Silveira	BRA	Silva et al. (2009)
<i>Stropharia agrocyboides</i> (Raitelhub.) Raitelhub.	ARG	Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012); Wright & Albertó (2002) as <i>Hypholoma agrocyboides</i>
<i>Stropharia albivelata</i> (Murrill) Norvell & Redhead	BRA(?)	Meijer (2006)
<i>Stropharia alcis</i> var. <i>austrobrasiliensis</i> Cortez & R.M. Silveira	BRA	Cortez & Silveira (2008); Silva et al. (2006, 2008) as <i>S. alcis</i>
<i>Stropharia apiahyna</i> (Speg.) Cortez & R.M. Silveira	BRA, COL	Singer (1978) and Cortez & Silveira (2008); Singer (1953) as <i>Pholiota apiahyna</i> ; Pegler (1997) as <i>Naucoria apiahyensis</i>
<i>Stropharia araucariae</i> Cortez & R.M. Silveira	BRA	Cortez & Silveira (2008) and Silva et al. (2012)
<i>Stropharia bruchii</i> Speg.	ARG	Spegazzini (1926a) and Niveiro & Albertó (2012)
<i>Stropharia coronilla</i> (Bull.) Quél.	ARG, BRA	Rick (1907, 1939, 1961), Spegazzini (1926a), Batista & Bezerra (1960), Singer (1969), Raitelhuber (1974, 1988, 1991, 2004), Stijve & de Meijer (1993), Wright & Albertó (2002),

Taxa	Distribution	Reference
		Cortez & Coelho (2004), Meijer (2006), Silva et al. (2006, 2008) and Niveiro & Albertó (2012)
<i>Stropharia coronilla</i> var. <i>magnispora</i>	ARG	Raitelhuber (2000, 2004) and Niveiro & Albertó (2012)
<i>Stropharia dorsipora</i> Esteve-Rav. & Barrasa	BRA	Cortez & Silveira (2008)
<i>Stropharia earlei</i> Norvell & Redhead	BRA, CRC, CUB, GRN	Cortez & Silveira (2008) and Silva et al. (2012); Pegler (1983, 1987b, 1997) as <i>Pholiota cubensis</i>
<i>Stropharia flocculosipes</i> Singer	CHI	Singer (1969)
<i>Stropharia lasserii</i> Dennis	VEN	Dennis (1961)
<i>Stropharia luteonitens</i> (Fr.) Quél.	ARG	Spegazzini (1899) and Niveiro & Albertó (2012); Singer (1969) as <i>S. umbonatescens</i>
<i>Stropharia melanosperma</i> (Bull. ex Pers.: Fr.) Gillet	ARG, BRA	Horak (1967), Wright & Albertó (2002), Raitelhuber (2004), Cortez & Coelho (2008) and Niveiro & Albertó (2012)
<i>Stropharia mitorhiza</i> Speg.	ARG	Spegazzini (1926b) and Niveiro & Albertó (2012)
<i>Stropharia pampeana</i> Speg.	ARG	Spegazzini (1899) and Niveiro & Albertó (2012)
<i>Stropharia pendolae</i> (Speg.) Singer	ARG	Spegazzini (1926b), Raitelhuber (1991) and Niveiro & Albertó (2012)
<i>Stropharia purpureoaurantiaca</i> Raitelhub.	ARG	Raitelhuber (1974, 1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Stropharia purpureoaurantiaca</i> var. <i>magnispora</i> Raitelhub.	ARG	Raitelhuber (1974, 1991, 2004) and Niveiro & Albertó (2012)
<i>Stropharia purpureoviolacea</i> Raitelhub.	ARG	Raitelhuber (1974, 1988, 1991, 2004), Wright & Albertó (2002) and Niveiro & Albertó (2012)
<i>Stropharia rugosoannulata</i> Farl. Ex Murrill	ARG, BRA	Spegazzini (1889), Raitelhuber (1974, 1988, 2004), Stijve & de Meijer (1993), Pegler (1997), Wright & Albertó (2002), Cortez & Coelho (2004), Meijer (2006), Wright et al. (2008), Silva et al. (2012) and Niveiro & Albertó (2012); Spegazzini (1899) as <i>Flammula puiggarii</i> ; Rick (1961) as <i>Anellaria sanguineopurpurea</i>
<i>Stropharia rugosoannulata</i> var. <i>farlowiana</i> (Raitelhub.) Raitelhub.	ARG	Raitelhuber (2004) and Niveiro & Albertó (2012)
<i>Stropharia stercoraria</i> (Bull.: Fr.) Quél.	ARG, BRA	Rick (1939, 1961) and Wright & Albertó (2002)
<i>Stropharia trinitensis</i> (Dennis) Cortez	BRA	Pegler (1997) as <i>Hypholoma trinitense</i> ; Meijer (2006) as <i>Pholiota trinitense</i> .
<i>Stropharia umbonescens</i> (Britzelm.) Sacc. & Traverso	ARG	Singer (1969), Raitelhuber (1991, 2004) and Niveiro & Albertó (2012)
<i>Stropharia varzeae</i> (Singer) Cortez	BRA	Cortez (2008)
<i>Stropharia venusta</i> P.S. Silva, Cortez & R.M. Silveira	BRA	Silva et al. (2009, 2012)
<i>Stropharia viloriana</i> (Dennis) Singer	VEN	Dennis (1961) as <i>Hypholoma vilorianum</i>
Excluded species		
<i>Naucoria pusillima</i> Speg.	BRA	Pegler (1997)
<i>Pholiota digiloi</i> Singer	ARG	Raitelhuber (1988, 1991, 2004) and Niveiro & Albertó (2012)
<i>Pholiota meliaphila</i> Raitelhub.	ARG	Raitelhuber (2000, 2004) and Niveiro & Albertó (2012)
<i>Pholiota squarrosa</i> Murr.	BRA	Rick (1938, 1961)
<i>Pholiota subfascicularis</i> Speg.	BRA	Rick (1907, 1938, 1961)
<i>Psilocybe heterosticha</i> (Fr.) Singer	ARG, BRA	Singer (1969), Guzmán (1978) and Pegler (1997)
<i>Psilocybe uda</i> (Pers.) Gillet	ARG	Horak (1967) and Niveiro & Albertó (2012)
<i>Stropharia crassa</i> Rick	BRA	Rick (1907, 1939, 1961)

Taxa	Distribution	Reference
<i>Hypholoma intonsum</i> Pass.	BRA	Cortez & Silveira (2008)
<i>Stropharia inuncta</i> ss. Rick	BRA	Cortez & Silveira (2008)
<i>Stropharia mephistopheles</i> Cooke	BRA	Rick (1907, Cortez & Silveira (2008)

*Countries: ARG = Argentina; BIZ = Belize; BRA = Brazil; BOL = Bolivia; CHI = Chile; COL = Colombia; CRC = Costa Rica; CUB = Cuba; DMA = Dominica; DOM = Dominican Republic; ECU = Ecuador; ESA = El Salvador; GLP = Guadeloupe; GRN = Grenada; GUA = Guatemala; GUF = French Guiana; HON = Honduras; JAM = Jamaica; MTQ = Martinique; PAN = Panama; PER = Peru; PRI = Puerto Rico; TTO = Trinidad and Tobago; URU = Uruguay; VEN = Venezuela. Country abbreviations followed by (?) represent reports without confirmed identity, which taxa were cited in literature as “aff.” (affinis) or “cf.” (confer) (e.g. *Agrocybe* aff. *cylindrica*).

The results obtained here are very similar to the presented in the first volume (Coimbra 2014), with Argentina and Brazil as having the highest record numbers (120 and 115, respectively). In contrast, poorly studied countries such as Honduras, Belize, Dominica and El Salvador had the lowest number of reported species. In addition, nations as Guyana, Haiti, Nicaragua, Paraguay and Suriname, as well some Caribbean Islands had no records (Figure 2). Among all publications, noteworthy are the regional contributions of Spegazzini (1887b, 1889, 1909, 1926b) and Raithelhuber (1974, 1977, 1988, 1991, 2004) for Argentina; Singer (1969) for Southern Argentina and Chile; and Rick (1906, 1907, 1908, 1919, 1928, 1930, 1938, 1939, 1961), Cortez, Silva and colleagues (Cortez & Silveira 2007b, 2008; Silva et al. 2006) for Southern Brazil.



Fig. 2 – Number of Strophariaceae species recorded per country.

Based on the number of species (1316 spp.) provided by Kirk et al. (2008), the Strophariaceae taxa reported for Central and South Americas roughly represents $\pm 22\%$ of this family's worldwide richness. Clearly, these numbers does not reflect the real diversity of this large and heterogeneous region, highlighting the need for more specific studies.

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