
Hongos Agaricales y Boletales de Colombia

Ana Esperanza Franco-Molano y Emilce Uribe-Calle

Departamento de Biología, Universidad de Antioquia, A.A. 1226, Medellín - Colombia. afranco@catios.udea.edu.co; afranco@matematicas.udea.edu.co

Palabras Clave: Agaricales, Boletales, Colombia, Hongos.

El presente artículo se realizó durante el desarrollo del proyecto "Biogeografía de los Agaricales asociados a bosque de *Quercus humboldtii* del Departamento de Antioquia" financiado por COLCIENCIAS y por el Comité para el Desarrollo de la Investigación, CODI, a través del Centro de Investigaciones de la Facultad de Ciencias Exactas y Naturales de la Universidad de Antioquia.

Colombia por su ubicación geográfica, su historia geológica, sus tipos de vegetación y clima, promete una micoflora muy rica, sin embargo son relativamente pocos los estudios realizados que lleven a conocer la diversidad de hongos en el país.

Uribe (1995) publicó el catálogo de Myxomycetes registrados para Colombia con base en la revisión bibliográfica y material de la micoteca del Herbario Nacional de Colombia (COL). Otras publicaciones (Henaó 1989, 1990, 1997; Tobón 1991) han dado a conocer algunas especies de Polyporaceos

(Basidiomycetes) y Ascomycetes.

Con relación a los Agaricales y Boletales su estudio en el país se ha incrementado en las últimas cuatro décadas mediante muestreos y publicaciones aisladas realizadas por varios especialistas, que han dado como resultado el descubrimiento de nuevas especies y registros, extendiendo así el rango de distribución geográfica de varios géneros y/o especies (Franco-Molano 1993, 1999).

El presente catálogo incluye 272 especies y/o variedades reportadas en la bibliografía como tipos y/o nuevos registros, y para su clasificación se utilizó Hawksworth *et al.* (1995) y Singer (1986). La segunda parte de este catálogo se está elaborando con base en material de herbario, el cual requiere de una revisión exhaustiva para poder brindar una información confiable que pueda utilizarse en estudios de otras áreas (biogeografía, ecología, biología molecular, etc.).

Agaricals and Boletals Fungi of Colombia

Ana Esperanza Franco-Molano and Emilce Uribe-Calle

Key words: Agaricals, Boletals, Colombia.

The present species lists was carried out during the development of the project «Biogeography of the Agaricales associated to *Quercus humboldtii* forests of the Department of Antioquia» financed by COLCIENCIAS and the Research Development Committee (CODI), through the Research Centre of the Exact and Natural Sciences Faculty, University of Antioquia.

Colombia for its geographical location, geological

history, vegetation types and climate, supports a very rich micoflora. However, there are relatively few studies leading to a good understanding of the mushrooms diversity in the country.

Uribe (1995) published the Myxomycetes species list for Colombia based on bibliographic and material review from the micoteca of the National Herbarium of Colombia (COL). Other publications (Henaó 1989,

1990, 1997; Tobón 1991) have reported other species of Polyporaceae (Basidiomycetes) and Ascomycetes.

Regarding the Agaricales and Boletales their study in the country has been incremented in the last four decades by diverse surveys and publications, performed by several specialists that have given rise to the discovery of new species and new records that expand the range of geographical distribution of several genera and/or species (Franco-Molano 1993, 1999).

The following list include 272 species and/or varieties reported in the bibliography as types and/or new records. The classification follows Hawksworth et al. (1995) and Singer (1986). The second part of this list is in preparation and will be the revision of Herbarium material. A reliable identifications can provide fundamental information that could be usable for studies in other areas (biogeography, ecology, molecular biology).

Cuadro 1. Número de familias, géneros y especies de hongos Agaricales, Cantharellales, Russulales, Cortinariales y Boletales reportadas para Colombia.

Box 1. Number of families, genera and species of Agaricales, Cantharellales, Russulales, Cortinariales, and Boletales fungi reported for Colombia.

Taxón / Taxon	Géneros / Genera	Especies / Species	Taxón / Taxon	Géneros / Genera	Especies / Species
AGARICALES	60	215	<i>Armillariella</i> (Karst) Karst, 1881		1
Agaricaceae	6	11	<i>Asterophora</i> Ditmar, 1809		1
<i>Agaricus</i> L., 1753		1	<i>Calyptella</i> Quél., 1886		1
<i>Cystoderma</i> Fayod, 1889		2	<i>Campanella</i> Henn., 1895		3
<i>Lepiota</i> (pers.) Gray, 1821		4	<i>Chaetocalathus</i> Singer, 1942		2
<i>Leucocoprinus</i> Pat., 1888		1	<i>Clitocybe</i> (Fr.) Staude, 1857		1
<i>Macrolepiota</i> Singer, 1948		2	<i>Collybia</i> (Fr.) Staude, 1857		2
<i>Rugosopora</i> Heinem., 1973		1	<i>Crinipellis</i> Pat., 1889		5
Amanitaceae	1	14	<i>Dictyopanus</i> Pat., 1900		1
<i>Amanita</i> Pers. 1797		14	<i>Favolaschia</i> (Pat.) Pat. 1895		3
Bolbitiaceae	3	4	<i>Filoboletus</i> Henn. 1900		2
<i>Agrocybe</i> Fayod, 1889		1	<i>Gerronema</i> Singer, 1951		7
<i>Bolbitius</i> Fr., 1838		1	<i>Gloiocephala</i> Masee, 1892		2
<i>Pholiotina</i> Fayod, 1889		2	<i>Gymnopus</i> (Pers.) Roussel, 1806		2
Coprinaceae	4	6	<i>Hemimycena</i> Singer, 1938		1
<i>Copelandia</i> Bres., 1912		1	<i>Hohenbuehelia</i> Schulzer, 1866		4
<i>Coprinus</i> Pers., 1797		2	<i>Hydropus</i> Kühner, Singer, 1948		8
<i>Panaeolina</i> Maire, 1933		1	<i>Hymenogloea</i> Pat., 1900		1
<i>Psathyrella</i> (Fr.) Quél., 1872		2	<i>Laccaria</i> Berk., Broom, 1883		3
Entolomataceae	2	4	<i>Lactocollybia</i> Singer, 1939		1
<i>Entoloma</i> (Fr.) P. Kumm., 1871		2	<i>Marasmiellus</i> Murrill, 1915		31
<i>Rhodophyllus</i> Quél., 1886		2	<i>Marasmius</i> Fries, 1836		41
Hygrophoraceae	2	4	<i>Micromphale</i> Gray, 1821		2
<i>Hygrocybe</i> (Fr.) P. Kumm., 1871		2	<i>Mycena</i> (Pers.) Roussel, 1806		8
<i>Hygrophorus</i> Fr., 1836		2	<i>Omphalina</i> Quél., 1886		1
Strophariaceae	7	24	<i>Oudemansiella</i> Speg., 1881		3
<i>Melanotus</i> Pat., 1900		2	<i>Panellus</i> P. Karst, 1879		1
<i>Naematoloma</i> P. Karst, 1880		2	<i>Phaeodepas</i> D.A. Reid, 1961		1
<i>Panaeolus</i> (Fr.) Quél., 1872		3	<i>Pleuromyconula</i> Singer, 1974		1
<i>Pholiota</i> (Fr.) Kumm., 1871		1	<i>Ripartitella</i> Singer, 1947		1
<i>Pleuroflammula</i> Singer, 1946		1	<i>Tetrapyrgos</i> E. Horak, 1987		1
<i>Psilocybe</i> (Fr.) Kumm., 1871		14	<i>Tricholoma</i> (Fr.) Staude, 1857		1
<i>Stropharia</i> (Fr.) Quél., 1872		1	<i>Trogia</i> Fries, 1836		1
Tricholomataceae	35	148	<i>Xeromphalina</i> Küh., Maire, 1934		3
<i>Aphyllotus</i> Singer, 1974		1	CANTHARELLALES	3	3

Taxón / <i>Taxon</i>	Géneros / <i>Genera</i>	Especies / <i>Species</i>	Taxón / <i>Taxon</i>	Géneros / <i>Genera</i>	Especies / <i>Species</i>
Cantharellaceae	1	1	<i>Rozites</i> P. Karst, 1879		1
<i>Cantharellus</i> Fries, 1821		3	Crepidotaceae	2	4
Craterellaceae	1	1	<i>Crepidotus</i> (Fr.) Staude, 1857		3
<i>Craterellus</i> Pers., 1825		3	<i>Melanomphalina</i> M.P.Christ		1
Physalacriaceae	1	1	, 1936		
<i>Physalacria</i> Peck, 1882		1	BOLETALES	8	18
RUSSULALES	2	10	Boletaceae	3	10
Russulaceae	2	10	<i>Boletus</i> Fries, 1821		8
<i>Lactarius</i> Pers. 1797		2	<i>Leccinum</i> Gray, 1821		1
<i>Russula</i> Pers. 1796		8	<i>Suillus</i> Gray, 1821		1
CORTINARIALES			Gyrodontaceae	1	2
Cortinariaceae	6	15	<i>Gyrodon</i> Opat. 1836		2
<i>Cortinarius</i> (Pers.) Gray,		1	Strobilomycetaceae	2	2
1821			<i>Austroboletus</i> (Corn.) Wolfe.		1
<i>Galerina</i> earle, 1909		3	1890		
<i>Inocybe</i> (Fr.) Fr., 1863		3	<i>Strobilomyces</i> Berk. 1851		1
<i>Phaeocollybia</i> R. Heim.,		6	Xerocomaceae	2	4
1931			<i>Boletellus</i> Murrill. 1909		2
<i>Phaeomarasmium</i> Scherff.,		1	<i>Phylloporus</i> Quéf. 1888		2
1897					

Listado Taxonómico / *Taxonomic List*

Lista de especies de hongos Agaricales y Boletales presentes en Colombia. En la última columna se suministra el número de catálogo de los ejemplares que respaldan el reporte de cada especie, indicándose además si se trata de material tipo.

List of species for the Agaricales and Boletales Fungi of Colombia. Vouchers and collections for reference for each species are mentioned in the last column, likewise indicating when specimens are type material.

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
AGARICALES					
Agaricaceae					
<i>Agaricus campestris</i> L. : Fr., 1921	and	cun		Pulido 1983	Pulido <i>et al.</i> 16,17 (COL.)
<i>Cystoderma amianthium</i> (Scop.: Fr.) Fayod 1889	and	cun	2600	Guzmán & Varela 1978	Guzmán 9125 (COL.)
<i>Cystoderma chocoanum</i> Franco-Molano, 1993	pac	cho	70	Franco-Molano 1993	Franco-Molano 629 (COL.): Tipo
<i>Lepiota quintanaroensis</i> Guzmán-Dávalos & Guzmán, 1983	and	ant		Velásquez <i>et al.</i> 1991	Pineda 5 (HUA)
<i>Lepiota serena</i> (Fr.) Sacc., 1887	and	ant		Velásquez <i>et al.</i> 1991	Pineda 7 (HUA)
<i>Lepiota subflavescens</i> Murr. 1914	and	ant		Velásquez <i>et al.</i> 1991	García 9 (HUA)
<i>Lepiota subgranulosa</i> Murr., 1911	and	cun		Pulido 1983	Pulido <i>et al.</i> 32 (HUA)
<i>Leucocoprinus submontagnei</i> Hein., 1977	and	ant		Saldarriaga <i>et al.</i>	Pineda 9 (HUA)

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Macrolepiota colombiana</i> Franco-Molano, 1999	and	ant	1700	1988 Franco-Molano 1999	Franco-Molano 913 (HUA): Tipo
<i>Macrolepiota procera</i> (Scop. : Fr.) Singer, 1948	and	cun		Pulido 1983	Cardozo sn (COL)
<i>Rugosopora pseudorubiginosa</i> (Cifuentes y Gómez) Guzmán y Vandala, 1989	and	ant		Guzmán <i>et al.</i> 1989	Saldarriaga 8 (HUA)
Amanitaceae					
<i>Amanita advena</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Ovrebó 2547 (HUA NY): Tipo
<i>Amanita arocheae</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Halling 5071 (HUA): Tipo
<i>Amanita aureomonile</i> Tulloss <i>et al.</i> , 1992	and	vc		Halling <i>et al.</i> 1992	Franco-Molano 156 (CUVC): Tipo
<i>Amanita brunneocularis</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Ovrebó 2506 (HUA): Tipo
<i>Amanita colombiana</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Ovrebó 2425 (HUA): Tipo
<i>Amanita flavoconia</i> var. <i>inquinata</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Halling 5067 (HUA): Tipo
<i>Amanita flavoconia</i> var. <i>sinapicolor</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	GMM 2850 (F)
<i>Amanita fuligineodisca</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Halling 5022 (HUA NY): Tipo
<i>Amanita gemmata</i> (Fr.) Bertillon, 1866	and	cun	2600	Guzmán & Varela 1978	Guzmán 4627 (COL)
<i>Amanita humboldtii</i> Sing., 1963	and	cun	1700	Singer 1963	Singer B3527 (BAFC)
<i>Amanita inaurata</i> Secr., 1833	and	by		Singer 1963	Singer B3596 (BAFC)
<i>Amanita muscaria</i> (L. : Fr.) Hook., 1821	and	ant		Pulido 1983	Pulido <i>et al.</i> 382 (COL)
<i>Amanita picea</i> Tulloss <i>et al.</i> , 1992	and	by		Halling <i>et al.</i> 1992	Halling 5250 (HUA): Tipo
<i>Amanita sororcula</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Ovrebó 2507 (HUA): Tipo
<i>Amanita xylinivolve</i> Tulloss <i>et al.</i> , 1992	and	ant		Halling <i>et al.</i> 1992	Ovrebó 2487 (HUA): Tipo
Bolbitiaceae					
<i>Agrocybe praecox</i> (Pers. : Fr.) Fayod, 1889	and	cun		Singer 1969	Singer B3459 (LIL)
<i>Bolbitius vitellinus</i> (Pers. : Fr.) Fr., 1838	and	cun		Pulido 1983	Pulido 124 (COL ENCB)
<i>Pholiotina altoandina</i> Singer, 1989	and	ri		Singer 1989	Boekhout 361 (F): Tipo
<i>Pholiotina caricicola</i> Sing., 1989	and	ri		Singer 1989	Boekhout 370

Taxon	Distribución Biogeográfica	Departamentos Geopolitical Distribution	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
					(F): Tipo
Coprinaceae					
<i>Copelandia cyanescens</i> (Berk. & Br.) Sing., 1949	and	by cun		Pulido 1983	Dumont <i>et al.</i> CO4529; Pulido 161 (COL)
<i>Coprinus mexicanus</i> Murr., 1918	and	ant		Velásquez <i>et al.</i> 1991	Saldarriaga 17 (HUA)
<i>Coprinus micaceus</i> (Bull. : Fr.) Fr., 1838	and	cun	2600	Guzmán & Varela 1978	Guzmán 9085 (COL)
<i>Panaeolina foenicicii</i> (Pers. : Fr.) Maire, 1933	and	cun		Pulido 1983	Pulido <i>et al.</i> 40 (COL ENCB) Singer B3496 (COL)
<i>Psathyrella candolenana</i> (Fr.) Maire & Werner, 1937	and	cun	2600	Guzmán & Varela 1978	Guzmán 4614 (COL)
<i>Psathyrella viloriana</i> Dennis, 1961	and	cun		Pulido 1983	Guzmán 9081 (COL)
Entolomataceae					
<i>Entoloma ferrugineogranulatum</i> Singer, 1968	pac	vc		Horak 1977	Singer B6325 (F): Tipo
<i>Entoloma liophylliforme</i> Singer, 1968	pac	vc	180	Horak 1977	Singer B6275 (F): Tipo
Hygrophoraceae					
<i>Hygrocybe rosea</i> Murr., 1911	and	by		Singer 1969	Singer B3572 (BAFC): Tipo
<i>Hygrocybe rubroflava</i> Sing., 1973	pac	vc		Singer 1973a	Singer B6276 (F): Tipo
<i>Hygrophorus hypohaemactus</i> Corner, 1936	and	ant		Velásquez <i>et al.</i> 1991	García 10 (HUA): Tipo
<i>Hygrophorus quercuum</i> Sing., 1973	and	by		Singer 1973a	Singer B6020 (F): Tipo
Strophariaceae					
<i>Melanotus alpiniae</i> (Berk.) Pilát, 1950	ori pac	met cho		Pulido 1983	Pulido <i>et al.</i> 84 Forero 5996 (COL)
<i>Melanotus dumontii</i> Sing., 1989	and	cun		Singer 1989	Dumont CO1008 (F): Tipo
<i>Naematoloma subviride</i> (Berk. & Curt.) Smith, 1951	car	ma		Pulido 1983	Pulido 274, 250 (COL) Pulido 329, 376 (COL ENCB)
<i>Naematoloma udum</i> (Pers. : Fr.) Karst., 1879	and	cun		Pulido 1983	Pulido 149,152 (COL Pulido 127,128 (COL ENCB)
<i>Panaeolus antillarum</i> (Fr.) Dennis, 1961	and pac	cun cho vc		Pulido 1983	Pulido 163

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Panaeolus semiovatus</i> (Fr.) Lund. & Nannf., 1938		pu		Pulido 1983	(COL); Pulido 434 (COL); Guzmán 4517 (COL ENCB) Dumont <i>et al.</i> CO3636 (COL)
<i>Panaeolus sphinctrinus</i> (Fr.) Quél., 1872	and	cau cun		Pulido 1983	Guzmán 4478, 4503 (COL) Pulido 37, 55 (COL ENCB)
<i>Pholiota privigna</i> (Speg.) Sing., 1961	and	by		Singer 1969	Singer B3629 (SGO)
<i>Pleuroflammula squarrolosa</i> Sing., 1973	and	vc		Singer 1973a	Singer B6961 (F): Tipo
<i>Psilocybe argentina</i> (Speg.) Sing., 1969	pac	cho		Pulido 1983	Dumont <i>et al.</i> CO7451 (COL)
<i>Psilocybe bullacea</i> (Bull. : Fr.) Kumm., 1871	and	by		Guzmán 1983	Dumont CO5037 (COL)
<i>Psilocybe castanella</i> var. <i>subhyperella</i> (Sing.) Guzmán, 1983	and	cun		Guzmán 1983	Singer B3502 (BAFC)
<i>Psilocybe columbiana</i> Guzmán, 1978	and	cun		Guzmán 1983	Guzmán 9146 (COL): Tipo
<i>Psilocybe coprohila</i> (Bull. : Fr.) Kumm., 1871	and	snt		Pulido 1983	Diaz 1431 (COL)
<i>Psilocybe cubensis</i> (Earle) Sing., 1948	and	cun		Guzmán 1983	Pulido 54, 162 (COL ENCB)
<i>Psilocybe fumicola</i> Guzmán, 1978	and	cun		Guzmán 1983	Guzmán 9096 (COL): Tipo
<i>Psilocybe montana</i> (Pers. : Fr.) Kumm., 1871	and	cun		Pulido 1983	Guzmán 4550 (COL)
<i>Psilocybe</i> aff. <i>phyllogena</i> (Peck.) Peck., 1912	and	by		Pulido 1983	Diaz 1394 (COL ENCB)
<i>Psilocybe pintonii</i> Guzmán, 1978	and	cun		Pulido 1983	Guzmán 9762 (COL): Tipo
<i>Psilocybe subcubensis</i> Guzmán, 1978	and	by snt		Guzmán 1983	Dumont CO4675 (NY); Romero 8361 (COL)
<i>Psilocybe subhyperella</i> Sing., 1973	and	cun		Singer 1973a	Singer B3502 (F): Tipo
<i>Psilocybe yungensis</i> Sing., & Smith, 1958	and	vc		Guzmán 1983	Singer B6112 (MICH)
<i>Psilocybe zapotecorum</i> (Heim.) Guzmán, 1978	car	ma		Pulido 1983	Pulido 268, 272 (COL ENCB)
<i>Stropharia semiglobata</i> Fr., 1821	and	cun	3300	Guzmán & Varela 1978	Guzmán 9072 (COL)
Tricholomataceae					
<i>Aphyllotus campanelliformis</i> Sing., 1973	and	cun		Singer 1973a	Singer B6034 (F): Tipo
<i>Armillariella olivacea</i> (Rick) Sing., 1956	and	cun		Singer 1970a	Singer B6006 (F)
<i>Asterophora parasitica</i> (Bull. : Fr.) Sing., 1951	and	cun	2600	Guzmán & Varela 1978	Guzmán 4621 (COL)

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Taxon</i>	<i>Biogeographic Distribution</i>	<i>Geopolitical Distribution</i>	<i>Elevation</i>	<i>Reference</i>	<i>Collection for Reference</i>
<i>Calypotella pteridophytorum</i> Sing., 1973	and	vc		Singer 1973a	Singer B6413 (F): Tipo
<i>Campanella aeruginea</i> Singer, 1975	and	cun		Singer 1975	Singer B3509 (F): Tipo
<i>Campanella castaneipes</i> Sing., 1975	and	by		Singer 1975	Singer B3632 (F): Tipo
<i>Campanella tenuitunicata</i> Sing., 1955	and	vc		Singer 1975	Singer B6117; 6168 (F)
<i>Chaetocalathus liliputianus</i> (Mont.) Sing., 1942	and	by cun vc		Singer 1976	Singer B3489 (F) Singer B3506 (F) Singer B6927 (F)
<i>Chaetocalathus magnus</i> Halling, 1993	and	ant	2350	Halling 1993	Halling 6159 (HUA NY): Tipo
<i>Clitocybe columbiana</i> Sing., 1973	and	cau		Singer 1973a	Singer B6967 (F): Tipo
<i>Collybia popayanica</i> Halling, 1989	pac	cau	1800	Halling 1989	Halling 5272 (FUP): Tipo
<i>Collybia turpis</i> Halling, 1989	and	ant	2350	Halling 1989	Halling 6077 (HUA): Tipo
<i>Crinipellis alcalivirens</i> Singer, 1976	and	cun		Singer 1976	Singer B3510 (F): Tipo
<i>Crinipellis carecomois</i> (Berk. & Curt.) Sing., 1942	pac	vc		Singer 1976	Singer B6230 (F)
<i>Crinipellis purpurea</i> Sing., 1976	and	vc	1800	Singer 1976	Singer B6151a (F): Tipo
<i>Crinipellis stupparia</i> (Berk. & Curt.) Pat., 1900	and	vc	1900	Singer 1976	Singer B6903 (F)
<i>Crinipellis</i> aff. <i>tucumanensis</i> Sing., 1976	and	ant		Velasquez <i>et al.</i> 1991	Velásquez 3 (HUA)
<i>Dictyopanus pusillus</i> (Pers. : Lév.) Singer, 1945	pac	vc	1200	Guzmán & Varela 1978	Guzmán 4576 (COL)
<i>Favolaschia amoenerosea</i> (Henn.) Sing., 1950	ori	met		Pulido 1983	Phillipson <i>et al.</i> 1756 (COL)
<i>Favolaschia</i> aff. <i>flava</i> (Bres.) Sing., 1950	car	ma		Pulido 1983	Pulido <i>et al.</i> 339 (COL)
<i>Favolaschia moelleri</i> (Bres.) Sing., 1974	and	ant		Pulido 1983	Dumont CO1731 (COL NY)
<i>Filoboletus gracilis</i> (Kl. : Berk.) Sing., 1845	car ori	ma met		Pulido 1983	Pulido <i>et al.</i> 334 Pulido <i>et al.</i> 95 (COL ENCB)
<i>Favolaschia manipularis</i> (Berk.) Sing., 1945	car	ma		Pulido 1983	Pulido <i>et al.</i> 335;345 (COL ENCB)
<i>Gerronema cheilocystidiatum</i> Sing., 1970	pac	vc	500	Singer 1970a	Singer B6300 (F): Tipo
<i>Gerronema calongei</i> Sing., 1970	pac	vc	1600	Singer 1970a	Singer B6122 (F): Tipo
<i>Gerronema daguense</i> Sing., 1989	pac	vc		Singer 1989	Singer B6123 (F): Tipo
<i>Gerronema fibula</i> (Bull. : Fr.) Sing., 1961	and	by		Singer 1970a	Singer B3563 (BAFC)
<i>Gerronema hudsonianum</i> (Jennings) Sing., 1970	and	cun	3500	Singer 1970a	Singer B1019; T7024 (F)
<i>Gerronema luteovitellinum</i> (Pilát & Nannf.) Sing., 1970	and	cun	3500	Singer 1970a	Singer B7023 (F)
<i>Gerronema tenue</i> Dennis, 1961	and	vc	2000	Singer 1970a	Singer B6462 (F)

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Gloiocephala allomorpha</i> Sing., 1976	and	vc	1950	Singer 1976	Singer B6451 (F): Tipo
<i>Gerronema longicrinita</i> Sing., 1976	pac	vc		Singer 1976	Singer B6282 (F): Tipo
<i>Gymnopus macropus</i> Halling, 1996	and	ant		Halling 1996	Halling, 5263 (NY HUA): Tipo
<i>Gerronema spongiosus</i> (Berk. & Curt.) Halling, 1979	and	ant na		Halling 1979	Halling 5074 (HUA NY); 6109 (NY PSO)
<i>Hemimycena crispuliformis</i> Sing, 1973	pac	vc		Singer 1973a	Singer B6263 (F): Tipo
<i>Hohenbuehelia angustata</i> (Berk.) Sing., 1952	pac	cho		Pulido 1983	Forero 5993 (COL)
<i>Hohenbuehelia calongei</i> Sing., 1973	and	vc		Singer 1973a	Singer B6116a (F): Tipo
<i>Hohenbuehelia culmicola</i> Sing., 1989	and	cun		Singer 1989	Singer B3503d (BAFC): Tipo
<i>Hohenbuehelia espeletiae</i> Sing., 1982	and	to	3900	Singer 1989	Boekhout 589 (MEDEL): Tipo
<i>Hydropus cavipes</i> var. <i>cavipes</i> Sing., 1982	pac	vc		Singer 1982	Singer B6179 (F)
<i>Hydropus hydrophoroides</i> Sing. 1982	pac	vc	180	Singer 1982	Singer B6204 (F): Tipo
<i>Hydropus hygrophilus</i> Sing., 1973	pac	vc		Singer 1973a	Singer B6396 (F): Tipo
<i>Hydropus marasmioides</i> Sing., 1973	and	by		Singer 1973a	Singer B3628 (BAFC): Tipo
<i>Hydropus nigrita</i> (Berk. & Curt.) Sing., 1973	and	ant		Velásquez <i>et al.</i> 1991	Saldarriaga 14 (HUA)
<i>Hydropus occidentalis</i> Sing., 1982	pac	vc		Singer 1982	Singer B6117 (F): Tipo
<i>Hydropus omphaliniformis</i> Sing., 1973	pac	vc		Singer 1973a	Singer B6240 (F): Tipo
<i>Hydropus paraensis</i> Sing., 1973	pac	vc		Singer 1982	Singer B6219 (F)
<i>Hymenogloea papyracea</i> (Berk. & Curt.) Sing., 1951	and	cun		Singer 1976	Singer B3516 (LIL COL)
<i>Laccaria amethystina</i> (Bolt.: Hook.) Cke., 1884	and	cun	2600	Guzmán & Varela 1978	Guzmán 4609 (COL)
<i>Laccaria gomezii</i> Mueller & Sing., 1988	and	hu	2270	Mueller & Singer 1988	Mueller 2893 (F)
<i>Laccaria laccata</i> (Scop. : Fr.) Berk. & Br., 1883 1978	and	cun	2600	Guzmán & Varela 1978	Guzmán 4637; 9142 (COL)
<i>Lactocollybia lacrimosa</i> (Heim.) Sing., 1939	and	ant		Velasquez <i>et al.</i> 1991	Pineda 6 (HUA)
<i>Marasmiellus amphicystis</i> Sing., 1975	pac	vc		Singer 1975	Singer B6289 (F): Tipo
<i>Marasmiellus aporposeptus</i> Sing., 1973	and	vc	1600	Singer 1973b	Singer B6110 (F): Tipo
<i>Marasmiellus baeosporus</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6369 (F): Tipo
<i>Marasmiellus bisporiger</i> Sing., 1973	pac	vc		Singer 1973b	Singer B376 (F): Tipo
<i>Marasmiellus brasiliensis</i> (Berk. & Mont.) Sing., 1955	pac	vc	130	Singer 1973b	Singer B6229 (F)
<i>Marasmiellus cnacopolius</i> Sing., 1973	pac	cau		Singer 1973b	Singer B6041 (F): Tipo

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Marasmiellus columbianus</i> Sing., 1973	pac	cau		Singer 1973b	Singer B6797 (F): Tipo
<i>Marasmiellus daguae</i> Sing., 1973	and	vc	1600	Singer 1973b	Singer B6428 (F): Tipo
<i>Marasmiellus dealbatus</i> (Berk. & Curt.) Sing., 1955	pac	vc		Singer 1973b	Singer B6308 (F)
<i>Marasmiellus defibulatus</i> Sing., 1955	pac	vc		Singer 1973b	Singer B6286a (F)
<i>Marasmiellus defibulatus</i> var. <i>strictor</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6821 (F): Tipo
<i>Marasmiellus defibulatus</i> var. <i>insignis</i> Sing., 1973	and	vc		Singer 1973b	Singer B6320 (F): Paratipo
<i>Marasmiellus distantifolius</i> (Murr.) Sing., 1961	and	to		Singer 1973b	Singer B6037 (F)
<i>Marasmiellus eburneus</i> (Theissen) Sing., 1973	pac	vc		Singer 1973b	Singer B6362; B6371 (F)
<i>Marasmiellus gilvus</i> var. <i>cundinamarcae</i> Sing., 1973	and	cun		Singer 1973b	Dumont <i>et al.</i> CO1957 (F)
<i>Marasmiellus idroboi</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6333 (F): Tipo
<i>Marasmiellus incarnatipallens</i> Sing., 1973	and	vc	1600	Singer 1973b	Singer B6431 (F): Tipo
<i>Marasmiellus inodermatoides</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6298 (F)
<i>Marasmiellus nivosus</i> (Berk) Sing., 1973	pac	vc		Singer 1973b	Singer B6411 (F)
<i>Marasmiellus nubigenus</i> Sing., 1973	and	vc		Singer 1973b	Singer B6133 (F): Tipo
<i>Marasmiellus papillatomarginatus</i> Sing., 1973	and	vc		Singer 1973b	Singer B6136 (F): Tipo
<i>Marasmiellus</i> aff. <i>paraensis</i> Sing., 1973	pac	vc cau		Singer 1973b	Singer B6289 (F); B6792 (F)
<i>Marasmiellus peckii</i> Murr., 1915	and	ant		Velásquez <i>et al.</i> 1991	Velásquez 15 (HUA)
<i>Marasmiellus perangustispermus</i> Sing., 1973	and	vc		Singer 1973b	Singer B6323 (F): Tipo
<i>Marasmiellus platyhyphes</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6360 (F): Tipo
<i>Marasmiellus pseudoparaphysatus</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6313 (F): Tipo
<i>Marasmiellus quercinus</i> Sing., 1973	and	cun		Singer 1973b	Singer B6010 (F): Tipo
<i>Marasmiellus rhodophyllus</i> Sing., 1973	pac	cau		Singer 1973b	Singer B6990d (F): Tipo
<i>Marasmiellus sanctaemarthae</i> Sing., 1973	car	ma	1300	Singer 1973b	Martin 3493 (F): Tipo
<i>Marasmiellus subcoracinus</i> subsp. <i>subcoracinus</i> Sing., 1973	and	vc	2000	Singer 1973b	Killip & H. García 33830 (NY)
<i>Marasmiellus subolivaceomelleus</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6233 (F): Tipo
<i>Marasmiellus synodicus</i> (Kunze apud Fr.) Sing., 1955	pac	vc		Singer 1973b	Singer B6410 (F)
<i>Marasmiellus umbilicatus</i> Sing., 1973	pac	vc		Singer 1973b	Singer B6270 (F): Tipo
<i>Marasmius bambusinus</i> (Fr.) Fr., 1838	pac	vc		Singer 1976	Singer B6345 (F)
<i>Marasmius bellus</i> Berk., 1856	car	ma		Pulido 1983	Pulido <i>et al.</i> 322 (COL ENCB)
<i>Marasmius berteroi</i> var. <i>major</i> Sing., 1965	pac	vc		Singer 1976	Singer B6295 (F)

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Marasmius carneotinctus</i> Sing., 1976	pac	vc		Singer 1976	Guzmán 4580 (COL ENCB): Tipo
<i>Marasmius corrugatus</i> var. <i>aurantiacus</i> (Murr.) Sing., 1976	pac	vc	1700	Singer 1976	Singer B6945 (F)
<i>Marasmius cuatrecasasi</i> Sing., 1976	pac	vc		Singer 1976	Singer B6517 (F): Tipo
<i>Marasmius cundinamarcae</i> Sing., 1976	and	cun		Singer 1976	Singer B6009 (F): Tipo
<i>Marasmius cyrillidis</i> Dennis, 1968	pac	cau		Singer 1976	Singer B6057 (F)
<i>Marasmius echinatulus</i> Sing., 1968	and	vc		Singer 1976	Singer B6154 (F)
<i>Marasmius eorotula</i> Sing., 1976	pac	vc		Singer 1976	Singer B6380 (F): Tipo
<i>Marasmius floriceps</i> Berk. & Curt., 1869	pac	vc		Singer 1976	Singer B6206 (F)
<i>Marasmius graminum</i> (Liver) Berk. & Br., 1860	pac	cho		Pulido 1983	Pulido <i>et al.</i> 414 (COL)
<i>Marasmius griseoroseus</i> (Mont.) Dennis, 1952	and	vc		Singer 1976	Singer B6104A (F)
<i>Marasmius haedinus</i> var. <i>haedinus</i> Berk. & Hook., 1856	pac	vc		Singer 1976	Singer B6228 (F)
<i>Marasmius haematocephalus</i> (Mont.) Fr., 1838	pac	cho		Pulido 1983	Pulido <i>et al.</i> 429 (COL)
<i>Marasmius haematocephalus</i> var. <i>leucophyllus</i> Sing.	pac	vc		Singer 1976	Singer (COL)
<i>Marasmius helvoloides</i> Sing., 1976	pac	vc		Singer 1976	Singer B6298a (F): Tipo
<i>Marasmius hypophaeus</i> Berk. & Curt., 1869	pac	vc		Singer 1976	Singer B6262 (F)
<i>Marasmius idroboi</i> Sing., 1976	and	vc	2000	Singer 1976	Singer B6295 (F): Tipo
<i>Marasmius leoninus</i> Berk., 1856				Pulido 1983	Little 10053 (COL)
<i>Marasmius leucozonitiformis</i> Sing., 1976	and	vc		Singer 1976	Singer B6105 (F): Tipo
<i>Marasmius martini</i> Sing., 1958	car	ma	1300	Singer 1976	Martin 3469 (IA): Tipo
<i>Marasmius microhaedinus</i> Sing., 1965	pac	vc		Singer 1976	Singer B6512 (F)
<i>Marasmius multiceps</i> Berk. & Curt., 1869	pac	cho		Pulido 1983	Pulido <i>et al.</i> 459 (COL ENCB)
<i>Marasmius myocephalus</i> Sing., 1976	and	vc		Singer 1976	Singer B6152 (F): Tipo
<i>Marasmius nebularum</i> Sing., 1965	and	by		Singer 1976	Singer B3637 (BAFC): Tipo
<i>Marasmius neglectus</i> Sing., 1976	pac	vc		Singer 1976	Singer B6381 (F): Tipo
<i>Marasmius perlongispermus</i> Sing., 1976	pac	cau		Singer 1976	Singer B6489 (F): Tipo
<i>Marasmius praeandinus</i> Sing., 1965	and	vc		Singer 1976	Singer B6163 (F)
<i>Marasmius pseudoniveus</i> var. <i>amylocystis</i> Sing., 1965	pac	vc		Singer 1976	Singer B6297 (F): Tipo
<i>Marasmius pseudoniveus</i> var. <i>pseudoniveus</i> Sing., 1965	pac	vc		Singer 1976	Singer B6273 (F)
<i>Marasmius rotalis</i> Berk. & Curt., 1873	and	by		Singer 1976	Singer B3560 (BAFC): Tipo
<i>Marasmius rubeer</i> Sing., 1965	car	ma		Pulido 1983	Pulido 232 (COL ENCB)

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Marasmius rufomarginatus</i> Sing., 1958	and	vc	250	Singer 1976	Singer B6126 (F) Schultes & I. Cabrera 12868 (BPI F): Tipo
<i>Marasmius schultesii</i> Sing., 1976	amz	ama		Singer 1976	
<i>Marasmius setulosifolios</i> Sing., 1965	pac	vc		Singer 1976	Singer B 6200 (F)
<i>Marasmius splachnoides</i> Fr. : Fr., 1838	and	cun		Singer 1976	Guzmán 4630 (ENCB)
<i>Marasmius splitgerberi</i> (Mont.) Sing., 1965	pac	vc		Singer 1976	Singer B6283 (F)
<i>Marasmius tenuisetulosus</i> (Sing.) Sing., 1976	pac	vc		Singer 1976	Singer B6354 (F)
<i>Marasmius trinitalis</i> var. <i>inmarginatus</i> Sing., 1965	pac	vc		Singer 1976	Singer B6253 (F)
<i>Marasmius venezuelanus</i> Dennis, 1961	and	vc		Singer 1976	Singer B6455 (F)
<i>Marasmius vergeliensis</i> Sing., 1976	and	vc		Singer 1976	Singer B6426 (F): Tipo
<i>Marasmius violeorotalis</i> Sing., 1976	and	vc	2000	Singer 1976	Singer B6450 (F): Tipo
<i>Micromphale latisporum</i> Sing., 1973	and	cau	3000	Singer 1973a	Singer B6983 (F): Tipo
<i>Micromphale occidentale</i> Sing., 1973	and	vc		Singer 1973a	Singer B6902 (F): Tipo
<i>Mycena dumontii</i> Sing., 1989	and	cun		Singer 1989	Dumont CO4476 (NY): Tipo
<i>Mycena fuscocystidiata</i> Sing., 1989	pac	vc		Singer 1989	Singer B6184 (F): Tipo
<i>Mycena griseoradiata</i> Sing., 1989	pac	vc	1700	Singer 1989	Singer B6218 (F)
<i>Mycena idroboi</i> Sing., 1973	and	vc		Singer 1973a	Singer B6157 (F): Tipo
<i>Mycena ixoxantha</i> Sing., 1973	and	cau	2800	Singer 1973a	Singer B6476 (F): Tipo
<i>Mycena multicaudata</i> Sing., 1973	and	cun		Singer 1973a	Singer B3501 (BAFC): Tipo
<i>Mycena pura</i> (Pers. : Fr.) Kumm., 1871	and	cun	3500	Guzmán & Varela 1978	Guzmán 9106 (COL)
<i>Mycena xnthocephala</i> Sing., 1973	and	vc		Singer 1973a	Singer B6148 (F): Tipo
<i>Omphalina columbiana</i> Sing., 1970	and	cun	3000	Singer 1970a	Singer B3531 (BAFC): Tipo
<i>Oudemansiella canarii</i> (Jungh) Höhnelt, 1909	pac	cho		Pulido 1983	Pulido <i>et al.</i> 425A (COL)
<i>Oudemansiella glutinosa</i> Sing., 1989	pac	vc		Singer 1989	Singer B6287 (F): Tipo
<i>Oudemansiella</i> (Rick) Sing., 1953	car	ma		Pulido 1983	Pulido <i>et al.</i> 276 (COL)
<i>Panellus stypticus</i> (Bull. : Fr.) Karst., 1879	and	cun		Pulido 1983	Guzmán 4618 (COL ENCB)
<i>Phaeodepas nutans</i> Sing., 1973	and	vc		Singer 1973a	Singer B6155 (F): Tipo
<i>Pleuromyconula circularis</i> Sing., 1973	and	vc	1750	Singer 1973a	Singer B6961 (F): Tipo
<i>Ripartitella brasiliensis</i> (Speg.) Sing., 1951	and	ant		Ovrebo 1988	Ovrebo 2551 (HUA NY NO)
<i>Tetrapyrgos nigripes</i> (Schw.) Horak, 1986	and	ant		Velásquez <i>et al.</i> 1991	Saldarriaga 15 (HUA)
<i>Tricholoma cystidiosum</i> Cifuentes & Guzmán, 1988	and	ant		Saldarriaga <i>et al.</i>	Pineda 137

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Trogia cantharelloides</i> (Mont.) Pát., 1900	and	ant		1988 Velásquez <i>et al.</i> 1991	(HUA) Velásquez 10 (HUA)
<i>Xeromphalina campanella</i> (Batsch : Fr.) Kühner & Maire 1934	and	cun	2600	Guzmán & Varela 1978	Guzmán 4603 (COL)
<i>Xeromphalina helbergeri</i> Sing., 1953	and	by		Singer 1965	Singer B3634 (BAFC)
<i>Xeromphalina tenuipes</i> (Schw.) Smith, 1952	and	vc	2100	Singer 1965	Cuatrecasas 18348 (LIL)
CANTHARELLALES					
Cantharellaceae					
<i>Cantharellus lateritius</i> var. <i>columbianus</i> Petersen, 1992	and	na		Petersen & Mueller 1992	Desjardin 4895 (TENN): Tipo
<i>Cantharellus cibarius</i> Fr., 1821	and	cun	2600	Guzmán & Varela 1978	Guzmán 4615 (COL)
<i>Cantharellus cinnabarinus</i> Schw., 1832	and	cun	2100	Guzmán & Varela 1978	Guzmán 4547 (COL)
Craterellaceae					
<i>Craterellus boyacensis</i> Sing., 1963	and	by		Singer 1963	Singer B3598 (BAFC): Tipo
<i>Craterellus fallax</i> Smith, 1968	and	cun hu	2500	2270	Mueller 1995 Mueller 2807 (F), 2899 (F)
<i>Craterellus sinuosus</i> (Fr.) Fr., 1838	and	ant	2350	Mueller 1995	Ovrebø 2490 (NY)
Physalacriaceae					
<i>Physalacria sanctaemarthae</i> Martin & Baker, 1941	car	ma		Singer 1976	Martin 3485 (IA): Tipo
RUSSULALES					
Russulaceae					
<i>Lactarius cauciae</i> Sing., 1973	pac	cau		Singer 1973a	Singer B6059 (F): Tipo
<i>Lactarius chrysorheus</i> Fr., 1838	and	cun	2600	Guzmán & Varela 1978	Guzmán 4635 (COL)
<i>Russula boyacensis</i> Sing., 1963	and	by		Singer 1963	Singer B3593 (BAFC): Tipo
<i>Russula caucaensis</i> Sing., 1989	pac	cau		Singer 1989	Singer B6046 (F): Tipo
<i>Russula columbiana</i> Sing., 1963	and	cun		Singer 1963	Singer B3489 (BAFC): Tipo
<i>Russula cyanoxantha</i> (Schaeff.: Secr.) Fr., 1863	and	cun	2100	Guzmán & Varela 1978	Guzmán 45559 (COL)
<i>Russula emetica</i> ssp. <i>lactarius</i> Sing., 1963	and	by		Singer 1963	Singer B3548 (BAFC): Tipo
<i>Russula humboldtii</i> Sing., 1963	and	cun		Singer 1963	Singer B3482

Taxon	Distribución Biogeográfica	Departamentos Geopolitical Distribution	Altitud Elevation	Referencia Reference	Colección de Referencia Collection for Reference
<i>Russula semililacea</i> Sing., 1989	and	cun		Singer 19889	(BAFC): Holotipo Singer B6013 (F): Tipo
<i>Russula idroboi</i> Sing., 1963	and	cun	2000	Singer 1963	Singer B3523 (BAFC): Holotipo
CORTINARIALES					
Cortinariaceae					
<i>Cortinarius boyacensis</i> Sing., 1963	and	by		Singer 1963	Singer B3598 (BAFC): Tipo
<i>Galerina columbiana</i> Sing., 1973	and	by		Singer 1963	Singer B3608 (BAFC): Tipo
<i>Galerina discernibilis</i> Sing., 1973	and	vc		Singer 1973a	Singer B6150 (F): Tipo
<i>Galerina oligocalyptrata</i> Sing., 1989	and	by		Singer 1989	Singer B3571 (F): Tipo
<i>Inocybe fastigiata</i> Bres., 1881	and	cun	2600	Guzmán & Varela 1978	Guzmán 4634 (COL)
<i>Inocybe jalapensis</i> (Murr.) Sing., 1958	and	cun	2000	Singer 1963	Singer B3538 (BAFC)
<i>Inocybe tequendamae</i> Sing., 1963	and	cun		Singer 1963	Singer B3500 (BAFC): Tipo
<i>Phaeocollybia ambigua</i> Horak & Halling, 1991	and	na	2500	Horak & Halling 1991	Halling 6131 (NY): Tipo
<i>Phaeocollybia caudata</i> Horak & Halling, 1991	and	ant	2500	Horak & Halling 1991	Halling 5007 (NY): Tipo
<i>Phaeocollybia columbiana</i> Sing., 1970	pac	vc		Singer 1970b	Singer B6274 (F): Tipo
<i>Phaeocollybia oligoporpa</i> Sing., 1987	and	ant na	2350-2500	Horak & Halling 1991	Halling 6165 (HUA NY) Halling 6137 (NY PSO)
<i>Phaeocollybia quercetorum</i> Sing., 1987	and	ant	2500	Horak & Halling 1991	Halling 5060 (HUA NY)
<i>Phaeocollybia singularis</i> Horak y Halling , 1991	and	na	2700	Horak & Halling 1991	Halling & Salazar de Benavides 6114 (NY): Tipo
<i>Phaeomarasmium mercedis</i> Sing., 1989	and	cun		Singer 1989	Singer B6023 (F): Tipo
<i>Rozites colombiana</i> Halling & Ovrebo, 1987	and	ant	2500	Ovrebo 1987	Halling 5004 (HUA): Tipo
Crepidotaceae					
<i>Crepidotus mollis</i> (Fr.) Staude, 1857	and	cau	3200	Guzmán & Varela 1978	Guzmán 4504 (COL)
<i>Crepidotus nephrodes</i> (Berk. & Curt.) Sacc., 1887	and	vc	1700	Singer 1973b	Singer B6953 (F)
<i>Crepidotus uber</i> (Berk. & Curt.) Sacc., 1887	and	vc	1900	Singer 1973b	Singer B6453 (F)
<i>Melanomphalina baeospora</i> Sing., 1973	pac	vc	130	Singer 1973b	Singer B6231 (F): Tipo

Taxon	Distribución Biogeográfica	Departamentos Geopolitical	Rango Altitudinal Elevational	Referencia Reference	Colección de Referencia Collection for Reference
BOLETALES					
Boletaceae					
<i>Boletus auriporus</i> Peck., 1872	and	ant		Halling 1989	Halling 5000 (HUA)
<i>Boletus fuligineotomentosus</i> Sing., 1973	and	vc	1800	Singer 1973	Singer B6958 (F): Tipo
<i>Boletus orquidianus</i> Halling, 1989	and	ant	1350	Halling 1989a	Halling 4964 (HUA): Tipo
<i>Boletus pyrrosceles</i> Halling, 1992	and	na	2700	Halling 1992a	Franco-Molano 172 (NY): Tipo
<i>Boletus pulverulentus</i> Opat, 1836	and	cun		Halling 1989a	Halling 5251 (NY)
<i>Boletus pseudorubinellus</i> Smith & Thiers, 1970	and	cau	1800	Halling 1989a	Halling 5267 (NY)
<i>Boletus subtomentosus</i> Fr., 1821	and	ant	2500	Halling 1989a	Halling 5061 (HUA)
<i>Boletus truncatus</i> (Sing., Snell & Dick) Pouz., 1966	and	ant	2500	Halling 1989a	Halling 5059 (HUA NY)
<i>Leccinum andinum</i> Halling, 1989	and	ant		Halling 1989a	Halling 5052 (HUA): Tipo
<i>Suillus luteus</i> (Fr.) S. F. Gray 1821	and	cun	3000	Guzmán & Varela 1978	Guzmán 9143 (COL)
Gyrodontaceae					
<i>Gyrodon exiguus</i> Sing. & Digilio, 1960	and	ant	1350	Halling 1989a	Halling 4942 (HUA NY)
<i>Gyrodon monticola</i> (Sing.) Sing. & Digilio, 1957	and	hu		Halling 1989a	Halling 5287 (NY)
Strobilomycetaceae					
<i>Austroboletus subvirens</i> (Hongo) Wolfe, 1979	and	hu		Halling 1989a	Halling 5955 (NY)
<i>Strobilomyces confusus</i> Sing., 1945	and	hu		Halling 1989a	Halling 5280 (NY)
Xerocomaceae					
<i>Boletellus ananas</i> (Curt.) Murr., 1909	and	vc	1800	Halling 1989a	Singer B6942 (F)
<i>Boletellus ruselli</i> (Curt.) Murr., 1909	and	cau	1800	Halling 1989a	Halling 5270 (NY)
<i>Phylloporus fibulatus</i> Sing., Ovr., & Halling, 1990	and	ant		Singer <i>et al.</i> 1990	Ovrebø 2546 (HUA): Tipo
<i>Phylloporus purpurellus</i> Sing., 1973	and	cau		Singer 1973a	Singer B6775 (F): Tipo

Agradecimientos / Acknowledgements

Los autores agradecen la colaboración y sugerencias recibidas de los doctores Roy E. Halling del Jardín Botánico de Nueva York y Greg Mueller del Museo de Historia Natural de Chicago. Nuestros más sinceros agradecimientos a Ruth Aldana Gomez y Carlos López Quintero del laboratorio de Taxonomía de Hongos y Líquenes del Departamento de Biología de la Universidad de Antioquia. El trabajo fue financiado por COLCIENCIAS y la Universidad de Antioquia.

Literatura Citada / Literature Cited

- Franco-Molano, A. E. (1993) Studies on *Cystoderma*: A new Species and a New Combination *Mycologia* 85:672-676
- Franco-Molano, A. E. (1999) A New Species of *Macrolepiota* from Colombia *Actualidades Biológicas* 21:13-17
- Guzmán, G. (1983) The Genus *Psilocybe*. *Beih. Nova Hedwigia* 74:1-439
- Guzmán, G., L. Varela (1978) Los Hongos de Colombia - III Observaciones sobre los Hongos, Líquenes y Mixomicetos de Colombia *Caldasia* 12:309-337
- Guzmán, G., V. Bandala, L. Montoya, Y. Saldarriaga (1989) Nuevas evidencias sobre las relaciones microflorísticas en África y el Neotropico. El Género *Rugospora* Heinemann. (Fungi, Agaricales) *Brenesia* 32:107-112
- Haeksworth, D. L., P. M. Kirk, B. C. Sulton, D. N. Pegler (1995) *Ainsworth & Bisby's Dictionary of Fungi* 616pp.
- Halling, R. (1989a) A Synopsis of Colombian Boletus *Mycotaxon* 34: 93-113
- Halling, R. (1989b) Notes on *Collybia* III. Three Neotropical Species of Subg. *Rhodocollybia* *Mycologia* 81: 870-875
- Halling, R. (1992) A New species of Boletus section *Luridi* from Colombia *Brittonia* 44:322-325
- Halling, R. (1993) Two New Crinipellinae (Tricholomataceae: Marasmiaceae) from South América *Mycotaxon* 57:379-385
- Halling, R. (1996) Notes on *Collybia* V. *Gymnopus* section *Levipedes* in tropical South America, with comments on *Collybia* *Brittonia* 48:487-494
- Halling, R., C. L. Ovrebo (1987) A new species of *Rozites* from oak forest of Colombia with notes on biogeography *Mycologia* 79: 674-678
- Henao-M., L. G. (1989) Notas sobre afiloforales colombianos (Basidiomicetes: Aphyllophorales) *Caldasia* 16:1-9
- Henao-M., L. G. (1990) Notas sobre afiloforales colombianos (Basidiomicetes: Aphyllophorales) II *Caldasia* 16:129-132
- Henao-M., L. G. (1997) Afiloforales de Colombia III: *Amauroderma* (Basidiomicetes: Ganodermataceae) en el Herbario Nacional Colombiano *Caldasia* 19:129-1332
- Horak, E. (1992) *Galerina* (Agaricales) in Neotropical South America, Type studies, Additional Material, Comments, Key *Boletín de la Sociedad Argentina de Botanica* 28:233-246
- Horak, E. (1977) *Entoloma* in South America I *Sydowia* 30:40-111
- Horak, E., R. Halling (1991) New records of *Phaeocollybia* from Colombia *Mycologia* 83: 464-472
- Mueller, G.M. 1995 The Genus *Craterellus* (Basidiomycetes, Aphyllophorales) in Costa Rica and Colombia *Documents Mycologiques* 25:487-496
- Mueller, G.M., R. Singer (1988) *Laccaria gomezii*, a new agaric species from the Querceta of Colombia and Costa Rica *Mycotaxon* 33:223-227
- Ovrebo, C. L. (1988) Notes on the Cultural Characters, Monography and Distribution of *Ripartitella brasiliensis* *Mycotaxon* 31:229-237
- Petersen, R. H., G. Mueller (1992) New South American Taxa of *Cantharellus*, *C. nothofagorum*, *C. xanthoscyphus* and *C. lateritius* var. *colombianus* *Boletín de la Sociedad Argentina de Botánica* 28:195-200
- Pulido, M. M. (1983) Estudios en Agaricales Colombianos *Los hongos de Colombia IX*, 143 p.
- Saldarriaga, Y., F. Pineda, G. García, L. Velásquez, G. Guzmán (1988) Nuevos Registros de Agaricales en Colombia *Rev. Mex. Micol.* 4: 333-342
- Singer, R. (1963) Oak Mycorrhiza Fungi in Colombia *Mycophatol et Mycol Appl* 20:239-252
- Singer, R. (1965) Monographs of South America Basidiomycetes Especially Those of the East Slope of the Andes and Brazil. X. - *Xeromphalina* - *Boletín de la Sociedad Argentina de Botánica* 10: 302-310
- Singer, R. (1969) Mycoflora Australis *Nova Hedwigia Beih* 29: 1-349
- Singer, R. (1970a) Omphalinae *Flora Neotropica Monograph* 3:3-84
- Singer, R. (1970b) *Phaeocollybia* *Flora Neotropica Monograph* 4:3-13
- Singer, R. (1973a) Diagnoses Fungorum Novorum Agaricalium III. *Sydowia* 7:1-106
- Singer, R. (1973b) The genera *Marasmiellus*, *Crepidotus* and *Simocybe* in The Neotropics *Sydowia* 44:1-517
- Singer, R. (1975) The Neotropical species of *Campanella* and *Aphyllotus* with notes on some species of *Marasmiellus* *Nova Hedwigia* 26: 847-895
- Singer, R. (1976) Marasmiaceae (Basidiomycetes - Tricholomataceae). *Flora Neotropica Monograph* 17:1-

347

- Singer, R. (1982) *Hydropus - Flora Neotropica Monograph* 32:1-153
- Singer, R. (1989) New Taxa and new Combinations of Agaricales (Diagnoses Fungorum Novorum Agaricium IV) *Fieldiana Botany* 21:1-33
- Singer, R., C. Ovrebo, R. Halling (1990) New species of *Phylloporus* and *Tricholomopsis* from Colombia, with notes on *Phylloporus boletinoides* *Mycologia* 82: 452-459
- Tobón, L. E. (1991) Ascomycetes de Colombia: Discomycetes del Departamento de Antioquia *Caldasia* 16:327-336
- Tulloss, R. E., C. L. Ovrebo, R. E. Halling (1992) Studies on *Amanita* (Amanitaceae) from Andean Colombia *Mem. New York Bot. Gard.* 66: 1-46
- Uribe-M., J. (1995) Catalogo de los Myxomycetes registrados para Colombia *Caldasia* 18:23-36
- Velásquez, L., Y. Saldarriaga, F. Pineda, G. García. (1989) Nuevos Registros de Hongos en Colombia (Departamento de Antioquia). Descripción de algunos Agaricales. *Actualidades Biológicas* 18:74-79

Anexo / Appendix

Lista de sinónimos de géneros y especies de hongos Agaricales y Boletales presentes en Colombia.
 List of synonyms for the Agaricales and Boletales genera and species found in Colombia.

- Agaricus campestris* = *Psalliota campestris* (L. : Fr.) Quéf.
Amanita muscaria = *Agaricus muscarius* Fr.
Armillariella olivacea = *Armillaria mellea* var. *olivacea* Rick.; *A. puiggarii* f. *olivacea* (Rick) Sing.
Asterophora parasitica = *Nyctalis parasitica* Fr.
Austroboletus subvirens = *Porphyrellus subvirens* Hongo
Bolbitius vitellinus = *Agaricus vitellinus* Pers.: Fr.
Boletellus ananas = *Boletus ananas* Cur.
Boletellus russellii = *Boletus russellii* Frost.
Boletus atkinsonianus = *Ceratomyces atkinsonianus* Murr.,
Boletus subtomentosus = *Xerocomus subtomentosus* (Fr.) Quéf.
Boletus truncatus = *Xerocomus truncatus* Sing., Snell, & Dick
Copelandia cyanescens = *Agaricus cyanescens* Berk. & Br.; *Paneolus cyanescens* (Berk. & Br.) Sacc.
Coprinus micaceus = *Agaricus micaceus* Bull.: Fr.
Crepidotus nephrodes = *Agaricus nephrodes* Berk. & Curt.; *A. malachius* Berk. & Curt.; *A. putrigenus* Berk. & Curt.; *Crepidotus malachius* (Berk. & Curt.) Sacc.; *C. putrigenus* (Berk. & Curt.) Sacc.
Crepidotus uber = *Agaricus uber* Berk. & Curt.; *Aschersonia mellea* Berk. & Br.; *Crepidotus melleus* (Berk. & Br.) Petch.; *C. sulcatus* Murr.
Crinipellis carecomoeis = *Agaricus carecomoeis* Berk. & Curt.; *Collybia carecomoeis* (Berk. & Curt.) Sacc.
Crinipellis stupparia = *Agaricus stupparius* Berk. & Curt.; *Collybia stupparia* (Berk. & Curt.) Sacc.
Cystoderma amiantinum = *Agaricus amiantinus* Scop.: Fr.; *Armillaria amiantina* (Scop.: Fr.) Kauffm.; *Lepiota amiantina* (Scop. : Fr.) Karst
Chaetocalathus liliputianus = *Agaricus liliputianus* Mont.; *Pleurotus liliputianus* (Mont.) Sacc.;
Marasmius nidulus Berk. & Curt.; *Crinipellis nidulus* (Berk. & Curt.) Pat. (“nitidulus”); *C. calosporus* Pat.; *Marasmius calosporus* (Pat.) Sacc. & D. Saccardo; *Pleurotopsis calospora* Murr.
Dictyopanus pusillus = *Gloeoporus pusillus* Pers.: Lév.; *Polyporus rhipidium* Berk.; *Polyporuletus subpulverulentus* Berk. & Curt.; *Laschia guaranitica* Speg.; *Favolus rhipidium* (Berk.) Sacc.; *F. rhipidium* var. *subpulverulentus* (Berk. & Curt.) Sacc.; *Gloeoporus rhipidium* (Berk.) Speg.; *Gloeoporus guaraniticus* (Speg.) Speg.; *Polyporus diminutus* Masee.; *Dictyopanus rhipidium* (Berk.) Pat.; *D. subpulverulentus* (Berk. & Curt.) Pat.; *Polyporus pusillus* (Pers. : Lév.) Lloyd.; *Polyporus rhipidium* Berk. var. *pusillus* (Pers. : Lév.) Kobayasi, *Dictyopanus pusillus* var. *rhipidium* (Berk.) Sing.; *Panellus pusillus* (Pers. : Lév.) Burdsall & Miller.
Entoloma lyophylliforme = *Rhodophyllus lyophylliforme* Sing.
Entoloma ferrugineogranulatum = *Rhodophyllus ferrugineogranulatum* Sing.
Favolaschia amoenerosea = *Laschia amoenerosea* Henn.
Favolaschia aff. *flava* = *Laschia flava* Bress.
Favolaschia moelleri = *Laschia moelleri* Bress.
Filoboletus gracilis = *Polyporus gracilis* Kl. : Berk.; *Laschia clypeata* Pat.; *Mycenoporella clypeata* (Pat.) Heim.
Filoboletus manipularis = *Favolous manipularis* Berk.; *Polyporus mycenoide* Pat.; *Porolaschia manipularis* Pat.; *Poromyceia manipularis* (Berk.) Heim.
Gerronema fibula = *Agaricus fibula* Bull. : Fr.; *Marasmiellus fibula* (Buill. : Fr.) Sing.; *Hemimycena fibula* (Buill. : Fr.) Sing.; *Omphalopsis fibula* (Buill. : Fr.) Murr.; *Mycena fibula* (Buill. : Fr.) Kuhn.; *Omphalina*

- fibula* (Buell. : Fr.) Quél.; *O. fibula* (Buell.: Fr.) Kumm.
Gerronema hudsonianum = *Hygrophorus hudsonianus* Jenn.; *Clitocybe hudsoniana* (Jenn.) Bigelow.
Gerronema luteovitellinum = *Omphalina luteovitellina* Pilát & Nann.; *O. luteovitellina* (Pilát & Nann.) M. Lange.
Gymnopus spongiosus = *Marasmius spongiosus* Berk. & Cur., Hook.; *Collybia spongiosa* (Berk. & Cur.) Sing.; *Marasmius semisquarrosus* Berk. & Cooke.
Hohenbuehelia angustata = *Panus angustatus* Berk.
Hydropus cavipes var. *cavipes*. = *Collybia cavipes* Pat. & Gaillard.; *Trogia fuliginea* Corner.
Hydropus nigrita = *Agaricus nigritus* Berk. & Curt.; *Collybia nigrita* (Berk. & Curt.) Sacc.; *Gymnopus nigritus* (Berk. & Curt.) Murr.
Hygrocybe rosea = *Hygrophorus roseus* (Murr.) Murr.
Hygrophorus hypohaemactus = *Hygrocybe hypohaemacta* (Corner) Pegler.
Hymenogloea papyracea = *Craterellus papyraceus* Berk. & Curt.; *Libellus papyraceus* (Berk. & Curt.) Lloyd.; *Stereum riofrioi* Pat.; *Hymenogloea riofrioi* (Pat.) Pat.
Inocybe jalapensis = *Naucoria jalapensis* Murr.
Laccaria laccata = *Agaricus laccatus* Scop.: Fr.; *Clitocybe laccata* (Scop.: Fr.) Kumm.
Lactocollybia lacrimosa = *Bertrandiella* Heim.
Lepiota serena = *Leucoagaricus serenus* (Fr.) Bon & Boiffard.; *L. sericeus* Bon & Boiffard.
Macrolepiota procera = *Agaricus procerus* Scop. : Fr.; *Lepiota procera* (Scop.: Fr.) S. F. Gray.
Marasmiellus brasiliensis = *Marasmius brasiliensis* Berk. & Mont.; *Collybia brasiliensis* (Berk. & Mont.) Dennis.
Marasmiellus dealbatus = *Marasmius dealbatus* Berk. & Curt.; *Collybia dealbata* (Berk. & Curt.) Dennis.
Marasmiellus distantifolius = *Scytinotus distantifolius* Murr.; *Marasmius distantifolius* (Murr.) Murr.; *Pleurotus distantifolius* (Murr.) Dennis.
Marasmiellus eburneus = *Marasmius eburneus* Theissen.
Marasmiellus nivosus = *Marasmius nivosus* Berk.; *M. epileucus* Berk.;
Marasmiellus peckii = *Heliomyces peckii* Murr.
Marasmiellus synodicus = *Agaricus synodicus* (Kunze) Fr.; *Marasmius synodicus* (Kunze :Fr.) Fr.
Marasmius bambusinus = *Agaricus bambusinus* Fr.
Marasmius corrugatus var. *aurantiacus* = *Marasmius aurantiacus* (Murr.) Sing.; *Gymnopus aurantiacus* Murr.;
Marasmius echinatus = *Marasmius echinatus* Theissen : Sing.; *M. cohaerens* var. *brasiliensis* Theissen.
Marasmius graminum = *Agaricus graminum* Libert.; *Marasmius culmisedus* Sing.
Marasmius griseoroseus = *Agaricus griseoroseus* Mont.; *Pleurotus griseoroseus* (Mont.) Sacc.
Marasmius haematocephalus = *Agaricus haematocephalus* Mont.
Marasmius leoninus = *Marasmius orinocensis* (Pat. & Gaillard) Sacc.; *Androsaceus orinocensis* Pat. & Gaillard.
Marasmius martini = *Cymatella longipes* Martin.; *Marasmius multiceps* Berk. & Curt.; *M. submulticeps* (Murr.) Sacc. & Trotter.; *Polymarasmius multiceps* (Berk. & Curt.) Murr.; *P. submulticeps* Murr.
Marasmius setulosifolius = *Marasmius setulosifolius* Sing.
Marasmius splachnoides = *Agaricus splachnoides* Fr.; *Androsaceus splachnoides* (Fr.) Rea.
Marasmius splitgerberi = *Agaricus splitgerberi* Mont.
Marasmius tenuisetulosus = *Marasmius grandisetulosus* var. *tenuisetulosus* Sing.
Melanotus alpiniae = *Agaricus (Crepidotus) alpiniae* Berk.; *Melanotus musaecola* (Berk. & Curt.) Sing.; *M. psychotirae* (Pat.) Sing.; *M. fumosifolius* (Murr.) Sing.
Mycena pura = *Agaricus purus* Pers.: Fr.; *Prunulus purus* (Pers.: Fr.) Murr.
Naematoloma subviride = *Agaricus subviride* Berk. & Curt.; *Hypholoma flavovirens* Murr.
Naematoloma udum = *Agaricus udus* Fr., *Hypholoma udum* Quél.
Oudemansiella canarii = *Agaricus canarii* Jungh.; *Oudemansiella platensis* (Speg.) Speg.; *O. orinocensis* (Pat.) Speg.
Oudemansiella steffenii = *Tricholoma steffenii* Rick.; *Oudemansiella echinosperma* Sing.
Panaeolus antillarum = *Agaricus antillarum* Fr.; *A. solidipes* Peck.; *Anellaria sepulchralis* (Berk.) Sing.; *Panaeolus solidipes* (Peck) Sacc.
Panaeolus semiovatus = *Agaricus semiovatus* Fr.; *Anellaria semiovata* (Fr. : Sacc.) Pers. & Dennis.
Panaeolus sphinctrinus = *Agaricus sphinctrinus* Fr.; *Panaeolus campanulatus* Fr.: L. var. *sphinctrinus* (Fr.) Quél..
Panellus stypticus = *Agaricus stypticus* Bull. : Fr.; *Panus stypticus* (Bull.: Fr.) Fr.
Panaeolina foeniseccii = *Agaricus foeniseccii* Pers. : Fr.; *Psatyra foeniseccii* (Pers.: Fr.) Bertra.; *Panaeolus foeniseccii* (Pers.: Fr.) Kuhn.
Psathyrella candolleana = *Agaricus candolleanus* Fr.; *Hypholoma candolleanum* (Fr.) Quél.
Psilocybe argentina = *Deconica argentina* Speg.
Psilocybe bullacea = *Agaricus bullaceus* Bull.: Fr.; *Deconica bullacea* (Bull.: Fr.) Sacc.; *Geophila bullacea* (Bull.: Fr.) Quél.
Psilocybe castanella var. *subhyperella* = *Psilocybe subhyperella* Sing.
Psilocybe coprohila = *Agaricus coprophilus* Bull.; *A. fumicola* Pers.; *Psilocybe mutans* Mcknight.
Psilocybe cubensis = *Stropharia cubensis* Earle.; *Naematoloma caeruleascens* (Pat.) Sing.; *Stropharia cyanescens* Murr.
Psilocybe montana = *Agaricus montanus* Pers.: Fr.
Psilocybe aff. *phyllogena* = *Agaricus (Hypholoma)*

phyllogena Peck.; *Psilocybe modestus* (Peck) Smith.;
Deconica rhombispora (Britz.) Sing.
Psilocybe yungensis = *Psilocybe yungensis* var. *diconica*
 Sing. & Smith.
Psilocybe zapotecorum = *Psilocybe zapotecorum* Heim.;
P. candidipes Sing. & Smith.; *P. aggericola* Sing. &
 Smith.; *P. bolivarii* Guzmán.; *P. lazoi* Sing.
Rugospora pseudorubiginosa = *Lepiota*
pseudorubiginosa Cifuentes, Guzmán & Bandala.
Suillus luteus = *Boletus luteus* Fr.; *Cricunopus luteus* (Fr.)

Karst.; *Viscipellis luteus* (Fr.) Quél.; *Ixocomus luteus*
 (Fr.) Quél.
Trogia cantharelloides = *Panus cantharelloides* Mont.;
Marasmius purpurascens Berk. & Curt.; *Lentinus*
scyphoides Pat.
Xeromphalina tenuipes = *Agaricus tenuipes* Schw.;
A. garicus hilarianus Montagne.; *Agaricus rheicolor*
 Berk.; *Collybia tenuipes* (Schw.) Sacc.; *Gymnopus*
tenuipes (Schw.) Murr.; *Galera hilariana* (Mont.) Sacc.;
Heimiomyces tenuipes (Schw.) Sing.

