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Macrofungi of the Dominican Republic: a first checklist and introduction to www.neotropicalfungi.com

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Abstract

Approximately 1,700 mushroom specimens were collected in the Dominican Republic from 2004 to 2021, comprising 450 species and 210 genera, as determined by morphological and/or molecular characteristics. The macrofungi belonging to Ascomycota include 28 species and 15 genera, while those in Basidiomycota include 432 species and 195 genera. Much taxonomic work is still ongoing, both for the identification of many collections and additional collecting for species not yet catalogued. It is estimated that this checklist represents 5−10% of the macrofungi present in the country. The webpage, www.neotropicalfungi.com, has been set up to document and illustrate the fungi of the Dominican Republic.

Keywords – Caribbean – checklist – Dominican Republic – fungal diversity – Greater Antilles

Introduction

This checklist (Tables 1, 2) presents the results of 17 years of mushroom research in the Dominican Republic, carried out by the author in collaboration with mycologists from many countries, from 2004 to 2021. The author was appointed as a researcher at the Department of Botany of the National Botanical Garden of Santo Domingo allowing him to study fungal diversity (macro-fungi) with the academic support of a national institution. Collections made during this ongoing research are deposited in the national mycological herbarium (JBSD). To date, of the more than 1,700 collections of macrofungi, about 450 have final or, in some cases, provisional identifications. Among these collections there are 49 species new to science, 1 newly described variety, 4 new combinations, and 6 newly described taxa at different ranks (1 genus, 1 subgenus and 4 sections), all included in the References section.

Most of the mushrooms found in the Dominican Republic belong to species considered saprotrophic, which is in agreement with data reported in the mycological literature. According to certain studies (Corrales et al. 2018, Tedersoo et al. 2014), the percentage of ectomycorrhizal fungi (ECM) decreases as one moves from the poles towards the equator. The low ECM fungal diversity can be explained by the low density of host plants and their high specificity (Álvarez-Manjarrez et al. 2018). Following the world lists of plants forming ECM (Corrales et al. 2018, Molina & Trappe 1982, Trappe 1962), in the Dominican Republic there are only 39 genera of plants belonging to 26 families (Table 3). As far as I have been able to verify in 17 years compiling my checklist, the ECM macro-fungi species are found exclusively in the presence of *Pinus* (*P. occidentalis, P. caribaea*) and *Coccoloba* spp. (*C. diversifolia, C. pubescens, C. uvifera*). In the woods where *Pinus*

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and *Coccoloba* plants are present, the biodiversity of ECM fungi is high. The vegetation of the island officially includes about 6,000 species of vascular plants, with at least 2,000 endemics (Fernandez 2007), but only 4,200 have been cataloged in the JBSD herbarium (personal communication of the Director of the Botany Department Dr. Brigido Peguero). The species are distributed from tropical dry forests to cloud forest located at medium or high altitude. As for the vegetation of the areas explored in the Dominican Republic (Fig. 1) see Angelini & Losi (2013a, b), Fernandez (2007), Parra et al. (2018).

Checklist

Table 1 Checklist of macroscopic *Phylum Ascomycota*.

NO.	Taxa	Fungarium numbers	Published in
1	*Cookeina sulcipes* (*C. speciosa*)	JBSD121935, ANGE1253, ANGE1586	Angelini & Medardi (2012)
2	*Cookeina tricholoma*	JBSD: 123797, 124853, 123795; ANGE: 1587, 1588	Angelini & Medardi (2012)
3	*Daldinia clavata*	JBSD121943, JBSD123804	Angelini & Medardi (2012)
4	*Entonaema liquescens*	JBSD125849	-
5	*Entonaema pallidum*	ANGE1589	-
6	*Geodina guanacastensis** (***G. salmonicolor***)[a]	JBSD127409, JBSD127408, JBSD127411	Angelini et al. (2018)
7	*Glaziella aurantiaca*	JBSD131250	-
8	*Helvella* cf. *pubescens*	ANGE478	-
9	*Hypoxylon anthochroum*	JBSD121942	Angelini & Medardi (2012)
10	*Hypoxylon rubiginosum*	JBSD127115	-
11	*Hypoxylon* sp.	ANGE1458	-
12	*Kretzschmaria cetrarioides*	JBSD121919	Angelini & Medardi (2012)
13	*Nectria pseudotrichia*	ANGE867	-
14	*Ophiocordyceps sobolifera*	JBSD127114	-
15	*Phillipsia crispata*	JBSD121914, JBSD123796, ANGE1250	Angelini & Medardi (2012)
16	*Phillipsia domingiensis*	JBSD121911, JBSD123806	Angelini & Medardi (2012)
17	*Scutellinia cubensis*	JBSD121915	Angelini & Medardi (2012)
18	*Trichoderma caribbaeum*	ANGE1573	-
19	*Trichoderma peltatum (Hypocrea peltata)*	ANGE1451	-
20	*Xylaria allantoidea*	JBSD121895	Angelini & Medardi (2012)
21	*Xylaria* cf. *anisopleura*	JBSD127116	-
22	*Xylaria* cf. *multiplex*	JBSD125884	-
23	*Xylaria* cf. *coccophora*	JBSD125881	-
24	*Xylaria cubensis*	JBSD121912, JBSD125883	Angelini & Medardi (2012)

Table 1 Continued.

NO.	Taxa	Fungarium numbers	Published in
25	*Xylaria* cf. *longipes*	JBSD121925	-
26	*Xylaria multiplex*	JBSD125884	Angelini & Medardi (2012)
27	*Xylaria* cf. *polymorpha*	JBSD125885	-
28	*Xylaria subcoccophora*	JBSD121900	Angelini & Medardi (2012)

[a] Following publication of Angelini et al. (2018) type sequencing revealed that *Geodina guanacastensis* is synonymous with, and has priority to *G. salmonicolor* (Pfister et al. 2020)

Table 2 Checklist of macroscopic *Phylum Basidiomycota*.

NO.	Taxon	Fungarium number	Published in
1	***Agaricus argenteopurpureus* sp. nov. ***	JBSD: 126501, 126503, 126500, 126502; ANGE: 1123, 1178, 1222	Parra et al. (2018)
2	***Agaricus basicingulatus* sp. nov. ***	JBSD130754, JBSD130762, JBSD130766, JBSD130767	Ortiz-Santana et al. (2021)
3	***Agaricus candussoi* sp. nov. ***	JBSD126491, JBSD126490, ANGE846	Parra et al. (2018)
4	***Agaricus caribaeus* sp. nov. ***	JBSD123820, JBSD126485; ANGE: 1129, 1125, 1126	Parra et al. (2018)
5	*Agaricus endoxanthus**	JBSD126486, ANGE907, ANGE1267	Parra et al. (2018)
6	***Agaricus flavidodiscus* sp. nov. ***	JBSD126488, JBSD126487	Parra et al. (2018)
7	***Agaricus furfuripes* sp. nov. ***	JBSD127435, JBSD130765, ANGE1212	Ortiz-Santana et al. (2021)
8	***Agaricus lodgeae****	JBSD: 126505, 126506, 123817; ANGE: 841, 842, 1078	Parra et al. (2018)
9	***Agaricus macrochlamys* sp. nov. ***	JBSD: 126480,126482, 126483, 126484, 130773	Medel-Ortiz et al. (2022)
10	*Agaricus martiniciensis**	JBSD: 121929, 123819, 126496, 126499, 126497	Parra et al. (2018)
11	***Agaricus porphyropos* sp. nov. ***	JBSD126494, JBSD126493, ANGE1127	Parra et al. (2018)
12	*Agaricus rufoaurantiacus**	JBSD: 126477, 126473, 126474, 126475, 126476, 126471, 126472	Parra et al. (2018)
13	*Agaricus subrufescens**	JBSD123801, JBSD123800, JBSD126504, JBSD126481	Parra et al. (2018)
14	***Agaricus tephrolepidus* sp. nov. ***	JBSD123822, ANGE1228	Parra et al. (2018)
15	*Agrocybe retigera*	ANGE1546, ANGE1547, ANGE1195	-
16	*Amanita abrupta*°	ANGE104	-
17	*Amanita* cf. *bulbosa*°	ANGE130	-
18	*Amanita* cf. *rubescens*°	ANGE: 562, 1493, 1494, 1495, 1719, 1733	-
19	*Amanita cruzii*°	JBSD: 125828, 129835; ANGE: 371, 1049, 1388	-
20	***Amanita domingensis* sp. nov. ***	JBSD130784, JBSD130785, JBSD130787, JBSD130788	Angelini & Vizzini (2020)

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
21	*Amanita manicata** (*Saproamanita m.*)	JBSD125827, ANGE1216	Vizzini et al. (2016a)
22	*Amanita multisquamosa*°	ANGE379, ANGE565, ANGE1591, ANGE1592	-
23	*Amanita persicina*°	ANGE1376B, ANGE1508, ANGE1511, ANGE1517	-
24	*Amanita polypyramis*°	ANGE1512, ANGE1721, ANGE1736	-
25	*Amanita* spp.°	ANGE393, ANGE563, ANGE566, ANGE567, ANGE1496	-
26	*Amauroderma schomburgkii*	JBSD127131, JBSD127679	Angelini & Losi (2016)
27	*Amilosporus campbellii*	JBSD125826, JBSD122299, JBSD122300	Angelini & Losi (2015)
28	*Antrodia albida*	JBSD124867	Angelini & Losi (2015)
29	*Antrodia radiculosa*	JBSD129814, JBSD127130	Angelini & Losi (2015)
30	*Antrodiella semisupina*	JBSD121908, JBSD129844	Angelini & Losi (2015)
31	*Antrodiella versicutis*	JBSD129818, JBSD130729, ANGE1748	Angelini & Losi (2018**)**
32	*Asterophora* cf. *lycoperdoides*	ANGE884, ANGE999, ANGE1530, ANGE1566	-
33	*Asterostroma cervicolor*	ANGE1657	-
34	*Auricularia brasiliana*	ABGE1441	-
35	*Auricularia cornea*	JBSD121896, JBSD121941, JBSD123783, JBSD129841	-
36	*Auricularia fuscosuccinea*	ANGE1303	-
37	*Auriscalpium villipes*	JBSD127678	Angelini & Losi (2016)
38	*Austroboletus subflavidus**	JBSD130771, ANGE388	Gelardi et al. (2021)
39	*Boidinia peroxydata*	ANGE801	Angelini & Losi (2018)
40	*Boletellus ananas*°	ANGE: 392, 1068, 1353, 1357, 1480	-
41	*Boletellus cubensis*°	ANGE1474	-
42	*Boletellus domingensis*°	ANGE111	-
43	*Boletus occidentalis*°	ANGE1380, ANGE1485, ANGE1741, ANGE1841	-
44	*Boletus ruborculus*°	ANGE1406, ANGE1634, ANGE1479	-
45	*Bresadolia craterella* (*Polyporus craterellus*)	ANGE1132	Angelini & Losi (2021)
46	*Buchwaldoboletus* cf. *acaulis*°	ANGE1471, ANGE1472	-
47	*Callistosporium elegans**	JBSD127427	Vizzini et al. (2020)
48	*Calocera* cf. *viscosa*	ANGE876	-
49	***Calocybella dominicana* sp. nov. ***	JBSD126507, ANGE1635, AH46062	Vizzini et al. (2017a)
50	***Calocybella goethei* sp. nov. ***	JBSD130968, ANGE1639	Angelini & Vizzini (2021)
51	*Calvatia* cf. *fragilis*	ANGE1173	-
52	*Calvatia rugosa*	JBSD: 125829, 125830, 125831, 125832; ANGE1723	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
53	*Cantharellus* cf. *cibarius*	ANGE113, ANGE398, ANGE553	-
54	*Cantharellus* sp.	ANGE367	-
55	*Ceriporia alachuana*	JBSD133406	Angelini & Losi (2021)
56	*Ceriporia mellea*	JBSD123794	Angelini & Losi (2015)
57	*Ceriporia microspora*	JBSD133402	Angelini & Losi (2021)
58	*Chlorophyllum hortense*°	ANGE1396	-
59	*Chlorophyllum molybdites*°	ANGE599, ANGE1651, ANGE1290,	-
60	*Chroogomphus jamaicensis*°	ANGE118, ANGE119, ANGE224, ANGE225	-
61	*Clathrus crispus*	JBSD122297, ANGE1707	-
62	*Clathrus roseovolvatus*	JBSD121921, JBSD125833, JBSD127675	-
63	*Clavulina connata*	ANGE215, ANGE1159	-
64	*Clavulina fuscolilacina*	JBSD125834, ANGE1435, ANGE1640	-
65	*Clavulinopsis curniculata*	ANGE876	-
66	*Clavulinopsis laeticolor*	ANGE1454	-
67	***Clitocella termitophila* sp. nov. ***	JBSD127398	Baroni et al. (2020)
68	*Clitocybe* sp.	ANGE569	-
69	*Clitocybe* cf. *wellsii*	ANGE300, ANGE1699	-
70	***Clitopilus velutinus* sp. nov. ***	JBSD127422	Baroni et al. (2020)
71	*Collybia aurea*° (*Tricholomopsis a.*)	JBSD127137, ANGE556	-
72	*Coltricia cinnamomea*	JBSD: 131252, 125835, 127125, 127680; ANGE:1433, 1447, 1648	Angelini & Losi (2016)
73	*Conocybe crispella*	JBSD127146	-
74	*Conocybe* sp.	ANGE890	-
75	*Coprinellus disseminatus*	JBSD125836	-
76	*Coprinellus xanthothrix*°	JBSD127668	-
77	*Coprinopsis* cf. *lotinae*°	ANGE1390	-
78	*Coprinopsis mexicana*°	ANGE1182	-
79	*Coprinopsis variegata*°	JBSD130735	-
80	*Coralloderma guzmanii*	JBSD127664	Angelini & Losi (2016)
81	*Coriolopsis caperata*	JBSD: 122298, 123814, 124872, 129832, 129834; ANGE476	Angelini & Losi (2014**)**
82	*Cortinarius* sp.°	ANGE1509	-
83	*Cortinarius* subg. *Dermocybe*°	ANGE126, ANGE1647	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
84	*Cortinarius* subg. *Telamonia*°	ANGE1650	-
85	*Cortinarius* cf. *junghuhnii*°	ANGE114	-
86	*Cotylidia aurantiaca*	JBSD125837, JBSD121909, JBSD129827	Angelini & Losi (2013b)
87	*Cotylidia aurantiaca* f. *alba*	JBSD125838	-
88	*Craterellus* cf. *lutescens*	ANGE107, ANGE1643	-
89	*Crepidotus decipiens*°	ANGE479, ANGE776, ANGE1554, ANGE1555	-
90	*Crepidotus roseus*°	ANGE60	-
91	*Crepidotus* spp.	ANGE981, ANGE577	-
92	*Crepidotus thermophilus*° (*Melanomphalia t.*)	ANGE59	-
93	*Crustodontia chrysocreas*	JBSD129811	Angelini & Losi (2018)
94	*Cubamyces menziesii* (*Trametes m.*)	ANGE1436	-
95	*Cyathus poeppigii*	JBSD125839, ANGE812	-
96	*Cymatoderma caperatum*	JBSD131267	-
97	*Cyptotrama chrysopepla*	JBSD127666, JBSD127666, ANGE988	-
98	*Cystodermella* spp.	ANGE678, ANGE682	-
99	*Cystolepiota petasiformis*	JBSD121937, ANGE1240, ANGE1548, ANGE462	-
100	*Dacryopinax elegans*	ANGE679	-
101	*Dacryopinax spathularia*	ANGE1300, ANGE1381	-
102	*Deconica coprophila*	ANGE389	-
103	*Dictyopanus pusillus*	ANGE35, ANGE803	Angelini & Losi (2016)
104	*Dictyoploca rhyssophylla* (*Tricholomopsis r.*)	ANGE1715, ANGE1024	-
105	*Earliella scabrosa*	JBSD121901, JBSD125840, JBSD125841, JBSD127119	Angelini & Losi (2014)
106	*Echinoporia aculeifera*	JBSD123812	Angelini & Losi (2015)
107	*Entoloma* cf. *altissimum*	(in Horak herbarium)	-
108	*Entoloma* cf. *murrayi*	ANGE987	-
109	*Entoloma* spp.	ANGE: 376, 439, 960, 886, 894, 1076, 1201, 1204, 1636, 1713, 1716, 1742, 1272, 1338	-
110	*Entolomataceae* sp.	ANGE889	-
111	*Favolaschia cinnabarina*	JBSD127683	-
112	*Favolus tenuiculus* (*Favolus brasiliensis*)	JBSD121944, JBSD123803, JBSD123808	Angelini & Losi (2014)
113	*Filoboletus gracilis*	JBSD122295, JBSD127672, ANGE910	Angelini & Losi (2016)
114	*Fistulinella gloeocarpa**	JBSD130770, ANGE969; ANGE1146, ANGE1147	Gelardi et al. (2021)
115	*Flammula* sp.	ANGE677	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
116	*Fomes fasciatus*	JBSD121904, JBSD123810, ANGE1329	Angelini & Losi (2014)
117	*Fomitiporia maxonii*	JBSD131257	Angelini & Losi (2021)
118	*Fuscoporia callimorpha*	JBSD127126, ANGE1450	Angelini & Losi (2016)
119	*Ganoderma australe*	JBSD122294, JBSD125842, JBSD129843, JBSD130738	Angelini & Losi (2013a)
120	*Ganoderma coffeatum* (*Humphreya c.*)	JBSD124863, JBSD131259, ANGE1443	Angelini & Losi (2013a)
121	*Ganoderma flaviporum* (*Humphreya f.*)	JBSD127127	-
122	*Ganoderma lobatum*	JBSD131245, JBSD131246	Angelini & Losi (2018)
123	*Ganoderma resinaceum*	JBSD: 121928, 125843, 125844, 129833; ANGE: 1217, 1297, 1307	Angelini & Losi (2013a)
124	*Geastrum hariotii* (*G. lloydianum?*)	MA-Fungi80070	Zamora et al. (2014)
125	*Geastrum albonigrum*	ANGE454	-
126	*Geastrum javanicum*	JBSD125845, ANGE811, ANGE863, ANGE1666	-
127	*Geastrum lageniforme*	JBSD125846	-
128	*Geastrum saccatum*	JBSD125847, JBSD125848	-
129	*Geastrum schweinitzii*	ANGE878, ANGE1334	-
130	*Geastrum* spp.	ANGE: 365, 517, 546, 554, 834, 836, 858, 859, 864, 877, 928, 1153	-
131	*Geastrum* cf. *triplex*	ANGE835, ANGE860	-
132	*Geastrum velutinum*	JBSD121898, JBSD125850, JBSD125851, ANGE862	-
133	*Geastrum violaceum*	ANGE508, ANGE263, ANGE861	-
134	***Gerhardtia citrinolobata* sp. nov. ***	JBSD126508, ANGE1638	Vizzini et al. (2017a)
135	*Gerronema elasticum* subsp. *amazonicum*	JBSD121938	-
136	*Gloeophyllum striatum*	JBSD: 124856, 127149, 129826, 129828; ANGE1220	Angelini & Losi (2015)
137	*Gloeoporus pannocinctus*	JBSD129840	Angelini & Losi (2018)
138	*Gloiocephala* sp.	ANGE695	-
139	*Gloiothele turpis*	JBSD124854, JBSD129815	Angelini & Losi (2016)
140	*Gymnopilus* cf. *crociphyllus*°	ANGE363	-
141	*Gymnopilus* cf. *lepidotus*°	ANGE683, ANGE684, ANGE685	-
142	*Gymnopilus* cf. *purpureosquamulosus*°	ANGE686	-
143	*Gymnopilus* spp.°	ANGE: 218, 410, 1208, 1342, 1667, 1671	-
144	*Gymnopus gibbosus*°	JBSD: 130730, 130732, 130731, 130734, 130733; ANGE534	-
145	*Gymnopus johnstonii*°	ANGE1318	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
146	*Gymnopus omphalodes*°	ANGE561	-
147	*Gymnopus* spp.	ANGE: 168, 438, 443, 456, 457, 721, 723	-
148	*Gymnopus subpruinosus*°	ANGE177, ANGE265, ANGE712	-
149	*Gyrodontium sacchari*	JBSD133384, JBSD133397	-
150	*Haplotrichum curtisii* in anamorphic stage	JBSD133398 (*Botryobasidium curtisii*)	-
151	*Heimiomyces* cf. *tenuipes*	ANGE353, ANGE1622	-
152	*Hexagonia hydnoides*	JBSD121927, JBSD122293, ANGE1031, ANGE1291	Angelini & Losi (2014)
153	*Hjortstamia papyrina* (*Lopharia p.*)	JBSD123811, JBSD129823, JBSD121924	Angelini & Losi (2013b)
154	*Hygrocybe* cf. *acutoconica*	ANGE676	-
155	*Hygrocybe* cf. *chloochlora*°	ANGE888, ANGE1374	-
156	*Hygrocybe conica* "group" °	ANGE814, ANGE817, ANGE826, ANGE440	
157	*Hygrocybe* cf. *hypohaemacta**	ANGE: 819, 822, 823, 824, 825, 741	-
158	*Hygrocybe conica*°	JBSD122305	-
159	*Hygrocybe hypohaemacta*°	ANGE692	Lodge et al. (2014)
160	*Hygrocybe* sp.°	ANGE813, ANGE815, ANGE436	-
161	*Hygrophoropsis tapinia*	ANGE1316, ANGE1549	-
162	*Hymenochaete damicornis*	JBSD127138, ANGE404	Angelini & Losi (2016)
163	*Hyphodontia crustosa* (*Xylodon c.*)	JBSD127146	Angelini & Losi (2016)
164	*Inocutis jamaicensis*	JBSD124857, ANGE1425	Angelini & Losi (2013a)
165	*Inocybe* spp.°	ANGE: 959, 1245, 1552, 1553, 1724	-
166	*Inonotus porrectus*	JBSD124866, JBSD123791, JBSD127665	Angelini & Losi (2013a)
167	*Inonotus rickii* anamorph/telemorph stage	JBSD123790, JBSD124859, JBSD125865, ANGE1627	Angelini & Losi (2013a)
168	*Irpex lacteus*	JBSD125866	-
169	*Lachnocladium schweinfurthianum*	JBSD127121, ANGE102	-
170	*Lachnocladium tubulosum*	ANGE455, ANGE1268	-
171	*Lactarius* cf. *subindigo*	ANGE117, ANGE229a, ANGE229b, ANGE381	-
172	*Lactarius* cf. *subpurpureus*	ANGE103, ANGE546	-
173	*Lactarius paradoxus*	ANGE222	-
174	*Lactifluus* cf. *caribaeus*	ANGE408	-
175	***Lactifluus domingensis* sp. nov. ***	JBSD130755, JBSD130757, JBSD130756, JBSD130758	Delgat et al. (2019)
176	*Lactocollybia aurantiaca*°	ANGE1023, ANGE1077 (*Callistodermatium a.*)	-
177	*Laternea pusilla*	JBSD125863, JBSD125864, ANGE1366	-
178	*Laternea triscapa*	JBSD121926	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
179	*Lentinula raphanica*	ANGE1048	-
180	*Lentinus berteroi*	JBSD122301, JBSD125862, ANGE1160	-
181	*Lentinus concavus*	ANGE1311, ANGE1438	-
182	*Lentinus crinitus*	JBSD122303, JBSD122304, ANGE1265, ANGE1266	-
183	*Lentinus patulus*	JBSD130748, JBSD130749	-
184	*Lentinus scleropus*	JBSD131254, JBSD122308, JBSD131255, ANGE1310	-
185	*Lenzites elegans*	JBSD122291, ANGE913	Angelini & Losi (2014)
186	*Lepiota erythrosticta*°	CA1, CA11, CA12, CA13; ANGE: 501, 1575, 1698	-
187	*Lepiota phaeosticta (Leucocoprinus p.)*°	JBSD121899	-
188	***Lepiota sosuensis* sp. nov. ***	JBSD: 127133, 127139, 127140; ANGE: 259, 499, 519	Justo et al. (2015a**)**
189	*Lepiota spiculata**	JBSD127426, ANGE1641	Angelini et al. (2020a)
190	***Lepiota squamulodiffracta* sp. nov. ***	JBSD127135, ANGE922, ANGE245	Justo et al. (2015a)
191	*Lepiota subgranulosa**	JBSD127681	Justo et al. (2015a)
192	*Lepista* cf. *sordida*°	ANGE127, ANGE1524, ANGE1660	-
193	*Lepista* sp.°	ANGE299	-
194	***Leucoagaricus bulbiger* sp. nov. ***	JBSD130924,	Justo et al. (2021)
195	***Leucoagaricus caeruleovertens* sp. nov. ***	JBSD130926, JSDB130927	Justo et al. (2021)
196	***Leucoagaricus guatopoensis* comb. nov. ***	JBSD130955, JBSD 130956, JBSD 130957	Justo et al. (2021)
197	***Leucoagaricus margaritifer* sp. nov. ***	JBSD130928, BSD130929	Justo et al. (2021)
198	***Leucoagaricus mucrocystis* comb. nov. ***	JBSD130959, JBSD130958, JBSD13960	Justo et al. (2021)
199	***Leucoagaricus pegleri* sp. nov. ***	JBSD130930, JBSD130931	Justo et al. (2021)
200	***Leucoagaricus roseovertens* sp. nov. ***	JBSD130932, JBSD130933	Justo et al. (2021)
201	*Leucoagaricus rubroconfusus**	JBSD130961, ANGE1606, ANGE1234	Justo et al. (2021)
202	***Leucoagaricus sabinae* sp. nov. ***	JBSD127132, ANGE470, ANGE94	Justo et al. (2015b)
203	***Leucoagaricus silvestris* sp. nov. ***	JBSD130934, JBSD130935, JBSD130936	Justo et al. (2021)
204	***Leucoagaricus stillatus* sp. nov. ***	JBSD130937, JBSD130938, JBSD130939	Justo et al. (2021)
205	***Leucoagaricus turgipes* sp. nov. ***	JBSD130940, JBSD130941, JBSD130942	Justo et al. (2021)
206	***Leucocoprinus antillarum* sp. nov. ***	JBSD: 130943, 130944, 130945, 130946, 130947	Justo et al. (2021)
207	*Leucocoprinus birnbaumii**	JBSD121918, ANGE1092	-
208	*Leucocoprinus* cf. *cepistipes**	JBSD21920	-
209	*Leucocoprinus cretaceus**	JBSD130962, JBSD130963, JBSD130964	Justo et al. (2021)
210	*Leucocoprinus fragilissimus**	ANGE916	-
211	***Leucocoprinus fuligineopunctatus* sp. nov.***	JBSD130948, JBSD130949, JBSD130950	Justo et al. (2021)

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
212	*Leucocoprinus heinemannii**	JBSD121933, JBSD133371	Justo et al. (2020)
213	***Leucocoprinus microlepis* sp. nov. ***	JBSD139951, JBSD139952	Justo et al. (2021)
214	***Leucocoprinus scissus* sp. nov. ***	JBSD139953, JBSD139954	Justo et al. (2021)
215	*Leucopaxillus* cf. *brasiliensis*°	ANGE: 484, 507, 513, 521, 697, 696, 923, 927, 929, 1700	-
216	*Leucopaxillus gracillimus*°	ANGE41, ANGE42, ANGE504	-
217	*Leucopaxillus* cf. *masakanus*°	ANGE497, ANGE1523	-
218	*Limacella alachuana*	ANGE297, ANGE298, ANGE1544	-
219	*Limacella myochroa*	ANGE921, ANGE1133, ANGE1623	-
220	*Limacella subillinita (Zhuliangomyces s.)*	ANGE1385, ANGE1567	-
221	*Lindtneria trachyspora*	ANGE1241	Angelini & Losi (2021)
222	*Lopharia cinerascens*	JBSD123788	Angelini & Losi (2013b)
223	*Loweomyces fractipes*	ANGE1429	-
224	*Lulesia densifolia* (*Clitocella d.*)[b]	JBSD125861	Angelini & Contu (2012)
225	*Lycoperdon curtisii*	JBSD125860	-
226	*Lycoperdon floridanum*	JBSD125859	-
227	*Macrocybe titans**	JBSD127429, JBSD131256, ANGE1572	Vizzini et al. (2020)
228	*Marasmiellus* cf. *palmivorus*°	ANGE: 267, 319, 320, 321, 322, 1582	-
229	*Marasmius* cf. *haematocephalus*°	ANGE713	-
230	*Marasmius* spp.°	ANGE: 186, 292, 293, 362, 417, 707, 709, 710, 711, 716, 903, 904	-
231	*Marasmius tageticolor**	ANGE291, ANGE714	Niveiro et al. (2022)
232	*Marasmius tucumanus**	JBSD130777, JBSD130778	Niveiro et al. (2022)
233	*Meiorganum curtisii*	ANGE1066	-
234	***Melanoleuca dominicana* sp. nov. ***	JBSD130781, ANGE278, ANGE279	Angelini et al. (2020b)
235	*Morganella fuliginea*	JBSD125856, ANGE575	-
236	*Morganella velutina*	JBSD125855, JBSD125857	-
237	*Murrilloporus rutilantiformis*	JBSD: 131247, 129813, 129821, 130747, 130746; ANGE1193	Angelini & Losi (2018)
238	*Mutinus bambusinus/argentinus*	JBSD125854, ANGE1061, ANGE1072	-
239	*Mycena* cf. *chlorophos*	ANGE883	-
240	*Mycena* cf. *holoporphyra*	ANGE354, ANGE879, ANGE1021	-
241	*Mycena* spp.	ANGE352, ANGE550, ANGE1211, ANGE1743	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
242	***Neoboletus antillanus* sp. nov. ***	JBSD127416, JBSD127417, JBSD127418, ANGE1478	Gelardi et al. (2019a)
243	*Neoboletus antillanus* f. *xanthus*°	ANGE1404, ANGE1407, ANGE1475	-
244	*Neodictyopus atlanticae*	JBSD 123813	-
245	*Neodictyopus dictyopus* (*Polyporus d.*)	JBSD: 123813, 130256, 130258, 130752; ANGE1107	Angelini & Losi (2014)
246	*Neonothopanus eugrammus*	ANGE687, ANGE777, ANGE785	-
247	*Neonothopanus hygrophanus*°	ANGE689	-
248	*Neonothopanus nambi*°	ANGE688	-
249	*Neonothopanus* sp.°	ANGE420	-
250	***Neopaxillus dominicanus* sp. nov.***	MCVE25727, MCVE26928, JBSD129820, ANGE681	Vizzini et al. (2012)
251	*Nigroporus vinosus*	ANGE1351	Angelini & Losi (2021)
252	*Oligoporus leucomallellus* (*Fuscopostia l.*)	ANGE1718	-
253	*Oligoporus leucomallus* (*Fuscopostia l.*)	JBSD129819, JBSD133391	Angelini & Losi (2018)
254	*Oudemansiella cubensis*	JBSD: 121931, 124869, 124869; ANGE: 1315, 1558, 1670	Angelini et al. (2011)
255	*Oxyporus lacera*	JBSD131265	Angelini & Losi (2021)
256	*Panaeolus antillarum*	-	-
257	*Panaeolus cyanescens*	JBSD127134, JBSD127141, JBSD127682	-
258	***Panaeolus mexicanus* comb. nov. ***	JBSD130969 *(Copelandia m.)*	Voto & Angelini (2021)
259	*Panus strigellus (Lentinus s.)*	JBSD123789, JBSD133382	-
260	*Perenniporia martia*	JBSD125853	Angelini & Losi (2015)
261	*Perenniporia subannosa*	JBSD133392, ANGE1423	Angelini & Losi (2021)
262	*Perenniporiella micropora*	JBSD129837	Angelini & Losi (2018)
263	*Perenniporiella neofulva*	JBSD133375	Angelini & Losi (2021)
264	*Phaeoclavulina eumorpha*	ANGE1460	-
265	*Phaeolus schweinitzii*	JBSD133401, ANGE1422, ANGE1446	Angelini & Losi (2021)
266	*Phallus* cf. *merulinus*	ANGE866, ANGE1144	-
267	*Phallus indusiatus*	JBSD123798	-
268	*Phellinus gilvus*	JBSD121906, JBSD131249	Angelini & Losi (2013a)
269	*Phellinus punctatus*	JBSD121922	Angelini & Losi (2013a)
270	*Phlebia tremellosa* (*Merulius t.*)	JBSD125858, JBSD129838, ANGE1325	Angelini & Losi (2018)
271	*Phlebopus beniensis*°	ANGE273	-
272	*Pholiota* sp.	ANGE1343, ANGE1355, ANGE1358, ANGE1372	-
273	*Phylloporia* cf. *chrysites*	ANGE1305	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
274	*Phylloporia elegans*	JBSD129845	Angelini & Losi (2018)
275	*Phylloporia fruticum*	JBSD127148, JBSD129831	Angelini & Losi (2016**)**
276	***Phylloporopsis boletinoides* comb. nov.***	JBSD127411, JBSD127412, JBSD127414, JBSD127415	Farid et al. (2018)
277	*Picipes virgatus (Polyporus amygdalinus)*	JBSD121916, ANGE1382	Angelini & Losi (2014)
278	*Pisolithus arhizus*	ANGE1568, ANGE1717	-
279	*Pleurotus* cf. *djamor*	ANGE675, ANGE694	-
280	*Pleurotus djamor*	JBSD124852 *(including Pleurotus djamor var. roseus)*	-
281	*Pluteus* cf. *petasatus*°	JBSD127673, ANGE387	-
282	*Pluteus* cf. *romellii*°	ANGE891	-
283	*Pluteus aureovenatus*°	ANGE892	-
284	***Pluteus crenulatus* sp. nov.***	JN603202, ANGE774	Justo et al. (2012)
285	*Pluteus* spp.°	ANGE: 578, 773, 775, 1574, 1688, 1701	-
286	***Pluteus stenotrichus* sp. nov.***	JN603201	Justo et al. (2012)
287	*Podoscypha nitidula*	JBSD131258	Angelini & Losi (2021)
288	*Podoscypha thozetii*	JBSD133383, ANGE1430	Angelini & Losi (2021**)**
289	*Podoscypha venustula*	JBSD127136	Angelini & Losi (2016)
290	*Polyporus arcularius*	JBSD122309	Angelini & Losi (2014)
291	*Polyporus guianensis*	JBSD125852, JBSD121930, JBSD127676, JBSD130251, ANGE1067	Angelini & Losi (2014)
292	*Polyporus leprieurii*	JBSD130261, JBSD130259	Angelini & Losi (2021)
293	*Polyporus tricholoma*	JBSD125825, JBSD123802, ANGE644	Angelini & Losi (2014)
294	***Porotheleum domingense* sp. nov.***	ANGE258	Consiglio et al. (2021)
295	***Porotheleum nigripes* sp. nov.***	ANGE872	Consiglio et al. (2021)
296	***Porotheleum parvulum* sp. nov.***	ANGE871	Consiglio et al. (2021)
297	*Postia tephroleuca*	JBSD133381, ANGE1431	Angelini & Losi (2021)
298	*Protomerulius substuppeus*	JBSD129809, JBSD129839, ANGE1470, ANGE1689	Angelini & Losi (2018)
299	*Psathyrella* cf. *cacao*°	ANGE1056	-
300	*Psathyrella albipes*°	JBSD130736	-
301	*Psathyrella cystidiosa*°	JBSD124849	-
302	*Psathyrella inflatocystis*°	JBSD125869	-
303	*Psathyrella* spp.°	ANGE175, ANGE176, ANGE184, ANGE221	-
304	*Psathyrella tuberculata* sensu Pegler°	ANGE142, ANGE459	-
305	*Pseudofavolus* cf. *cucullatus*	ANGE1117	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
306	*Pseudofavolus miquelii*	JBSD130266, JBSD130267	Angelini & Losi (2021)
307	*Pseudolagariobasidium belizense*	JBSD130294	Angelini & Losi (2018)
308	***Pseudowrightoporia dominicana* sp. nov.***	JBSD127410, JBSD127410	Vizzini et al. (2018)
309	*Psilocybe cubensis*	JBSD121897, ANGE911, ANGE1121	Angelini & Battistin (2011)
310	*Pterula multifida*	ANGE1434	-
311	*Pterula stipata*	-	-
312	*Pycnoporus sanguineus* (*Trametes s.*)	JBSD121917, JBSD122306, JBSD125870, JBSD125871	Angelini & Losi (2014)
313	*Pyrrhoglossum* cf. *stipitatum*	ANGE122, ANGE1065, ANGE1570	-
314	*Ramaria eumorpha* (*Phaeoclavulina e.*)	ANGE1460	-
315	*Ramaria cyanocephala*	JBSD127147, JBSD127150, JBSD129829	-
316	*Ramaria murrillii* sensu Petersen	JBSD124864	-
317	*Ramaria* sp.	ANGE920	-
318	*Ranadivia modesta*	JBSD133404	Angelini & Losi (2021)
319	*Rhizocybe* sp.° (*R. neotropicalis* sp. nov.)	ANGE123, ANGE296, ANGE389, ANGE984	Forthcoming
320	*Rhizopogon* cf. *subaustralis*	ANGE1565	-
321	***Rhodocybe dominicana* sp. nov.***	JBSD127399, JBSD127400	Baroni et al. (2020)
322	***Rhodocybe luteocinnamomea* var. *fulva* nov.***	JBSD127397	Baroni et al. (2020)
323	*Rhodocybe mellea**	JBSD127402	Baroni et al. (2020)
324	*Rhodocybe roseiavellanea**	JBSD127424, JBSD127425	Baroni et al. (2020)
325	*Rigidoporus crocatus*	JBSD129822, JBSD129825	Angelini & Losi (2018)
326	*Rigidoporus lineatus*	JBSD123787, JBSD129817, JBSD131251, JBSD131253	Angelini & Losi (2015)
327	*Rigidoporus microporus*	JBSD: 121940, 123821, 124855, 129836; ANGE1432	Angelini & Losi (2015)
328	*Rigidoporus ulmarius*	JBSD121902, JBSD123807, JBSD131248	Angelini & Losi (2015)
329	*Ripartitella brasiliensis*	ANGE1020	-
330	*Russula* cf. *chloroides*	ANGE997, ANGE1026, ANGE1027	-
331	*Russula* cf. *foetens*	ANGE998, ANGE1527, ANGE1531	-
332	*Russula* cf. *nigricans* "group"	ANGE1029, ANGE1525	-
333	*Russula cremeolilacina*	ANGE413, ANGE831	-
334	*Russula* spp.	ANGE: 230, 231, 232, 397, 1012, 1028	-
335	*Schizophyllum commune*	JBSD122290, ANGE1111, ANGE1560	-
336	*Schizopora flavipora*	JBSD133395	Angelini & Losi (2021)
337	*Schizopora radula*	JBSD129838	Angelini & Losi (2018)
338	*Scleroderma* cf. *tenerum*	ANGE1083	-

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
339	*Scytinopogon angulisporus*	JBSD127120	-
340	*Scytinostroma* sp.	ANGE1457	-
341	*Skeletocutis* cf. *amorpha*	JBSD124871	-
342	***Smithiomyces dominicanus* sp. nov.***	JBSD126144, JBSD127142, ANGE181, ANGE1702	Justo et al. (2015c)
343	*Sphaerobolus* cf. *stellatus*	ANGE1118	-
344	*Steccherinum ciliolatum*	JBSD131264, ANGE1466	Angelini & Losi (2021)
345	*Steccherinum ochraceum*	ANGE1463	-
346	*Steccherinum undigerum*	JBSD133396	Angelini & Losi (2021)
347	*Stereopsis hiscens*	JBSD123815, JBSD127124	Angelini & Losi (2013b)
348	*Stereum hirsutum*	JBSD133397	Angelini & Losi (2021)
349	*Stereum striatum*	JBSD130744, JBSD130745	Angelini & Losi (2021)
350	*Stereum versicolor*	JBSD121934, JBSD130743	Angelini & Losi (2013b)
351	*Strobilomyces confusus*°	ANGE220, ANGE1386, ANGE1490	-
352	***Stropharia acanthostipitata* sp. nov.***	JBSD127401	Vizzini et al. (2017b**)**
353	*Suillus* cf. *subbrevipes*°	ANGE374, ANGE1018	-
354	*Suillus decipiens*°	ANGE109, ANGE881, ANGE882, ANGE1482, ANGE1000	-
355	*Suillus pseudoalbivelatus*°	ANGE548, ANGE228, ANGE1085, ANGE373	-
356	*Suillus salmonicolor*°	ANGE: 116, 219, 1731, 905, 370, 1090	-
357	*Suillus* sp. 1°	ANGE880, ANGE1408, ANGE1487, 1489, 1730, 1488	-
358	*Suillus* sp. 2°	ANGE1162	-
359	*Suillus tomentosus*°	ANGE115	-
360	*Tetrapyrgos nigripes*	ANGE698, ANGE699, ANGE700, ANGE701, ANGE702	-
361	*Thelephora dentosa*	JBSD131262, ANGE1459	Angelini & Losi (2021)
362	***Thelephora dominicana* sp. nov.***	JBSD126510, JBSD129824, ANGE1620	Vizzini et al. (2016b)
363	*Thelephora palmata*	JBSD133390	Angelini & Losi (2021)
364	*Thelephora terrestris*	JBSD133394	Angelini & Losi (2021)
365	*Thelephora vialis*	JBSD: 129133, 129812, 130253, 129842; ANGE1448	Angelini & Losi (2021)
366	*Trametes* cf. *tenuis*	ANGE1103, ANGE1109	-
367	*Trametes ectypa*	JBSD124862, JBSD123785, JBSD123786, JBSD125873	Angelini & Losi (2014)
368	*Trametes lactinea*	JBSD: 123784, 127123, 130271, 130269, 127677	Angelini & Losi (2014)
369	*Trametes maxima*	JBSD122292, JBSD121905, JBSD124865	Angelini & Losi (2014)

Table 2 Continued.

NO.	Taxon	Fungarium number	Published in
370	*Trametes membranacea*	JBSD124851, JBSD123809	Angelini & Losi (2014)
371	*Trametes ochroflava*	JBSD127117, JBSD127122	Angelini & Losi (2015)
372	*Trametes pavonia*	JBSD130265	Angelini & Losi (2021)
373	*Trametes villosa*	JBSD133379, JBSD124858	Angelini & Losi (2021)
374	*Trechispora thelephora*	JBSD127669, JBSD129830, JBSD129816	Angelini & Losi (2016)
375	*Tremella* cf. *mesenterica*	-	-
376	*Tremella* cf. *fibulifera*	ANGE1732	-
377	*Tremella fuciformis*	JBSD121939, JBSD125874, JBSD130737	-
378	*Tremella* sp.°	ANGE239	-
379	*Tremellodendropsis flagelliformis*	ANGE875	-
380	*Tremelloscypha gelatinosa* (*Tremellostereum dichroum*)	JBSD123816, JBSD125875, JBSD125876, ANGE97	Angelini & Losi (2013b)
381	*Trichaptum abietinum*	JBSD124861	-
382	*Trichaptum biforme*	JBSD125878	Angelini & Losi (2015)
383	*Trichaptum byssogenum*	ANGE1393	-
384	***Tricholosporum caraibicum* sp. nov.***	JBSD125879, ANGE406, ANGE99	Angelini et al. (2014)
385	*Trogia cantharelloides*	JBSD121903, ANGE1711	-
386	*Truncospora (Perenniporia) tephropora*	ANGE806	Angelini & Losi (2021)
387	***Tylopilus griseiolivaceus* sp. nov.***	JBSD: 127431, 127432, 127430, 127433, 127434	Gelardi et al. (2019b)
388	*Tylopilus leucomycelinus**	JBSD127419, JBSD127420, JBSD127421	Gelardi et al. (2019b)
389	*Tyromyces hypocitrinus*	JBSD131263, ANGE1697	Angelini & Losi (2018)
390	*Tyromyces polyporoides*	JBSD125880, JBSD127129	Angelini & Losi (2015)
391	*Vararia* sp.	ANGE522	-
392	*Vascellum* cf. *pratense*	JBSD125881	-
393	*Volvariella* cf. *cubensis*°	ANGE1402, ANGE1679, ANGE1249, ANGR1259	(forthcoming)
394	*Volvariella bombycina* var. *microspora*°	ANGE1403	(forthcoming)
395	*Volvariella* cf. *pseudovolvacea*°	ANG510	(forthcoming)
396	*Volvariella* sp.°	ANGE7	(forthcoming)
397	*Volvariella* sp.2°	ANGE6	(forthcoming)
398	*Volvopluteus michiganensis*°	JBSD121936, ANGE524, ANGE1252, ANGE1255	Angelini & Contu (2011)
399	*Xerocomus coccolobae*°	ANGE965, ANGE1392, ANGE1405	-
400	***Xerophorus dominicanus* sp. nov.***	JBSD127428, ANGE1167	Vizzini et al. (2020)

[b] This collection (*Lulesia densifolia*) was subsequently sequenced and was found to belong to *Clitocella* (Varga et al. 2019) although the recombination has not yet been published.

Table 3 Plants potentially forming ECM fungi present in the Dominican Republic. [Endemic: includes species exclusive to Dominican Republic (Hispaniola Island); Native: includes spontaneous species common in the Neotropics].

Family	**Genera**	**Status**
Annonaceae	*Annona*	Native
Clusiaceae	*Garcinia*	Native
Combretaceae	*Laguncularia, Terminalia*	Native
Cupressaceae	*Juniperus*	Endemic
Ebenaceae	*Diospyros*	Native
Fabaceae (incl. *Mimosoideae*)	*Andira, Chloroleucon, Hymenaea, Inga, Lysiloma, Mimosa, Pterocarpus, Sesbania, Sophora*	Native
Lauraceae	*Ocotea, Phoebe*	Native
Malvaceae	*Hibiscus*	Native
Moraceae	*Ficus*	Native
Myrtaceae	*Eucalyptus*, Eugenia*	*Endemic, Native
Nyctaginaceae	*Guapira, Neea, Pisonia*	Native
Phyllanthaceae	*Phyllantus*	Native
Phytolaccaceae	*Phytolacca*	Native
Pinaceae	***Pinus***	**Native**
Poaceae	*Paspalum*	Native
Podocarpaceae	*Podocarpus*	Endemic
Polygonaceae	***Coccoloba***	**Native**
Rosaceae	*Prunus*	Native
Rubiaceae	*Guettardia*	Native
Rutaceae	*Zanthoxylum = Fagara*	Native
Sapindaceae	*Allophylus*	Native
Sapotaceae	*Pouteria*	Native
Surinaceae	*Suriana*	Native
Theaceae	*Ternstroemia*	Native
Vachellia	*Acacia*	Native
Verbenaceae	*Duranta*	Native

The Dominican Republic includes a high diversity of ecosystems which correlates with a high mycological biodiversity. If we accept estimates in the literature (Bhunjun et al. 2022, Fernandez 2007, Blackwell 2001) then there would be 5 to 10 species of fungi for each species of plant. Of these, about 20% would be macrofungi (Senn-Irlet et al. 2007, Stamets et al. 2021), which suggests at least 5,000−8,000 species of macrofungi in the counry. This checklist, therefore, represents about 5−10% of the total macrofungi.

Before the current checklist, the only recently published checklist of fungi (both macro- and microfungi) from the Dominican Republic, was that of Minter et al. (2001), which included all the works published up to that point. For other species of macrofungi present in the Dominican Republic, but not included in this current checklist, see Baroni et al. (2008, 2018, 2020), Ortiz-Santana et al. (2007) and Miller & Lodge (2001) or visit the following website https://facultyweb.cortland.edu/NeoTropicalFungi/searchpage.asp

Studies of fungi in Dominican Republic are still in an early phase. To promote exploration, the present checklist is provided as a tool to facilitate fungal identification in this region and to provide a background for future research projects. Documentation of fungal diversity is urgently needed because natural habitats are being lost on a large scale through altered land use and climate change.

Note

All photos of the species included in this checklist are available in “Species list” on the

website https://www.neotropicalfungi.com/species-list/ (Fig. 2). The website is constantly updated and also contains other images and information about the research areas, a photo gallery, the bibliography of species published and a list of the collections deposited in the National Herbarium of Santo Domingo (JBSD).

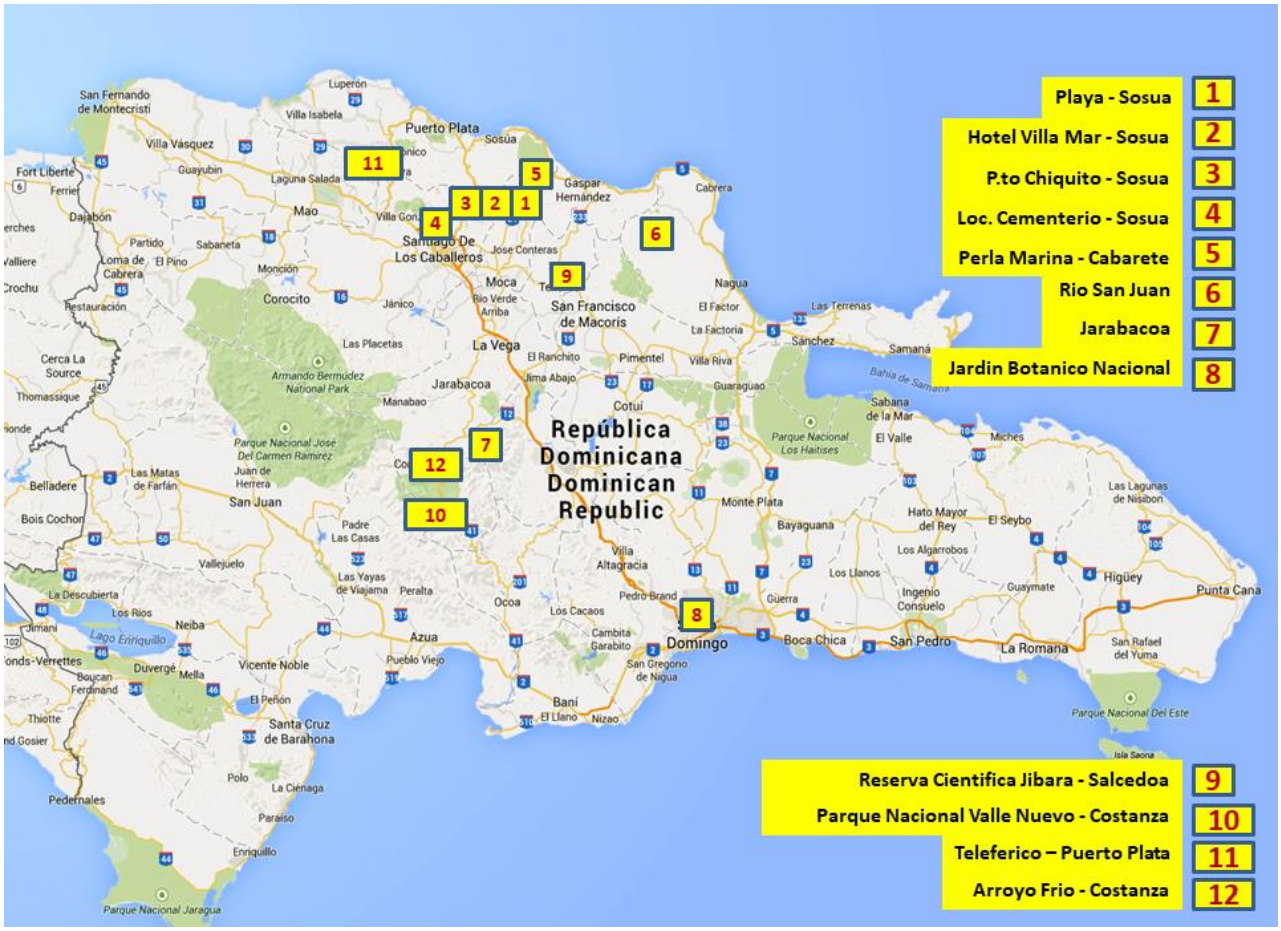

Fig. 1 – Map of the explored areas in the Dominican Republic.

Fig. 2 – Home page of the website where all photos of the species included in this checklist are available.

Legend
AH: Alcala de Henares (Madrid - Spain) herbarium

ANGE: Claudio Angelini, personal herbarium
Bold text sp. nov.: new species for science discovered by the author in the Dominican Republic
Bold text comb. nov.: new combination
cf.: abbreviation of *confer*: to compare
f.: form
JBSD: Jardín Botánico de Santo Domingo (National Garden of Santo Domingo – Dominican Republic) herbarium
MA-Fungi: Real Jardín Botánico de Madrid (Spain) herbarium
MCVE: Venice Civic Museum (Italy) herbarium
sp.: species to be determined
spp.: more species of the same genus yet to be determined
var.: variety of the species
(*): sequence present in GenBank
(°): sequence available from the author
(…): synonymous

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