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**A CHECK LIST OF PORTO RICAN FUNGI AND A HOST  
INDEX.<sup>1</sup>**

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**INTRODUCTION.**

Published information concerning the fungi of Porto Rico is scattered through a considerable number of articles, which have been issued to a large extent outside the Island, so as not to be readily available to those attempting the study of this group of plants locally. For this reason it has been considered desirable to compile and present in one publication a list of all fungi reported from or known to occur in Porto Rico, together with the host plants or substrata on which the various species occur. For convenience of reference an index to the hosts is also given, as well as a list of such publications on island species as have been encountered.

It is very clearly realized that the species here listed do not by any manner of means represent the complete fungus flora of the Island. The list may rather be considered as a starting point for more intensive work, and it is hoped that the publication and distribution of this preliminary paper may stimulate interest among local collectors, and so bring about important additions to the list. It should be easily possible to double the number of species here reported. In fact, the working up of the undetermined material now in the herbarium of this Station will add considerably to the number of species known, and similarly the as yet unnamed portions of the collections of Dr. Stevens and other collectors give promise of many species new to the Island.

**History of work with Porto Rican fungi.**

The earliest recorded collection of the fungi of Porto Rico was made in 1854 by Carl Schwanecke, for the most part in the vicinity

<sup>1</sup> Exclusive of the lichens or algicolous fungi.

of Humacao, and the specimens were determined by Klotzsch, who listed them in Linnæa (50).<sup>1</sup> It was not until 1884-87 that further collections were made, during which period P. Sintenis visited various parts of the Island. The fungi gathered by him were worked over by J. Bresadola, P. Hennings, and P. Magnus and their determinations were published in 1893 (76). A recapitulation of these two lists was given by Heller (35) in 1900.

The work of these two collectors was apparently all that was accomplished during the time of Spanish sovereignty. As far as known to the writer the late Dr. Stahl made no mention of fungi in his writings, although he did serve at one time on a royal commission appointed to study a cane disease.

Since the change in government in 1898 the collecting and studying of the fungi has been carried on by workers connected with the experiment stations, and by a number of northern botanists who have made collecting trips to the Island.

Since the year 1903, the reports of the Federal Experiment Station at Mayagüez have contained references to various fungi from an economic standpoint. These have included notes by Barrett (6-9) on diseases of oranges, *yautía*, vegetables and other crops, by Henriksen (36) on diseases of vegetables, and by Fawcett (22-32) on diseases of coffee, sugar cane, citrus, banana, cacao, and vanilla. The latter has in addition to his annual reports as pathologist of the Station published a bulletin on coffee diseases (31), and a short article on *Pellicularia* (28). Some of the entomogenous fungi have been mentioned by Tower (100). A banana disease due to a vascular fungus parasite has been studied by Brandes (10, 11) of the same institution.

Work on the fungi as disease-producing agents of sugar cane was immediately taken up at the experiment station of the Sugar Producers' Association following its establishment in 1910. Reports of this work were issued from time to time as publications of the station (38-48). Following the transfer of the institution to the Insular Government, studies were begun on diseases of other crops in addition to the sugar-cane investigations. Results obtained have been issued in the various station publications prepared by the present pathologist (84-96). These have been concerned with diseases of citrus, vegetables, and minor economic plants.

The first of the American botanists to collect fungi, at least to any great extent, was A. A. Heller, who together with Mrs. Heller

<sup>1</sup> Figures in Parenthesis refer to "Literature cited," p. 250.

made an extensive collecting trip during the early part of 1900. The determinations of their specimens, including seventeen new species, were made by Prof. F. S. Earle (19). Some time later the same mycologist published additional notes on the same collection, for the most part as new species (21). Professor Earle himself (20) made a visit of exploration in 1903, giving most attention to fungi attacking economic plants.

Dr. G. P. Clinton, at the request of the Experiment Station, spent some time on the Island in 1904, in connection with a threatened outbreak of coffee rust, and collected some fungi, particularly the smuts. Prof. E. D. Holway collected rust fungi in about 1910. His specimens are reported upon by Dr. Arthur (3), in connection with the Stevens' collection.

Fungi have been collected to some extent on the various field expeditions of Dr. N. L. Britton, director-in-chief of the New York Botanical Garden, and members of his staff. These specimens have been described or mentioned in the publications of the mycologists of the Garden.

Dr. Bruce Fink of Miami University spent several months in 1915-16 collecting in various parts of the Island, giving particular attention to the lichens and Ascomycetes, but has as yet published only a preliminary paper (33). A report of his findings should very materially add to the number of known species.

During the same year Dr. E. W. Olive of the Brooklyn Botanic Garden, and Prof. H. H. Whetzel of Cornell University, made a very complete collection of the rusts, together with some other fungi. The rusts were worked over and reported by Dr. Arthur (4), and in part by themselves (71).

The most extensive fungus collections have been made by Dr. F. L. Stevens, now of the University of Illinois. These specimens were gathered during the period of his deanship of the College of Agriculture of Porto Rico and during one subsequent trip (79). The number of specimens obtained totaled several thousands. The rusts of this collection have been enumerated by Dr. Arthur (3), and Dr. Stevens and several of his students have worked on other groups (16, 17, 34, 51, 60, 61, 80, 81, 82, 83, 103, 104). Their studies have resulted in a very large number of species being reported as new, particularly in the genera *Meliola*, *Cercospora*, *Phyllosticta*, and *Mycospharella*.

An interesting phase of the subject of Porto Rican fungi, and one of no little importance, is that of species connected with certain human diseases. One article only has been seen treating of fungi

from this viewpoint, but there doubtless are others. Dr. King in the paper in question (49) mentions *Epidermophyton cruris* (*tinea cruris*), *Cladosporium Mansoni* (black ringworm), and *Malassezia tropica* (*tinea flava*), all causing skin diseases.

#### Acknowledgments.

Acknowledgment must be made for help received during the preparation of this list from a considerable number of sources. Several mycologists have worked over portions of the collections of the Insular Experiment Station and furnished determinations. These have included Dr. F. J. Seaver, and Dr. Wm. A. Murrill, New York Botanical Garden; Dr. E. A. Burt, Missouri Botanical Garden; Prof. C. G. Lloyd; Dr. W. C. Sturgis; and Dr. C. R. Orton, Pennsylvania State College. I am also indebted to Dr. Seaver for permission to use data from a preliminary list of the Porto Rican fungi deposited in the portion of the herbarium of the New York Botanical Garden under his charge, as well as for other favors. Drs. Burt, Sturgis, and Orton and Professor Lloyd have examined and made suggestions as to corrections in portions of the manuscript submitted to them. Mr. H. E. Thomas, formerly of the Mayagüez Experiment Station, has furnished information from his notes. From Dr. Olive and Professor Whetzel I have received a set of the specimens collected by them during their visit to the Island, in so far as the material has been worked up. This has afforded a considerable amount of additional data.

To Dr. Stevens of the University of Illinois I am particularly indebted for copies of his publications on Porto Rican fungi, and for the loan of a card index of fungi and hosts, based on his collections.

#### Plan of the work.

It is the aim of the present list to record the fungi reported as occurring in Porto Rico, together with the hosts or substrata, the localities in which they have been collected, the name of the respective collectors, and all bibliographical citations. When the collector has been other than a member of the staff of the Insular Experiment Station, past or present, his name is given in parenthesis following the localities. Semicolons, it will be noted, are used to separate the work of different collectors. Our own collections are cited first, followed by such others as have been made. Where more than one collection has been made in the same locality the earliest in point of

time is given as a rule. In some instances the first collection found in working up the list has been used.

Those who have made the collections represented in the herbarium of the Insular Experiment Station are Mr. John R. Johnston, pathologist 1910-1914, to whom credit is due for initiating not only the herbarium but the other botanical work of the Station; the writer, assistant pathologist 1913-14, pathologist and botanist to date; Mr. R. C. Rose, assistant pathologist 1916-17.

No attempt has been made at a critical study of the species listed. It is realized that many of those given will in the course of time be recombined, reduced to synonymy, or otherwise changed in name, but neither time nor facilities are available here for systematic work of this nature. The system of classification used is entirely one of convenience and has no other significance, either as a proposed new plan, or even as the personal views of the writer.

#### MYXOMYCETES.<sup>1</sup>

##### CERATIOMYXACEÆ.

CERATIOMYXA FRUCTICULOSA (Muell.) Macbr.

On rotten wood, Palo Seco.

##### PHYSARACEÆ.

PHYSARUM CINEREUM (Batsch.) Pers.

Fruiting on living leaves and stems of *Phaseolus vulgaris*, *Saccharum officinarum*, *Lactuca sativa*, *Vigna unguiculata*, and other plants, Río Piedras, Martín Peña, Manatí (48).

PHYSARUM COLUMBINUM (Rost.) Sturgis.

(*Tilmadoche compacta* [Wing.] McB.) (82).

On rotten wood, Río Piedras.

PHYSARUM COMPRESSUM Alb. & Schw.

On Sugar-cane debris, Cortada (48).

PHYSARUM DIDERMOIDES (Ach.) Rost.

On rotten wood, Río Piedras.

PHYSARUM PUSILLUM (B. & C.) List.

(*Physarum nodulosum* [Cooke & Balf.] Mass.)

On rotten sacking, and also found fruiting on living sugar-cane leaves, Río Piedras (48).

PHYSARUM VIRIDE (Bull.) Pers.

On rotten wood, Moca, Río Piedras.

<sup>1</sup> The determinations in this group were made for the most part by Dr. William C. Sturgis.

FULIGO SEPTICA (L.) Gmel.

(*Fuligo ovata* [Schaeff.] Macbr.) (48).

On dead cane leaves, banana debris, rotten wood, Pueblo Viejo, Sabana Llana, Río Piedras, Juana Díaz (48).

CRATERIUM AUREUM (Schüm.) Rost.

On humus and cane trash, fruiting at times on living stalks and leaves, Ponce, Río Piedras (48).

CRATERIUM LEUCOCEPHALUM (Pers.) Ditm.

On dead leaves and debris, fruiting at times on living sugar-cane leaves, Pueblo Viejo, Río Piedras (48).

DIDERMA EFFUSUM (Schw.) Morg.

On dead leaves of *Pandanus utilis*, Río Piedras.

DIDERMA SPUMARIOIDES Fr.

On dead leaves and rotten wood, Martín Peña.

DIACHÆA LEUCOPODA (Bull.) Rost.

var. GLOBOSA List.

On dead grass and leaves, Río Piedras. Reported by Stevens on *Pitcairnia angustifolia*, Naguabo, Sta. Ana (82).

#### DIDYMIACEÆ.

DIDYMIUM NIGRIPES (L.) Fr.

Fruiting on living leaves of *Wedelia trilobata*, and *Commelina nudiflora*, Pueblo Viejo, Río Piedras.

#### STEMONITACEÆ.

COMATRICHA LANGA Peck.

On dead wood, Porto Rico (Stevens) (82).

STEMONITIS FUSCA Roth.

On sugar-cane trash, Río Piedras (48).

STEMONITIS HERBatica Pk.

On rotten wood, Pueblo Viejo.

STEMONITIS SPLENDENS Rost.

On rotten wood and cane trash, Río Piedras, Martín Peña, Vega Baja (48).

#### CRIBRARIACEÆ.

DICTYDIUM CANCELLATUM (Batsch.) Macbr.

On dead sugar-cane leaves and stalks, Río Piedras (48).

#### TUBULINACEÆ.

TUBIFERA FERRUGINOSA (Batsch.) Gmel.

On rotten wood, Palo Seco.

## LYCOGALACEÆ.

## LYCOGALA EPIDENDRUM (L.) Fr.

On rotten wood and sugar-cane trash, Río Piedras, El Duque  
(48).

## ARCYRIACEÆ.

## ARCYRIA DENUDATA (L.) Sheld.

On rotten wood and sugar-cane trash, Río Piedras, Martín Peña,  
(48).

## ARCYRIA CINEREA (Bull.) Pers.

On rotten wood and sugar-cane trash, Río Piedras, Pueblo Viejo  
(48).

## ARCYRIA PUNICEA Pers.

Reported from Fajardo in the Schwanecke collection (50).

## TRICHIACEÆ.

## HEMITRICHIA VESPARIUM (Batsch.) Macbr.

On rotten wood, Río Piedras.

## HEMITRICHIA CLAVATA (Pers.) Rost.

On rotten wood, Martín Peña.

## SCHIZOMYCETES.

## COCCACEÆ.

## MICROCOCCUS NIGROFACIENS Northrup.

Causing a disease of various stages of *Phyllophaga* spp., Río  
Piedras, Guánica (69, 78).

## BACTERIACEÆ.

## BACILLUS CAROTOVORUS Jones.

Producing a soft rot of carrots, cabbages, celery, and other vege-  
tables, Río Piedras.

## BACILLUS MESENTERICUS (Flügge) L. &amp; N.

Causing "ropy" bread, Río Piedras, San Juan.

## BACILLUS PRODIGIOSUS (Ehr.) L. &amp; N.

Occasional as a contamination of cultures, Río Piedras.

## BACILLUS RADICICOLA Bey.

Common on a wide range of leguminous hosts.

## BACILLUS SUBTILIS (Ehr.) Cohn.

Common as a contamination in poured plates, Río Piedras.

## BACTERIUM CAMPESTRIS Pamm.

On *Brassica oleracea*, Mayagüez (Thomas) (36, 90).

## BACTERIUM PHASEOLI Er. Sm.

On *Phaseolus vulgaris*. Causes a serious leaf and pod disease, Río Piedras (90, 94).

## BACTERIUM SOLANACEARUM Er. Sm.

Causing a serious wilt disease of *Lycopersicum esculentum*, *Solanum melongena*, *Nicotiana tabacum*, *Solanum tuberosum*, Río Piedras. A wilt disease of *Helianthus annuus*, probably attributable to this species reported by Thomas (15, 36, 56, 77, 90, 94).

## PHYCOMYCETES.

## CHYTRIDIACEÆ.

## OEPIDIELLA UREDINIS Lagerh.

On *Puccinia levis* on *Rytidix granularis* (*Manisuris granularis*), Maricao (Sintenis) (76).

## SYNCHYTRIUM DECIPIENS Farl.

On *Rhynchosia reticulata*, Palo Seco; Quebradillas, Cabo Rojo (Stevens) (82).

## PERONOSPORACEÆ.

## ALBUGO BLITI (Biv.) Kuntze.

On *Amaranthus viridis*, Río Piedras, Barceloneta. *Amaranthus spinosus*, Barceloneta (82, 101).

## ALBUGO CANDIDA (Pers.) Kuntze.

On *Brassica integrifolia*, Río Piedras. *Brassica japonica*, Barranquitas. *Lepidium virginicum*, Comerío, Bayamón; Río Tanamá (Stevens) (82).

## ALBUGO IPOMÆÆ-PANDURANÆ (Schwein.) Swingle.

On *Ipomœa* sp., Espinosa; Río Piedras, Peñuelas, Mona (Stevens).

*Ipomœa batatas*, Río Piedras, Vega Baja, Pueblo Viejo; Monte de Oro, Río Tanamá, Consumo, Arecibo, Manatí, Córrozal, Luquillo, Boquerón, Guánica, Guayanilla (Stevens) (82, 90, 94).

*Ipomœa pes-capræ*, Cataño, Punta Cangrejos; Dos Bocas, Guánica, Boquerón, Mayagüez (Stevens) (82).

*Ipomœa pes-tigridis*, Guayama.

*Ipomœa rubra*, Río Piedras.



ALBUGO IPOMŒÆ-PANDURANÆ (Schwein.) Swingle—*Continued.*

On *Ipomœa tilyacea*, Garrochales, Río Piedras; San Germán (Stevens).

*Jacquemontia nodiflora*, Guayanilla, Mona Island (Stevens) (82).

*Jacquemontia pentantha*, Vega Baja.

*Thyella tamnifolia*, Río Piedras (101).

## ALBUGO PLATENSIS (Speg.) Swing.

On *Bœrhaavea erecta*, Guánica (Stevens) (82).

*Bœrhaavea hirsuta* (Goll.) (101).

*Bœrhaavea panniculata*, Culebra (Britton).

## ALBUGO PORTULACÆ (D. C.) Kuntze.

On *Portulaca oleracea*, Mayagüez (Stevens) (82).

## PERONOPLOSMOPORA CUBENSIS (B. &amp; C.) Clint.

On *Cucumis melo*, Río Piedras, Mayagüez (36, 90, 94).

*Cucumis sativus*, Río Piedras, Mayagüez.

*Cucurbita moschata*, Río Piedras, Mayagüez.

*Luffa cylindrica*, Río Piedras (Stevens) (82).

## PHYTOPHTHORA INFESTANS (Mont.) De Bary.

On *Lycopersicum esculentum*, Mayagüez; Maricao (W. & O.) (36, 90, 94).

*Solanum tuberosum*, Mayagüez (Thomas).

## PHYTOPHTHORA PHASEOLI Thax.

On *Phaseolus lunatus*. Reported by Henricksen (36).

## PHYTOPHTHORA TERRESTRIA Sherb.

On *Capsicum annum*, Río Piedras.

*Lycopersicum esculentum*, Río Piedras, San Juan.

*Phaseolus vulgaris*, Río Piedras (90, 94).

The cause of a serious disease of beans and tomatoes.

## MUCORACEÆ.

## CHOANEPORA CUCURBITARUM (Berk. &amp; Rav.) Thax.

On *Hibiscus esculentus*, Río Piedras. Causing a disease of the flowers and young pods.

## PILOBOLUS CRYSTALLINUS Tode.

On horse manure, Río Piedras.

## RHIZOPUS NIGRICANS Ehr.

Producing a soft rot of sweet potatoes, also as a bread mold, and contamination in cultures, Río Piedras (89, 96).

## ENTOMOPHTHORACEÆ.

## EMPUSA FRESENI NOW.

On *Pseudococcus nipæ* on *Chrysophyllum argenteum*, Río Piedras.

on *Acalypha Wilkesiana*, Río Piedras.

on *Erythrina glauca*, Río Piedras.

*Phenococcus* sp., on *Psidium guayaba*, Río Piedras (46).

## EMPUSA SPHÆROSPERMA (Fres.) Thaxt.

On *Laphygma frugiperda*, Río Piedras (46).

## ENTOMOPHTHORA AULICÆ Reich.

On *Ecpantheria eridanus*, Naguabo, Río Piedras (46).

## ASCOMYCETES.

## SACCHAROMYCETACEÆ.

## SACCHAROMYCES APICULATUS Reess.

Isolated from fermenting cacao and coffee (Loew) (57).

## SACCHAROMYCES CEREVISIÆ Hansen.

Bread and brewer's yeast.

## SACCHAROMYCES ELLIPSOIDEUS Hansen.

Isolated from fermenting cacao and coffee (Loew.) (57), and fermented grapefruit juice, Río Piedras.

## PHYMATOSPHÆRIACEÆ.

## MYRIANGIUM DURLÆI Mont. &amp; Berk.

On *Aulacaspis pentagona* on *Solanum rugosum*, Río Piedras, on *Cajanus indicus*, Sabana Llana.

*Hemichionaspis minor* on undet. vine, Palo Seco.

*Howardia biclavis* on *Guettarda scabra*, Río Piedras.

*Lepidosaphes beckii*, and *Chionaspis citri* on *Citrus* spp., Sabana Llana, Río Piedras, Pueblo Viejo, Bayamón, Santurce, Espinosa, Vega Baja, Garrochales.

Very common everywhere on scale insects, parasitic to some extent at least (20, 46, 96, 100).

ERYSIPHACEÆ.<sup>1</sup>

## ERYSIPHE CICHORACEARUM D. C. (?).

On *Cosmos caudatus*, Sta. Ana, Río Tanamá (Stevens).

*Eupatorium microstemum*, Maricao (Stevens).

*Solanum torvum*, Rosario, Naguabo, Cabo Rojo, Maricao, Arecibo, Peñuelas, Mayagüez (Stevens) (82).

<sup>1</sup> All determinations in this family are provisional only, the conidial or *Oidium* stage only having been found in all cases.

## ERYSIPHE GALEOPSISIDIS D. C. (?).

On *Eupatorium* sp., Ponce (Stevens) (82).

## ERYSIPHE POLYGONI D. C. (?).

On *Arracacia xanthorrhiza*, Indiera Fría (Stevens).

*Cassia occidentalis*, Guayama, Río Piedras, Rosario, Peñuelas, Arecibo-Lares, Cabo Rojo, Manatí (Stevens).

*Cassia tora*, Palo Seco; Maricao, Quebradillas, Aguada, Peñuelas, Guayanilla, San Germán, Guayama, Adjuntas, Mayagüez (Stevens).

*Chamæcrista æschynomene*, Palo Seco.

*Chamæcrista diphylla*, Espinosa.

*Chamæcrista* sp., Peñuelas (Stevens).

*Dolicholus minima*, Carolina.

*Dolichos biflorus*, Río Piedras.

*Phaseolus adenanthus*, Aguada (Stevens).

*Phaseolus max*, Río Piedras.

*Phaseolus vulgaris*, Río Piedras.

*Pisum sativum*, Río Piedras.

*Vigna repens*, Mayagüez (Stevens) (82).

*Vigna unguiculata*, Río Piedras (90, 94).

## MICROSPHÆRA DIFFUSA D. C. (?).

On *Crotalaria retusa*, Sta. Ana, Coamo (Stevens).

*Meibomia* sp., Rosario, Mona Island (Stevens).

*Meibomia adscendens*, Utuado (Stevens).

*Meibomia scorpiurus*, Manatí, Guayama (Stevens).

*Meibomia supina*, Utuado, Jayuya (Stevens).

*Meibomia tortuosa*, Sabana Llana, Río Piedras; Peñuelas, (Stevens) (82).

## MICROSPHÆRA EUPHORBIÆ (Pk.) B. &amp; I. (?).

On *Chamæsyce braziliensis*, Mona Island (Stevens).

*Chamæsyce hypericifolia*, Mona Island, Jájome Alto (Stevens).

*Hibiscus sabdariffa*, Mayagüez (Stevens).

*Manihot manihot*, Río Piedras (Stevens) (82).

## SPHÆROTHECA HUMULI (D. C.) BURR. (?).

On *Bidens leucantha*, Palo Seco.

*Bidens reptans*, Vega Baja, Maricao (Stevens) (82).

*Cosmos* sp., Jayuya (Stevens).

*Melanthera canescens*, Utuado (Stevens).

*Ocimum micranthum*, Utuado (Stevens).

*Rosa* sp., Maricao (Stevens).

*Verbena* sp., Maricao (Stevens).

## PERISPORIACEÆ.

ANTENNULARIA (?) TENUIS Earle.

On *Musa* sp., and *Inga vera* (Heller) (21).

CAPNODIUM CITRI Berk. & Desm.

On *Citrus decumana*, Sabana Llana, Espinosa, Campo Alegre, Pueblo Viejo, Vega Baja (96).

DIMERIELLA CORDIÆ (P. Henn.) Th.

On *Cordia sulcata*, Mayagüez (Stevens) (82).

DIMERIELLA ERIGERONICOLA Stevens.

On *Erigeron pusillum*, Maricao (Stevens).

*Erigeron spathulatus*, Quebradillas, Maunabo, Yauco, El Gigante, Maricao (Stevens) (82).

*Leptilon canadense*, Río Piedras, Trujillo Alto, Vega Baja, Camuy, Arecibo.<sup>1</sup>

DIMERIELLA OLYRE Stevens.<sup>1</sup>

On *Olyra latifolia*, Río Piedras, Preston's Ranch, Maricao, Mayagüez (Stevens) (82).

DIMERINA JACQUINLÆ Garman.

On *Jacquinia barbasco*, Mona Island (Stevens) (34).

DIMERIOPSIS ARTHROSTYLIDICOLA Stevens.

On *Arthrostylidium sarmentosum*, Monte Alegrillo (Stevens) (82).

DIMERIUM CAYAPONIÆ Garman.

On *Cayaponia americana*, Utuado (Stevens) (34).

DIMERIUM GRAMMODES (Kuntze) Gar.

On *Crotalaria retusa*, Trujillo Alto, Pueblo Viejo; Guayama, Cabo Rojo (Stevens). From Mayagüez as *Parodiella perisporioides* (Heller collection) (19).

*Meibomia adscendens*, Río Piedras.

*Meibomia barbata*, Río Piedras (Stevens); Añasco (W. & O.) (82).

*Meibomia* sp., Espinosa, Río Piedras.

*Phaseolus lunatus*, Aguadilla (Stevens).

*Phaseolus vulgaris*, Río Piedras (81).

*Vigna repens*, Río Piedras (34).

<sup>1</sup> In comparing the descriptions, the great similarity between those of *Dimeriella Olyrae* and *Asterina fumagina* was noted. In response to a request for an opinion in the matter, Dr. Stevens replied as follows:

"The species as published by Dearness and Barth. is based upon specimen No. 190 of my collection. My species, *Dimeriella olyrae*, is based upon my specimen No. 6770, but the two are co-specific and the publication of Dearness & Barth. clearly has the priority.

"In the light of modern publications on this group, I believe that this fungus should be placed in the genus *Dimeriella* of Spegazzini, and therefore suggest the following:

"*Dimeriella fumagina* (Dearn. & Barth.) Stevens, comb. nov.

"(*Asterina fumagina* Dearn & Barth.)

"(*Dimeriella olyrae* Stevens.)"

DIMERIUM MELIOLOIDES (Berk. & Curt.) Gar.

On *Clusia rosea*, Maricao (Stevens) (34).

DIMERIUM STEVENSII Garman.

On *Cordia corymbosa*, Río Piedras; Quebradillas, Mayagüez, Maricao (Stevens) (34).

DIMERSPORIUM APPENDICULATUM Earle.

On *Asterina sidae* on *Sida carpinifolia* (21).

DIMERSPORIUM TROPICALE Speg.

On *Meliola* sp., on *melastomaceous* plant. Col. N. Y. Bot. Garden.

EUROTIUM ARGENTINUM Speg.

On dead sugar-cane stalks, Río Piedras (48).

EUROTIUM HERBARIUM Lk.

On dried herbarium specimens, Río Piedras.

HYALODERMA PILIFERUM Pat.

On *Meliola* on a grass, Santurce. Coll. N. Y. Bot. Garden (82).

MELIOLA AIBONITENSIS Stevens.

On *dicotyledonous* plant, Aibonito (Stevens) (80).<sup>1</sup>

MELIOLA AMBIGUA Pat. & Gaill.

On *Lantana camara*, Dos Bocas, below Utuado, Río Arecibo (Stevens).

*Lantana odorata*, Quebradillas (Stevens).

*Lantana* sp., Quebradillas, Dos Bocas (Stevens).

MELIOLA AMOMICOLA Stevens.

On *Amomis caryophyllata*, Mayagüez (Stevens).

MELIOLA AMPHITRICA Fr.

On *Randia aculeata* (?), Caguas (Heller collection).

*Tetragastris balsamifera* (*Hedwigia balsamifera*). Sintenis collection (76).

MELIOLA ANDIRÆ Earle.

On *Andira jamaicensis*, Camuy, Mayagüez; Arecibo, Martín Peña, Yauco, Santana, Maricao, Dos Bocas, Vega Alta, Lares, Manatí (Stevens) (21).

MELIOLA ARECIBENSIS Stevens.

On *Acalypha bisetosa*, Vega Baja, Dos Bocas (Stevens).

MELIOLA BICORNIS Wint.

On *Bradburya pubescens*, Espinosa.

*Bradburya virginiana*, Arecibo-Lares Road, Manatí, Dos Bocas, Vega Baja, Quebradillas (Stevens).

<sup>1</sup> Since all species of *Meliola* known to the Island are treated in Dr. Steven's paper, "The Genus *Meliola* in Porto Rico," further citations to it are omitted.

## MELIOLA BICORNIS Wint.—Continued.

On *Dalbergia monetaria*, Mayagüez, Arecibo-Lares, Maricao (Stevens).

*Dalbergia* sp., Mayagüez, Rosario (Stevens).

*Dolicholos reticulatus*, Río Piedras; Florida Adentro, Vega Baja, Lares, Quebradillas, Barceloneta, Río Tanamá (Stevens).

*Erythrina mycropteryx*, El Miradero (Stevens).

*Lonchocarpus glaucifolius*, Quebradillas (Stevens).

*Meibomia adscendens*, Río Piedras; El Alto de la Bandera (Stevens).

*Meibomia axillaris*, Río Piedras; Florida Adentro, Las Marías, Mayagüez, Río Arecibo, Río Tanamá (Stevens).

*Meibomia supina*, Cataño, Martín Peña, Maricao, Vega Baja, Mayagüez, Florida Adentro, Río Tanamá, Dos Bocas, El Gigante, Indiera Fría (Stevens).

*Mimosa ceratonia*, Maricao, Río Arecibo, Vega Baja, Aibonito (Stevens).

*Teramnus uncinatus*, Maricao, Añasco (Stevens) (21).

## MELIOLA BICORNIS var. CALOPOGONII Stevens.

On *Calopogonium orthocarpum*, Río Piedras; Dos Bocas, Mayagüez, Aguada (Stevens).

## MELIOLA BICORNIS var. GALACTIE Stevens.

On *Galactia dubia*, Río Tanamá (Stevens).

## MELIOLA BIDENTATA Cke.

On *Tabebuia hemantha*, Monte Alegrillo (Stevens).

*Tecoma pentaphylla*, Guanajibo (Stevens).

## MELIOLA BYRSONIMÆ Stevens.

On *Brysonima lucida*, Guayanilla (Stevens).

## MELIOLA CALOPHYLLI Stevens.

On *Calophyllum calaba*, Mayagüez, Vega Baja (Stevens).

## MELIOLA CAPSICOLA Stevens.

On *Capsicum baccatum*, Manatí, Dos Bocas (Stevens).

## MELIOLA CHAMÆCRISTÆ Earle.

On *Chamæcrista glandulosa* (Heller). Coll. N. Y. Bot. Garden (21).

## MELIOLA CHAMÆCRISTICOLA Stevens.

On *Chamæcrista granulata*, Mona Island (Stevens).

## MELIOLA CHIOCOCCÆ Stevens.

On *Chiococca alba*, Vega Baja, Hormigueros (Stevens).

## MELIOLA CIRCINANS Earle.

On *Mariscus jamaicensis*, Martín Peña; San Juan, Manatí (Stevens) (21).

*Rynchospora aurea*, Martín Peña (Heller).

*Rynchospora gigantea*, Martín Peña.

## MELIOLA CLAVULATA Wint.

On *Ipomœa batatas*, Río Piedras; Vega Baja, Río Tanamá, Maricao (Stevens) (90).

*Ipomœa cathartica*, Río Arecibo, Vega Baja, El Alto de la Bandera (Stevens).

*Ipomœa rubra*, Río Piedras, Guaynabo.

*Ipomœa tiliacea*, Mayagüez (Stevens).

*Ipomœa* sp., Río Piedras, Espinosa; Sabana Llana, San Germán, Monacillo, Trujillo Alto, El Miradero, Mayagüez, Vega Alta (Stevens).

## MELIOLA CLUSIÆ Stevens.

On *Clusia minor*, El Alto de la Bandera (Stevens).

## MELIOLA COMOCLADIÆ Stevens.

On *Comocladia glabra*, Rosario, Mayagüez, Maricao (Stevens).

*Spondias mombin*, Maricao (Stevens).

## MELIOLA COMPACTA Earle.

On *Crossopetalum pallens*. Coll. N. Y. Bot. Garden (21).

## MELIOLA COMPOSITARUM Earle.

On *Eupatorium odoratum*, Trujillo Alto, Río Piedras; Dos Bocas, Rosario, Maricao, Aibonito, Utuado, El Gigante, El Miradero, Las Marías, Río Tanamá, Mayagüez, Yauco, Cataño, Jájome Alto (Stevens).

*Eupatorium* sp., Río Piedras, (Heller).

*Willoughbæa* sp., Adjuntas (Heller).

MELIOLA COMPOSITARUM var. *portoricensis* Stevens.

On *Eupatorium dolicholepis*, Río Tanamá (Stevens).

*Eupatorium portoricensis*, Camuy; Vega Baja, Dos Bocas, San Sebastián, Arecibo-Lares (Stevens).

## MELIOLA CONTORTA Stevens.

On *Piper hispidum*, Las Marías (Stevens).

## MELIOLA CUCURBITACEARUM Stevens.

On Cucurbit. undet., El Alto de la Bandera (Stevens).

## MELIOLA CUPANIÆ Stevens.

On *Cupania americana*, El Miradero (Mayagüez), Maricao, Dos Bocas, Quebradillas (Stevens).

*Cupania* sp., Quebradillas (Stevens).

## MELIOLA CYCLOPODA Stevens.

On *Pseudelephantopus spicatus*, Vega Baja (Stevens).

## MELIOLA CYPERI Pat.

On *Cyperus* sp., Mayagüez (Stevens).

*Mariscus jamaicensis*, San Juan (Stevens); Martín Peña (W. & O.).

*Scleria* sp., Manatí (Stevens).

## MELIOLA DENTICULATA Wint.

On *Roystonea borinquena*, Arecibo-Lares (Stevens).

## MELIOLA DIDYMOPANICIS P. Henn.

On *Dendropanax arboreum*, Manatí; Río Arecibo, Mayagüez (Stevens).

*Dendropanax laurifolium*, El Alto de la Bandera (Stevens).

## MELIOLA DIEFFENBACHIÆ Stevens.

On *Dieffenbachia seguine*, Río Piedras, Espinosa; Las Marías, Maricao, Cataño, Lajas, Monte de Oro, Dos Bocas, Mayagüez (Stevens).

## MELIOLA DIPHOLIDIS Stevens.

On *Dipholis salicifolia*, Guayanilla, Quebradillas (Stevens).

## MELIOLA EARLII Stevens.

On *Pilea nummularifolia*, Espinosa; Jájome Alto (Stevens).

*Pilea parietaria*, Río Arecibo (Stevens).

*Pilea* sp., Florida Adentro (Stevens).

## MELIOLA FURCATA Lev.

On *Acrista monticola*, El Alto de la Bandera, Luquillo Forest (Stevens).

*Coccothrinax alta*, Dos Bocas (Stevens).

*Macrodiscus lactiflorus*, Coamo (Stevens).

*Thrinax ponceana*, Guayanilla (Stevens) (81).

*Thrinax præceps*, Dos Bocas (Stevens).

## MELIOLA GAILLARDIANA Stevens.

On *Piper aduncum*, Río Arecibo, Dos Bocas, Las Marías (Stevens).

## MELIOLA GESNERIÆ Stevens.

On *Cestrum laurifolium*, Maricao (Stevens).

*Cestrum macrophyllum*, El Alto de la Bandera, El Gigante (Stevens).

*Gesneria albiflora*, Mayagüez, Dos Bocas (Stevens).

## MELIOLA GLABRA Berk. &amp; Curt.

On *Drypetes* spp., Río Tanamá (Stevens).

*Hypelate trifoliata*, Mona (Britton).



MELIOLA GLABRA var. *psychotriæ* Stevens.

On *Coccocypselum repens*, Maricao (Stevens).

*Palicourea domingensis*, Florida Adentro (Stevens).

*Palicourea* sp., Mayagüez, Vega Baja, Utuado, Ponce, Maricao, El Gigante (Stevens).

*Psychotria bertiana*, El Alto de la Bandera (Stevens).

*Psychotria grandis*, Mayagüez (Stevens).

*Psychotria pubescens*, Arecibo-Lares Road, Vega Baja (Stevens).

*Psychotria* sp., Quebradillas (Stevens).

## MELIOLA GLABROIDES Stevens.

On *Nectandra patens*, Mayagüez, Maricao (Stevens).

*Piper aduncum*, Indiera Fría, El Alto de la Bandera, Las Marías, Dos Bocas, Vega Baja, Mayagüez, Añasco, Maricao, Arecibo-Lares Road, Aibonito, Lares, Martín Peña, Trujillo Alto, Utuado (Stevens) (19).

*Piper marginatum*, Espinosa.

*Sauvagesia erecta*, El Alto de la Bandera, Las Marías, Maricao (Stevens).

*Simaruba tulae*, Mayagüez, El Gigante (Stevens).

*Solanum persicifolium*, Quebradillas, (Stevens).

*Solanum rugosum*, Las Marías (Stevens).

*Valerianodes cayennensis*, Río Piedras; Sabana Llana, Trujillo Alto (Stevens).

## MELIOLA GLABROIDES var. SCHLEGELIÆ Stevens.

On *Schlegelia* sp., El Alto de la Bandera (Stevens).

## MELIOLA GUAREÆ Speng.

On *Guarea trichilioides*, Las Marías, Dos Bocas, Monte de Oro, Adjuntas, Jájome Alto, Mayagüez (Stevens).

## MELIOLA GUAREICOLA Stevens.

On *Guarea trichilioides*, Las Marías, Mayagüez, Adjuntas, Monte de Oro, Dos Bocas (Stevens).

## MELIOLA GUIGNARDI Gaill.

On *Turpinia panniculata*, Maricao (Stevens).

## MELIOLA GYMANTHICOLA Stevens.

On *Gymnanthes lucida*, Guayanilla (Stevens).

## MELIOLA HELLERI Earle.

On *Eugenia monticola*, Manatí (Stevens).

*Eugenia Stahlii*, Luquillo, El Alto de la Bandera (Stevens).

*Myrcia deflexa*, El Alto de la Bandera (Stevens).

*Myrcia splendens*, Jájome Alto (Stevens).

Unknown woody plant (Heller) (21).

## MELIOLA HESSII Stevens.

On *Paullinia pinnata*, Sabana Llana, Mayagüez (Stevens).

## MELIOLA HYPTIDICOLA Stevens.

On *Hyptis atrorubens*, Río Piedras.

*Hyptis capitata*, El Gigante (Stevens).

*Hyptis lantanifolia*, Las Marías (Stevens).

*Hyptis pectinata*, Dos Bocas, Maricao (Stevens).

*Hyptis* sp., Monte de Oro (Stevens).

## MELIOLA IPOMŒÆ Earle.

On *Ipomœa batatas*, Río Piedras, Garrochales.

*Ipomœa cathartica*, Las Marías, Vega Baja (Stevens).

*Ipomœa tiliacea*, Añasco, Mayagüez (Stevens).

*Ipomœa* spp., El Miradero, Dos Bocas, Rosario, Maricao (Stevens); Mayagüez (Heller) (19, 90).

## MELIOLA IRREGULARIS Stevens.

On *Hygrophila brasiliensis*, Río Piedras (Stevens).

## MELIOLA JATROPHÆ Stevens.

On *Jatropha hernandifolia*, Río Tanama, Dos Bocas (Stevens).

## MELIOLA LAGUNCULARIÆ Earle.

On *Conocarpus erecta*, Mayagüez (Stevens) (82).

*Laguncularia racemosa*, Martín Peña, Mayagüez, Joyuda (Stevens); Cataño (Heller) (19).

## MELIOLA LONGIPODA Gaill.

On *Anona montana*, Mayagüez (Stevens).

*Cordia corymbosa*, Río Piedras.

*Cordia nitida*, Martín Peña (Stevens).

*Cordia* sp., Mayagüez (Stevens).

*Tournefortia hirsutissima*, Martín Peña, Sabana Llana; Arecibo, Dos Bocas, Quebradillas (Stevens).

## MELIOLA LUCUMÆ Stevens.

On *Lucuma multiflora*, Las Marías, Guayanilla (Stevens).

## MELIOLA MAGNOLIÆ Stevens.

On *Magnolia portoricensis*, Monte Alegrillo (Stevens).

## MELIOLA MANCA Ell. &amp; Mart.

On *Myrica cerifera*, Río Piedras; Manatí (Stevens); Cataño (Heller).

## MELICOLA MANGIFERÆ Earle.

On *Mangifera indica*, Bayamón, Camuy; Mayagüez, Vega Baja, Manatí, Luquillo Forest, El Gigante (Stevens); Río Piedras (Heller) (21, 82).

## MELIOLA MARICÆNSIS Stevens.

On *Ilex nitida*, Maricao (Stevens).

## MELIOLA MAYAGUESIANA Stevens.

On *Palicourea crocea*, Río Piedras; Las Marías, Lajas (Stevens).

*Palicourea domingensis*, Las Piedras (Stevens).

*Palicourea riparia*, Mayagüez (Stevens).

*Palicourea* sp., Mayagüez (Stevens).

## MELIOLA MAYEPEÆ Stevens.

On *Mayepea domingensis*, Mayagüez, El Alto de la Bandera (Stevens).

## MELIOLA MAYEPEICOLA Stevens.

On *Mayepea domingensis*, Mayagüez, Maricao (Stevens).

## MELIOLA MELASTOMACEARUM Speg.

On *Clidemia hirta*, Maricao, Mayagüez, Las Marías, Dos Bocas (Stevens).

*Clidemia strigillosa*, Trujillo Alto, Lajas (Stevens).

*Heterotrichum cymosum*, Utuado (Stevens) (82).

*Miconia impetiolaris*, Mayagüez (W. & O.).

*Miconia levigata*, Río Piedras, Camuy; Dos Bocas, Arecibo (Stevens).

*Miconia racemosa*, Río Piedras; Mayagüez, Lajas (Stevens).

## MELIOLA MERRILLII Syd.

On *Cissus sicyoides*, Mayagüez, Camuy, Río Piedras; Lares, San Germán, Utuado, Villa Alba, El Gigante, Dos Bocas, Añasco, Aguada, Yauco, Manatí, Río Tanamá (Stevens).

## MELIOLA MICONIÆ Stevens.

On *Miconia prasina*, Las Piedras, Las Marías (Stevens).

## MELIOLA MICONIICOLA Stevens.

On *Miconia Sintenisii*, El Alto de la Bandera (Stevens).

## MELIOLA MOLLERIANA Wint.

On *Sida urens*, Río Piedras, Quebradillas; Aguada, Mayagüez, San Germán, Añasco, Yauco, Cataño, Santana, Dos Bocas, Arecibo-Lares, Las Marías, Rosario, El Miradero (Stevens).

*Varronia* sp., Las Marías, El Miradero, Mayagüez, El Alto de la Bandera (Stevens).

## MELIOLA MONENSIS Stevens.

On *Amyris elemifera*, Mona Island, Guayanilla (Stevens).

## MELIOLA MYRSINACEARUM Stevens.

On *Ardisia gadulupensis*, Mayagüez (Stevens).

*Myrsinaceae* undet., Maricao (Stevens).

## MELIOLA NIGRA Stevens.

On *Laguncularia racemosa*, Guanajibo, Joyuda (Stevens).

## MELIOLA OCOTEÆ Stevens.

On *Ocotea leucoxyylon*, Jájome Alto (Stevens); Maricao (W. & O.).

## MELIOLA OCOTEICOLA Stevens.

On *Chrysophyllum*, Monte Allegrillo (Stevens).

*Ocotea leucoxyylon*, Mayagüez, Monte Allegrillo (Stevens).

## MELIOLA PANICI Earle.

On *Andropogon bicornis*, Las Marías, Vega Baja (Stevens).

*Andropogon leucostachyus*, El Alto de la Bandera (Stevens).

*Chloris petraea*, Mayagüez (Stevens).

*Ichnanthus pallens*, Maricao, Monte de Oro, Mayagüez (Stevens); El Yunque (W. & O.).

*Lasiacis divaricata*, Río Piedras; Arecibo, Manatí, Vega Baja, Vega Alta (Stevens).

*Lasiacis Sloanei* (*Panicum latifolium*), Río Piedras; Santurce (Heller) (19).

*Lasiacis ruscifolia* (*L. compacta*), Utuado (Stevens).

*Lasiacis sorghoidea* (*L. swartziana*), Añasco, Las Marías (Stevens).

*Olyra latifolia*, El Miradero, Mayagüez, Maricao, San Germán, Arecibo (Stevens).

*Oplismenus setarius*, Maricao (Stevens)..

*Panicum glutinosum*, Maricao, Monte de Oro, Utuado, El Alto de la Bandera, Ponce, El Gigante, Las Marías (Stevens).

*Paspalum secans*, Maricao (Stevens).

## MELIOLA PARATHESICOLA Stevens.

On *Parathesis serrulata*, Las Marías, Maricao, Arecibo-Lares (Stevens).

## MELIOLA PAUCIPES Stevens.

On *Piper blattarum*, Mayagüez (Stevens).

## MELIOLA PAULLINIÆ Stevens.

On *Casearia aculeata*, Lajas (Stevens).

*Casearia arborea*, Monte de Oro (Stevens).

*Casearia guianensis*, Río Piedras.

*Casearia ramiflora*, Martín Peña, Barceloneta, Manatí, Vega Baja, Santana, San Germán (Stevens).

*Casearia sylvestris*, Río Piedras; Mayagüez, Miradero, Arecibo-Lares, San Germán (Stevens).

*Casearia sp.*, Martín Peña, Espinosa; Dos Bocas, Mayagüez (Stevens).

MELIOLA PAULLINIÆ Stevens—*Continued.*

- On *Mammea americana*, Maricao, Las Marías (Stevens).  
*Mammea americana*, Maricao, Las Marías (Stevens).  
*Paullinia pinnata*, Río Piedras; Mayagüez, Río Arecibo,  
 Vega Baja, El Alto de la Bandera, Barros (Stevens).

## MELIOLA PERSEÆ Stevens.

- On *Persea gratissima*, Las Marías (Stevens).

## MELIOLA PHILODENDRI Stevens.

- On *Philodendron krebsii*, Arecibo-Lares, Jayuya, Ponce, Jájome  
 Alto, Maricao, El Alto de la Bandera (Stevens).

## MELIOLA PILOCARPI Stevens.

- On *Pilocarpus racemosus*, Mayagüez (Stevens).

## MELIOLA PIPERIS Earle.

- On *Piper aduncum*, Río Piedras; Dos Bocas, Las Marías, Maricao, Monte de Oro (Stevens); Mayagüez (Heller) (19).

## MELIOLA PRÆTERVISA Gaill.

- On *Coccoloba pyrifolia*, Mayagüez, Jájome Alto (Stevens).  
*Coccoloba sintenisii*, Mayagüez (Stevens).  
*Coccoloba* sp., Martín Peña; Jájome Alto (Stevens).  
*Cupania americana*, Manatí; Mayagüez (Stevens).

## MELIOLA PSIDIÏ Fr.

- On *Psidium guayaba*, Bayamón, Río Piedras; Yauco, San Germán, Mayagüez, San Sebastián, Vega Alta, Jájome Alto, Arecibo-Lares, Dos Bocas, Vega Baja, Sabana Llana, Maricao, Utuado, Jayuya (Stevens) (19).

## MELIOLA PSYCHOTRIÆ Earle.

- On *Borreria lævis*, El Alto de la Bandera, Dos Bocas (Stevens).  
*Borreria ocimoides* (Stevens).  
*Chiococcoa alba*, Río Piedras; Mayagüez, Río Tanamá (Stevens).  
*Erithalis fruticosa*, Quebradillas, Mona Island, Guayanilla (Stevens) (21).  
*Gonzalagunia spicata*, Sabana Llana, El Miradero, Mayagüez, Vega Baja, Río Arecibo (Stevens).  
*Guetarda ovalifolia*, Maricao (Stevens).  
*Guetarda scabra*, Martín Peña.  
*Mitracarpus portoricensis*, Río Piedras.  
*Psychotria* sp., Martín Peña.  
*Randia aculeata*, Martín Peña, Río Piedras; Quebradillas, Florida Adentro, Hormigueros, Monacillo (Stevens).

## MELIOLA PTERIDICOLA Stevens.

On *Adiantum latifolium*, Las Marías, Mayagüez (Stevens).

*Adiantum* sp., Mayagüez (Stevens).

*Aneimia adiantifolia*, Río Tanamá, Quebradillas, Dos Bocas (Stevens).

*Aneimia* spp., Dos Bocas (Stevens).

## MELIOLA PUIGGARII Speg.

On *Rubus* sp., El Alto de la Bandera, Maricao (Stevens).

## MELIOLA QUADRISPINA Rac.

On *Ipomœa cathartica*, Las Marías (Stevens).

## MELIOLA RECTANGULARIS Stevens.

On *Banisteria laurifolia*, Jayuya, Maricao, Utuado, Hormigueros, Mayagüez, Martín Peña (Stevens).

*Coccoloba laurifolia*, Arecibo-Lares (Stevens).

## MELIOLA RUDOLPHIÆ Stevens.

On *Rudolphia volubilis*, Monte Alegre, Maricao, Luquillo Forest, El Alto de la Bandera, Aibonito (Stevens).

## MELIOLA SEPULTA Pat.

On *Avicennia nitida*, Martín Peña.

## MELIOLA SERJANIE Stevens.

On *Serjania polyphylla*, Vega Baja, Florida Adentro, Arecibo-Lares, Cataño (Stevens).

## MELIOLA SMILACIS Stevens.

On *Smilax coriacea*, Manatí (Stevens).

*Smilax* sp., Algarrobo; Jájome Alto (Stevens).

## MELIOLA SOLANI Stevens.

On *Solanum jamaicensis*, Monte de Oro (Stevens).

## MELIOLA STENOTAPHRI Stevens.

On *Paspalum plicatulum*, Río Piedras.

*Stenotaphrum secundatum*, Río Piedras; Manatí, Río Tanamá, Dos Bocas, Arecibo (Stevens).

## MELIOLA TABERNÆMONTANÆ Speg.

On *Plumiera Krugii*, Maricao (Stevens).

*Rauwolfia nitida*, Martín Peña (Stevens).

*Rauwolfia tetraphylla*, Martín Peña.

*Tabernæmontana oppositifolia*, Mayagüez, Hormigueros (Stevens).

## MELIOLA TABERNÆMONTANÆ var. FORSTERONIE Stevens.

On *Forsteronia corymbosa*, Utuado (Stevens).

## MELIOLA TECOMÆ Stevens.

On *Tecoma pentaphylla*, Río Piedras; Martín Peña, Mayagüez, Las Marías, Maricao (Stevens).

*Tecoma* sp., El Miradero, Las Marías, Mayagüez, Maricao, Quebradillas, Vega Baja, Arecibo-Lares (Stevens).

## MELIOLA TENUISSIMA Stevens.

On *Gouania lupuloides*, Camuy; Yauco, Villa Alba (Stevens).

## MELIOLA THOUINLÆ Earle.

On *Allophylus crassinervis*, Quebradillas (Stevens).

*Krugiodendron ferreum*, Guayanilla, Río Tanamá, Quebradillas, Coamo (Stevens).

*Thouinia striata*, Vega Baja, Río Arecibo (Stevens) (21).

*Winterana canella*, Guayanilla, Mona Island (Stevens).

## MELIOLA TORTUOSA Wint.

On *Piper medium*, Vega Baja (Stevens).

*Piper peltatum*, Río Piedras; Ponce (Heller); Mayagüez (W. & O.).

*Piper umbellatum*, Espinosa; Utuado, Indiera Fría, Mayagüez, Lares, Añasco, Monte Alegrillo, El Gigante, Jájome Alto, Dos Bocas, Las Marías, Río Tanamá, Maricao, Río Arecibo (Stevens) (21).

## MELIOLA TORULOIDEA Stevens.

On *Cassia quinquadangulata*, Jájome Alto, Maricao, Aibonito (Stevens).

*Inga laurina*, Las Marías (Stevens); Maricao (W. & O.).

*Inga vera*, Mayagüez (W. & O.).

## MELIOLA TRILOBA Wint.

On *Pilea parietaria*, Arecibo-Lares, Dos Bocas, Río Arecibo (Stevens).

## MELIOLA TRIUMFETTÆ Stevens.

On *Hibiscus tiliaceus*, Arecibo-Lares, Maricao, Dos Bocas (Stevens).

*Triumfetta semitriloba*, Utuado, Indiera Fría (Stevens).

*Triumfetta* sp., Espinosa.

## MELIOLA TUBERCULATA Stevens.

On undet. host, Vega Baja (Stevens).

## MYRIOSTICTA PORTORICENSIS Pat.

On *Vigna repens*. Coll. N. Y. Bot. Garden. Probably *Dimerium grammodes*.

## PARODIELLA PERISPORIOIDES (B. &amp; C.) Speg.

See *Dimerium grammodes*.

## PERISPORINA LANTANÆ Stevens.

On *Lantana camara*, Lares (Stevens) (82).

## PERISPORIOPSIS WRIGHTII (B. &amp; C.) Stevens.

On *Opuntia* sp., Mayagüez, Ponce (Stevens) (82).

## PERISPORIUM BROMELLÆ Stevens.

On *Bromelia pinguin*, Río Piedras, Naguabo, Camuy; Mayagüez, Manatí, Utuado, Santa Ana, Cataño, Vega Baja, Florida Adentro, Lajas, Hormigueros, Coamo, Maricao, Añasco (Stevens) (82).

## PERISPORIUM PORTORICENSIS Stevens.

On *Calophyllum calaba*, Mayagüez, Vega Baja (Stevens) (82).

## PERISPORIUM TRUNCATUM Stevens.

On *Inga laurina*, Maricao, Mayagüez, El Alto de la Bandera, Coamo (Stevens).

*Inga vera*, Maricao (Stevens) (82).

## PSEUDOMELIOLA (?) COLLAPSA Earle.

On *Meliola torulosa* on *Piper peltatum*.

*Meliola* sp., on *Hyptis capitatum* (21).

## MICROTHYRIACEÆ.

## ASTERINA CORIACELLA Speg. (?).

On *Cestrum laurifolium*. Coll. N. Y. Bot. Garden.

## ASTERINA (ASTERELLA) FUMAGINA Dear. &amp; Barth.

On *Lasiacis Sloanci* (*Panicum latifolium*) (?), Maricao (Stevens) (18). This is apparently the same as *Dimeriella olyra* Stevens.

## ASTERINA SIDÆ Earle.

On *Sida carpinifolia*, Porto Rico (Heller) (21).

## ASTERINA TRILOBA Earle.

On *Croton discolor*, Ponce (Heller) (21).

## MICROPELTIS ÆRUGINESCENS Rehm.

On *Rourea glabra*, Río Piedras (W. & O.).

## MICROPELTIS LAGUNCULARIÆ Wint.

On *Laguncularia racemosa*, Mayagüez (Heller) (19).

## MICROPELTIS LONGISPORA Earle.

On *Coffea arabica*, Porto Rico (Heller) (21).

## MICROPELTIS MANTHIIÆ (?).

On *Adiantum latifolium*, Mayagüez (W. & O.).

## MICROTHYRIUM URBANI Bres.

On *Shæfferia frutescens*, Cabo Rojo (Sintenis) (76).



## NECTRIACEÆ.

BORINQUENIA MICONIÆ Stevens.

On *Miconia levigata*, Arecibo, Utuado (Stevens) (82).

CALONECTRIA ERUBESCENS (Roberge) Sacc.

On dead leaves, Naranjito, Vega Baja, Aibonito (Fink).

CREONECTRIA BAINII (Masseè) Seaver.

On pods of *Theobroma cacao*, Mayagüez (Fawcett) (27).

CREONECTRIA BALANSÆ (Speg.) Seaver.

On dead wood, Río Piedras.

CREONECTRIA GRAMMICOSPORA (Ferd. & Winge) Seaver.

On dead bark of *Cajanus indicus*, Río Piedras.

CREONECTRIA OCHROLEUCA (Schw.) Seaver.

(*Nectria ochroleuca* Schw.)

On dead bark, Santana (Stevens) (82).

DEXTERIA PULCHELLA Stevens.

On *Paullinia pinnata*, Mayagüez (Stevens) (82).

GIBERELLA PULICARIS (Fries) Sacc.

On dead cane stalks, grass culms, Río Piedras, Carolina, Las Monjas, Guaynabo (48).

HYALOSPHERA MICONIÆ Stevens.

On *Miconia levigata*, Arecibo, Utuado, Maricao, Aguas Buenas, Ponce, Yabucoa (Stevens) (82).

HYPONECTRIA PHASEOLI Stevens. In mss.

On *Vigna vexillata*, Porto Rico (Stevens).

MEGALONECTRIA PSEUDOTRICHIA (Schw.) Speg.

On dead wood and bark, particularly of *Cajanus indicus*, Río Piedras, Pueblo Viejo, Moca (72, 90).

NECTRIA EPISPHERIA (Tode) Fries.

On dead wood, citrus twigs, and branches, often following *Corticium*, and on fruiting bodies of *Ustilina vulgaris*, Martín Peña, Bayamón, Río Piedras (89, 96).

NECTRIA FLAVOCILIATA Seaver.

On dead wood and dead cane stalks, Río Piedras, Vega Baja (48).

NECTRIA LAURENTIANA Marschal.

On dead and dying cane stalks, at times a wound parasite, Río Piedras, Carolina, Loíza, Las Monjas (48, 105).

## NECTRIA RHYTIDOSPORA Pat.

On dead bark. Coll. N. Y. Bot. Garden.

## NECTRIA SUFFULTA Berk. &amp; Curt.

On stump of *Musa*, Río Piedras.

## PLEONECTRIA MEGALONECTRIA Speg.

On dead and dying bark of *Cajanus indicus*, Espinosa.

## SCOLECONECTRIA COCCICOLA (Ellis. &amp; Ev.) Seaver.

(*Ophionectria coccicola* Ellis. & Ev.)

On various scale insects, on *Citrus* spp., particularly *Lepidosaphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Espinosa, Garrochales, Mayagüez (46, 96, 100).

## SPHÆRODERMATELLA HELLERI (Earle) Seaver.

(*Melanospora* (?) *Helleri* Earle.)

On bark, Santurce (Heller) (19, 72, 73).

## SPHÆROSTILBE COCCOPHILA (Desmaz.) Tul.

On various scale insects on *Citrus* spp., particularly *Lepidosaphes beckii*, Río Piedras, Pueblo Viejo, Bayamón, Vega Baja, Manatí, Espinosa, Garrochales, Mayagüez. Wide spread and always present in abundance (20, 46, 96, 100).

## HYPOCREACEÆ.

## BALANSIA HYPOXYLON (Peck) Atk.

(*Ephelis mexicana* Fries.)

(*Hypocrella hypoxylon* [Peck.] Sacc.)

On living stems of *Panicum tricanthum*, Río Piedras. Also reported from the Sintenis collection (76), on inflorescences of Gramineæ.

## CHROMOCREA GELATINOSA (Tode) Seaver.

On dead cane stalks and debris, Río Piedras, Carolina (48).

## CHROMOCREOPSIS STRISPORA Stevenson.

On dead cane stalks, Gurabo (48).

## CORDYCEPS BARBERI.

See *Isaria Barberi*.

## CORDYCEPS DIPTERYGENA Berk. &amp; Br.

On Drosophilid flies, particularly *Chrysomyia macellaria*, Río Piedras, Espinosa (94).

## DOTHICHLÆ ARISTIDÆ Atkinson.

On *Aristida portoricensis*, Mayagüez (W. & O.). This fungus reported by Stevens (82) as *Balansia discoidea*.

## DOTHICHLÆ ATRAMENTOSA (B. &amp; C.) Atk.

On *Andropogon leucostachyus*, Las Marías (Stevens) (82).

*Chloris petraea*, Boquerón (W. & O.).

## DOTHICHLÆ NIGRICANS (Speg.) Seaver.

(*Ephichlæ nigricans* Speg.)

On *Ichnanthus pallens*, Mayagüez, El Yunque (W. & O.). The same fungus reported by Stevens (82) as *Dothichlæ arisida*.

## GLAZIELLA AURANTIACA (Berk. &amp; Curt.) Sacc.

On dead wood, Mameyes.

## HYPOCREA RUFA (Pers.) Fries.

On dead cane trash and dead wood, Río Piedras, Naguabo (48).

## HYPOCRELLA TAMONEÆ Earle.

On living leaves of *Tamonea* sp. Collections N. Y. Bot. Garden (73, 74).

## PODOSTROMA BREVIPES (Mont.) Seaver.

On dead wood, El Yunque.

## SPERMEDIA STEVENSII Seaver.

(*Claviceps paspali* S. & H.)

On *Paspalum plicatulum*, Rosario, Ponce, Añasco, Cataño, Coamo, Mayagüez (Stevens) (82).

## STILBOCREA HYPOCREOIDES (Kalchbr. &amp; Cooke) Seaver.

On dead wood, Río Piedras, Espinosa, Bayamón.

## USTILAGINOIDEA USAMBARENSIS P. Henn.

On *Panicum laxum*, Monte de Oro, El Alto de la Bandera (Stevens) (82).

## DOTHIDIACEÆ.

## AUERSWALDIA PALMICOLA Speg.

On *Acrista palmicola*, Adjuntas, El Gigante (Stevens) (38, 81).

## MYRIOGENOSPORA BRESADOLEANA P. Henn.

On *Andropogon bicornis*, Río Piedras.

*Axonopus compressus*, Mayagüez (W. & O.).

*Paspalum conjugatum*, Sierra de Naguabo, Pueblo Viejo (81).

PHYLLACHORA ANDROPOGONIS (Schw.) Karst.<sup>1</sup>

On *Paspalum millegrana*, Naguabo (Stevens) (34).

<sup>1</sup> Dr. C. R. Orton in studying the *Phyllachoras* on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

## PHYLLACHORA CASSIÆ P. Henn.

On *Cassia fistula*, Río Piedras, Quebradillas.

## PHYLLACHORA CORNUOSPORA Atk.

On *Paspalum virgatum*, Río Piedras.

## PHYLLACHORA CYPERI Rehm.

On *Cyperus giganteus*, Mayagüez (W. & O.)

## PHYLLACHORA GALACTIÆ Earle.

On *Galactia striata*, Río Piedras, Espinosa, Camuy.

*Galactia tenuiflora*, Coamo Springs (Cooke & Collins).

PHYLLACHORA GRAMINIS (Pers.) Fuckel.<sup>1</sup>

On *Andropogon brevifolius*, Río Piedras:

*Arthrostylidium sarmentosum*, Utuado (Stevens) (82).

*Lasiacis sorghoidea*, Jájome Alto (Stevens).

*Panicum* sp., Maricao (Stevens).

*Paspalum conjugatum*, Vega Baja, El Alto de la Bandera (Stevens) (82).

*Paspalum virgatum*, Utuado (Stevens) (82).

*Paspalum* sp., Río Piedras; Sabana Grande (Stevens) (34).

*Valota insularis*, Quebradillas, Vega Baja, Santa Ana, Coamo (Stevens) (82).

## PHYLLACHORA GRATISSIMA Rehm.

On *Persea americana*, Jayuya (Stevens) (60).

## PHYLLACHORA INCLUSA (B. &amp; C.) Sacc.

On *Jacquinia Berterii*, Ponce (Heller).

## PHYLLACHORA LUTEO-MACULATA (Schw.) Orton.

On *Andropogon leucostachys*, Río Piedras.

## PHYLLACHORA MAYDIS Maubl.

On *Zea mays*, Arecibo, Vega Baja, Río Piedras (16, 17, 18, 90).

Given by Stevens and Dalby as *P. graminis*.

## PHYLLACHORA MINUTA P. Henn.

On *Paritium tiliaceum*, Pueblo Viejo; Cataño (W. & O.).

## PHYLLACHORA NITENS Garman.

On *Schlegelia brachyantha*, Maricao, Ponce, Monte Allegrillo, Río Grande, Preston's Ranch (Stevens) (34).

## PHYLLACHORA PERFORANS (Rehm.) Sacc.

On *Securidaca virgata*, Río Piedras; Maricao, Rosario, Mayagüez (Stevens) (34, 82). Host reported erroneously by Garman as *Abrus preceptorius*.

<sup>1</sup> Dr. C. R. Orton in studying the Phyllachoras on grasses has indicated a number of new species from the Porto Rican collections, and in particular finds that specimens determined as *P. andropogonis* and *P. graminis* are not to be referred to these species. Since, however, his studies are not complete, the specimens in question have been listed as published.

## PHYLLACHORA PERIBEBUYENSIS Speg.

On *Heterotrichum cymosum*, Jayuya (Stevens); El Yunque (W. & O.).

*Miconia laevigata*, Río Piedras, Maricao, Consumo, Las Marías (Stevens).

*Miconia Sintensii*, Monte Alegrillo (Stevens).

*Miconia* sp., Río Piedras, Espinosa; Villa Alba, Maricao, Rosario (Stevens).

*Tetrazygia claeagnoides*, Vega Baja, Espinosa; Barceloneta (W. & O.).

*Tetrazygia* sp., Santana (Stevens) (34).

## PHYLLACHORA PUNCTA (Schw.) Orton.

On *Opilesmenus hirtellus*, Espinosa.

## PHYLLACHORA RENEALMIÆ Rehm.

On *Alpinia antillarum*, Maricao, Monte Alegrillo, Utuado, Já-jome Alto, El Yunque (Stevens) (34).

## PHYLLACHORA SCLERLÆ Rehm.

On *Scleria pterota*, Sierra de Naguabo, Espinosa, Río Piedras; Sabana Llana (Stevens) (82).

## PHYLLACHORA SPHÆROSPERMA Winter.

On *Cenchrus echinatus*, Loíza, Campo Alegre; Vega Baja (Stevens) (34).

*Cenchrus myosurioides*, Mona Island (Stevens) (34).

## SCIRRHIA LOPHODERMIOIDES Ellis &amp; Ev.

On *Saccharum officinarum*, Río Piedras.

## FIMETARIACEÆ.

## SPORORMIA MINIMA Auersw.

On cow manure, Río Piedras.

## SPHÆRIACEÆ.

## BERTIA MORIFORMIS (Tode) De Not.

On dead wood, El Yunque (Heller).

## HERPOTRICHIA ALBIDOSTOMA (Peck.) Sacc.

On rotten wood, Río Piedras.

## HERPOTRICHIA DIFFUSA (Schw.) E. &amp; E.

On coconut husks, Espinosa.

## LASIOSPHÆRIA PEZIZULA (B. &amp; C.) Sacc.

On dead bark, Dorado.

## LIZONIA JACQUINLÆ Bri. &amp; Har.

On *Jacquinia barbasco* (*J. armillaris*) (Sintenis) (76).

## MELANOMMA NITIDULUM Bres.

Reported from the Sintenis collection (76).

## PHLEOSPORA CACTICOLA Stevens.

On *Rhipsalis cassytha*, Cayey (Stevens) (82).

## ROSELLINIA AQUILA (Fr.) d. Not.

On dead wood, Río Piedras, Bayamón, Martín Peña.

## ROSELLINIA BUNODES B. &amp; Br.

On *Coffea arabica*, Mayagüez (Brandes) (31). Also reported by Fawcett (31) as attacking *Acalypha mosaica*, *Graptophyllum pictum*, *Jambosa jambos*, *Panax plumatum*, *Pectiveria alliacea*, *Miconia* sp., *Piper* sp., and *Palicourea* sp.

## ROSELLINIA PARAGUAYENSIS Stark.

On dead sugar-stalk, Río Piedras (48).

## ROSELLINIA PULVERACEA (Ehrh.) Fuckel.

On dead sugar-cane stalks, Río Piedras.

## ROSELLINIA SUBICULATA (Schw.) Sacc.

On dead wood, El Duque, Río Piedras, Martín Peña, Fajardo, Garrochales.

## ZIGNELLA ALGAPHILA Stevens. In mss.

On *Cephaeleuros virescens* on *Artocarpus incisa*, Porto Rico (Stevens).

## CUCURBITARIACEÆ.

## NITSCHKIA NERVINCOLA Rehm.

On *Gesneria albiflora*, Maricao (Brittin); Mayagüez (Stevens) (82).

## OTTHIA PANICI Stevens.

On *Panicum marimum*, Jayuya, Naguabo (Stevens) (82).

## CORYNELIACEÆ.

## CORYNELIA OREOPHILA (Speg.) Starb.

On *Podocarpus coriaceus*, Maricao (W. & O.). This species is reported by Dr. Stevens (82) as *Corynelia clavata* (S). Sacc. var. *portoricensis* Stevens.

## CORYNELIA PTERIDICOLA Stevens.

On *Campyloneurum* sp., Añasco (Stevens) (82).

## LOPHIOSTOMATACEÆ.

## PLATYSOMIUM INDURATUM Earle.

Host not known. Coll. N. Y. Bot. Garden (Underwood and Griggs).

## MYCOSPHÆRELLACEÆ.

GUIGNARDIA CEPHALARIE Aud. var. ALTERNANTHERÆ Sacc.

On *Alternanthera sessilis*, Río Piedras, Pueblo Viejo; Mayagüez, Las Marías, Utuado, Guayanilla (Stevens) (82).

GUIGNARDIA CLUSIÆ Stevens.

On *Clusia gundlachii*, Maricao (Stevens) (82).

GUIGNARDIA HELICTERES Stevens.

On *Helicteres jamaicensis*, Barceloneta (Stevens) (82).

GUIGNARDIA HETEROTRICHII Stevens.

On *Tetrotrichum cymosum*, Naguabo, Maricao, Villa Alba, Utuado (Stevens) (82).

GUIGNARDIA JUSTICIÆ Stevens. In mss.

On *Justicia verticillaris*, Porto Rico (Stevens).

GUIGNARDIA PIPERICOLA Stevens.

On *Piper marginatum*, Palo Seco; Lajas, Cabo Rojo (Stevens) (82).

*Piper medium*, Espinosa, Camuy; Vega Baja, Aguada, Trujillo Alto, St. Ana, Florida, Río Tanamá, Manatí, Peñuelas (Stevens) (82).

GUIGNARDIA PROMINENS Earle.

On *Aegiphila martinicense*, Santurce (Heller) (19).

GUIGNARDIA RYNCHIOSPORÆ Stevens.

On *Rynchospora cyperoides* Martín Peña (Stevens) (82).

GUIGNARDIA TETRAZYGIA Stevens. In mss.

On *Tetrazygia* sp., Porto Rico (Stevens).

MYCOSPHÆRELLA AGGREGATA Schw.

On dead wood. Coll. N. Y. Bot. Garden.

MYCOSPHÆRELLA ANTIHURII Miles.

On *Anthurium acaule*, Point Cangrejos; Aguas Buenas, Monte Alegriño, Yabucoa, Trujillo Alto, Rosario, Cataño, Bayamón, Cabo Rojo, Las Bocas (Stevens) (61).

MYCOSPHÆRELLA CHRYSOBALANI Miles.

On *Chrysobalanus icacao*, Río Piedras (Stevens) (61).

MYCOSPHÆRELLA CITRULLINA (C. O. Sm.) Gros.

On *Cucumis melo*, Río Piedras (94).

MYCOSPHÆRELLA CLUSIÆ Stevens.

On *Clusia rosca*, Maricao, Lajas, Mayagüez, Utuado (Stevens) (82).

MYCOSPHÆRELLA DIDYMOBANACIS Miles.

On *Didymopanax morototoni*, Río Piedras, Bayamón; Añasco, Utuado (Stevens) (61).

MYCOSPHERELLA DUBIA Miles.

On *Solanum* sp. (?), Maricao (Stevens) (61).

MYCOSPHERELLA FRAGARÆ (Tul.) Lin.

On *Fragaria* sp., Río Piedras.

MYCOSPHERELLA GUTTIFERÆ Miles.

On *Clusia gundlachii*, Maricao (Stevens) (61).

MYCOSPHERELLA MACULIFORMIS (Pers.) Schw.

On *Inga vera*, Maricao (Stevens) (82).

MYCOSPHERELLA MAXIMA Miles.

On unknown host, Maricao (Stevens) (61).

MYCOSPHERELLA MAYDIS (Pass.)

On *Syntherisma sanguinale*, El Alto de la Bandera (Stevens) (82).

MYCOSPHERELLA MUCUNÆ Stevens.

On *Mucuna pruriens*, Añasco (Stevens) (82).

MYCOSPHERELLA PALMÆ Miles.

On leaves of palms, Guánica (Stevens) (61).

MYCOSPHERELLA PERSEÆ Miles.

On *Persea americana*, Pueblo Viejo, Río Piedras, Bayamón; Maricao, San Germán, Dos Bocas (Stevens) (60, 61).

MYCOSPHERELLA TABEBULÆ Miles.

On *Tabebuia hæmantha*, Vega Baja, Mona Island (Stevens) (61).

MYCOSPHERELLA TYROLENSIS Stevens. In mss.

On *Gymnogramma sulphurea*, Porto Rico (Stevens).

SPHERELLA SACCHARI Speg.

On dead leaves of sugar-cane, Fajardo, Río Piedras (48, 105).

#### PLEOSPORACEÆ.

LEPTOSPHERIA SACCHARI van Breda de H.

On *Saccharum officinarum*, Juncos, Río Piedras, Arecibo, Gu-rabo, Quebradillas (48, 82, 94, 105).

METASPHERIA ABORTIVA Stevens.

On *Varronia alba*, Mayagüez, Maricao, Lares (Stevens) (82).

OPHIOBOLUS BARBATUS Pat. & Gaill.

On *Vitex* sp. (Stevens) (82).

PHYSALOSPORA ANDIRÆ Stevens.

On *Andira jamaicensis*, Sierra de Naguabo, Río Piedras; Camuy, Mayagüez, Vega Baja, San Sebastián, Maricao, Cabo Rojo, Coamo, Quebradillas, Hormigueros, San Germán, Lajas, Martín Peña, Peñuelas, Lares, El Yunque (Stevens) (82).



PHYSALOSPORÆ BAMBUSÆ (Rab.) Sacc.

On *Lasiacis sorghoidea*, El Yunque (Stevens) (82).

PHYSALOSPORÆ CAROPHYLLINICOLA Stevens.

On *Drymaria cordata* Jayuya (Stevens) (82).

PHYSALOSPORÆ LAGUNCULARIÆ Rehm.

On *Laguncularia racemosa*, Guánica, Boquerón (Stevens) (82).

PHYSALOSPORÆ TUCUMANENSIS Speg.

On dead sugar-cane stalks, Carolina (48).

#### GNOMONIACEÆ.

ANTHOSTOMELLA RHIZOMORPHÆ Stevens. In mss.

On *Rhizophora mangle*, Martín Peña.

GLOMERELLA CINGULATA (Stonem.) S. & V. S.

(*Glomerella psidii* Dela.).

(*Glæosporium rufomaculans* [Berk.] Thüm.)

(*Glæosporium vanilla* [Berk.] Cke.)

On *Citrus decumana*, (dead twigs), Río Piedras.

*Psidium guajava*, Mayagüez (Sheldon). Reported in Bull.

104, West Va. Agri. Exp. Station.

*Vanilla planifolia*, Mayagüez (Thomas).

LINOSPORÆ TRICHOSTIGMÆ Stevens. In mss.

On *Trichostigma octandra*, Porto Rico (Stevens).

TRABUTIA PORTORICENSIS Stevens. In mss.

On *Coccolobis nivea*, Porto Rico (Stevens).

TRABUTIELLA CORDIÆ Stevens. In mss.

On *Cordia collococca*, Porto Rico (Stevens).

#### VALSACEÆ.

VALSA SACCHARI Stevenson. (In ed.)

On dead sugar-cane stalks, Barceloneta.

#### MELANCONIDACEÆ.

MELANCONIS SACCHARI Mass.

On *Saccharum officinarum*, Mayagüez (Stevens) (82). Undoubtedly a mistake for *Melanconium sacchari* Mass.

VALSARIA SUBTROPICA Speg.

On dead cane-stalk, Río Piedras (82).

#### DIATRYPACEÆ.

DIATRYPE STIGMA (Hoffm.) Fr.

On dead wood, Martín Peña.

## MELOGRAMMATACEÆ.

## ENDOTHIA LONGIROSTRIS Earle.

On dead bark, Río Piedras, Sierra de Naguabo; Santurce (Heller) (82). Cultural and comparative studies reported by Shear *et al.*, in Bul. 380, U. S. Dept. of Agri.

## ENDOTHIA PARRYI (Farl.) Cooke.

On *Agave rigida* var. *sissalana*, Maricao (Stevens) (82).

*Purcraea tuberosa* (*Fourcroya hexapelata*), Maricao, Monte Allegrillo, Trujillo Alto (Stevens) (82).

## MYRMÆCIUM CANNÆ Dearn. &amp; Barth.

On *Canna indica*, Cabo Rojo (Stevens) (18).

## MYRMÆCIUM RUBICOSUM (Tul.) Nits.

On dead bark, Naguabo.

## XYLARIACEÆ.

## DALDINIA CONCENTRICA (Bolt.) E. &amp; E.

On dead wood, Garrochales, Palo Seco, Pueblo Viejo, Martín Peña, Espinosa (96). Reported from Humacao (Schwaebecke) (50) as *Sphaeria concentrica* Bolt.

## HYPOXYLON ANNULATUM Mont.

On dead wood, Palo Seco.

## HYPOXYLON FUSCOPURPUREA Berk.

On dead citrus branches, Campo Alegre, Bayamón (96).

## HYPOXYLON PERFORATUM (Schw.) Fr.

On dead bamboo, Río Piedras.

## HYPOXYLON RUBIGINOSUM Fr.

On dead wood, Río Piedras, Martín Peña.

## KRETZSCHMARIA CÆNOPUS (Mont.) Karsten.

On dead wood, El Duque, Aibonito, Río Piedras.

## KRETZSCHMARIA RUGOSA Earle.

On dead wood, Sierra de Naguabo, El Yunque.

## NUMMULARIA BULLIARDII Tul.

On dead wood, or occasionally as a wound parasite of *Ficus nitida* and other trees, Río Piedras, Sierra de Naguabo, Martín Peña, El Yunque, Comerío (89).

## NUMMULARIA GLYCYRRHIZA B. &amp; C.

On dead wood. Reported from the Sintenis collection (76). Probably is *N. Bulliardii*.

## NUMMULARIA REPANDA Nitsch.

On dead wood, El Yunque.

## PORONIA ŒDIPUS Mont.

On manure, Río Piedras, Cortada.

## USTILINA VULGARIS Tul.

On dead wood and on the larger roots and crowns of dying grapefruit trees (*Citrus decumana*), Río Piedras, Martín Peña, Palo Seco (89, 96). What is probably the same species is reported from the Schwanecke collection (50) as *Hypoxyton vulgare* Link.

## XYLARIA APICULATA Cooke.

(*Xylaria arbuscula* Sacc.)

On dead wood, Río Piedras, Martín Peña, Espinosa, Bayamón (48, 54).

## XYLARIA ARISTATA Mont.

On dead wood, Río Piedras.

## XYLARIA AXIFERA Mont.

On dead wood, Río Piedras, El Yunque.

## XYLARIA BERKELEYI Mont.

On dead wood, Sierra de Naguabo, El Yunque.

## XYLARIA CLAVICULARIS Klotzsch.

On rotten wood, Naguabo. Reported from the Schwanecke collection (50), but nothing more is known about it.

## XYLARIA CUBENSIS Mont.

On dead wood, Mameyes, Sierra de Naguabo. *Xylaria involuta* of the Sintenis collection (76) is referred (Lloyd) to this species.

## XYLARIA EUGLOSSA Fries.

On dead wood, Río Piedras.

## XYLARIA FIMBRIATA Lloyd.

On dead wood and soil, Río Piedras, Bayamón (55).

## XYLARIA MULTIPLEX Fr.

On old pods of *Hymenaea courbaril*, Río Piedras.

## XYLARIA OBOVATA Berk.

On dead wood, El Yunque.

## XYLARIA OBTUSSISSIMA Berk.

Reported from the Sintenis collection (76).

## XYLARIA PARTITA Lloyd.

On dead wood, Río Piedras (54).

## XYLARIA POLYMORPHA (Pers.) Grev. (?)

On dead wood, Mayagüez (Stevens) (82).

## XYLARIA PORTORICENSE Klotzsch.

Reported from both the Schwanecke and Sintenis collections (in the latter as forma *minor*), but nothing further is known about the species (50, 76).

## XYLARIA SCHWEINITZII Berk.

On dead wood, Aibonito, Río Piedras.

## XYLARIA SCOPIFORMIS Mont.

On dead wood, Río Piedras, Martín Peña; Utuado (Sintenis) (76). A specimen from Cabo Rojo reported by Stevens (82) as *X. hypoxylon* (L.) Grev. belongs here (54).

## HYSTERIACEÆ.

## LEMBOSIA AGAVES Earle.

On *Agave* sp., Cabo Rojo (Heller) (18).

## LEMBOSIA COCCOLOBÆ Earle.

On *Coccoloba wifera*, Cangrejos. First reported from the Heller collection (21).

## LEMBOSIA DIFFUSA Wint.

On *Miconia* sp. Coll. N. Y. Bot. Garden (Heller).

## TRIBLIDIUM RUFULUM Spreng.

On dead sticks, Martín Peña, Pueblo Viejo, Río Piedras, Espinosa, Garrochales, Carolina, Bayamón, Campo Alegre, El Duque (96).

## PEZIZACEÆ.

## COOKEINA SULCIPES (Berk.) O. Kuntze.

On dead and rotten wood, Río Piedras, Mameyes.

## COOKEINA TETRASPORA Seaver.

On palm leaves, El Yunque.

## COOKEINA TRICHOLOMA (Mont.) O. Kuntze.

On dead wood, Río Piedras.

## LACHNEA CUBENSIS (B. &amp; C.) Sacc.

On dead sugar-cane stalks and debris, Río Piedras (48).

## PHILLIPSIA DOMINGENSIS Berk.

On dead wood, Río Piedras, Mameyes, Martín Peña.

## ASCOBOLACEÆ.

## ASCOBOLUS MAGNIFICUS Dodge.

On cow manure, Río Piedras.

## ASCOBOLUS STERCORARIUS (Bull.) Rehm.

Fimicole. Col. N. Y. Bot. Garden.

ASCODESMIS PORCINA Seaver.

Fimicole, Mayagüez (Fawcett) (75).

ASCOPHANUS CARNEUS (P.) Boud.

On debris. Coll. N. Y. Bot. Garden.

ASCOPHANUS GRANULATUS (Bull.) Speg.

On debris, Aibonito, Mayagüez, El Yunque (Fink).

ASCOPHANUS TESTACEUS (Mong.) Phil.

On rotting leather, Bayamón.

SACCOLOBUS KERVERNI (Crow.) Boud.

Coll. N. Y. Bot. Garden.

SACCOLOBUS PORTORICENSIS Seaver.

Coll. N. Y. Bot. Garden.

#### HELOTIACEÆ.

HELOTIUM CITRINUM (Hedw.) Fr.

On dead wood. Coll. N. Y. Bot. Garden.

#### MOLLISIACEÆ.

TRICHOBELONIUM ALBOSUCCINEUM Rehm.

On dead leaves. Coll. N. Y. Bot. Garden.

#### PATELLARIACEÆ.

KARSCHIA LIGNYOTA (Fr.) Sacc.

On dead wood, Manatí (Fink).

LECANIDION CYANEUM (Cooke) Sacc.

On dead citrus twigs, Campo Alegre (96).

#### DERMATEACEÆ.

MIDOTIS HETEROMERA Mont.

On wood, Mt. Cienega (Sintenis) (76).

ORBILIA CHRYSOCOMA (Bull.) Sacc.

On dead wood. Coll. N. Y. Bot. Garden.

#### STICTIDACEÆ.

STICTIS FOLICOLA B. & C.

On dead leaves, Río Piedras.

STICTIS RADIATA Pers.

On dead citrus twigs, Campo Alegre, Sabana Llana, Espinosa,  
Río Piedras (96).

## BASIDIOMYCETES.

## USTILAGINACEÆ.

## CINTRACTIA AXICOLA (Berk.) Cornu.

On *Fimbristylis* sp., Quebradillas, Bayamón, Mayagüez (Stevens) (82).

*Fimbristylis diphylla*, Dorado, Río Piedras: El Yunque, San Juan, Quebradillas, Lares (Stevens) (82).

*Fimbristylis ferruginea*, Santurce (Stevens) (4).

## CINTRACTIA AXICOLA MINOR Clinton.

On *Cyperus sphacelatus*, Campo Alegre, Naguabo; Río Piedras (W. & O.) (14).

## CINTRACTIA LEUCODERMA (Berk.) P. Henn.

(*Cintractia Krugiana* P. Magnus) (76).

On *Rynchospora* sp., Río Piedras, Pueblo Viejo, Bayamón; Cataño, El Yunque, Manatí (Stevens) (82).

*Rynchospora gigantea*, Martín Peña; Manatí (Sintenis).

*Rynchospora corymbosa*, Pueblo Viejo, Mayagüez, Cataño (Stevens) (14, 76, 82).

## CINTRACTIA LIMITATA Clinton.

On *Cyperus ligularis*, Mayagüez, San Juan (Clinton); Boquerón (Stevens) (14, 82).

## CINTRACTIA UTRICULICOLA (P. Henn.) Clinton.

On *Rynchospora aurea*, Mayagüez (Stevens) (82).

*Rynchospora corymbosa*, Río Piedras; Mayagüez (Stevens) (14, 82).

## MYKOSYRINX CISSI (D. C.) G. Beck.

(*Schræteria cissi* D. C.) (76).

On *Cissus acida*, Salinas, Cabo Rojo (Sintenis).

*Cissus erosa*, Maricao (Sintenis).

*Cissus sicyoides* (14).

## SPHACELOTHECA PANICI-LEUCOPHÆI (Bref.) Clinton.

On *Valota insularis* (*Trichachne insularis*), Campo Alegre; Barceloneta, Boquerón (W. & O.); Coamo Springs (Stevens) (14, 82).

## SPHACELOTHECA PASPALI-NOTATI (P. Henn.) Clinton.

On *Paspalum* sp., Río Piedras.

## TOLYPOSPORELLA BRUNKII (E. &amp; G.) Clinton.

On *Andropogon Bicornis*, El Yunque (W. & O.).

## USTILAGO SEGETUM Dittm.

Reported from the Schwanecke Collection (50). Host not given.

## USTILAGO AFFINIS E. &amp; E.

On *Stenotaphrum secundatum*, Río Piedras, Campo Alegre, Cayey; Barceloneta (W. & O.); Arecibo, Bayamón, Punta Santiago (Stevens) (82).

## USTILAGO ZEÆ (Beckm.) Unger.

On *Zea mays*, Garrochales, Río Piedras; San Germán (Stevens) (14, 82, 90, 94).

## TILLETIACEÆ.

## BURRILLIA ECHINODORI Clinton.

On *Echinodorus cordifolius*, Palo Seco; Guánica (Stevens) (82).

## DOASSANSIA SINTENISII Bres.

Reported from the Sintenis collection (76), but said by Clinton (14) to be insect work only.

## ENTYLOMA AUSTRALE Speg.

On *Physalis* sp. (14).

## ENTYLOMA GUARANITICUM Speg.

On *Bidens leucantha*, Río Piedras, Palo Seco, Bayamón (14).

## ENTYLOMA LOBELIÆ Farl.

On *Lobelia* sp. (14).

## THECAPHORA PUSTULATA Clinton (n. sp.).

On *Bidens leucantha*, Camuy; Mayagüez (W. & O.).

## UROCYSTIS CEPULÆ Frost.

On *Allium sepa*. Mentioned by Henricksen (36, 90). Occurrence in Porto Rico doubtful.

UREDINALES.<sup>1</sup>

## COLEOSPORIACEÆ.

## COLEOSPORIUM ELEPHANTOPODIS (Schw.) Thüm.

On *Elephantopus mollis*, Espinosa, Río Piedras, Naguabo; Maricao, Corozal, Yaucó, Jájome Alto, Jayuya, Mayagüez, Dos Bocas, Santana (Stevens); Bayamón (Holway); Mayagüez (Heller) (1, 19).

## COLEOSPORIUM EUPATORII Arthur.

On *Eupatorium macrophyllum*, Garrochales. First report from Porto Rico.

<sup>1</sup> The *Uredinales* of Porto Rico have been very completely dealt with by Dr. Arthur in his publications in *Mycologia* (3, 4), based on the collections of Dr. F. L. Stevens and those of Prof. H. H. Whetzel and Dr. E. W. Olive. The list given here is based upon these papers, with the addition of the localities of our collections and three previously unreported species. Citations to the papers by Dr. Arthur are omitted since practically all species are there included.

## COLEOSPORIUM IPOMŒÆ (Schw.) Burr.

On *Ipomœa angustifolia*, Campo Alegre.

*Ipomœa batatas*, Río Piedras; Naguabo (Stevens); Barceloneta, El Yunque (W. & O.)<sup>2</sup> (6, 81, 90, 94).

*Ipomœa littoralis*, San Juan (Holway).

*Ipomœa nil*, Guayanilla (Stevens).

*Ipomœa rubra*, Río Piedras; El Yunque (W. & O.).

*Ipomœa stolonifera*, Santurce; Vieques (Shafer) (102).

*Jacquemontia tamnifolia*, Río Piedras; Añasco (W. & O.).

*Quamoclit coccinea*, Vieques (Shafer).

## COLEOSPORIUM PLUMIERÆ Pat.

On *Plumiera alba*, Guánica (W. & O.).

*Plumiera Krugii*, Maricao, Monte Alegrillo (Stevens).

*Plumiera obtusa*, Mona Island (Stevens) (12).

## UREDINACEÆ.

## CEROTELIUM CANAVALIÆ Arth.

On *Canavali* sp., Río Piedras, Garrochales, Espinosa, Campo Alegre (1, 94).

*Canavali ensiformis*, Mayagüez (Clinton); Manatí (Stevens); Barceloneta (W. & O.).

*Canavali gladiata*, Mayagüez (Thomas); Río Piedras (Stevens) (82).

## KUEHNEOLA FICI (Cast.) But.

On *Carica papaya*, reported from the Whetzel and Olive collection, but an error. The fungus on this host is *Pucciniopsis carica* Earle.

*Ficus carica*, Naguabo; San Juan (Earle) (1, 81, 94).

*Ficus crassinervia*, El Yunque (W. & O.).

*Ficus levigata*, Santurce, Vega Baja, Mona Island, Cabo Rojo, Dos Bocas (Stevens); Barceloneta (W. & O.).

*Ficus lentiginosa*, Mayagüez, Yauco (W. & O.).

*Ficus* sp., Jayuya (Stevens).

## KUEHNEOLA GOSSYPII (Lagerh.) Arth.

On *Gossypium barbadense*, Garrochales, Trujillo Alto; Isabela, Mona Island (Stevens) (12, 20, 81).

*Gossypium brasiliense*, Dos Bocas (Stevens).

*Gossypium hirsutum*, Mayagüez (Earle); Añasco, Yauco, Barceloneta (W. & O.) (1).

*Gossypium* sp., Río Piedras, (W. & O.).

<sup>2</sup> Whetzell and Olive.



KUEHNEOLA MALVICOLA (Speg.) Arth.

On *Malache scabra*, Martín Peña (W. & O.).

MILEZIA COLUMBIENSIS (Dietel) Arth.

On *Nephrolepis rivularis*, Agucaltaria (Stevens).

OLIVEA CAPITULIFORMIS (P. Henn.) Arth.

(*Uredo capituliformis* P. Henn.)

On *Alchornea latifolia*, Naguabo; El Yunque (W. & O.); Preston's Ranch, Luquillo (Stevens).

OLIVEA PETITILÆ Arth.

On *Petitia domingensis*, Maricao (W. & O.).

PHYSOPELLA CONCORS Arthur.

(*Uredo concors* Arthur.)

On *Dolichos lablab*, Bayamón; El Yunque (W. & O.); Jayuya (Stevens).

*Phaseolus lunatus*, Bayamón, Mayagüez (94).

*Teramnus uncinatus*, Jayuya (Stevens).

PHYSOPELLA MEIBOMIÆ Arth.

On *Meibomia supina*, Añasco, Río Tanamá (W. & O.).

PHYSOPELLA VITIS (Thüm) Arth.

On *Vitis vinifera*, Pastillo Springs, Mayagüez (Stevens); Maricao (W. & O.) (81).

SCHROETERIASTER FENESTRALA Arth.

(*Uredo fenestrala* Arth.)

On *Phyllanthus distichus*, Sabana Llana; Mayagüez, Guánica (W. & O.).

*Phyllanthus grandifolius*, Bayamón, Villa Alba, Martín Peña (Stevens).

*Phyllanthus niruri*, Río Piedras.

#### ÆCIDIIACEÆ (PUCCINIACEÆ).

ARGOMYCES INSULANUS Arth.

On *Vernonia albicaulis*, Dos Bocas (Stevens).

*Vernonia longifolia*, Villa Alba (Stevens).

ARGOMYCES VERNONIÆ Arth.

On *Vernonia albicaulis*, Bandera (Stevens).

*Vernonia borinquensis*, Consumo, Jájome Alto, El Gigante (Stevens); Cayey (Holway); Maricao (W. & O.) (1).

*Vernonia phyllostachya*, Cabo Rojo (Stevens); Barceloneta (W. & O.).

## BOTRYORHIZA HIPPOCRATEA W. &amp; O.

On *Hippocratea volubilis*, Río Piedras, Espinosa. Campo Alegre; Mayagüez, Barceloneta, El Yunque (W. & O.); Ciales, Rosario, Maricao, Vega Baja, San Germán. Luquillo, Joyuda (Stevens) (71, 82).

## ENDOPHYLLUM CIRCUMSCRIPTUM (Schw.) W. &amp; O.

(*Aecidium circumscriptum* Schw.)

On *Cissus sicyoides*, Río Piedras, Comerío, Pueblo Viejo, Camuy, Guaynabo; Mayagüez, San Germán, Luquillo, Corozal, Manatí, Aguada, Aguadilla, Jájome Alto. Guavanilla, Jayuya, El Gigante, Cabo Rojo, Dos Bocas. Naguabo (Stevens); Maricao, Río Tanamá, Coamo (W. & O.) (71).

## ENDOPHYLLUM DECOLORATUM (Schw.) W. &amp; O.

(*Aecidium decoloratum* Schw.)

On *Clibadium erosum*, Jájome Alto (Stevens); El Yunque (W. & O.) (71).

## ENDOPHYLLUM STACHYTARPHETÆ (Henn.) W. &amp; O.

On *Valerianodes cayennensis*, Espinosa, Río Piedras (71).

## ENDOPHYLLUM WEDELIAE (Earle) W. &amp; O.

(*Aecidium wedeliae* Earle.)

On *Wedelia trilobata*, Cataño, Trujillo Alto, Río Piedras, Campo Alegre; Mayagüez, Cabo Rojo, Utuado, Maricao, Santana, El Gigante (Stevens); Barceloneta (W. & O.) (19, 71).

## ENDOPHYLLOIDES PORTORICENSIS W. &amp; O.

(*Aecidium expansum* Diet.)

On *Mikania cordifolia*, Naguabo; Coamo Springs, Mayagüez, Yauco, Monte de Oro, Lares, Jájome Alto, Dos Bocas, Villa Alba (Stevens); Maricao, San Germán, El Duque (W. & O.).

*Mikania odoratissima*, El Yunque, El Duque (W. & O.) (71).

## HEMILEIA VASTATRIX Berk. &amp; Br.

Said to have been introduced once on *Coffea arabica* (1, 81), but eradicated.

## PROSPODIUM APPENDICULATUM (Wint.) Arth.

On *Stenolobium stans*, Hormigueros (Stevens); Santurce (W. & O.).

## PROSPODIUM PLAGIOPUS (Mont.) Arth.

On *Tecoma pentaphylla*, Añasco, Río Piedras (W. & O.).

## PUCCINIA ANGUSTATOIDES Stone.

On *Rynchospora aurea*, Mayagüez (Clinton).

*Rynchospora corymbosa*, Pueblo Viejo; Mayagüez (W. & O.).

*Rynchospora cyperoides*, El Yunque, Cataño (W. & O.).

## PUCCINIA ARECHAVELATÆ Speg.

On *Cardiospermum halicacabum*, Guánica (Sintenis) (76).

*Cardiospermum microcarpum*, Santana, Bayamón; Quebradillas, Desecheo (Stevens); San Juan (Holway); Fajardo, Maricao (W. & O.).

## PUCCINIA BLECHI Lagerh.

On *Blechnum Brownei*, Río Piedras, Sierra de Naguabo; Mayagüez (Stevens).

## PUCCINIA CAMELIÆ (Mayor) Arthur.

On *Chaetochloa setosa*, Mona Island (Stevens) (12).

## PUCCINIA CANALICULATA (Schw.) Lagerh.

On *Cyperus articulatus*, Naguabo.

*Cyperus cayennensis*, Mayagüez (Clinton).

*Cyperus distans*, Porto Rico (Stevens).

*Cyperus ferax*, Río Piedras; Naguabo (Olive).

*Cyperus giganteus*, Mayagüez (W. & O.).

*Cyperus laevigatus*, Guánica (Stevens); Mayagüez (W. & O.).

*Cyperus odoratus*, San José, Río Piedras (Stevens); Martín Peña, Naguabo (W. & O.).

*Cyperus polystachus*, Cataño (Heller).

*Cyperus radiatus*, Canóvanas, Pueblo Viejo; Mayagüez (Stevens); Naguabo (W. & O.).

*Cyperus reticulatus*, Naguabo (W. & O.).

*Cyperus spathulatus*, Espinosa, Sabana Llana, Río Piedras; Mayagüez, La Carmelita (Clinton); Campo Alegre, Cataño (W. & O.).

*Cyperus surinamensis*, Bayamón, Martín Peña; Añasco (Heller); Naguabo (Olive).

*Cyperus* sp., Villa Alba (Stevens).

*Kyllingia brevifolia*, Martín Peña (W. & O.).

*Kyllingia pumila*, Pueblo Viejo, Río Piedras; Añasco, El Yunque (W. & O.).

## PUCCINIA CANNÆ (Wint.) P. Henn.

On *Calathea lutea*, Mayagüez (Stevens) (81).

*Canna coccinea*, Mameyes (Stevens); Maricao (W. & O.).

*Canna glauca*, Cabo Rojo (Stevens).

PUCCINIA CANNÆ (Wint.) P. Henn.—*Continued.*

On *Canna* sp., Espinosa, Naguabo, Campo Alegre, Río Piedras, Santurce, Corozal, Mayagüez, Añasco, Rosario (Stevens); Barceloneta (W. & O.).

*Thalia geniculata*, Añasco, Mayagüez (Stevens).

## PUCCINIA CENCHRI Diet. &amp; Holw.

On *Cenchrus carolinianus*, Camuy (Stevens).

*Cenchrus echinatus*, Guánica, Mona Island (Stevens); Mayagüez, Boquerón, Yauco, San Germán, Barceloneta, Río Tanamá (W. & O.) (12).

*Cenchrus viridis*, Campo Alegre; Guánica, Mona Island, Guayama (Stevens).

## PUCCINIA GLADII Ell. &amp; Tracy.

On *Mariscus jamaicensis*, Martín Peña (W. & O.).

## PUCCINIA CONCRESCENS E. &amp; E.

On *Asclepias curassavica*, Espinosa, Ciales; Vega Baja, Aibonito, Manatí, Jájome Alto (Stevens); Comerío (Holway); Maricao (W. & O.) (1).

*Asclepias nivea*, Maricao (W. & O.).

## PUCCINIA CORDIÆ Arth.

On *Cordia alliodora*, Ponce (Holway).

## PUCCINIA CRASSIPES Berk. &amp; Curt.

On *Ipomœa triloba*, Cortada, Mona Island (Stevens) (12).

## PUCCINIA CUTICULOSA (Ell. &amp; Ev.) Arth.

On *Cydista æquinoctialis*, Martín Peña (W. & O.).

## PUCCINIA CYNODONTIS De Lac.

On *Capriola dactylon*, Río Piedras; Mayagüez (Stevens); Naguabo (W. & O.).

## PUCCINIA DEFORMATA Berk. &amp; Curt.

On *Olyra latifolia*, San Germán (Stevens).

## PUCCINIA ELEOCHARIDIS Arth.

On *Eleocharis capitata*, Martín Peña; Laguna San José (Stevens); Mayagüez (W. & O.).

*Eleocharis cellulosa*, Santurce (Stevens).

*Eleocharis flaccida*, Bandera (Stevens).

*Eleocharis geniculata*, Naguabo; Mayagüez (Stevens); Añasco (Heller) (19).

*Eleocharis interstincta*, Mayagüez (Stevens).

*Eleocharis mutata*, Guanajibo (Stevens); Martín Peña (W. & O.).

## PUCCINIA ELEOCHARIDIS Arth.—Continued.

On *Eleocharis* sp., Cataño (Stevens); Mayagüez (Heller, Clinton).

## PUCCINIA EUPHORBLÆ P. Henn.

On *Aklema petiolaris*, Mona Island (Stevens) (12).

## PUCCINIA FALLACIOSA Arth.

(*Uredo fallaciosa* Arthur.)

On *Palicourea crocea*, Mayagüez, Maricao (W. & O.).

*Palicourea riparia*, El Yunque (W. & O.).

*Psychotria patens*, Maricao, Ponce (Stevens).

## PUCCINIA FARINACEA Long.

On *Salvia coccinea*, El Gigante (Stevens); Mayagüez, Maricao (W. & O.).

## PUCCINIA FIMBRISTYLIDIS Arth.

On *Fimbristylis diphylla*, Río Piedras; Ponce (Stevens); Barceloneta, Campo Alegre (W. & O.).

*Fimbristylis ferruginea*, Martín Peña; Joyuda, Santurce (Stevens).

*Fimbristylis milacea*, Río Piedras.

*Fimbristylis* sp., Mayagüez (Clinton).

## PUCCINIA GOUANIÆ Holw.

On *Gouania lupuloides*, Rosario, Yauco, Cabo Rojo (Stevens); Mayagüez (Holway).

*Gouania polygama*, Mayagüez, Rosario, Lares, Aguadilla, San Germán (Stevens); Añasco (W. & O.).

## PUCCINIA HELICONIÆ (Deit.) Arth.

(*Uredo heliconiæ* Diet.)

On *Bihai borinquena*, El Yunque (W. & O.). The new combination made by Dr. Arthur in Bul. Tor. Bot. Club, v. 75, no. 4, April 1918, pp. 144-5.

## PUCCINIA HETEROSPORA B. &amp; C.

(*Uromyces pavonia* Arth.)

On *Abutilon hirtum*, Guánica (Stevens).

*Abutilon indicum*, Peñuelas, Tallaboa, Coamo (Sintenis) (76).

*Malache scabra*, Mayagüez, Jayuya (Underwood).

*Sida cordifolia*, Cabo Rojo (Sintenis) (76).

*Sida glutinosa*, Villa Alba (Stevens).

*Sida hederifolia*, Mayagüez (W. & O.).

*Sida humilis*, Martín Peña; Boquerón (Stevens); Vieques (Shafer); Yauco (W. & O.); Guánica (Sintenis) (76).

PUCCINIA HETEROSPORA B. & C.—*Continued.*

On *Sida procumbens*, Guánica, Desecheo (Stevens).

*Sida spinosa*, Guayama (Stevens).

*Sida urens*, Garrochales, Río Piedras; Guayanilla, Coamo Springs, Vega Baja, Yauco, Maricao, Rosario, Vega Alta, Ponce, Aguada, El Gigante, Mayagüez (Stevens); Añasco, Boquerón (W. & O.).

*Wissadula periplocifolia*, Coamo Springs, Guánica (Stevens).

## PUCCINIA HUBERI P. Henn.

On *Panicum fasciculatum*, Vega Baja; Río Tanamá (Stevens); Barceloneta (W. & O.).

*Panicum trichoides*, Aibonito, Río Piedras; Villa Alba, Maricao, Adjuntas, Jayuya (Stevens); La Carmelita (Clinton); Mayagüez, Río Tanamá (W. & O.).

*Panicum utowanæum*, Mona Island (82).

## PUCCINIA HYDROCOTYLES (Link.) Cook.

On *Hydrocotyle australis*, Pueblo Viejo.

*Hydrocotyle umbellata*, Mayagüez, Yauco (W. & O.).

## PUCCINIA HYPIDIS (M. A. Curt.) Tracy &amp; Earle.

On *Hyptis capitata*, Río Piedras, Mayagüez; Bayamón (Holley); Maricao (W. & O.); Villa Alba, Coamo Springs, Vega Baja, Añasco, Rosario, Quebradillas, Monte de Oro, Lares, El Gigante (Stevens).

## PUCCINIA INFLATA Arth.

On *Stigmaphyllon lingulatum*, Santurce, Mayagüez; Ponce (Holley); Desecheo, Boquerón, Guánica, Coamo Springs, Mona Island (Stevens); Yauco, Fajardo, Coamo (W. & O.) (12).

## PUCCINIA INSITITIA Arth.

On *Hyptis lantanifolium*, Aibonito (Stevens); Maricao (W. & O.).

## PUCCINIA LANTANÆ Farl.

On *Lantana camara*, Guánica, Lares, Guayanilla (Stevens).

*Lantana involucrata*, Quebradillas; Boquerón, Arecibo, Quebradillas, San Germán, Mona Island (Stevens); Yauco (W. & O.).

## PUCCINIA LATERITIA Berk. &amp; Curt.

On *Borreria laevis*, Río Piedras, Canóvanas; Mayagüez (Clinton); Vega Baja, Cabo Rojo, Coamo Springs, San Sebastián (Stevens).

PUCCINIA LATERITIA Berk & Curt.—*Continued.*

On *Borreria verticillata*, Río Piedras; Mayagüez, Boquerón, Bayamón, Indiera Fría, Cataño, Utuado, Lares, Aguada, Quebradillas (Stevens); Maricao, San Germán, Barceloneta (W. & O.).

*Diodia littoralis*, Boquerón (W. & O.).

*Diodia maritima*, Palo Seco, Cataño; Mayagüez (Stevens); Santurce (W. & O.).

*Diodia rigida*, Campo Alegre, Espinosa, Garrochales, Camuy, Naguabo; Manatí, Río Piedras (Stevens); Mayagüez, Barceloneta (W. & O.).

*Ernodea littoralis*, Boquerón, Mona Island (Stevens) (12).

*Mitracarpus portoricensis*, Guánica (Stevens).

*Spermacoce riparia*, Aguadilla (Stevens).

*Spermacoce tenuior*, Campo Alegre; Hormigueros, Guánica, Coamo Springs, Cabo Rojo, San Germán (Stevens); Vieques (Shafer) (102).

## PUCCINIA LEONOTIDIS (P. Henn.) Arthur.

On *Leonotis nepetifolia*, Río Piedras, Espinosa; Yabucoa, Coamo Springs, Hormigueros, Bayamón, Lares, Guayama, Guayánilla (Stevens); Ponce (Holway); Mayagüez, Yauco, Boquerón, Barceloneta (W. & O.).

## PUCCINIA LEVIS (Sacc. &amp; Bizz.) Mag.

On *Paspalum fimbriatum*, Cabo Rojo (Stevens); Yauco (W. & O.).

*Paspalum millegrana*, Campo Alegre (W. & O.).

*Paspalum plicatulum*, Río Piedras; Vega Baja (Stevens).

*Rytidix granularis*, Rosario (Stevens); Maricao (Sintenis) (76).

## PUCCINIA LITHOSPERMI Ell. &amp; Kellerm.

On *Evolvulus nummularius*, Mayagüez, Añasco (W. & O.).

## PUCCINIA MACROPODA Speg.

On *Iresine elatior*, Desecheo (Stevens).

## PUCCINIA MEDELLINENSIS Mayor.

On *Hyptis atrorubens*, Río Piedras, Espinosa; Santurce (Stevens); Martín Peña, Naguabo (W. & O.).

*Hyptis pectinatum*, Río Piedras; Villa Alba, Coamo Springs, Corozal, Mayagüez, Rosario, Lares, Cabo Rojo (Stevens); Maricao, Yauco (W. & O.) (1).

## PUCCINIA MEDELLINENSIS Mayor.—Continued.

On *Hyptis suaveolens*, Vega Baja; Mayagüez, Ponce, Aguada, Guayama, Guayanilla (Stevens); La Carmelita (Clinton); Aibonito (Holway); Añasco (W. & O.).

## PUCCINIA OBLIQUA Berk. &amp; Curt.

On *Metastelma lincare*, Espinosa; Barros (Stevens); Maricao (W. & O.).

*Metastelma parviflorum*, Vega Baja, Quebradillas (Stevens); Mayagüez (W. & O.).

## PUCCINIA ORMOSLÆ Arth.

On *Ormosia Krugii*, Sierra de Naguabo; El Yunque (W. & O.).

## PUCCINIA POLYGONI-AMPHIBII Pers.

On *Persicaria portoricensis*, Río Piedras.

*Persicaria punctata*, Sabana Llana; Mayagüez, Coamo (W. & O.).

## PUCCINIA PSIDII Wint.

On *Jambos jambos*, Consumo, Maricao, Río Piedras, Barros, Villa Alba, Monte de Oro, Jájome Alto, El Gigante (Stevens).

*Psidium guayava*, Villa Alba (Stevens).

## PUCCINIA PURPUREA Cooke.

On *Holcus halepensis*, Palo Seco, Sabana Llana, Vega Baja.

*Holcus sorghum*, Patillas, Mayagüez, Río Piedras, Ensenada, Trujillo Alto; La Carmelita (Clinton) (94).

*Holcus sorghum* var. *sudanensis*, Río Piedras, Trujillo Alto; Mayagüez (W. & O.) (94).

## PUCCINIA RIVINÆ (Berk. &amp; Curt.) Speg.

On *Rivina humilis*, Desecheo (Stevens); Yauco (W. & O.); Fajardo (Sintenis) (76).

*Trichostigma octandrum*, Yauco, Coamo (W. & O.).

## PUCCINIA ROSEA (Diet. &amp; Holw.) Arth.

On *Ageratum conyzoides*, Villa Alba, Utuado, Monte Allegrillo (Stevens); Yauco (W. & O.).

*Eupatorium polyodon*, Barros (Stevens).

## PUCCINIA SALVICOLA Diet. &amp; Holw.

On *Salvia occidentalis*, Camuy, Palo Seco; Mayagüez, Corozal, Aguada (Stevens); Caguas (Heller); La Carmelita (Clinton); Ponce (Holway); Maricao, Yauco (W. & O.).

## PUCCINIA SCIRPI De.

On *Scirpus lacustris*, Guánica (Heller).



## PUCCINIA SCLERIZÆ (Paz.) Arth.

(*Accidium passifloricola* P. Henn.)

On *Scleria cubensis*, Maricao (W. & O.).

*Scleria pterota*, Mayagüez, Maricao, El Yunque, Naguabo  
(W. & O.).

*Passiflora rubra*, Mayagüez (Stevens); Maricao (W. & O.)  
(97).

## PUCCINIA SCLERICOLA Arth.

On *Scleria hirtella*, Río Piedras.

*Scleria* sp., Naguabo (Stevens).

## PUCCINIA SMILACIS Schw.

On *Smilax domingensis*, Maricao (W. & O.).

## PUCCINIA SPEGAZZINI Det.

On *Mikania scandens*, Mayagüez (W. & O.).

## PUCCINIA SUBSTRIATA.

(*Accidium tubulosum* Pat. & Gaill.)

On *Chaetochloa geniculata*, Río Piedras.

*Eriochloa subglabra*, Río Piedras, Mayagüez.

*Ichnanthus pallens*, Mayagüez, El Yunque (W. & O.).

*Paspalum glabrum*, Vega Baja (Stevens).

*Paspalum orbiculatum*, Monte de Oro (Stevens).

*Paspalum paniculatum*, Naguabo, Río Piedras; Mayagüez,  
Monte Alegrillo (Stevens); Maricao, San Germán (W.  
& O.).

*Paspalum portoricense*, Vega Baja.

*Paspalum secans*, Campo Alegre; Bayamón (Holway).

*Syntherisma digitata*, Río Piedras; Barceloneta, El Duque  
(W. & O.).

*Valota insularis*, Vega Baja, Campo Alegre; Boquerón, San  
Germán (W. & O.).

*Solanum torvum*, Río Piedras, Trujillo Alto, Vega Baja; Ma-  
yagüez (Heller); San Juan (Holway); Corozal, Yauco,  
Rosario, El Gigante, Maricao, Lares, Jájome Alto, Monte  
de Oro, Cayey, Jayuya, Cabo Rojo (Stevens); Utuado (W.  
& O.) (97).

## PUCCINIA SYNEDRELLE P. Henn.

On *Eleutheranthera ruderalis*, Carolina, Río Piedras; Mayagüez,  
Aguada (Stevens).

*Emilia sonchifolia*, Bayamón, Río Piedras, Ponce, Espinosa;  
Hormigueros, Guayama, Yauco, San Germán (Stevens);  
Mayagüez, Maricao, Añasco (W. & O.).

## PUCCINIA SYNEDRELLÆ P. Henn.—Continued.

On *Neurolena lobata*, Florida Adentro (Stevens).

*Synedrella nodiflora*, Río Piedras, Trujillo Alto; Barros, Caguas, Cabo Rojo, Santa Catalina, Yauco, Isabela, Rosario, Alegrillo, Lares, San Sebastián, Guayama, Monte de Oro, Jájome Alto, Utuado, Guayanilla (Stevens); Mayagüez, El Duque (W. & O.).

## PUCCINIA TAGETICOLA Diet. &amp; Holw.

On *Tagetes erecta*, Maricao (W. & O.).

*Tagetes patula*, Maricao (Stevens).

## PUCCINIA URBANIANA P. Henn.

On *Valerianodes cayennensis*, Santurce.

*Valerianodes jamaicensis*, Río Piedras, Camuy, Campo Alegre, Naguabo, Añasco; Santurce, Vega Baja, Manatí, Guayama, Dos Bocas (Stevens); San Juan (Earle); Mayagüez (Clinton); Boquerón, San Germán, Barceloneta, Fajardo, Campo Alegre (W. & O.).

*Valerianodes strigosa*, Cabo Rojo, Mona Island (Stevens); Coamo, Mayagüez (W. & O.).

## PUCCINIA XANTHII Schw.

On *Xanthium longirostre*, Santurce.

## PUCCINIA ZORNIE (Diet.) McAlp.

On *Zornia diphylla*, Río Piedras; Mayagüez (W. & O.).

## PUCCINIOSIRA PALLIDULA (Speg.) Lagerh.

On *Triumfetta lappula*, Ponce (Heller) (1).

*Triumfetta rhomboidea*, Bayamón; Santurce, Aguada, Mayagüez (Stevens).

*Triumfetta semitriloba*, Mayagüez, Maricao, Yauco (W. & O.).

*Triumfetta* sp., Río Piedras, Pueblo Viejo, Espinosa; Villa Alba, Mayagüez, Bayamón, Aibonito, Maricao, Rosario, El Gigante, Dos Bocas (Stevens).

## RAVENELIA CÆSALPINIÆ Arth.

On *Mimosa ceratonia*, Río Piedras; Bayamón, Vega Baja, Monte Alegrillo, Santa Catalina, Cabo Rojo, Indiera Fría, Aibonito, Vega Alta, San Sebastián, Lares, Manatí, Luquillo Forest, San Germán, El Gigante, Naguabo (Stevens); Mayagüez, Maricao, Barceloneta (W. & O.) (1).

## RAVENELIA CASSIÆCOLA Atks.

On *Chamæcrista æschynomene*, El Gigante (Stevens).

*Chamæcrista glandulosa*, Vega Baja, Trujillo Alto.

## RAVENELIA CAULICOLA Arth.

On *Cracca cinerea*, Cataño, Santurce; Quebradillas, Desecheo (Stevens).

## RAVENELIA CEBIL Speng.

On *Piptadenia peregrina*, Peñuelas (Stevens).

## RAVENELIA INDIGOFERÆ Tranz.

On *Indigofera suffruticosa*, Cataño, Espinosa; Boquerón, Bayamón, Jayuya, Mayagüez, Aguada (Stevens); Añasco, Yauco, Barceloneta, Naguabo (W. & O.).

## RAVENELIA HUMPHREYANA P. Henn.

On *Cesalpinia pulcherrima*, Río Piedras (94).

## RAVENELIA INGÆ (P. Henn.) Arthur.

On *Inga laurina*, Maricao, El Yunque (W. & O.).

*Inga vera*, Monte Montosa, Monte Alegrillo (Stevens); Ponce (Barret) (1).

## RAVENELIA PORTORICENSIS Arth.

On *Cassia emarginata*, Ponce (Heller) (1).

## RAVENELIA SILIQUÆ Long.

On *Vachellia Farnesiana*, Yauco, Coamo (W. & O.).

## RAVENELIA STEVENSII Arth.

On *Acacia riparia*, Guayanilla, Vega Baja, Peñuelas (Stevens); Coamo (W. & O.).

## RAVENELIA WHETZELII Arth.

On *Inga vera*, Maricao, Mayagüez (W. & O.).

## TRANZSCHELIA PUNCTATA (Pers.) Arth.

On *Amygdalus persica*, Naguabo; Mayagüez (Earle) (1, 94).

## UROMYCES APPENDICULATUS (Pers.) Fries.

On *Phaseolus adenanthus*, Río Piedras; Vega Baja (Stevens); Caguas (Holway); Arecibo (Clinton); Mayagüez, Barceloneta (W. & O.).

*Phaseolus lathyroides*, Maricao (W. & O.).

*Phaseolus vulgaris*, Camuy, Barceloneta, Río Piedras; Cabo Rojo (Stevens); Mayagüez (Clinton, Earle); Maricao (W. & O.) (2, 20, 90, 94).

*Vigna repens*, Río Piedras; Arecibo (Stevens); Mayagüez (W. & O.).

*Vigna vexillata*, Mayagüez (Stevens).

## UROMYCES BIDENTICOLA (P. Henn.) Arth.

On *Bidens leucantha*, Pueblo Viejo, Palo Seco, Vega Baja, Espinosa, Fajardo, Naguabo; Santurce, Aibonito, Añasco, Mayagüez, Monte Alegrillo, Lares, Aguada, Dos Bocas (Stevens); Yauco, Hormigueros, Barceloneta (W. & O.).

*Bidens pilosa*, Arecibo-Lares, Río Piedras, Río Tanamá, Maricao (Stevens); Boquerón, San Germán (W. & O.).

*Cosmos caudatus*, Barros, Jayuya (Stevens).

## UROMYCES BIDENTIS Lagerh.

(*Uromyces densus* Arthur.)

On *Bidens pilosa*, Ponce (Stevens); Maricao (W. & O.).

## UROMYCES CARYOPHYLLINUS (Schrank.) Wint.

On *Dianthus* sp., San Juan (94).

## UROMYCES CESTRI Mont.

On *Cestrum laurifolium*, Martín Peña, Camuy; Cabo Rojo, Monte Alegrillo, Quebradillas, San Germán, Arecibo-Lares Road (Stevens); Fajardo, Campo Alegre (W. & O.).

*Cestrum macrophyllum*, El Duque, Barros, Maricao, Ponce, Monte Alegrillo, Lares, Luquillo Forest, Monte de Oro, Dos Bocas, Naguabo (Stevens); Maricao, Barceloneta, Río Tanamá (W. & O.).

## UROMYCES COLOGANLÆ Arth.

On *Teramnus uncinatus*, Cayey (Holway) (2).

## UROMYCES COLUMBIANUS Mayor.

On *Melanthera canescens*, Palo Seco, Aibonito, Río Piedras, Espinosa; Ciales, Añasco, Corozal, Yauco, Mayagüez, Vega Baja, Cayey, Cabo Rojo, Rosario, Utuado, Quebradillas, Guayanilla, Dos Bocas, Jayuya (Stevens); Maricao, Barceloneta (W. & O.).

## UROMYCES COMMELINÆ (Speg.) Cooke.

On *Commelina virginica*, Desecheo (Stevens).

## UROMYCES DOLICHOLI Arth.

On *Cajanus indicus*, Espinosa, Campo Alegre, Río Piedras; Guayanilla, Corozal, Jayuya, Rosario, Mayagüez, Vega Baja, Manatí, Quebradillas (Stevens); Yauco (W. & O.) (81, 90, 94).

*Dolicholus eninimus*, Guánica (W. & O.).

*Dolicholus reticulatus*, Boquerón, Aguada, Vega Baja (Stevens); Bayamón (Heller); Mayagüez (W. & O.).

## UROMYCES ERAGROSTIDIS Tracy.

On *Eragrostis tephrosanthes*, Río Piedras; Bayamón (Stevens); San Germán (W. & O.) (2).

## UROMYCES GEMMATUS Berk. &amp; Curt.

On *Jacquemontia nodiflora*, Coamo Springs, Desecheo, San Germán, Guánica, Guayanilla (Stevens); Ponce (Holway).

## UROMYCES HEDYSARI-PANICULATI (Schw.) Farl.

On *Meibomia axillaris*, Cabo Rojo (Stevens).

*Meibomia scorpiurus*, Mayagüez, Peñuelas (Stevens); Yauco (Heller).

*Meibomia tortuosum*, Sabana Llaná; Yauco (W. & O.).

## UROMYCES HELLERIANUS Arth.

On *Cayaponia americana*, Sierra de Naguabo; Maricao, Cabo Rojo (Stevens).

*Cayaponia racemosa*, Río Piedras, Campo Alegre; Corozal (Stevens); Mayagüez, Barceloneta, El Yunque, El Duque (W. & O.) (2).

*Melothria guadalupensis*, Río Piedras; Yauco, Rosario, Utuado, San Germán (Stevens); Mayagüez, El Duque (W. & O.).

## UROMYCES HOWEI Peck.

On *Asclepias curassavica*, Comerío (Holway); Maricao (W. & O.).

## UROMYCES IGNOBILIS (Sydow) Arth.

On *Sporobolus indicus*, Río Piedras, Campo Alegre; Mayagüez (Stevens); Naguabo (W. & O.).

*Sporobolus virginicus*, Camuy (Stevens).

## UROMYCES JAMAICENSIS Vestery.

On *Bauhinia pauletia*, San Germán (Stevens); Mayagüez (Holway).

## UROMYCES JANIPHÆ (Wint.) Arth.

On *Manihot manihot*, Río Piedras; Vega Baja (Stevens) (81, 90).

## UROMYCES LEPTODERMUS Sydow.

On *Lasiacis divaricata*, Espinosa; Coleña, Utuado, San Germán, Maricao, Mona Island (Stevens).

*Lasiacis ligulata*, Maricao (W. & O.).

*Lasiacis Sloanei*, Arecibo (Stevens).

*Lasiacis sorghoidea*, Mayagüez, Maricao (W. & O.).

*Panicum barbinode*, Carolina, Río Piedras; Guánica, Boquerón, Mayagüez, Peñuelas (Stevens).

*Panicum parviflorum*, Martín Peña (W. & O.).

## UROMYCES NEUROCARPI Dietel.

On *Clitoria cajanifolia*, Mayagüez (Stevens); San Juan (Britton) (2).

*Clitoria rubiginosa*, Espinosa, Naguabo, Camuy, Santurce, Río Piedras; Dorado (Stevens); Mayagüez, Barceloneta, Martín Peña (W. & O.).

## UROMYCES PIANHYENSIS P. Henn.

On *Wedelia reticulata*, San Germán (Stevens); Yauco, Río Tamamá (W. & O.).

## UROMYCES PRÆMINENS (D. C.) Pass.

On *Chamaesyce brasiliensis*, Mayagüez (W. & O.).

*Chamaesyce hirta*, Vega Baja, Camuy, Espinosa; Cataño, Vega Baja, Lares, Coamo Springs, Arecibo, Aguada, Guayama, Río Piedras, San Germán, Guayanilla (Stevens); Mayagüez (Clinton); Yauco, San Germán (W. & O.).

*Chamaesyce hypericifolia*, Fajardo, Río Piedras; Lajas (Stevens).

*Chamaesyce prostrata*, Río Piedras, Bayamón.

## UROMYCES RHYNCOSPORÆ Ellis.

On *Rynchospora distans*, Martín Peña (W. & O.).

*Rynchospora micrantha*, Naguabo (Stevens).

*Rynchospora setacea*, Martín Peña (W. & O.) (2).

## UROMYCES SCLERLÆ P. Henn.

On *Scleria canescens*, Jájome Alto, El Alto de la Bandera (Stevens); El Yunque (W. & O.).

*Scleria pterota*, Río Piedras, Vega Baja; Luquillo Forest (Stevens); Mayagüez, Añasco, Naguabo (W. & O.) (2).

## UROMYCES SABINEÆ Arth.

On *Sabinea punicea*, Maricao (W. & O.).

## FORM-GENUS: ÆCIDIUM.

## ÆCIDIUM ABCENDENS Arth.

On *Randia aculeata*, Martín Peña, Bayamón; Mayagüez, Cataño, Aguada (Stevens); Barceloneta, Campo Alegre (W. & O.).

## ÆCIDIUM BORRERLÆ Pat.

On *Hemidiodia ocimifolia*, Sierra de Naguabo; Mayagüez (Stevens); El Yunque (W. & O.).

## ÆCIDIUM CIRCUMSCRIPTUM Schw.

See *Endophyllum circumscriptum*.

AECIDIUM DECOLORATUM Schw.

See *Endophyllum decoloratum*.

AECIDIUM EXPANSUM Diet.

See *Endophylloides portoricense*.

AECIDIUM FAVACEUM Arth.

On *Phyllanthus nobilis*, San Germán, Hormigueros (Stevens).

AECIDIUM PASSIFLORICOLA P. Henn.

See *Puccinia scleriæ*.

AECIDIUM TOURNEFORTIÆ P. Henn.

On *Tournefortia bicolor*, Barceloneta (W. & O.).

*Tournefortia hirsutissima*, Río Piedras; Yauco, Rosario (Stevens).

*Tournefortia microphylla*, Yauco (W. & O.).

AECIDIUM TUBULOSUM Pat. & Gaill.

See *Puccinia substriatum*.

AECIDIUM WEDELII Earle.

See *Endophyllum wedeliæ*.

FORM-GENUS: UREDO.

UREDO ÆSCHYNOMENIS Arth.

On *Aeschynomene americana*, Río Piedras, Campo Alegre; Mayagüez, Ponce, Maricao, Rosario, Utuado, Aguada (Stevens).

UREDO ANTHURII Hariot.

On *Anthurium scandens*, El Alto de la Bandera (Stevens).

UREDO ARACHIDIS Lagerh.

On *Arachis hypogea*, Espinosa, Río Piedras, Pueblo Viejo; Dorado (Stevens) (81, 90, 94).

UREDO ARTOCARPI B. & Br.

On *Artocarpus comansi*, Mayagüez (Stevens).

*Artocarpus communis*, Río Piedras; Mayagüez (Clinton) (1, 81).

UREDO BIXÆ Arth.

On *Bixa orellana*, Adjuntas (Stevens); Maricao (W. & O.).

UREDO CABRERIANA Kern & Kellerm.

On *Erythrina glauca*, Río Piedras, Guaynabo; Bayamón (Holway).

UREDO CLUSIÆ Arth.

On *Clusia rosea*, Maricao (W. & O.).

## UREDO COCCOLOBÆ P. Henn.

On *Coccoloba uvifera*, Cataño; Mayagüez, Boquerón, San Germán (W. & O.).

## UREDO COMMELYNEÆ Kalchbr.

On *Commelina nudiflora*, Palo Seco.

*Commelina virginica*, Palo Seco; Coamo Springs (Stevens); Arcibo (Heller); Sabana Llana (Goll).

## UREDO CUPHEÆ P. Henn.

On *Cuphea Parsonsia*, Río Piedras; Cabo Rojo (Stevens); Mayagüez, Maricao, Añasco (W. & O.).

## UREDO DICHROMENÆ Arth.

On *Dichromena ciliata*, Río Piedras, Sierra de Naguabo; Mayagüez (Clinton).

*Dichromena radicans*, Guayama (Stevens); Mayagüez, Maricao, Añasco, El Duque, Naguabo (W. & O.).

## UREDO DIOSCOREÆ P. Henn.

On *Dioscorea polygonoides*, El Yunque (W. & O.).

*Rajania cordata*, Río Piedras, Sierra de Naguabo; Bayamón, Jájome Alto, El Gigante, Dos Bocas, Santana (Stevens); Maricao, Río Tanamá, Barceloneta, El Yunque (W. & O.).

## UREDO ERYTHROXYLONIS Guz.

On *Erythroxylon arcolatium*, Mona Island (Stevens).

## UREDO FUIRENÆ P. Henn.

On *Fuirenia umbellata*, Naguabo; Santurce, Aguas Buenas, Mayagüez, Santa Catalina, Cataño (Stevens); Bayamón (Holway); El Yunque (W. & O.).

## UREDO GLOBULOSA Arth.

On *Hypoxis decumbers*, Campo Alegre, Río Piedras, Vega Baja; Las Marías, Bandera (Stevens); Maricao, Añasco (W. & O.).

## UREDO GOUANIÆ Ellis &amp; Kelsey.

On *Gouania lupuloides*, Garrochales, Camuy, Naguabo, Jájome Alto, Aguadilla, San Germán (Stevens).

*Gouania polygama*, Guánica (Stevens).

## UREDO GUACÆ Mayor.

On *Epidendrum difforme*, Cayey; Jájome Alto (Stevens).

*Epidendrum rigidum*, Cayey (Holway).



## UREDO GYMNOGRAMMES P. Henn.

On *Adiantum latifolium*, Las Marías (Stevens); Mayagüez (W. & O.).

*Dryopteris mollis*, Mayagüez (W. & O.).

*Dryopteris poiteana*, Villa Alba (Stevens); Mayagüez, Maricao (W. & O.).

*Gomiopteris guadalupensis*, Mayagüez (W. & O.).

*Pityrogramma calomelana*, Maricao (W. & O.).

*Tectaria marteniensis*, Mayagüez (W. & O.).

## UREDO GYNANDREARUM Corda.

On *Habenaria maculosa*, Cataño (Millspaugh); Bayamón (Heller).

*Prescottia oligantha*, Maricao (W. & O.).

## UREDO HAMELIÆ Arth.

On *Hamelia erecta*, Espinosa; Lajas (Stevens); Yauco (W. & O.).

## UREDO HELICONIÆ Diet.

See *Puccinia heliconiae*.

## UREDO HYMENÆÆ Mayor.

On *Hymenaea courbaril*, Martín Peña, Naguabo, Bayamón; Jayuya, Mayagüez, Añasco, Vega Baja (Stevens); Fajardo, Campo Alegre, Coamo (W. & O.).

## UREDO JATROPHICOLA Arth.

On *Jatropha curcas*, Hormigueros (Stevens).

*Jatropha gossypifolia*, Río Piedras, Palo Seco, Martín Peña; San Germán, Guayama, Guayanilla (Stevens); Yauco, Río Tanamá (W. & O.).

## UREDO LUTEA Arth.

On *Cassia quinquangulata*, Maricao, Jájome Alto, Naguabo (Stevens); El Yunque (W. & O.).

## UREDO NIGROPUNCTATA P. Henn.

On *Bletia patula*, Maricao (Stevens).

## UREDO NOTATA Arth.

On *Byrsonima crassifolia*, Mayagüez (W. & O.).

## UREDO OLYRÆ P. Henn.

On *Oplismenus hirtellus*, Las Marías (Stevens).

## UREDO OPERCULINÆ Arthur.

On *Operculina dissecta*, Yauco (W. & O.).

## UREDO PALLIDA Diet. &amp; Holw.

On *Zea mays*, Río Piedras, Punta Cangrejos, Sierra de Naguabo (90, 94).

## UREDO PASPALICGLA P. Henn.

*(Uredo Stevensiana* Arth.)On *Axonopus compressus*, Mayagüez (Stevens).*Bambusa vulgaris*, Vega Baja, Espinosa; Maricao, Mayagüez (W. & O.) (94).*Paspalum conjugatum*, Espinosa, Río Piedras; Adjuntas (Stevens); Mayagüez, Maricao (W. & O.).*Paspalum glabrum*, Mayagüez (Stevens).*Paspalum paniculatum*, Vega Baja (Stevens).*Paspalum plicatulum*, Río Piedras, Guaynabo; Mayagüez (Stevens); Añasco (W. & O.).

## UREDO PIPERIS P. Henn.

On *Peperomia hernandifolia*, El Alto de la Bandera (Stevens).

## UREDO PLUCHEA Syd.

*(Uredo biocellata* Arth.)On *Pluchea odorata*, Ponce, Vega Baja (Stevens); Guánica (Millspaugh).*Pluchea purpurascens*, Santurce, Cabo Rojo, Mona Island (Stevens); Mayagüez (W. & O.) (12).

## UREDO PROXIMELLA Arth.

On *Lactuca intybecea*, Sabana Grande (Stevens); Barceloneta (W. & O.).

## UREDO PUSTULATA P. Henn.

On *Stenorrhynchus lanceolatus*, Las Marías (Stevens).

## UREDO RUBESCENS Arth.

On *Dorstenia contrajerva*, Moca; Camuy (Stevens).

## UREDO SABICEICOLA Arth.

On *Sabicea aspera*, Mayagüez (Stevens); Maricao (W. & O.).

## UREDO SAUVAGESIÆ Arth.

On *Sauvagesia erecta*, Sierra de Naguabo; Jájome Alto (Stevens); El Yunque (W. & O.).

## UREDO SPARGANOPHORI P. Henn.

On *Struchium sparganophori*, Carolina; Mayagüez (Stevens).

## UREDO SUPERIOR Arth.

On *Fimbristylis ferruginea*, Martín Peña (W. & O.).*Fimbristylis spadicea*, Ponce (Heller); Mayagüez (W. & O.).

## UREDO TRICHILIA Arth.

On *Trichilia pallida*, Maricao (W. & O.).

## UREDO VENUSTULA Arth.

On *Andropogon brevifolius*, Río Piedras; Las Marías (Stevens).

## UREDINA VICINA Arth.

On *Wedelia lanceolata*, Guánica (Stevens).

## TREMELLACEÆ.

## AURICULARIA AURICULA-JUDÆ (L.) Schrt.

(*Hirneola auricula-judæ* Berk.)

On rotten wood, Río Piedras, El Duque, Barceloneta, Santana, Fajardo, Caguas, El Yunque, Espinosa, Moca, Mameyes, Dorado; Adjuntas (Sintenis, 76) (82).

## AURICULARIA AURIFORMIS (S.) Earle.

(*Exidia auriformis* Fr.)

Reported from the Schwanecke collection (50).

## AURICULARIA DELICATA (Fr.) Henn.

(*Laschia lamellosa* Pat.)

On dead wood, Río Piedras. Also reported from the Sintenis collection (76), Barceloneta.

## AURICULARIA NIGRESCENS (Sw.) Farlow.

(*Auricularia polytricha* [Mont.] Sacc.)

On dead wood, Espinosa; Vieques (Shafer) (102).

## GUEPINIA PALMICEPS Berk.

On sugar-cane debris and rotten wood, Río Piedras; Yabucoa (Sintenis, 76) (48).

## GUEPINIA SPATHULATA Schw.

On rotten wood, Río Piedras, Espinosa, Sabana Llana; El Yunque (Stevens) (48, 82).

## TREMELLA FUCIFORMIS Berk.

On humus, Bayamón.

## TREMELLA RUFOLUTEA Berk.

On rotten wood, El Yunque.

## CLAVARIACEÆ.

## CLAVARIA FUMOSA Pers.

On soil, Martín Peña.

## CLAVARIA INÆQUALIS Müll.

On soil, Río Piedras.

THELEPHORACEÆ.<sup>1</sup>

## ASTEROSTROMA CERVICOLOR (B. &amp; C.) Masee.

On soil and cane trash, Camuy, Río Piedras (48).

## CLADODERRIS DENDRITICA Pers.

On dead sugar-cane stalk, Río Piedras.

<sup>1</sup> The majority of the determinations in this family by Dr. E. A. Burt.

CORTICIUM ARACHNOIDEUM Berk.

On soil and sugar-cane trash, Río Piedras.

CORTICIUM CONFLUENS Fr.

On dead citrus branch, Campo Alegre (96).

CORTICIUM CONTIGUUM Karst.

On dead wood, Río Piedras.

CORTICIUM DEBILE B. & C.

On dead wood, Río Piedras.

CORTICIUM INVESTIENS (Schw.) Bres.

On dead wood, Río Piedras, Martín Peña.

CORTICIUM KOLEROGA (Cooke) v. Höhn.

(*Pellicularia koleroga* Cooke.)

On *Coffea arabica*, Mayagüez (Thomas). The status of *Pellicularia koleroga* determined by Dr. Burt. ("Corticiums causing plant diseases." In Ann. Mo. Bot. Garden, v. 5, no. 2, April 1918, p. 119-132.) For additional Porto Rican data see under *Pellicularia*.

CORTICIUM LACTESCENS Berk.

On dead wood, Río Piedras.

CORTICIUM PORTENTOSUM B. & C.

On dead wood, Fajardo, Campo Alegre, Río Piedras, Martín Peña.

CORTICIUM SALMONICOLOR B. & Br.

On *Citrus decumana*, Río Piedras, Trujillo Alto, Garrochales, Espinosa (86, 89, 96).

*Citrus sinensis*, Pueblo Viejo.

*Theobroma cacao*, Mayagüez (Fawcett) (30).

CORTICIUM SIMILE B. & C.

On dead sticks, Río Piedras.

CORTICIUM SUBCONTINUUM B. & C.

On dead sticks, Río Piedras.

CORTICIUM TIPHRUM B. & C.

On dead wood, Bayamón.

CORTICIUM VAGUM B. & C.

On *Solanum tuberosum*. Reported by Barrett (6, 15), but occurrence doubtful.

HETEROCHÆTE ANDINA Pat.

On dead sticks, Bayamón.

HYMENOCHÆTE CACAO Berk.

Reported from the Sintenis collection (76).

HYMENOCHÆTE DAMÆCORNIS (Link.) Lev.

On dead wood, Adjuntas (Sintenis) (76).

HYMENOCHÆTE RUBIGINOSA (Schrad.) Lev.

On dead wood, El Duque, Río Piedras.

HYMENOCHÆTE SALLEI Berk.

On dead wood, Espinosa.

HYPOCHNUS PALLESCENS (Schw.) Burt.

(*Corticium pallescens* Schw.)

On dead wood, Río Piedras. The one collection cited by Dr. Burt in Ann. Mo. Bot. Garden, vol. 4, no. 3, Sept. 1917, pp. 267-8.

HYPOCHNUS RUBROCINCTUS Ehbg.

On dead wood, Porto Rico (Stevens) (82).

PENIOPHORA CINEREA Fr.

On dead twigs, and branches of *Citrus* spp., and other trees, Pueblo Viejo, Espinosa, Bayamón, Río Piedras, Campo Alegre (48, 89, 96).

PENIOPHORA FLAVIDO-ALBA Cooke.

On dead wood and cane trash, Río Piedras, Vega Baja, Sabana Llana (48, 96).

PENIOPHORA GALACHROA Bres.

On dead wood of *Melia azedarach*, Pueblo Viejo.

PENIOPHORA RAVENELII Cooke.

On dead wood, Río Piedras.

SEPTOBASIDIUM LILACINUM Burt.

On trunks of *Citrus decumana*, growing over lichens and debris, Bayamón, Espinosa (96).

SEPTOBASIDIUM PSEUDOPEDICELLATUM Burt.

On living branches, Mayagüez (Earle). Reported by Dr. Burt in Ann. Mo. Bot. Garden, vol. 3, no. 3, p. 329, fig. 1. (*Thelephoraceæ* of North America, VII.)

SEPTOBASIDIUM SPONGIA (B. & C.) Pat.

Growing over scale insects (*Lepidosaphes beckii*, *Chionaspis citri*) and debris on twigs and branches of *Citrus decumana*, Río Piedras, Espinosa, Pueblo Viejo, Campo Alegre, Garrochales, Vega Baja, Bayamón (94, 96).

STEREUM ALBO-BADIUM Schw.

On dead citrus wood, Vega Baja, Espinosa (96).

STEREUM CAPERATUM Berk & Mont.

On dead wood of *Inga laurina* and other trees, Río Piedras, Manatí.

## STEREUM COFFEARUM B. &amp; C.

On dead citrus twigs, Río Piedras (96).

## STEREUM ELEGANS Meyer.

On dead wood, Mayagüez (López).

## STEREUM FASCIATUM Schw.

On dead wood, Río Piedras, Bayamón, El Yunque, Comerío.

## STEREUM LOBATUM Fr.

On dead wood, Río Piedras, San Patricio (Sintenis) (76).

## STEREUM POPYRINUM Mont.

On dead wood, Espinosa.

## STEREUM STRUMOSUM Fr.

On dead wood, Bayamón.

## STEREUM TUBERCULOSUM Fr.

On dead wood, Río Piedras.

## STEREUM UMBRINUM B. &amp; C.

On dead wood, Río Piedras.

## THELEPHORA MULTIFIDA Klotzsch.

Reported from the Schwanecke collection (50).

## THELEPHORA SERICELLA B. &amp; C.

On soil, Río Piedras, Martín Peña, Espinosa.

## TREMELLODENDRON SIMPLEX Burt.

On soil, in cane field. Described in Ann. Mo. Bot. Garden, vol. 2, no. 4, pp. 742-3, from collection by Johnston (48).

## HYDNACEÆ.

## HYDNUM MULTIFIDUM (Klotzsch) P. Henn.

Reported from the Sintenis collection (76), on dead wood, Adjuntas.

## HYDNUM SACCHARI Spreng.

On dead cane trash, Río Piedras (48).

## IRPEX DISCOLOR Berk.

On rotten wood, Río Piedras.

## IRPEX FARINACEA Fries.

(*Cerrenella farinacea* [Fries.] Murrill.)

(*Poria portoricensis* Fries.)

Reported from Porto Rico (65).

## IRPEX FLAVUS Klotzsch.

Reported from the Sintenis collection (76).

## IRPEX LACTEUS Fries.

(*Irpiciporus lacteus* [Fries] Murrill.)

On dead wood, Bayamón, Río Piedras, Pueblo Viejo (65, 82).

## ODONTIA SACCHARI Burt.

On *Saccharum officinarum*, Río Piedras (13, 48, 105).

## ODONTIA SACCHARICOLA Burt.

On *Paspalum* sp., Río Piedras.

*Saccharum officinarum*, Río Piedras, Canóvanas, Cambalache, Camuy (13, 48, 105).

## ODONTIA WRIGHTII (B. &amp; C.) Pat.

On dead wood, El Duque.

## POLYPORACEÆ.

## DÆDALEA REPANDA Pers.

(*Dædalea amanitoides* Beauv.)

On dead wood, El Yunque, Santurce, Río Piedras, Moca, Juncos, Mameyes, Vega Baja, Martín Peña, Espinosa; Mona (12); Monte Alegrillo, Cabo Rojo (Stevens) (82). Reported from the Sintenis collection (76) as *Trametes elegans* (Spr.) Fr.

## FAVOLUS BRAZILIENSIS Fr.

(*Hexagona Wilsonii* Murrill.)

(*Hexagona dædalea* [Link] Murrill.)

On dead wood, El Duque, Aibonito, Mameyes; Monte Alegrillo (Stevens) (62, 82). Reported from the Sintenis collection (76) as *Favolus hispidulus* Berk.

## FAVOLUS PORTORICENSIS (Murr.) Sacc.

(*Hexagona portoricensis* Murrill.)

Reported and named from Porto Rico by Murrill (62, 65).

## FAVOLUS PSEUDOPRINCEPS (Murr.) Sacc.

(*Hexagona pseudoprinceps* Murrill.)

On dead wood, Carmelita (Earle) (61, 62).

## FOMES AUSTRALIS Fr.

(*Fomes fasciatus* Lev.)

(*Elfvigia tornata* [Pers.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, Martín Peña, El Duque; Monte Alegrillo (Stevens) (82). Reported as *Ganoderma australe* (Fr.) Pat. from the Sintenis collection (76).

## FOMES BADIUS Berk.

(*Fulvifomes Underwoodii* Murrill) (65).

(*Pyropolyporus Underwoodii* Murrill.)

On dead wood, Palo Seco (62).

## FOMES CALCITRATUS Berk &amp; Curt.

(*Fulvifomes calcitratus* [Berk & Curt.] Murrill.)

(*Pyropolyporus calcitratus* [Berk. & Curt.] Murrill.)

On dead wood. Col. N. Y. Bot. Garden (62, 65).

## FOMES DEPENDENS Murrill.

(*Fulvifomes dependens* Murrill.)

(*Pyropolyporus dependens* Murrill.)

On dead wood and sometimes as a cause of heart rot of hardwood trees, Vieques (Shafer); Mona Island (Britton) (12, 82, 102).

## FOMES EXTENSUS Lev.

(*Fulvifomes extensus* [Lev.] Murrill.)

(*Pyropolyporus extensus* [Lev.] Murrill.)

On dead wood, Pueblo Viejo.

## FOMES IGNIARIUS (L.) Fr.

(*Pyropolyporus igniarius* [L.] Murrill.)

Reported from the Sintenis collection (76). Probably *Fomes extensus*.

## FOMES LAMÆNSIS Murrill.

On dead wood, Martín Peña.

## FOMES LIGNEUS (Berk.) Cooke.

Reported from the Sintenis collection (76).

## FOMES LIGNOSUS Klotzsch.

(*Fomes auberianus* [Mont.] Murrill.)

On dead wood, Mameyes, El Duque, Pueblo Viejo, Río Piedras; Mayagüez (López); Maricao (Stevens) (82).

## FOMES LINTEUS Berk.

On dead wood, Río Piedras. Determined by Dr. Murrill as *Fomes* (*Fulvifomes*) *extensus*.

## FOMES MARMORATUS Berk.

(*Elfvíngia fasciata* [Sw.] Murrill.)

(*Elfvíngiella fasciata* [Sw.] Murrill.)

(*Fomes fasciatus* Schwartz.)

On dead wood, Naguabo, Moca, Bayamón, Aibonito, Río Piedras, Manatí, Fajardo, Mameyes, Comerío; Monte Alegrillo (Stevens) (82). Reported from the Sintenis collection (76) as *Fomes fomentarius* (L.) Fr.

## LASCHIA PEZIZOIDES B. &amp; C.

On dead wood, Río Piedras.



## LENZITES STRIATA Fr.

(*Glæophyllum striatum* [Fr.] Murrill.)

On dead wood, Río Piedras, Humacao, Bayamón, Caguas, Camuy, Espinosa, Santana; Mona Island (12); Vieques (Shafer) (82, 102).

## MERULIUS BYSSOIDEUS Burt.

On soil and cane trash, Río Piedras (48). Described by Dr. Burt in Ann. Mo. Bot. Garden, v. 4, no. 4, Nov. 1917, pp. 358-9, fig. 1. Collection by J. R. Johnston.

## MERULIUS RUGULOSUS B. &amp; C.

(*Corticium saccharinum* B. & C.)

On dead wood, Bayamón.

## MERULIUS SULPHUREUS Burt.

On rotten wood and bark, Bayamón.

## POLYPORUS AMBOINENSE Fr.

Reported as *Ganoderma amboinense* (Lam.) Pat. from the Sintenis collection (76). "The determination is in all probability wrong. Known only from the Philippines, although applied to many tropical plants, related to *Polyporus lucidus*."—Lloyd.

## POLYPORUS ANEBUS Berk.

On dead wood, Mameyes.

## POLYPORUS BLANCHETIANUS Mont.

Reported from the Sintenis collection (76). Given by Lloyd as practically a form of *P. varius*.

## POLYPORUS CHAPERI Pat.

(*Amauroderma Chaperi* [Pat.] Murrill.)

On dead wood, Santa Isabel (65).

## POLYPORUS CONCHOIDES Mont.

Reported as *Glæoporos conchoides* Mont. from the Sintenis collection (76).

## POLYPORUS CONCRESCENS Mont.

(*Rigidoporus evolutus* [Berk. & Curt.] Murrill)

On dead wood. Coll. N. Y. Bot. Garden (65).

## POLYPORUS DEALBATUS B. &amp; C.

(*Microporellus dealbatus* [B. & C.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

## POLYPORUS DISTORTUS Schw.

(*Abortiporus distortus* [Schw.] Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

## POLYPORUS FIMBRIATUS Fr.

Reported from the Sintenis collection (76) as *P. Warmingii* Berk.

## POLYPORUS FLAVESCENS Mont.

(*Tyromyces albogilvus* [Berk. & Curt.] Murrill.)

On dead trunks. Coll. N. Y. Bot. Garden (65).

## POLYPORUS FLAVIPORUM Murrill.

(*Amauroderma flaviporum* Murrill.)

On dead wood, Cortada.

## POLYPORUS FRUCTICUM Berk.

(*Inonotus corrosus* Murrill.)

On dead wood, Mona Island (Britton); Vieques (Shafer) (12, 65, 82, 102).

## POLYPORUS FULVELLUS Bres.

(*Ganoderma nitidum* Murrill.)

On dead wood, Garrochales, Río Piedras.

## POLYPORUS GILVUS Schw.

(*Hapalopilus gilvus* [Schw.] Murrill.)

On dead wood, Pueblo Viejo, Moca, Aibonito, El Yunque, Vega Baja, El Duque, Río Piedras; Maricao (Stevens); Vieques (Shafer) (82, 102). Reported from Cayey in the Sintenis collection (76) as a variety, *scruposus*.

## POLYPORUS GRACILIS Kl.

(*Polyporus obolus* Ellis & Macbr.) (65).

(*Polyporus Cowellii* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

## POLYPORUS HAVANNENSIS Berk.

(*Trametes havannensis* [Berk.] Murrill.)

On dead wood, Porto Rico (Stevens) (82). Probably referable to *Polyporus subfulvus* Berk.

## POLYPORUS HEMILEUCUS Berk &amp; Curt.

Reported from the Sintenis collection (76). Referable to *P. supinus*, or possibly *P. modestus*.

## POLYPORUS LEPRIEURII Mont.

Reported from the Sintenis collection (76).

## POLYPORUS LICNOIDES Mont.

(*Hapalopilus licnoides* [Mont.] Murrill.)

On dead wood, Fajardo, Martín Peña, El Duque, Palo Seco, Comerío, Río Piedras; Maricao (Stevens) (82).

## POLYPORUS LUCIDUS Leys.

Reported as *Ganoderma lucidum* (Leys.) Pat. from the Sintenis collection (76).

## POLYPORUS MARBLEÆ Murrill.

On dead wood, Utuado. Coll. N. Y. Bot. Garden (65).

## POLYPORUS MODESTUS Kze.

On dead wood, Fajardo (Schwanecke) (50).

## POLYPORUS NIVOSELLUS Murrill.

(*Tyromyces nivosellus* Murrill.)

Reported from Porto Rico in North Amer. Flora (62, 65).

## POLYPORUS OBTUSUS Berk.

(*Spongipellis unicolor* [Schw.] Murrill.)

Reported from Humacao in the Schwanecke collection (50) as *Polyporus unicolor* Schw.

## POLYPORUS PAPYRACEUS Fries.

Reported in North American Flora. Probably *Polystictus membranaceus* (62).

## POLYPORUS PERZONATUS Murrill.

(*Ganoderma perzonatum* Murrill.)

On dead wood. Coll. N. Y. Bot. Garden (65).

## POLYPORUS PUSILLUS Persoon.

(*Favolus rhipidium* Berk.)

(*Favolus subpulverulentus* Berk & Curt.)

(*Inonotus pusillus* [Pers.] Murrill.)

On dead and rotten wood, Pueblo Viejo, Martín Peña, Río Piedras, Comerío; Monte Alegrillo (Stevens) (82). Also reported from the Sintenis collection (76).

## POLYPORUS RUGULOSUS Lev.

Reported from Cayey in the Sintenis collection (76). "Very close to and practically the same plant as *Polyporus zonalis* Berk."—Lloyd.

## POLYPORUS SEMILACCATUS Berk.

On dead wood, Palo Seco.

## POLYPORUS SUBFULVUS Berk.

(*Coriolus ochrotinctellus* Murrill.)

On dead wood, Espinosa, Bayamón, Guaynabo, Río Piedras (65, 82).

## POLYPORUS SULPHUREUS (Bull.) Fr.

(*Latiporus speciosus* [Batt.] Murrill.)

Reported from Lares in the Sintenis collection (76).

## POLYPORUS SUPINUS Swartz.

(*Fomitella supina* [Sw.] Murrill.)

On dead wood, Arecibo, Santana, Moca, El Duque.

## POLYPORUS TRICHOLOMA Mont.

On dead wood, Martín Peña, Río Piedras, El Duque, Espinosa;  
Humacao (Schwanecke) (50).

## POLYPORUS VARIIPORUS Murrill.

On dead sticks (62, 65).

## POLYPORUS VINOSUS Berk.

(*Nigroporus vinosus* [Berk.] Murrill.)

On dead wood, Sierra de Naguabo.

## POLYPORUS ZONALIS Berk.

(*Rigidoporus surinamensis* [Miq.] Murrill.)

On dead wood, Río Piedras, Espinosa, Guaynabo, Fajardo, Palo  
Seco; El Alto de la Bandera, Monte Alegrillo (Stevens)  
(82).

## POLYSTICTUS ARMENICOLOR Berk &amp; Curt.

(*Coriolus armenicolor* [Berk. & Curt.] Pat.)

On dead wood, Río Piedras (65).

## POLYSTICTUS CROCATUS Fries. (?)

(*Corioloopsis crocata* [Fries.] Murrill.)

On dead wood, Porto Rico (Stevens) (82).

## POLYSTICTUS DRUMMONDII Klotzsch.

(*Coriolus Drummondii* [Klotzsch] Pat.)

On dead wood, Bayamón; Mayagüez (Stevens) (82).

## POLYSTICTUS ELONGATUS Berk.

On dead wood, Río Piedras. Also reported from the Sintenis  
collection (76).

## POLYSTICTUS FULVOCINEREUS Murrill.)

(*Corioloopsis fulvocinerea* Murrill.)

On dead wood, Martín Peña.

## POLYSTICTUS HÆDINUS Berk.

(*Coriolus hædinus* [Berk.] Pat.)

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

## POLYSTICTUS HIRSUTUS Fr.

(*Coriolus nigromarginatus* [Schw.] Murrill.)

Reported from Barranquitas (Sintenis) (76).

## POLYSTICTUS HIRTELLUS Fr.

(*Coriolus nigromarginatus* [Schw.] Murrill.)

On dead wood, Martín Peña, Río Piedras.

## POLYSTICTUS HOLLICKII Murrill.

(*Coriolus Hollickii* Murrill.)

On dead wood, Monte Alegrillo (Stevens) (65, 82).

## POLYSTICTUS MAXIMUS Mont.

(*Coriolus maximus* [Mont.] Murrill.)

On dead wood, Moca, Martín Peña, Manatí, Espinosa, Río Piedras; Vieques (Shafer); Cabo Rojo (Stevens) (82, 102).

## POLYSTICTUS MEMBRANACEUS Sw.

(*Coriolus membranaceus* [Sw.] Pat.)

On dead wood, Bayamón, Martín Peña, Espinosa, Pueblo Viejo, El Yunque, Comerío; Monte Alegre (Stevens) (82). Reported from the Sintenis collection (76).

## POLYSTICTUS OCCIDENTALIS Klotzsch.

(*Coriolopsis occidentalis* [Kl.] Murrill.)

On dead wood, Martín Peña, Fajardo, Palo Seco, Río Piedras, El Yunque, Vega Baja, Barceloneta, Bayamón, Guaynabo; Barceloneta (Sintenis, 76) (48, 82, 96).

## POLYSTICTUS PAVONIUS Hook.

(*Coriolus pavonius* [Hook.] Murrill.)

On dead wood, Bayamón, Río Piedras, Mameyes, El Yunque, Fajardo (82).

## POLYSTICTUS PINSITUS Fries.

(*Coriolus pinsitus* [Fries] Murrill.)

On dead wood, Río Piedras, Martín Peña, Bayamón, Espinosa, Campo Alegre, Barceloneta, Garrochales, Mameyes, Vega Alta, El Yunque; Utuado, Monte Alegre, Vega Baja, (Stevens) (82, 96); Mona (12); Vieques (Shafer) (102). Reported from Utuado in the Sintenis collection (76) as *P. umbonatus* Fr.

## POLYSTICTUS POLYZONUS Pers.

On dead wood, Río Piedras.

## POLYSTICTUS RIGENS Sacc. &amp; Cub.

(*Coriolopsis rigida* [Berk. & Mont.] Murrill.)

On dead wood, Sardinera (12, 82); Río Piedras, Martín Peña, Pueblo Viejo, El Duque, Campo Alegre, El Yunque, Santana, Arecibo, Bayamón.

## POLYSTICTUS SANGUINEUS L.

(*Pycnoporus sanguineus* [L.] Murrill.)

On dead wood, Martín Peña, Río Piedras, El Yunque, Sierra de Naguabo, Espinosa, Palo Seco, Dorado; Añasco (Stevens) (82). Also reported from the Sintenis and Schwanecke collections (50, 76), Mona Island (12), and Vieques (102).

## POLYSTICTUS SINUOSUS B. &amp; C.

*(Poria sinuosa Fr.)*

On dead cane stalks and rotten wood, Río Piedras, Gurabo, Bayamón (48, 53). Both the pileate and resupinate forms occur.

## POLYSTICTUS SPATHULATUS Hook.

*(Polyporus multififormis Mont.)**(Coltricia spathulata [Hook.] Murrill.)*

On dead wood, Martín Peña.

## POLYSTICTUS STEREINUS B. &amp; C.

*(Rigidoporus Liebmanni [Fries.] Murrill.)*

On rotten wood, El Yunque (62).

## POLYSTICTUS SUBGLABRESCENS Murrill.

*(Coriopsis subglabrescens Murrill.)*

On dead wood. Coll. N. Y. Bot. Garden (62, 65).

## POLYSTICTUS VELUTINUS Fr.

Reported from Humacao in the Schwanecke collection (50).

## POLYSTICTUS VERSICOLOR L.

*(Coriolus versicolor [L.] Quel.)*

On dead wood, Mayagüez (Stevens) (82).

## PORIA AURANTIOTINGENS Ellis &amp; Macbr.

*(Tinctoporia aurantiotingens [Ell. & Macbr.] Murrill.)*

On dead wood, Río Piedras, El Duque.

## PORIA VINCTA Berk.

On dead wood, Río Piedras.

## TRAMETES CUBENSIS (Mont.) Sacc.

On dead wood, Espinosa, El Duque, Martín Peña.

## TRAMETES HYDNOIDES Sw.

*(Pogonomyces hydnoides [Sw.] Murrill.)*

On dead wood, Martín Peña, Moca, Espinosa, Caguas, Arecibo; Mona Island (12); Monté Alegreillo (Stevens) (82). Also reported from the Sintenis collection (76).

## TRAMETES NIVOSA (Berk.) Murrill.

On dead cane stalks, Río Piedras (48).

## TRAMETES SUBMURINA Murrill.

On rotten wood, Espinosa, Palo Seco, Río Piedras, Santurce.

## TRAMETES TAYLORI Murrill.

*(Coriopsis Taylori Murrill.)*

On dead wood, Naguabo, Vega Baja (62, 65).

## AGARICACEÆ.

AGARICUS JOHNSTONII Murrill.

On humus, Río Piedras (68).

AMPHALIA LAPIDESCENS (Hor.) Cohn & Schrot.

Reported from the Sintenis collection (76).

ATYLOSPORA BYSSINA Murrill.

On dead wood, Río Piedras (67).

CAMPANULARIS CAMPANULATUS (L.) Earle.

On manure, Río Piedras (Fink.) (67).

CAMPANULARIS SOLIDIPES (Peck) Murrill.

On horse manure, Río Piedras; Utuado (Britton and Cowell);  
Mayagüez, Aibonito (Fink) (67).

CORTINARIUS SINTENISII P. Henn.

Reported from the Sintenis collection (76).

GALERA TENER (Schaeff.) Quel.

On humus, Río Piedras.

GYMNOPILUS EARLII Murrill.

On dead wood, Mayagüez (Thomas and López).

GYMNOPUS TENUIPES (Schw.) Murrill.

On dead wood, reported in N. Amer. Flora (66).

HELIOMYCES SUBAVELLANEUS Murrill.

On dead wood, Río Piedras (Shafer) (64).

LENTINULA DETONSA (Fries) Murrill.

On dead wood. Coll. N. Y. Bot. Garden (63).

LENTINUS CRINITUS (L.) Fries.

On dead wood and cane stalks, Río Piedras, Pueblo Viejo, Moca,  
Campo Alegre, Martín Peña, El Duque; Cayey (Stevens)  
(48, 82). Also reported from Mona Island (12), and from  
the Sintenis collection (76). Recorded in the Schwanecke  
collection as *Lentinus nigripes* Fr. (50).

LENTINUS HIRTUS (Fries) Murrill.

On dead wood, Río Piedras, Espinosa, Pueblo Viejo, Caguas,  
El Yunque, Gurabo, El Duque, Mameyes (63, 82).

LENTINUS LEPIDEUS Fries.

(*Lentodium squamosum* [Huds.] Murrill.)

On rotten wood, Río Piedras (63, 82).

LENTINUS SCYPHOIDES Pat.

On dead wood, Río Piedras.

LENTINUS STRIGELLUS Berk & Curt.

On dead wood. Col. N. Y. Bot. Garden (63).

LENTINUS STRIGOSUS (Schw.) Fries.

On dead wood, Moca, Río Piedras, Santana; Cabo Rojo (Stevens); Vieques (82, 102). Also from the Sintenis collection (76) as *L. Lecomtei* Fr.

LENTINUS SUBSCYPHOIDES Murrill.

On dead wood, Río Piedras (64).

LENTINUS VELUTINUS Fries.

On dead wood, Santana.

LEPIOTA CEPÆSTIPES (Sow.) Quel.

On humus, Martín Peña, Río Piedras.

LEPIOTA CRETACEA (Bul.) Murrill.

On soil in cane fields, Río Piedras.

LEPIOTA MORGANI Peck.

(*Chlorophyllum molybdites* Mass.)

On humus, Bayamón, Río Piedras.

LEPIOTA RUBROINCTA Pk. (?).

Reported by Stevens (82).

MARASMIUS BERTEROI (Lev.) Murrill.

On trunks of trees (64).

MARASMIUS BORINQUENSIS Stevenson.

On dead sugar-cane stalks, Río Piedras (48).

MARASMIUS CINEREIALBUS Murrill.

On leaf mold, Río Piedras (64).

MARASMIUS HIORAMI Murrill.

On dead and dying sugar-cane leaves and roots, Río Piedras (48, 64).

MARASMIUS JOHNSTONII Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS OBSOLETUS Murrill.

On dead wood, Río Piedras (64).

MARASMIUS PALLESCENS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PAUCIFOLIUS Murrill.

On dead leaves, Río Piedras (64).

MARASMIUS PECKII Murrill.

On dead leaves (64).

MARASMIUS PORTORICENSIS Murrill.

On leaf mold, Río Piedras (64).



## MARASMIUS SACCHARI Wakker.

On *Andropogon bicornis*, Río Piedras.

*Bromelia pinguin*, Río Piedras.

*Panicum barbinode*, Cambalache, Patillas.

*Saccharum officinarum*, Ponce, Fortuna, Río Piedras, Canóvanas, Mameyes (22, 23, 38, 40, 41, 48, 59, 91, 94, 105).

## MARASMIUS SYNODICUS (Kunze) Fries.

On dead leaves and grass, Río Piedras (64).

## MARASMIUS WILSONII Murrill.

On dead leaves, Luquillo (Wilson) (64).

## MELANOTUS FUMOSIFOLIUS Murrill.

On rotten wood, Utuado (Britton and Marble) (67).

## OMPHALOPSIS EUSPEIREA (Berk. &amp; Curt.) Murrill.

On dead wood (66).

## PANELLUS EUGRAMINUS (Mont.) Murrill.

On dead wood, El Duque, Río Piedras.

## PLICATURA OBLIQUA (B. &amp; C.) Murrill.

On dead wood, Bayamón, Río Piedras, El Yunque, Martín Peña.

## POLYMARASMIUS SARMENTOSUS (Berk.) Murrill.

On dead wood (64).

## PSATHYRELLA MINUTULA (Schaeff.) Murrill.

(*Psathyrella disseminata* Quel.)

On humus, El Yunque, Río Piedras.

## PSATHYRELLA STEVENSONII Murrill.

On garden soil, Río Piedras (67).

## SCHIZOPHYLLUM COMMUNE Fr.

(*Schizophyllum alneum* [L.] Schroet.)

(*Schizophyllum alneus* [L.] Schröet.)

On *Citrus decumana*, Río Piedras. Fruit rot, and wood rot of trunk and limbs (89, 96).

*Ipomœa batatas*, Río Piedras.

*Saccharum officinarum* (dead and dying stalks), Río Piedras, Plazuela (20, 38, 48, 105). Common everywhere on dead wood, Yabucoa, Carolina, Bayamón; Maricao, Cataño, El Gigante (Stevens) (82); Mona Island (12); Vieques (102); Adjuntas (Sintenis) (50, 76); Santurce Heller) (19).

## SCYTINOTUS DISTANTIFOLIUS Murrill.

On dead wood, grass and sugar-cane leaves, Río Piedras (48, 64).

## STROPHARIA CUBENSIS Earle.

On manure, various localities (Britton and Marble) (Fink) (68)

## PHALLACEÆ.

## CLATHRUS CANCELLATUS Tournef.

Porto Rico (Sintenis) (76). Probably should be referred to the following species.

## CLATHRUS CRISPUS Turpin.

On garden soil, Santurce.

## LATERNEA COLUMNATA Nees.

Sintenis, from Porto Rico. Reported (76) as *Clathrus columnatus*.

## LATERNEA TRISCAPA Turpin.

On garden soil, Río Piedras.

## MUTINUS CANINUS (Huds.) Fr.

Reported by Johnston at Río Piedras.

## PHALLUS INDUSIATUS Vent.

On soil, Mayagüez (Brandes); Río Piedras, Martín Peña; Adjuntas (Sintenis) (76) as *Dictyophora phalloidea*.

## LYCOPERDACEÆ.

## GEASTER MIRABILIS Mont.

On forest soil, Martín Peña; Adjuntas (Sintenis) (76).

## GEASTER SACCATUS Fr.

On humus, Río Piedras.

## GEASTER VELUTINUS Morgan.

On humus, Río Piedras.

## LYCOPERDON ALBIDUM Cooke.

On dead cane stalks and debris, Cortada, Río Piedras (48, 52).

## LYCOPERDON CRUCIATUM Rostk.

On soil and rotten wood, Río Piedras, Palo Seco.

## LYCOPERDON PUSILLUM Batsch.

On humus and cane trash, Pueblo Viejo, Río Piedras (48).

## LYCOPERDON PYRIFORME Schaeff.

(*Lycoperdon rubellum* Beck.)

On soil, Río Piedras, Barceloneta (48).

## TYLOSTOMA EXASPERATUM Mont.

On dead wood, Lares (Sintenis) (76).

## NIDULARIACEÆ.

CYATHUS EARLEI Lloyd.

On dead wood, Sabana Llana, Palo Seco.

CYATHUS PALLIDUS Berk.

On dead wood, Martín Peña, Río Piedras.

CYATHUS PÆPPIGII Tulasne.

On dead cane stalks and dead wood, Río Piedras, Fajardo (48).

CYATHUS STERCOREUS Schw.

On manure, Río Piedras.

CYATHUS STRIATUS Hudson.

*(Nidularia striata* Bull.)Reported from the Schwanecke collection (50), but would doubtless be found to be *C. pæppigii* if reexamined.

SPHÆROBOLUS STELLATUS Tode.

On cane trash and rotten wood, Río Piedras (48).

## FUNGI IMPERFECTI.

## PHOMATACEÆ.

ACTINONEMA ROSÆ (Lib.) Fr.

On leaves of *Rosa* sp., Río Piedras (94).

ASCOCHYTA NICOTIANÆ Pass.

On *Nicotiana tabacum* (8).

CINCINNOBOLUS CESATII De By.

On *Erysiphe polygoni* (?) on *Cassia tora*, San Germán (Stevens) (82).

CRYPTOSTICTIS HYSTERIOIDES Fuckel.

On dead leaves, Río Piedras.

CYTOSPORA SACCHARI Butler.

On dead and dying sugar-cane leaf-sheaths and stalks, Río Piedras, Carolina, Fajardo (48, 84, 105).

DARLUCA FILUM (Biv.) Cast.

On *Kuehneola gossypii* on *Gossypium barbadense* (Stevens).*Puccinia canne* on *Canna* sp. (Stevens).*Puccinia eleocharidis* on *Eleocharis* sp., Mayagüez (Stevens).*Puccinia gouanix* on *Gouania*, Utuado (Stevens).*Puccinia Huberi* on *Panicum trichoides*, Jayuya (Stevens).*Puccinia lantane* on *Lantana involucrata*, Quebradillas.*Puccinia polygoni-amphibii* on *Persicaria punctata*, Río Piedras.

## DARLUCA FILUM (Biv.) Cast.—Continued.

On *Puccinia rivinae* on *Rivina humilis*, Desecheo (Stevens).

*Puccinia substriata* on *Eriochloa subglabra*, Mayagüez (Stevens).

*Uredo aeschynomenis* on *Aeschynomene americana* (Stevens).

*Uromyces leptodermus*, on *Lasiacis divaricata* and *Panicum barbinode* (Stevens) (82).

*Rust* (undet.) on *Kyllingia* sp. (Sintenis) (76).

## DIPLODIA CACAOICOLA P. Henn.

On *Saccharum officinarum*, Río Piedras, Vieques, Las Monjas, (48, 94, 105).

*Theobroma cacao*, Mayagüez (20).

## DIPLODIA NATALENSIS Evans.

On *Citrus* spp., as a fruit rot, twig blight, and trunk canker, Río Piedras, Garrochales, Palo Seco, Pueblo Viejo, Espinosa, Bayamón, Campo Alegre (29, 58, 84, 89, 94, 96).

## DIPLODIA OPUNTIE Sacc.

On *Opuntia* sp., Guánica (84).

## DIPLODIA TUBERICOLA (E. &amp; E.) Taub.

On *Ipomœa batatas*, Río Piedras.

## PHOMA DESTRUCTIVA Plowr.

On *Lycopersicum esculentum*, Río Piedras (90, 94).

## PHOMA FOURCROYÆ Thüm.

On *Furcraea tuberosa*, Espinosa, Bayamón.

## PHOMOPSIS CITRI Faw.

On *Citrus decumana*, Trujillo Alto, Bayamón, Palo Seco (89, 96).

*Citrus sinensis*, Bayamón (89, 96).

## PHOMOPSIS VEXANS (Sacc. &amp; Syd.) Harter.

On *Solanum melongena*, Río Piedras (90, 94).

## PHYLLOSTICTA ADIANTICOLA Young.

On *Adiantum tenerum*, Río Piedras, Camuy; Manatí, Utuado, Quebradillas (Stevens) (103).

## PHYLLOSTICTA APII Hals.

On *Apium graveolens*, Río Piedras.

## PHYLLOSTICTA ARALIANA Young.

On *Dendropanax arboreum*, Maricao (Stevens) (103).

## PHYLLOSTICTA BATATAS E. &amp; M.

On *Ipomœa batatas*, Río Piedras (90).

## PHYLLOSTICTA BIXINA Young.

On *Bixa orellana*, Bayamón, Espinosa, Río Piedras; Maricao, San Germán, Rosario, Mayagüez, Coamo, Añasco, Adjuntas (Stevens) (103).

## PHYLLOSTICTA BORINQUENSIS Young.

On *Helicteres jamaicensis*, Palo Seco, Martín Peña; San Germán (Stevens) (103).

## PHYLLOSTICTA CISSICOLA Speg.

On *Cissus sicyoides*, Río Piedras; Vega Baja, Jájome Alto (Stevens) (103).

## PHYLLOSTICTA CITRULLINA Chester.

On *Cucurbita melo*, Río Piedras (90).

## PHYLLOSTICTA CLUSIÆ Stevens.

On *Clusia rosea*, Maricao (Stevens) (82).

## PHYLLOSTICTA COCCOLOBÆ E. &amp; E.

On *Coccoloba uvifera*, Mona Island (Stevens) (103).

## PHYLLOSTICTA COLOCASIÆ Höhnel.

On *Dieffenbachia seguine*, Monte de Oro (Stevens) (90, 103).

## PHYLLOSTICTA COLOCASICOLA Höhnel.

On *Colocasia* sp., Caguas (Stevens) (103).

## PHYLLOSTICTA COMMELINICOLA Young.

On *Commelina nudiflora*, Río Piedras, Trujillo Alto; Hormigueros (Stevens) (103).

## PHYLLOSTICTA CUCURBITACEARUM Sacc.

On *Cucumis sativus*, Río Piedras (90).

## PHYLLOSTICTA DIVERGENS Sacc.

On *Albizia lebeck*, Porto Rico (Stevens) (103).

## PHYLLOSTICTA ERYTHRINICOLA Young.

On *Erythrina micropteryx*, Aibonito; Villa Alba, Jájome Alto, Yauco, Mayagüez (Stevens) (103).

## PHYLLOSTICTA EUGENIÆ Young.

On *Eugenia buxifolia*, Mona Island (Stevens) (103).

## PHYLLOSTICTA EUPATORICOLA Rab. &amp; Bub.

On *Eupatorium odoratum*, Río Piedras, Sierra de Naguabo; Villa Alba (Stevens) (103).

## PHYLLOSTICTA GLAUCISPORA Delacr.

On *Urechites lutea*, Porto Rico (Stevens) (103).

## PHYLLOSTICTA GUANICENSIS Young.

On *Guilandina crista*, Guánica (Stevens) (103).

## PHYLLOSTICTA GUAREÆ P. Henn.

On *Guarea irichilioides*, Aguas Buenas (Stevens) (103).

## PHYLLOSTICTA HORTORUM Speg.

See *Phomopsis vexans*.

## PHYLLOSTICTA HYBISCINA E. &amp; E.

On *Abutilon umbellatum*, Mona Island (Stevens) (82).

## PHYLLOSTICTA IPOMÆE Ell. &amp; Keller.

On *Exogonium repandum*, Manatí, Mayagüez, Río Piedras, Dos Bocas (Stevens) (103).

## PHYLLOSTICTA LANTANÆ Stevens.

On *Lantana odorata*, Desecheo, Mona, Utuado, Guánica (Stevens) (82).

## PHYLLOSTICTA MOMISIANA Young.

On *Momisia iguanaca*, Coamo (Stevens) (103).

## PHYLLOSTICTA MACULICOLA Hals.

On *Cordyline terminalis*, Río Piedras, Sabana Llana.

## PHYLLOSTICTA PANDANICOLA Young.

On *Pandanus* sp., Santurce (Stevens) (103).

## PHYLLOSTICTA PANICI Young.

On *Panicum maximum*, Río Piedras; Coamo, Martín Peña (Stevens) (103).

## PHYLLOSTICTA PITHECOLOBII Young.

On *Pithecolobium unguis-cati*, Desecheo, Yauco (Stevens) (103).

## PHYLLOSTICTA PITHECOLOBII var. MONENSIS Young.

On *Pithecolobium unguis-cati*, Mona Island (Stevens) (103).

## PHYLLOSTICTA PORTORICENSIS Young.

On *Croton lucidus*, Guánica (Stevens) (103).

## PHYLLOSTICTA SACCHARI Speg.

On *Saccharum officinarum*, Gurabo, Río Piedras; Juana Díaz (Stevens) (48, 103).

## PHYLLOSTICTA SECHII Young.

On *Sechium edule*, Río Piedras; Mayagüez (Stevens) (103).

## PHYLLOSTICTA STEVENSII Young.

On *Triumfetta semitriloba*, Coamo, Villa Alba (Stevens) (103).

## PHYLLOSTICTA SUPERFICIALE Stevens.

On *passiflora sexflora*, Ponce, Monte de Oro, El Consumo, Adjuntas, Utuado, El Yunque, Jájome Alto, Maricao, Guayama (Stevens) (82).

## SEPTORIA ASIATICA Urb.

On *Centella asiatica*, Vega Baja, San Sebastián (Stevens) (34).

## SEPTORIA CHELIDONII Desm.

On *Argemone mexicana*, Guayama (Stevens) (34).

## SEPTORIA FICI-INDICÆ Vogt.

On *Opuntia dillenii*, Guánica, Santa Isabel (Stevens) (82).

## SEPTORIA GUETTARDÆ Garman.

On *Guettarda ovalifolia*, Monte Alegreillo (Stevens) (34).

## SEPTORIA LANTANÆ Garman.

On *Lantana camara*, Porto Rico (Stevens) (34).

## SEPTORIA LYCOPERSICI Speg.

On *Lycopersicum esculentum*, Río Piedras, Sabana Llana (90, 94).

## SEPTORIA MICONIÆ Garman.

On *Miconia lævigata*, Las Marías (Stevens) (34).

*Miconia impetiolaris*, Río Piedras, Sabana Llana (90, 94).

## SEPTORIA MIKANIÆ Wint.

On *Mikania* sp., El Gigante (Stevens) (82).

## SEPTORIA PETITIÆ Garman.

On *Petitia domingensis*, Río Piedras; Cabo Rojo (Stevens) (34).

## SEPTORIA PETROSELINI var. APII Br. &amp; Cav.

On *Apium graveolens*, Maricao, El Gigante, Aibonito (Stevens) (82).

## SEPTORIA PITYROGRAMME Garman.

On *Pityrogramma calomelanos*, Maricao (Stevens) (34).

## SEPTORIA ROSÆ Desm.

On *Rosa* sp., Aibonito.

## VERMICULARIA ATRICHA E. &amp; E.

On *Petiveria alliacea*, Caguas (Millspaugh). Described in *Plantæ Utowanæ*, pub. 43, Field Columbian Museum, Bot. Ser., vol. 2, no. 1.

## VERMICULARIA GRAMINICOLA West.

On dead cane stalk, Río Piedras (48).

## ZYTHIACEÆ.

## ASCHERSONIA ALEYRODIS Webber.

On *Aleyrodicus minimus*, the white fly of *Psidium guajava*, Río Piedras, Caguas, Bayamón, Espinosa; Utuado, Mayagüez, Jayuya (Stevens) (46, 82).

## ASCHERSONIA FLAVO-CITRINA P. Henn.

On *Aleyrodicus minimus*, Río Piedras, Martín Peña (46).

## ASCHERSONIA CUBENSIS B. &amp; C.

On scale insects on *Citrus* spp., Pueblo Viejo, Espinosa, Bayamón; on *Palicourea crocea*, Río Piedras; on *Zamia integrifolia* (Stevens) (82, 89, 96).

## ASHERSONIA TURBINATA Beck.

On scale insects, Río Piedras, Vega Baja, Espinosa, Dorado, Pueblo Viejo, Coamo Springs. Host insects occur on a wide range of trees and shrubs, including *Citrus* spp., *Psidium*, *Casearia*, *Zamia*, *Eugenia*, *Erythrina*, etc. (46, 89, 96).

## ZYTHIA PHASEOLI Stevens. In mss.

On *Phaseolus adenanthus*, Porto Rico (Stevens).

## LEPTOSTROMATACEÆ.

## LEPTOTHYRIUM POMI (M. &amp; F.) Sacc.

On *Citrus sinensis*, Bayamón. Found in sterile condition only (89, 96).

## MELASMIÀ COCCOLOBIÆ Stevens.

On *Coccolobis* sp., Maricao (Stevens) (82).

## MELASMIÀ INGÆ Stevens.

On *Inga laurina*, Las Marías (Stevens) (82).

## EXCIPULACEÆ.

## EPHELIS MEXICANA Fr.

See *Balansia hypoxylon*.

## MELANCONIACEÆ.

## COLLETOTRICHUM COFFEANUM Noack.

On *Coffea arabica*. Reported by Cook in Tropical Plant Diseases, p. 166 (98).

## COLLETOTRICHUM CRADWICKII Bancroft.

On *Theobroma cacao*, Mayagüez (Fawcett) (27).

## COLLETOTRICHUM CURVISETUM Stevens.

On *Hura crepitans*, Canóvanas; Añasco, Mayagüez (Stevens) (82).

## COLLETOTRICHUM ERYTHRINÆ E. &amp; E.

On *Pithecolobium unguis-cati*, Coamo, Boquerón, Guánica, Guanajibo, Mona, Desecheo (Stevens) (82).

## COLLETOTRICHUM FALCATUM Went.

On *Saccharum officinarum*, Río Piedras, Fajardo, Yauco, Canóvanas, Yabucoa, Carolina, Las Monjas, Ponce, Fortuna. For the most part on dead and dying leaves and stalks, but occasionally as a wound parasite of the stalk. (38, 40, 48, 91, 94, 105).



## COLLETOTRICHUM GLÆOSPORIOIDES Penz.

On *Citrus* spp., Río Piedras, Pueblo Viejo, Espinosa, Manatí, Bayamón, Sabana Llana, Vega Baja, Santana. Causing leaf spot, fruit spot and rot, tear staining of fruit, and withertip of terminal branches and twigs (15, 23, 26, 89, 94, 96, 98).

*Mangifera indica*, Río Piedras (23, 89, 94).

## COLLETOTRICHUM HIGGINSCANUM Sacc.

On *Brassica rapæ*, Río Piedras.

## COLLETOTRICHUM LAGENARIUM (Pers.) E. &amp; H.

On *Cucumis sativus*, Río Piedras.

*Cucurbita melo*, Río Piedras (90).

## COLLETOTRICHUM LINDEMUTHIANUM (Sacc &amp; Magn.) Scrib.

On *Phaseolus vulgaris*, Río Piedras (90, 94).

## COLLETOTRICHUM LINEOLA Cda.

On *Holcus halepense*, Sabana Llana.

*Holcus sorghum*, Trujillo Alto (94).

## COLLETOTRICHUM LOBELIÆ Stevens.

On *Lobelia assurgens* var. *Portoricensis*, Maricao (Stevens) (82).

## COLLETOTRICHUM NIGRUM E. &amp; H.

On *Capsicum annuum*, Río Piedras. Causing a rot of the fruit (90).

## COLLETOTRICHUM OMNIVORUM Hals.

On *Pandanus* sp., Sabana Llana, Río Piedras; Caguas (Stevens) (82).

## COLLETOTRICHUM PHILODENDRI P. Henn.

On *Philodendron krebsii*, Arecibo, Lares (Stevens) (82).

## COLLETOTRICHUM PHOMOIDES (Sacc.) Ches.

On *Lycopersicum esculentum*, Río Piedras (90, 94).

## COLLETOTRICHUM PIPERIS Stevens.

On *Piper umbellatum*, Río Piedras; Caguas (Stevens) (82).

## GLÆOSPORIUM HEMEROCALLIDIS E. &amp; H.

On *Hymenocallis expansa*, Bayamón.

## GLÆOSPORIUM MANIHOT Earle.

On *Manihot utilisima*, Río Piedras.

Producing a die-back of terminal twigs (90).

## GLÆOSPORIUM MELONGENÆ E. &amp; H.

On *Solanum melongena*, Río Piedras (36, 90).

## GLÆOSPORIUM MUSARUM Cke. &amp; Mass.

On *Musa paradisiaca*, Río Piedras. Common in all parts of the Island.

## GLÆOSPORIUM PIPERATUM E. &amp; E.

On *Capsicum annuum*, Río Piedras (90, 94).

*Capsicum frutescens*, Pueblo Viejo.

## GLÆOSPORIUM PSIDII G. Del.

See *Glomerella cingulata*.

## GLÆOSPORIUM RUFOMACULANS (Berk.) Thüm.

See *Glomerella cingulata*.

## GLÆOSPORIUM VANILLÆ Cke.

See *Glomerella cingulata*.

## GLÆOSPORIUM VIOLÆ B. &amp; Br.

On *Viola* sp., Mayagüez (Stevens) (82).

## MELANCONIUM SACCHARI Mass.

On dead and dying sugar-cane stalks and leaf sheaths, Yabucoa, Río Piedras, Fortuna, Aguadilla, Fajardo, Canóvanas, Carolina, Juncos, Arecibo, Barceloneta, Caguas, Quebradillas, Utuado, Isabela, Añasco, Guánica, Vega Baja, Bayamón, Toa Baja (15, 22, 23, 38, 40, 41, 44, 47, 48, 91, 94, 105).

## MELANCONIUM SACCHARINUM (?) Penz. &amp; Sacc.

On *Bambusa vulgaris*, Trujillo Alto.

*Cymbopogon citratus*, Río Piedras.

*Saccharum officinarum*, Río Piedras, Mercedita, Fajardo (41, 44, 48, 105).

## PESTALOZZIA COCCOLOBÆ E. &amp; E.

On *Coccolobis uvifera*, Boquerón (Stevens) (82).

## PESTALOZZIA FUNERA Desm.

On *Acrista monticola*, El Yunque (Stevens).

*Chrysobalanus icaco*, Santurce (Stevens).

*Clusia rosea*, Maricao (Stevens).

*Hippocratea volubilis*, Río Piedras.

*Inga vera*, Maricao (Stevens).

*Musa paradisiaca*, Rosario, Barros (Stevens).

*Pithecolobium unguis-cati*, Mona (Stevens).

*Poinciana pulcherrima*, Río Piedras; Mayagüez (Stevens) (82).

## PESTALOZZIA GUEPINIA Desm.

On *Citrus* spp., Espinosa, Río Piedras (96).

*Jambosa jambos*, Pueblo Viejo.

*Mangifera indica*, Trujillo Alto, Río Piedras (94).

## PESTALOZZIA PALMARUM Cke.

On *Acrocomia media*, Río Piedras, Espinosa.

*Areca catechu*, Río Piedras.

*Cocos nucifera*, Río Piedras, Santurce (39).

*Phœnix reclinata*, Aibonito (94).

## MONILIACEÆ.

## ACROSTALAGMUS ALBUS Pr.

On *Aphis* sp., on *Hibiscus esculentus*, *Cucumis sativus*, *Solanum melongena*, *Capsicum annuum*, *Palicourea* sp., *Eupatorium odoratum*, Río Piedras, Carolina, Comerío.

*Corythaica monacha*, on *Solanum melongena*, Río Piedras.

*Sipha flava*, on *Saccharum officinarum*, Río Piedras (46, 89).

## ARTHROBOTRYS SUPERBA Cda.

On dead and dying sugar-cane leaves and on cane debris, Río Piedras, Gurabo (48).

## ASPERGILLUS FLAVUS Link.

On *Pseudococcus sacchari*, Río Piedras, Patillas, Fajardo, Carolina, Guánica. A strain morphologically not distinguishable is common as a mold of tobacco, cloth, culture media, and other dead plant material. Also isolated from soil (46, 48, 96).

## ASPERGILLUS NIGER Van Tiegh.

Isolated from soil. Also occurs occasionally as a citrus fruit rot, and on plant material in damp chambers (48, 96).

## ASPERGILLUS ROSEUS Link.

Isolated from soil, Río Piedras.

## ASPERGILLUS TERREUS Thom.

On musty tobacco, Porto Rico. Described by Thom in Amer. Jour. of Bot., v. 5, no. 2, Feb. 1918, pp. 85-90, including mention of its occurrence in Porto Rico.

## BLASTOTRICHUM MICONIÆ Stevens.

On *Miconia levigata*, Maricao, Utuado, Aguas Buenas (Stevens) (82).

## BOTRYTIS RILEYI Farl.

On *Laphygma frugiperda*, Río Piedras, Guánica (46).

## CEPHALOSPORIUM LECANII Zimm.

On *Aspidiotus destructor*, on *Cocos nucifera*, Punta Cangrejos. *Coccus mangifera*, on *Mangifera indica*, Río Piedras.

*Pseudococcus nipæ*, on *Psidium guayaba*, and *Erythrina glauca*, Río Piedras.

CEPHALOSPORIUM LECANII Zimm.—*Continued.*

On *Saissetia hemispherica* on a wide range of trees and shrubs, Río Piedras, Espinosa, Bayamón, Vega Baja, Comerío, Sabana Llana (46, 96).

DIPLOSPORIUM ALBUM Bon. var. *fungicolum* Stevens.

On *Parodiella cayaponia* on *Cayaponia* sp., Utuado (Stevens) (82).

## METARRHIZIUM ANISOPLIÆ (Metsch.) Sor.

On *Aphodius* sp., *Canthon* sp., *Dsyncinetus barbatus*, *Ligyris tumulosus*, *Metamasius hemipterus*, *Phyllophaga* spp., *Phytalus insularis*, *Strategus titanus*, and a number of undetermined Scarabæids, an earwig, and a roach, Río Piedras, Guánica, Fajardo, Santa Isabel, Sierra de Naguabo, Añasco (46, 78, 84, 105).

## MONILIA SITOPHILA (Mont.) Sacc.

On dead sugar-cane debris after burning, Río Piedras. Common in all parts of the Island. Also observed at base of plants of *Gynerium sagittatum* and *Sabal causiarum* injured by fire (48).

## MONOGRAMMIA MICONIÆ Stevens.

On *Miconia* sp., Yabucoa (Stevens) (82).

## MONOSPORIUM UREDINICOLUM Stevens.

On *Coleosporium ipomœa* on *Ipomœa batatas* (Stevens) (82).

## OIDIUM LACTIS Fres.

Causing acetic fermentation of fruit juices, Río Piedras.

PELLICULARIA KOLEROGA Cooke.<sup>1</sup>

On *Coffea arabica*, Moca, Mayagüez. Also reported by Fawcett on *C. arabica* var. *columnaris*, *C. abcockii*, *C. laurentii*, *C. stenophylla*. This species is treated extensively in a number of publications (15, 23, 24, 28, 30, 31, 81, 82).

## PENICILLIUM CRUSTACEUM L.

On dead plant material, Río Piedras (96).

## PENICILLIUM DIGITATUM (Fr.) Sacc.

On fruit of *Citrus sinensis*, *C. decumana*, and *C. limonis*. Common in all citrus districts of the Island (58, 84, 89, 94, 96).

## PENICILLIUM DIVARICATUM Thom.

Isolated from soil, Río Piedras.

## PENICILLIUM ITALICUM Wehmer.

On fruit of *Citrus* spp. Not common (89, 96).

<sup>1</sup> See *Corticium koleroga*.

## PENICILLIUM LILACINUM Thom.

Isolated from soil, Río Piedras.

## PENICILLIUM LUTEUM Zukal.

Isolated from soil, Río Piedras.

## PIRICULARIA GRISEA (Cke.) Sacc.

(*Piricularia oryzae* Cav.)

On *Oryza sativa*, Mayagüez (Thomas).

*Syntherisma digitata*, Río Piedras.

## RAMULARIA AREOLA Atkin.

On *Gossypium barbadense* (20).

## RAMULARIA COLEOSPORIÆ Sacc.

On *Coleosporium ipomæe* on *Ipomæa batatas* (6).

## RAMULARIA CYLINDROSPORIOIDES Stevens. In mss.

On *Piper medium*, Porto Rico (Stevens).

## SPICARIA COLORANS.

On *Theobroma cacao*, Fawcett (30).

## SPOROTRICHUM GLOBULIFERUM Spig.

On insects (thrips, Drosophilid, leaf hoppers), Río Piedras, Bayamón, Espinosa (94).

## TRICHODERMA LIGNORUM (Tode) Harz.

On dead and dying sugar-cane leaves, leaf-sheaths, and stalks, Río Piedras, Cambalache, Naguabo. Common everywhere (48, 94).

## TRICHOHECIUM FUSARIOIDES Stevens.

On *Phyllachora peribebuyensis* on *Miconia* sp., Maricao (Stevens) (82).

## VERTICILLIUM HETEROCLADUM Penz.

On insects (undet.), on *Ocotea leucoxyylon* and *Nectandra* sp., Río Piedras (46).

## DEMATIACEÆ.

## ALTERNARIA DIANTHI S. &amp; H.

On *Dianthus* sp., San Juan (94).

## ALTERNARIA CITRI Pierce.

On *Citrus sinensis* (fruit), Pueblo Viejo, Bayamón, Río Piedras (84, 89, 96).

## ALTERNARIA SOLANI (E. &amp; M.) J. &amp; G.

On *Datura suaveolens*, Barros, Coamo, Aguas Buenas (Stevens) (82).

*Solanum tuberosum*, Río Piedras.

## ARTHRIINIUM SACCHARICOLA Stevenson.

On dead sugar-cane leaves, Río Piedras (48).

## BASISPORIUM GALLARUM Moll.

On dead stalks and leaves of sugar-cane and other grasses, Juncos, Río Piedras (48).

## BRACHYSPORIUM STEMPHYLIODES (Cd.) Sacc.

On *Anona montana*, Mayagüez (Stevens) (82).

## CERCOSPOA ACHYRANTHES Syd.

On *Achyranthes aspera*, Guánica, Hormigueros, Bayamón (Stevens) (82).

## CERCOSPOA ACROCOMIÆ Stevenson.

On *Acrocomia media*, Río Piedras, Espinosa (94).

## CERCOSPOA ALTERNANTHERÆ E. &amp; L.

On *Alternanthera portoricensis*, Yauco, Coamo (Stevens) (82).

## CERCOSPOA AMARYLLIDIS Ell. &amp; Ev.

On *Hymenocallis expansa*, Punta Cangrejos; Santurce, Coamo (Stevens) (104).

## CERCOSPOA ATRICINCTA H. &amp; W.

On *Crassina elegans*, Espinosa, Río Piedras (89).

## CERCOSPOA BERNARDIÆ Stevens.

On *Bernardia bernardia*, Guánica (Stevens) (82).

## CERCOSPOA BETICOLA Sacc.

On *Beta vulgaris* in var., Pueblo Viejo, Río Piedras (90, 94).

## CERCOSPOA BIFORMIS Petch.

On *Passiflora sexflora*, Mayagüez (Stevens) (82).

## CERCOSPOA BIXÆ A. &amp; N.

On *Bixa orellana*, Mayagüez, Lares, Rosario (Stevens) (82).

## CERCOSPOA BLOXAMI Beck. &amp; Br.

On *Brassica arvensis*, Río Piedras.

*Brassica integrifolia*, Río Piedras.

*Brassica japonica*, Barranquitas.

*Brassica juncea*, Río Piedras (94).

*Brassica Pe-tsai*, Río Piedras.

*Brassica rapa*, Quebradillas, Bayamón (Stevens) (90, 104).

## CERCOSPOA BORINQUENSIS Young.

On *Calapogonium orthocarpum*, Río Piedras, Mayagüez (Stevens) (104).

## CERCOSPOA BRADBURYÆ Young.

On *Bradburya pubescens*, Río Piedras; Mayagüez, El Yunque, Dos Bocas, San Germán, Guayama, Jayuya, Hormigueros, Cabo Rojo, Rosario (Stevens) (104).

## CERCOSPORA CAJANI P. Henn.

On *Cajanus indicus*, Río Piedras; Aguas Buenas, Aguada, Maricao, Añasco, Dos Bocas, Guayanilla, El Yunque, Hormigueros, Monte de Oro (Stevens) (90, 104).

## CERCOSPORA CANESCENS Ell. &amp; Mart.

On *Dolichos lablab*, Río Piedras.

*Phaseolus lunatus*, Río Piedras.

*Phaseolus vulgaris*, Río Piedras; Guayanilla (Stevens) (60, 90).

*Vigna unguiculata*, Garrochales.

## CERCOSPORA CAPSICI H. &amp; W.

On *Capsicum annum*, Río Piedras, Pueblo Viejo, Trujillo Alto (90, 94).

## CERCOSPORA CARBONACEA Miles.

On *Dioscorea alata*, Vega Alta, Cabo Rojo, Vega Baja, Añasco (Stevens) (60, 61).

## CERCOSPORA CASEARIAE Stevens.

On *Casearia guianensis*, Río Piedras; Rosario, Corozal, Mayagüez (Stevens).

*Casearia ramiflora*, Villa Alba, Caguas, El Yunque, Quebradillas, Utuado, San Germán, Cataño, Martín Peña, Mayagüez, Aguada, Aguadilla, Maricao, Vega Baja, Bayamón, Naguabo, Jayuya (Stevens).

*Casearia sylvestris*, Río Piedras, Martín Peña, Sabana Llana; Mayagüez, Coamo, Río Tanamá, Hormigueros, Lajas, Corozal, Quebradillas, Ponce, Monte de Oro, El Yunque (Stevens) (82).

## CERCOSPORA CASSAVÆ E. &amp; E.

On *Manihot utilisima*, Dos Bocas (Stevens) (104). Probably the same as *C. Henningsii*.

## CERCOSPORA CHAMÆCRISTÆ E. &amp; Keller.

On *Cassia alata*, Dos Bocas, Santurce, Añasco, Mayagüez (Stevens) (104).

*Cassia occidentalis*, Camuy, Espinosa.

## CERCOSPORA CITRULLINA Cke.

On *Citrullus vulgaris*, Punta Cangrejos, Río Piedras, Pueblo Viejo (36, 84, 90).

## CERCOSPORA COFFEICOLA B. &amp; C.

(*C. coffea* Zimm.)

On *Coffea arabica*, Espinosa, Río Piedras; Añasco, Maricao (Stevens) (27, 31, 60).

## CERCOSPORA CONSPICUA Earle.

On *Cleome spinosa*, Comerío; Mayagüez (Stevens) (21, 104).

## CERCOSPORA CRUENTA Sacc.

On *Phaseolus lunatus*. Coll. N. Y. Bot. Garden.

*Vigna unguiculata*, Río Piedras (90, 94).

## CERCOSPORA CUCURBITÆ E. &amp; E.

On *Lagenaria leucantha*, Río Piedras (90).

## CERCOSPORA CUCURBITICOLA P. Henn.

On *Cayaponia* spp., Maricao, Rosario (Stevens) (82).

## CERCOSPORA DENSISSIMA Speg.

On *Sida* sp., Mona Island (Stevens) (104).

## CERCOSPORA FLAGELLARIS E. &amp; M.

On *Phytolacca icosandra*, Maricao (Stevens) (82).

## CERCOSPORA GILBERTII Speg.

On *Iresine panniculata*, El Alto de la Bandera (Stevens) (82).

## CERCOSPORA GOSSYPINA Cke.

On *Gossypium barbadense*, Carolina.

## CERCOSPORA GUANICENSIS Young.

On *Guilandina crista*, Guánica (Stevens) (104).

## CERCOSPORA HENNINGSII Allesch.

On *Manihot utilissima*, Bayamón, Moca, Pueblo Viejo, Martín Peña; Hormigueros (Stevens) (60, 90, 94).

## CERCOSPORA HIBISCI T. &amp; Earle.

On *Hibiscus esculentus*, Río Piedras; Quebradillas, Aguadilla, Cabo Rojo (Stevens) (60, 90, 94).

*Hibiscus tiliaceus*, Camuy; Rosario, Dos Bocas, Las Marías, Maricao (Stevens) (104).

## CERCOSPORA HURÆ Stevens.

On *Hura crepitans*, Mayagüez, Añasco (Stevens) (82).

## CERCOSPORA HYDROPIPERIS (Thüm.) Speg.

On *Persicaria punctata*, Río Piedras, Mayagüez; Utuado, Coamo, Corozal, Ciales (Stevens) (104).

## CERCOSPORA LACTUCÆ STEVENSON.

On *Lactuca sativa*, Río Piedras (90, 94).

## CERCOSPORA LEPIDII Peck.

On *Lepidium virginicum*, Espinosa; Mona Island (Stevens) (104).

## CERCOSPORA LONGIPES Butler.

On *Saccharum officinarum*, Río Piedras (48, 105).



## CERCOSPORA MALACHRÆ Heald &amp; Wolf.

(*Cercospora malachræ* Young).

On *Malachra rotundifolia*, Río Piedras; San Sebastián, Ponce, Yauco, Guánica, San Germán, Vega Baja (Stevens) (104).

## CERCOSPORA MARICAOENSIS Young.

On *Teramnus uncinatus*, Maricao, Dos Bocas, Cabo Rojo (Stevens) (104).

## CERCOSPORA MIKANIACOLA Stevens.

On *Mikania* sp., Utuado, Aguada, Maricao (Stevens) (82).

## CERCOSPORA MUCUNÆ Syd.

On *Mucuna pruriens*, Utuado, Dos Bocas, Mayagüez, Añasco, Rosario, Monte Alegre (Stevens) (104).

*Stizolobium aterinium*, Río Piedras.

*Stizolobium* sp., Río Piedras, Espinosa, Vega Baja.

## CERCOSPORA NICOTIANÆ E. &amp; E.

On *Nicotiana tabacum*, Mayagüez, Bayamón, Espinosa, Sabana Llana; Quebradillas, Caguas, Ciales, Dos Bocas (Stevens) (60, 94).

## CERCOSPORA ORYZÆ Miy.

On *Oryza sativa* Río Piedras, Canóvanas.

## CERCOSPORA PERSONATA (B. &amp; C.) E.

On *Arachis hypogea*, Río Piedras, Pueblo Viejo (15, 20, 90, 94).

## CERCOSPORA PISA-SATIVÆ Stevenson.

On *Pisum sativum*, Río Piedras (90).

## CERCOSPORA PHYLLITIDIS Hume.

On *Polypodium* sp., Barros (Stevens) (104).

## CERCOSPORA PORTORICENSIS Earle.

On *Piper aduncum*, Río Piedras, Camuy; Mayagüez (Heller; Peñuelas, Juana Díaz, Coamo, Añasco, Ciales, Corozal, Adjuntas, Jájome Alto, Coamo Springs, Arecibo (Stevens) 19, 82).

*Piper hispidum*, Bayamón; Maricao, Rosario (Stevens) (104).

*Piper peltatum*, Río Piedras.

*Piper umbellatum*, Maricao, Arecibo (Stevens) (82).

*Piper* sp., Río Piedras, Martín Peña, Palo Seco.

## CERCOSPORA RICINELLA Sacc. &amp; Berl.

On *Ricinus communis*, Palo Seco, Naguabo, Espinosa; Jayuya, Yauco, Peñuelas, Utuado, Coamo (Stevens) (82, 94).

## CERCOSPORA RIGOSPORA Atks.

On *Solanum nigrum*, Río Piedras.

## CERCOSPORA ROSICOLA (Pass.) Sacc.

On *Rosa*, spp., Garrochales, Espinosa, Arecibo, Río Piedras; Maricao (Stevens) (89, 94, 104).

## CERCOSPORA SECHILÆ Stevenson. (In ed.)

On *Sechium edule*, Río Piedras, Barceloneta (36, 90).

## CERCOSPORA SESAMI Zimm.

On *Sesamum orientale*, Garrochales, Río Piedras (90).

## CERCOSPORA SIMULATA E. &amp; E.

On *Cassia alata*. Coll. N. Y. Bot. Garden. Probably the same as *C. chamæcristæ*.

## CERCOSPORA STEVENSII Young.

On *Andira jamaicensis*, Dos Bocas (Stevens) (104).

## CERCOSPORA THOUINIÆ Stevens.

On *Thouinia striata*, Maricao (Stevens) (82).

## CERCOSPORA TRICHOPHILA Stevens.

On *Helicteres jamaicensis*, Peñuelas (Stevens).

*Solanum torvum*, Mayagüez, Utuado, Vega Baja, Río Tanamá, Monacillo, Manatí, Mona Island (Stevens).

*Solanum verbascifolium*, Río Piedras; El Gigante, El Alto de la Bandera (Stevens) (82).

## CERCOSPORA TRICHOSTIGMÆ Stevens.

On *Trichostigma octandra*, Barceloneta, Río Piedras (Stevens) (82).

## CERCOSPORA VAGINÆ Kruger.

On *Saccharum officinarum*, Cambalache, Arecibo, Fajardo, Río Piedras, Los Caños (38, 48, 94, 105).

## CERCOSPORA VIGNÆ Racib.

On *Vigna unguiculata*, Río Piedras (84, 90).

## CERCOSPORA VIOLÆ Sacc.

On *Viola* sp., Campo Alegre, Río Piedras, Vega Baja (89).

## CERCOSPORIDIUM HELLERI Earle.

On *Sphenoclea zeylanica*, Canóvanas; Mayagüez (Stevens) (19, 82).

## CERCOSPORIUM BETICOLA (?).

On "beans" as a root rot, P. R. Agri. Exp. Sta. Report 1903. Given by Cook (Dis. of Tropical Plants, p. 230) as *C. urticola*.

## CLADOSPORIUM CALOTROPIDIS Stevens.

On *Calotropis procera*, Guayanilla (Stevens) (82).

## CLADOSPORIUM (?) CITRI Mass.

On *Citrus aurantium*, Trujillo Alto, Sabana Llana, Naguabo, Bayamón.

*Citrus decumana*, Río Piedras, Palo Seco, Sabana Llana, Bayamón, Vega Baja, Espinosa, Manatí, Barceloneta, Garrochales, Santana, Naguabo, Mayagüez, Pueblo Viejo.

*Citrus limonia*, Bayamón, Pueblo Viejo, Palo Seco, Sabana Llana.

*Citrus nobilis*, Bayamón.

*Citrus sinensis*, Trujillo Alto, Bayamón.

An extended bibliography (6, 8, 15, 20, 22, 23, 27, 84, 88, 89, 93, 94, 96, 99).

## CLADOSPORIUM FULVUM Cke.

On *Lycopersicum esculentum*, Río Piedras; Cabo Rojo, Utuado, Florida, Caguas (Stevens) (36, 82, 90, 94).

*Solanum torvum*, Río Piedras.

## CLADOSPORIUM GUANICENSIS Stevens.

On *Argemone mexicana*, Palo Seco; Guánica, Coamo (Stevens) (82).

## CLADOSPORIUM HERBARUM Link.

On *Canna* sp., Río Piedras; Mayagüez, Aibonito (Stevens).

*Canna coccinia*, Villa Alba (Stevens).

*Canna glauca*, Utuado (Stevens).

*Canavalia obtusifolia*, Boquerón (Stevens) (82).

Dead and dying flowers, leaves and stems of *Zea Mays*, *Sesbania grandiflora*, *Bauhinia* sp., *Saccharum officinarum*, *Solanum melongena*, Bayamón, Río Piedras, Trujillo Alto (48, 96).

## CLADOSPORIUM HYPOPHLOEM B. &amp; C.

On *Thouinia* sp. Coll. N. Y. Bot. Garden (Heller).

## CLADOSPORIUM MANSONI Cast. and Chalmers.

As a cause of a human skin disease, black ringworm (49).

## CLADOSPORIUM MIKANLÆ Stevens.

On *Mikania* sp., Las Marías (Stevens) (82).

## ELLISIELLA PORTORICENSIS Stevens.

On *Clusia rosea*, Arecibo, Desecheo, Lajas, Hormigueros (Stevens) (82).

## HAPLOGRAPHIUM ECHINATUM (Riv.) Sacc.

Isolated from soil, Río Piedras.

## HAPLOGRAPHIUM PORTORICENSE Stevens. In mss.

On *Canna coccinia*, Porto Rico (Stevens).

## HELMINTHOSPORIUM CALADII Stevens.

On *Caladium bicolor*, Guaynabo, Río Piedras; Mayagüez, Manatí, Añasco (Stevens) (82).

## HELMINTHOSPORIUM GLABROIDES Stevens.

On *Perisporium portoricense* on *Calophyllum calaba* (Stevens) (82).

## HELMINTHOSPORIUM MAYAGUEZENSE Miles.

On *Paspalum conjugatum*, Río Piedras; Mayagüez, Dos Bocas, San Germán, Añasco, Maricao (Stevens) (60, 61).

## HELMINTHOSPORIUM RAVENELII Berk &amp; Curt.

On *Sporobolus indicus*, Río Piedras; Jájome Alto, El Alto de la Bandera (Stevens) (82).

## HELMINTHOSPORIUM SACCHARI Butler.

On *Saccharum officinarum*, Río Piedras, Camuy, Cambalache, Quebradillas, Barceloneta (48, 94, 105).

## HELMINTHOSPORIUM SECHICOLA Stevenson. (In ed.)

On *Sechium edule*, Camuy (90).

## HELMINTHOSPORIUM SPICULIFERUM E. &amp; E.

On *Thrinax* sp., Utuado (Stevens) (82).

## HELMINTHOSPORIUM STAHLII Stevens.

On *Passiflora foetida*, Mayagüez, Luquillo, Naguabo (Stevens) (82).

## HELMINTHOSPORIUM TURCINUM Pass.

On *Zea mays*, Mayagüez, Río Piedras (94).

## HELMINTHOSPORIUM VARRONIAE Stevens.

On *Varronia* sp., Florida (Stevens) (82).

## HORMIACTELLA SACCHARI Johnston.

On dead leaves of sugar cane and other grasses, Río Piedras, Naguabo, Ponce, Yauco, Canóvanas, Mameyes, Añasco (48).

## MACROSPORIUM PORRI Ell.

On *Allium cepa*, San Juan, Río Piedras.

## MICROCLAVA COCCOLOBLÆ Stevens.

On *Coccoloba diversifolia*, Maricao (Stevens) (82).

## MICROCLAVA MICONIÆ Stevens.

On *Miconia laevigata*, Aguas Buenas (Stevens) (82).

## NAPICLADIUM FUMAGO Speg.

On *Miconia* sp., Arecibo (Stevens) (82).

## PASSALORA CECROPLÆ Stevens.

On *Cecropia peltata*, Arecibo (Stevens) (82).

## PERICONIA PYCNOSPORA Fres.

On *Xanthosoma* sp. (*Yautía*). Reported from Mayagüez (7, 8, 15, 90).

## PERICONIA SACCHARI Johnston.

On dead and dying sugar-cane leaves, Río Piedras, Fajardo (48).

## SEPTONEMA SACCHARI Johnston &amp; Stevenson.

On dead sugar-cane leaves and stalks, Río Piedras (48).

## TETRACOCOSSIPORIS SACCHARI Stevenson.

On sugar-cane debris, Río Piedras (48).

## TETRAPLOA ARISTATA B. &amp; Br.

On dead sugar-cane stalks and leaves, Río Piedras (48).

## THIELAVIOPSIS PARADOXA (De Seynes) V. Hohn.

On *Ananas sativus*, causing a fruit rot occurring in all sections of the Island (94).

*Cocos nucifera*, causing a trunk-bleeding disease (Fawcett, 26).

*Saccharum officinarum*, Río Piedras, Yabucoa, Canóvanas, Fajardo, Arecibo (23, 26, 38, 40, 41, 44, 48, 87, 91, 94, 105).

## TRIPOSPORIUM STELLIGERUM Speg.

On *Anona montana*, Mayagüez (Stevens).

*Chiococca alba*, Vega Baja (Stevens).

*Myrcia deflexa*, El Alto de la Bandera (Stevens).

*Rudolphia volubilis*, Maricao, El Yunque (Stevens).

*Winterana canella*, Guayanilla (Stevens).

*Zamia integrifolia* (Stevens) (82).

## VERTICICLADIUM GRAMINICOLUM Johnston &amp; Stevenson.

On dead cane leaves, Río Piedras (48).

## ZYGOSPORIUM OSCHIOIDES Mont.

On *Pucciniopsis caricae* on *Carica papaya*, Río Piedras (60, 94).

## STILBACEÆ.

## DENDROGRAPHIUM ATRATUM Massee.

On dead wood, Mameyes.

## GIBELLULA ARACHNOPHILA Sacc.

On spiders of the family *Attidae*, Río Piedras, Vega Baja, Espinosa (46).

## GRAPHIUM SACCHARI Speg.

On dead sugar-cane stalks, Río Piedras, Gurabo (48).

## GRAPHIUM SQUARROSUM Ell. &amp; Langl.

On dead bamboo, Río Piedras.

## ISARIA BARBERI Giard.

*(Cordyceps Barberi* Giard.)

On larvæ of *Diatræa saccharalis*, Río Piedras, Guánica, Santa Isabel, Patillas (46).

## ISARIA SAUSSUREI Cooke.

On *Bothriocera* sp., on *Palicourea crocea*, Río Piedras.

## ISARIA UMBRINA Pers.

On dead wood, Río Piedras.

## ISARIOPSIS GRISEOLA Sacc.

On *Phaseolus lunatus*, Río Piedras; Mayagüez (Thomas).

*Phaseolus vulgaris*, Río Piedras, Barceloneta, Camuy; Jayuya, Mayagüez, Dos Bocas (Stevens) (60, 90, 94).

## PODOSPORIUM PALLIDA Pat.

On *Meliola amphitricha* on *Randia aculeata*. Coll. N. Y. Bot. Garden.

## STILBELLA FLAVIDA Lind.

*(Stilbum flavidum* Cooke.)

On *Bryophyllum pinnatum*, Maricao (Stevens).

*Citrus sinensis*, *Cissus sicyoides*, *Commelina* sp., *Inga vera*, *Mangifera indica* (Fawcett) (31).

*Coffea arabica*, Mayagüez; Dos Bocas, Jayuya, Ponce, Monte de Oro, Maricao, El Gigante, Arecibo-Lares (Stevens). Frequently reported by Fawcett and others (6, 8, 15, 20, 23, 24, 26, 30, 31, 81, 82). Also noted by T. C. McClelland on *C. excelsa*, *C. macrocarpa*, *C. perrieri*, *C. robusta*, *C. sp. var. Quillou*; and by Fawcett on *C. stenophylla*, *C. arabica* var. *Columnaris*, *C. laurentii* (30).

*Elephantopus mollis*, Jayuya, Monte de Oro (Stevens).

*Piper macrophyllum*, Monte de Oro (Stevens).

*Psychotria uliginosa*, El Alto de la Bandera (Stevens).

*Synedrella nodiflora*, Ponce (Stevens) (82).

## TUBERCULARIACEÆ.

## AEGERITA WEBBERI Faw.

On *Aleyrodicus minimus* on *Psidium guayaba*, Río Piedras, Espinosa (46).

## EPICOCUM NEGLECTUM Desm.

On *Cestrum* sp., Cabo Rojo (Stevens) (82).

## FUSARIUM CUBENSIS Er. Sm.

On *Musa paradisiaca*, Isabela, Mayagüez, Río Piedras, Moca. Causing a serious trunk rot (10, 11, 32).

## FUSARIUM LIMONIS Bri.

On *Citrus decumana* (*C. limonis* root), Espinosa, Garrochales, Bayamón, Pueblo Viejo, Sabana Llana (94, 96).

## FUSARIUM RADICICOLA Wollenw.

On *Musa sapientum*. Mentioned by Pratt in Jour. Agri. Research, v. 3, no. 9, p. 299, in connection with a study of the fungus on other hosts.

## FUSARIUM SOLANI (Mart.) Sacc.

On *Vanilla planifolia*, Mayagüez (Thomas).

## ILLOSPORIUM COMMELINÆ Stevens.

On *Commelina longicaulis*, Caguas, Rosario, Las Marías, Guayánilla, Hormigueros (Stevens).

*Commelina virginica*, Aguada, El Gigante (Stevens) (82).

## MICROCERA FUJIKUROI Miy. &amp; Saw.

On *Chrysomphalus aonidium* on *Citrus decumana*, Pueblo Viejo. *Lepidosaphes beckii* on *Citrus decumana*, and *C. sinensis*, Bayamón, Mayagüez, Pueblo Viejo.

*Pseudoanidia articulatus*, on *Citrus decumana*, Pueblo Viejo (85, 89).

## MYROTHECIUM VERRUCARIA (A. &amp; S.) Dtm.

On dead sugar-cane leaves and dead citrus twigs, Río Piedras (48, 96).

## PUCCINIOPSIS CARICÆ Earle.

On *Carica papaya*, Río Piedras; Guánica, Vega Baja, Mona (Stevens) (20, 60, 94).

## SPEGAZZINIA ORNATA Sacc.

On dead sugar-cane leaves and other plant debris, Río Piedras, Ponce, Santa Isabel, Cortada, Sabana Llana (48).

## TUBERCULARIA COCCICOLA Stevenson.

On *Lepidosaphes beckii* and *Chionaspis citri*, on *Citrus decumana* and *C. sinensis*, Espinosa, Río Piedras, Pueblo Viejo, Bayamón (94, 96).

## TUBERCULARIA SACCHARICOLA Speg.

On dead sugar-cane stalks, Río Piedras, Las Monjas, Carolina (48).

## STERILE MYCELIA.

## HIMANTIA STELLIFERA Johnston.

On *Andropogon bicornis*, Río Piedras.

*Cymbopogon citratus*, Río Piedras.

*Cyperus sphacelatus*, Río Piedras.

*Dichromena ciliata*, Río Piedras.

## HIMANTIA STILLIFERA Johnston.—Continued.

On *Heliotropium indicum*, Río Piedras.

*Panicum laxum*, Río Piedras.

*Panicum maximum*, Río Piedras.

*Paspalum paniculatum*, Río Piedras.

*Paspalum plicatulum*, Río Piedras.

*Paspalum secans*, Río Piedras.

*Paspalum millegrana*, Río Piedras.

*Paspalum virgatum*, Río Piedras.

*Saccharum officinarum*, Río Piedras, Cambalache, Juncos, Carolina, Guayama, Camuy, Isabela, Humacao, Peñuelas (23, 48, 91, 94, 105).

*Rynchospora cyperoides*, Río Piedras.

*Sporobolus indica*, Río Piedras.

*Stenotaphrum secundatum*, Río Piedras.

*Syntherisma digitata*, Río Piedras.

*Zea mays*, Toa Baja.

## OZONIUM STUPOSUM Pers.

Reported from the Schwanecke collection (50).

## RHIZOCTONIA SOLANI Kühn.

See *Corticium vagum*.

## SCLEROTIUM BATATICOLA Taub.

On *Ipomœa batatas*, Río Piedras. Charcoal rot.

## SCLEROTIUM GRISEUM Stevenson. (In ed.)

On *Musa paradisiaca*, Río Piedras.

*Saccharum officinarum*, Río Piedras, Hormigueros, Las Monjas (48).

*Zea mays*, Río Piedras.

## SCLEROTIUM PORTORICENSE Stevens.

On *Capriola dactylon*, Río Piedras; Santurce (Stevens) (82).

## SCLEROTIUM ROLFSII Sacc.

On *Artocarpus communis*, Bayamón.

*Bambusa vulgaris*, Río Piedras.

*Capsicum annum*, Río Piedras (94).

*Citrus decumana*, Bayamón, Sabana Llana (94, 96).

*Daucus carota*, Río Piedras.

*Lycopersicum esculentum*, Río Piedras.

*Phaseolus vulgaris*, Río Piedras.

*Saccharum officinarum*, Río Piedras, Las Monjas, Guaynabo, Hormigueros (38, 48, 94, 105).

*Solanum melongena*, Río Piedras (90, 94).



SCLEROTIUM ROLFSSII Sacc.—*Continued.*

- On *Triticum vulgare*, Mayagüez (Thomas).  
*Vicia faba*, Río Piedras.

## FUNGI OF UNKNOWN AFFINITY.

## GRAPHIOLA CONGESTA B. &amp; Rav.

Coll. N. Y. Bot. Garden. Host unknown.

## GRAPHIOLA PHENICIS (Moug.) Port.

- On *Inodes caularum*, Jayuya (Stevens) (82).  
*Phoenix dactylifera*, Santa Rita, Santurce, San Juan, Palo  
 Seco (20, 81, 82, 89, 94).  
*Thrinax præceps*, Utuado (Stevens) (82).

## PARASITIC ALGAE.

## CHROOLEPIDÆ.

## CEPHALEUROS VIRESCENS Kunze.

(*Cephaleuros mycoidea* Karst.)

(*Cephaleuros candelabrum* Lagerh.)

- On *Achras zapota*, Río Piedras.  
*Acrodiclidium salicifolium*, Hormigueros (Stevens).  
*Alchornea latifolia*, Río Piedras.  
*Artocarpus incisa*, Espinosa.  
*Cajanus indicus*, Vega Baja, Río Piedras (37).  
*Camphora officinalis*, Naguabo.  
*Casearia* sp., Río Piedras.  
*Cestrum laurifolium*, Mayagüez (Stevens) (82).  
*Chrysobalanus icacao*, Espinosa.  
*Citrus aurantifolia*, Río Piedras, Sabana Llana (96).  
*Citrus aurantium*, Palo Seco, Manatí (96).  
*Citrus decumana*, Barceloneta, Trujillo Alto, Río Piedras (89,  
 96).  
*Citrus limonia*, Caguas, Campo Alegre (96).  
*Clusia rosea*, Naguabo.  
*Coccolobis diversifolia*, Maricao (Stevens) (82).  
*Cupania americana* (Stevens) (82).  
*Cydista æquinotialis*, Río Piedras.  
*Dendropanax arboreum*, Río Tanamá (Stevens).  
*Eriobotrya japonica*, Naguabo.  
*Ficus laevigata*, Río Piedras.  
*Ficus nitida*, Río Piedras.

CEPHALEUROS VIRESCENS Kunze.—*Continued.*

On *Ficus reptans*, Bayamón.

*Hibiscus rosa-sinensis*, Río Piedras.

*Inga laurina*, Jájome Alto, Mayagüez (Stevens).

*Inga vera*, Río Piedras.

*Jambosa jambos*, Espinosa; Añasco (Stevens).

*Lasiacis sorghoidea*, Jájome Alto (Stevens) (82).

*Lonicera japonica*, Naguabo.

*Mangifera indica*, Río Piedras.

*Meibomia axillaris*, Río Piedras.

*Miconia laevigata*, Mayagüez (Stevens) (82).

*Miconia impetolaris*, Bayamón.

*Muehlenbeckia platyclada*, Río Piedras.

*Myrcia deflexa*, Mayagüez (Stevens).

*Nectandra patens* (Stevens).

*Ocotea leucoxydon*, Mayagüez (Stevens).

*Piper medium*, Río Piedras.

*Polyscias guilfoylei*, Naguabo.

*Psidium guayava*, Río Piedras, Espinosa; Mayagüez (Stevens).

*Somidesia lindeniana*, Jájome Alto (Stevens) (82).

*Theobroma cacao*, Mayagüez.

*Vanilla planifolia*, Mayagüez (Thomas).

## SUMMARY.

	Genera.	Species.
MYXOMYCETES -----	14	27
SCHIZOMYCETES -----	3	9
PHYCOMYCETES -----	10	17
 ASCOMYCETES :		
SACCAROMYCETALES -----	1	3
PERISPORIALES -----	22	141
HYPOCREALES -----	25	34
DOTHIDIALES -----	4	21
SPHÆERIALES -----	38	95
HYSTERIALES -----	2	4
PEZIZALES -----	15	19
PHACIDIALES -----	1	2
 BASIDIOMYCETES :		
USTILAGINALES -----	11	19
UREDINALES -----	20	161
AGARICALES—		
TREMELLACEÆ -----	3	8
CLAVARIACEÆ -----	1	2
THELEPHORACEÆ -----	11	41
HYDNACEÆ -----	3	9
POLYPORACEÆ -----	10	86
AGARICACEÆ -----	22	46
LYCOPERDALES -----	9	20
 FUNGI IMPERFECTI :		
PHOMATALES -----	16	72
MELANCONIALES -----	4	31
MONILIALES—		
MONILIACEÆ -----	21	31
DEMATIACEÆ -----	24	104
STILBACEÆ -----	7	10
TUBERCULARIACEÆ -----	9	13
STERILE MYCELIA, misc -----	6	10
 TOTAL -----	 312	 1,035

## HOST INDEX.

### A

- |  |   |
|--|---|
| <p> <i>Abutilon hirtum</i><br/>             <i>Puccinia heterospora</i><br/> <i>Abutilon indicum</i><br/>             <i>Puccinia heterospora</i><br/> <i>Abutilon umbellatum</i><br/>             <i>Phyllosticta hibiscina</i><br/> <i>Acacia riparia</i><br/>             <i>Ravenelia Stevensii</i><br/> <i>Acalypha bisetosa</i><br/>             <i>Meliola arecibensis</i><br/> <i>Acalypha mosaica</i><br/>             <i>Rosellinia bunodes</i><br/> <i>Achras zapota</i><br/>             <i>Cephaleuros virescens</i><br/> <i>Achyranthes aspera</i><br/>             <i>Cercospora achyranthes</i><br/> <i>Acrista monticola</i><br/>             <i>Auerswaldia palmicola</i><br/>             <i>Meliola furcata</i><br/>             <i>Pestalozzia funerea</i><br/> <i>Acrocomia media</i><br/>             <i>Cercospora acrocomiae</i><br/>             <i>Pestalozzia palmarum</i><br/> <i>Aerodictidium salicifolium</i><br/>             <i>Cephaleuros virescens</i><br/> <i>Adiantum</i> sp.<br/>             <i>Meliola pteridicola</i><br/> <i>Adiantum latifolium</i><br/>             <i>Meliola pteridicola</i><br/>             <i>Micropeltis manthæ</i> (?)<br/>             <i>Uredo gymnogrammes</i><br/> <i>Adiantum tenerum</i><br/>             <i>Phyllosticta adianticola</i><br/> <i>Aegiphila martinicensis</i><br/>             <i>Guignardia prominens</i> </p> | <p> <i>Aeschynomene americana</i><br/>             <i>Uredo aeschynomensis</i><br/> <i>Agave rigida</i> var. <i>sissalana</i><br/>             <i>Endothia Parryi</i><br/>             <i>Lembosia agaves</i><br/> <i>Ageratum conyzoides</i><br/>             <i>Puccinia rosea</i><br/> <i>Aklema petiolaris</i><br/>             <i>Puccinia euphorbiæ</i><br/> <i>Albizzia lebbek</i><br/>             <i>Phyllosticta divergens</i><br/> <i>Alchornea latifolia</i><br/>             <i>Cephaleuros virescens</i><br/>             <i>Olivea capituliformis</i><br/> <i>Allium cepa</i><br/>             <i>Macrosporium porri</i><br/>             <i>Urocystis cepulae</i><br/> <i>Allophylus crassinervis</i><br/>             <i>Meliola thouiniæ</i><br/> <i>Alpinia antillarum</i><br/>             <i>Heterothecium phyllocharis</i><br/>             <i>Phyllachora renalmiæ</i><br/> <i>Alternanthera portoricensis</i><br/>             <i>Cercospora alternantheræ</i><br/> <i>Alternanthera sessilis</i><br/>             <i>Guignardia cephalariæ</i> var.<br/>                 <i>alternantheræ</i><br/> <i>Amaranthus spinosus</i><br/>             <i>Albugo bliti</i><br/> <i>Amaranthus viridis</i><br/>             <i>Albugo bliti</i><br/> <i>Amomis caryophyllata</i><br/>             <i>Meliola amomicola</i><br/> <i>Amygdalus persica</i><br/>             <i>Tranzschelia punctata</i><br/> <i>Amyris elemifera</i><br/>             <i>Meliola monensis</i> </p> |
|--|---|

*Ananas sativus*  
   *Spegazzinia ornata*  
   *Thielaviopsis paradoxa*  
*Andira jamaicensis*  
   *Cercospora Stevensii*  
   *Meliola andiræ*  
   *Physalospora andiræ*  
*Andropogon bicornis*  
   *Himantia stellifera*  
   *Meliola panici*  
   *Myriogenospora Bresadoleana*  
   *Phyllachora luteo-maculata*  
   *Tolyposporella Brunkii*  
*Andropogon brevifolius*  
   *Phyllachora graminis*  
   *Uredo venustula*  
*Andropogon leucostachyus*  
   *Dothielœ atramentosa*  
   *Meliola panici*  
   *Phyllachora luteo-maculata*  
*Aneimia* sp.  
   *Meliola pteridicola*  
*Aneimia adiantifolia*  
   *Meliola pteridicola*  
*Anona montana*  
   *Brachysporium stemphyloides*  
   *Meliola longipoda*  
   *Triposporium stelligerum*  
*Anthurium acaule*  
   *Mycosphaerella anthurii*  
*Anthurium scandens*  
   *Uredo anthurii*  
*Apium graveolens*  
   *Bacillus carotovorus*  
   *Phyllosticta apii*  
   *Septoria petroselini* var. *apii*  
*Arachis hypogea*  
   *Cercospora personata*  
   *Uredo arachidis*  
*Ardisia guadalupensis*  
   *Meliola myrsinacearum*

*Argemone mexicana*  
   *Cladosporium guanicensis*  
   *Septoria chelidonii*  
*Aristida portoricensis*  
   *Balansia discoidea*  
   *Dothichlœ aristidæ*  
*Arracacia anthorrhiza*  
   *Erysiphe polygoni*  
*Arthrostylidium sarmentosum*  
   *Dimeriopsis arthrostylidicola*  
   *Phyllachora graminis*  
*Artocarpus camansi*  
   *Uredo artocarpi*  
*Artocarpus insisa*  
   *Cephaleuros virescens*  
   *Sclerotium Rolfsii*  
   *Uredo artocarpi*  
   *Zignoella algaphial*  
*Asclepias curassavica*  
   *Puccinia concrescens*  
   *Uromyces Howei*  
*Asclepias nivea*  
   *Puccinia concrescens*  
*Avicennia nitida*  
   *Meliola sepulta*  
*Axonopus compressus*  
   *Myriogenospora Bresadoleana*  
   *Uredo paspalicola*

## B

*Bambusa vulgaris*  
   *Melanconium saccharinum*  
   *Uredo paspalicola*  
*Banisteria laurifolia*  
   *Meliola rectangularis*  
*Bauhinia pauletia*  
   *Cladosporium herbarum*  
   *Uromyces jamaicensis*  
*Begonia decandra*  
   *Stilbella flavida*  
*Bernardia bernardia*  
   *Cercospora bernardiæ*

- Beta vulgaris*  
*Cercospora beticola*  
*Bidens leucantha*  
*Entyloma guaraniticum*  
*Sphærotheca humuli*  
*Thecaphora pustulata*  
*Uromyces bidenticola*  
*Uromyces bidentis*  
*Bidens pilosa*  
*Uromyces bidenticola*  
*Uromyces bidentis*  
*Bidens reptans*  
*Sphærotheca humuli*  
*Bihai borinquena*  
*Uredo heliconiæ*  
*Bixa orellana*  
*Cercospora bixæ*  
*Phyllosticta bixina*  
*Uredo bixæ*  
*Blechum Brownei*  
*Puccinia blechi*  
*Bletia patula*  
*Uredo nigropunctata*  
*Boerhaavea erecta*  
*Albugo platensis*  
*Boerhaavea hirsuta*  
*Albugo platensis*  
*Borreria laevis*  
*Meliola psychotriæ*  
*Puccinia lateritia*  
*Borreria ocimoides*  
*Meliola psychotriæ*  
*Borreria verticillata*  
*Puccinia lateritia*  
*Bradburya pubescens*  
*Cercospora bradburyæ*  
*Meliola bicornis*  
*Bradburya virginiana*  
*Meliola bicornis*  
*Brassica arvensis*  
*Cercospora bloxami*  
*Brassica integrifolia*  
*Albugo candida*  
*Cercospora bloxami*  
*Erysiphe polygoni*  
*Brassica japonica*  
*Cercospora bloxami*  
*Brassica juncea*  
*Bacillus carotovorus*  
*Cercospora bloxami*  
*Brassica napi*  
*Cercospora bloxami*  
*Brassica oleracea*  
*Bacterium campestris*  
*Brassica Pe-tsai*  
*Cercospora bloxami*  
*Brassica rapæ*  
*Cercospora bloxami*  
*Colletotrichum Higinseanum*  
*Bromelia pinguin*  
*Perisporium bromeliæ*  
*Bryophyllum pinnatum*  
*Stilbella flavida*  
*Byrsonima crassifolia*  
*Uredo notata*  
*Byrsonima lucida*  
*Meliola byrsonimæ*
- c
- Casalpinia pulcherrima*  
*Ravenelia Humphreyana*  
*Cajanus indicus*  
*Cephaluros virescens*  
*Cercospora cajani*  
*Creonectria graminicospora*  
*Megalonectria pseudotrichia*  
*Nectria episphæria*  
*Pleonectria megalonectria*  
*Triblidium rufulum*  
*Uromyces dolicholi*  
*Caladium bicolor*  
*Helminthosporium caladii*

- Calathea lutea*  
     *Puccinia cannæ*  
*Calophyllum calaba*  
     *Meliola calophylli*  
     *Perisporium portoricense*  
*Calopogonium orthocarpum*  
     *Cercospora borinquensis*  
     *Meliola bicornis* var. *calopogonii*  
*Calotropis procera*  
     *Cladosporium calotropidis*  
*Camphora officinalis*  
     *Cephaleuros virescens*  
*Campyloneurum* sp.  
     *Corynelia pteridicola*  
*Canavalia ensiformis*  
     *Cerotelium canavaliæ*  
*Canavalia gladiata*  
     *Cerotelium canavaliæ*  
     *Cladosporium herbarum*  
*Canavalia obtusifolia*  
     *Cladosporium herbarum*  
*Canna coccinea*  
     *Cladosporium herbarum*  
     *Haplographium portoricense*  
     *Puccinia cannæ*  
*Canna edulis*  
     *Periconia pycnospora*  
*Canna glauca*  
     *Cladosporium herbarum*  
     *Puccinia cannæ*  
*Canna indica*  
     *Myrmæcium cannæ* (?)  
*Capriola dactylon*  
     *Puccinia cynodontis*  
     *Sclerotium portoricense*  
*Capsicum annuum*  
     *Cercospora capsici*  
     *Cladosporium herbarum*  
     *Colletotrichum nigrum*  
*Capsicum annuum*—*Cont.*  
     *Gloeosporium piperatum*  
     *Pestalozzia funerea*  
     *Sclerotium Rolfsii*  
*Capsicum baccatum*  
     *Meliola capsicola*  
*Capsicum frutescens*  
     *Gloeosporium piperatum*  
*Cardiospermum microcarpum*  
     *Puccinia arechavelatæ*  
*Carica papaya*  
     *Colletotrichum falcatum*  
     *Glomerella cingulata*  
     *Pucciniopsis caricæ*  
     *Zygosporium oschioides*  
*Casearia* sp.  
     *Cephaleuros virescens*  
     *Meliola paulliniæ*  
*Casearia aculeata*  
     *Meliola paulliniæ*  
*Casearia arborea*  
     *Meliola paulliniæ*  
*Casearia guianensis*  
     *Cercospora caseariæ*  
*Casearia ramiflora*  
     *Cercospora caseariæ*  
     *Meliola paulliniæ*  
*Casearia sylvestris*  
     *Cercospora caseariæ*  
     *Meliola paulliniæ*  
*Cassia alata*  
     *Cercospora chamæcrista*  
     *Cercospora simulata*  
*Cassia emarginata*  
     *Ravenelia portoricensis*  
*Cassia fistula*  
     *Phyllachora cassiæ*  
*Cassia occidentalis*  
     *Cercospora chamæcrista*  
     *Erysiphe polygoni*

- Cassia quinquangulata*  
   *Meliola toruloidea*  
   *Uredo lutea*  
*Cassia tora*  
   *Erysiphe polygoni*  
*Cayaponia americana*  
   *Cercospora cucurbiticola*  
   *Dimerium cayaponiæ*  
   *Uromyces Hellerianus*  
*Cayaponia racemosa*  
   *Meliola cucurbitacearum*  
   *Uromyces Hellerianus*  
*Cecropia peltata*  
   *Passalora cecropiæ*  
*Cenchrus carolinianus*  
   *Puccinia cenchri*  
*Cenchrus echinatus*  
   *Phyllachora sphærosperma*  
   *Puccinia cenchri*  
*Cenchrus myosuroides*  
   *Phyllachora sphærosperma*  
*Cenchrus viridis*  
   *Puccinia cenchri*  
*Centella asiatica*  
   *Septoria asiatica*  
*Cestrum* sp.  
   *Epicoccum neglectum*  
*Cestrum laurifolium*  
   *Cephaleuros virescens*  
   *Meliola gesneriæ*  
   *Uromyces cestri*  
*Cestrum macrophyllum*  
   *Meliola gesneriæ*  
   *Uromyces cestri*  
*Chaetochloa geniculata*  
   *Puccinia substriata*  
*Chaetochloa setosa*  
   *Puccinia cameliæ*  
*Chamæcrista aeschynomene*  
   *Erysiphe polygoni*  
   *Ravenelia cassiæcola*
- Chamæcrista diphylla*  
   *Erysiphe polygoni*  
*Chamæcrista glandulosa*  
   *Meliola chamæcristæ*  
   *Ravenelia cassiæcola*  
*Chamæcrista granulata*  
   *Meliola chamæcristicola*  
*Chamæsyce brasiliensis*  
   *Microsphaera euphorbiæ*  
   *Uromyces præminens*  
*Chamæsyce hirta*  
   *Uromyces præminens*  
*Chamæsyce hypericifolia*  
   *Microsphaera euphorbiæ*  
   *Uromyces præminens*  
*Chamæsyce prostrata*  
   *Uromyces præminens*  
*Chiococca alba*  
   *Meliola chiococceæ*  
   *Meliola psychotriæ*  
   *Triposporium stelligerum*  
*Chloris petraea*  
   *Dothichloe atramentosa*  
   *Meliola panic*  
*Chrysobolanus icaco*  
   *Cephaleuros virescens*  
   *Mycosphaerella chrysobalani*  
   *Pestalozzia guepinia*  
*Chrysophyllum* sp.  
   *Meliola ocoteicola*  
*Cissus acida*  
   *Mykosyrinx cissi*  
*Cissus erosa*  
   *Mykosyrinx cissi*  
*Cissus sicyoides*  
   *Endophyllum circumscriptum*  
   *Meliola Merrillii*  
   *Mykosyrinx cissi*  
   *Phyllosticta cissicola*  
   *Stilbella flavida*



- Citrullis vulgaris*  
*Cercospora citrullina*  
*Diplodia* sp.  
*Citrus aurantifolia*  
*Cephaleuros virescens*  
*Diplodia natalensis*  
*Penicillium digitatum*  
*Citrus aurantium*  
*Cephaleuros virescens*  
*Cladosporium citri*  
*Stereum coffearum*  
*Citrus decumana*  
*Aspergillus flavus*  
*Aspergillus niger*  
*Capnodium citri*  
*Cephaleuros virescens*  
*Cladosporium citri*  
*Cladosporium herbarum*  
*Colletotrichum gloeosporioides*  
*Corticium confluens*  
*Corticium salmonicolor*  
*Daldinia concentrica*  
*Diplodia natalensis*  
*Graphis afzelii*  
*Hypoxyloa fuscopurpurea*  
*Lecanidion cyaneum*  
*Leptothyrium pomi*  
*Myrthecium verrucaria*  
*Nectria epispæria*  
*Penicillium crustaceum*  
*Penicillium digitatum*  
*Penicillium italicum*  
*Peniophora cinerea*  
*Peniophora flavido-alba*  
*Pestalozia guepinia*  
*Phomopsis citri*  
*Polystictus occidentalis*  
*Polystictus pinsitus*  
*Rhizopus nigricans*  
*Schizophyllum commune*  
*Sclerotium Rolfsii*
- Citrus decumana*—*Cont.*  
*Septobasidium lilacinum*  
*Stereum albo-badium*  
*Stictis radiata*  
*Tryblidium rufulum*  
*Ustilina vulgaris*  
*Citrus limonis*  
*Capnodium citri*  
*Cephaleuros virescens*  
*Cladosporium citri*  
*Diplodia natalensis*  
*Penicillium digitatum*  
*Citrus nobilis*  
*Cladosporium citri*  
*Diplodia natalensis*  
*Penicillium digitatum*  
*Citrus sinensis*  
*Alternaria citri*  
*Aspergillus niger*  
*Capnodium citri*  
*Cephaleuros virescens*  
*Cladosporium citri*  
*Colletotrichum gloeosporioides*  
*Corticium salmonicolor*  
*Diplodia natalensis*  
*Leptothyrium pomi*  
*Penicillium digitatum*  
*Peniophora cinerea*  
*Phomopsis citri*  
*Rhizopus nigricans*  
*Schizophyllum commune*  
*Stictis radiata*  
*Stilbella flavida*  
*Ustilina vulgaris*  
*Cleome pentaphylla*  
*Cercospora conspiciua*  
*Clibadium erosum*  
*Endophyllum decoloratum*  
*Clidemia hirta*  
*Meliola melastomacearum*

- Clidemia strigillosa*  
   *Meliola melastomacearum*  
*Clitoria cajanifolia*  
   *Uromyces neurocarpi*  
*Clitoria rubiginosa*  
   *Uromyces neurocarpi*  
*Clusia gundlachii*  
   *Mycosphærella guttiferæ*  
   *Guignardia clusiæ*  
*Clusia minor*  
   *Meliola clusiæ*  
*Clusia rosea*  
   *Cephaleuros virescens*  
   *Clithris clusiæ*  
   *Clithris minor*  
   *Dimerium melioides*  
   *Ellisiella portoricensis*  
   *Mycosphærella clusiæ*  
   *Pestalozzia funerea*  
   *Phyllosticta clusiæ*  
   *Uredo clusiæ*  
*Coccocypselum repens*  
   *Meliola glabra* var. *psychotriæ*  
*Coccolobis* sp.  
   *Cephaleuros virescens*  
   *Melasmia coccolobiæ*  
   *Meliola prætervisa*  
   *Phyllosticta coccolobæ*  
*Coccolobis diversifolia*  
   *Cephaleuros virescens*  
   *Microclava coccolobiæ*  
*Coccolobis laurifolia*  
   *Meliola rectangularis*  
*Coccolobis nivea*  
   *Trabulia portoricensis*  
*Coccolobis pyrifolia*  
   *Meliola prætervisa*  
*Coccolobis sintenisii*  
   *Meliola prætervisa*  
*Coccolobis uvifera*  
   *Lembasia coccolobæ*
- Coccolobis uvifera*—*Cont.*  
   *Pestalozzia uvifera*  
   *Uredo coccolobæ*  
*Coccothrinax alta*  
   *Meliola furcata*  
*Cocos nucifera*  
   *Pestalozzia palmarum*  
   *Thielaviopsis paradoxa*  
*Coffea* spp.  
   *Pellicularia koleroga*  
   *Stilbella flavida*  
*Coffea arabica*  
   *Cercospora coffeæ*  
   *Cercospora coffeicola*  
   *Colletotrichum coffeanum*  
   *Hemileia vastatrix*  
   *Micropeltis longispora*  
   *Pellicularia koleroga*  
   *Rosellinia bunodes*  
   *Stilbella flavida*  
*Coffea excelsa*  
   *Stilbella flavida*  
*Coffea Perrieri*  
   *Stilbella flavida*  
*Coffea robusta*  
   *Stilbella flavida*  
*Colocasia esculenta*  
   *Phyllosticta colocasicola*  
*Commelina longicaulis*  
   *Illosporium commelinæ*  
*Commelina nudiflora*  
   *Phyllosticta commelinicola*  
   *Stilbella flavida*  
*Commelina virginica*  
   *Illosporium commelinæ*  
   *Uredo commelyneæ*  
   *Uromyces commelinæ*  
*Comocladia glabra*  
   *Meliola comocladie*  
*Conocarpus erecta*  
   *Meliola lagunculariæ*

- Cordia* sp.  
   *Meliola longipoda*  
*Cordia alliodora*  
   *Puccinia cordiæ*  
*Cordia collococca*  
   *Trabutiella cordiæ*  
*Cordia corymbosa*  
   *Dimerium Stevensii*  
   *Meliola longipoda*  
*Cordia nitida*  
   *Meliola longipoda*  
*Cordia sulcata*  
   *Dimeriella cordiæ*  
*Cordyline terminalis*  
   *Phyllosticta maculicola*  
*Cosmos caudatus*  
   *Erysiphe cichoracearum*  
   *Uromyces bidentis*  
*Cosmos sulphureus*  
   *Sphærotheca humuli*  
*Cracca cinerea*  
   *Ravenelia caulicola*  
*Crassina elegans*  
   *Cercospora atricincta*  
*Crossopetalum pallens*  
   *Meliola compacta*  
*Crotalaria retusa*  
   *Dimerium grammodes*  
   *Microsphaera diffusa*  
   *Parodiella perisporioides*  
*Croton discolor*  
   *Asterina triloba*  
*Croton lucidus*  
   *Phyllosticta portoricensis*  
*Cucumis anguria*  
   *Pellicularia Koleroga*  
   *Peronoplasmodora cubensis*  
*Cucumis melo*  
   *Colletotrichum lagenarium*  
   *Mycosphaerella citrullina*  
   *Peronoplasmodora cubensis*
- Cucumis melo*—*Cont.*  
   *Phyllosticta citrullina*  
   *Phytophthora terrestria*  
*Cucumis sativus*  
   *Colletotrichum lagenarium*  
   *Peronoplasmodora cubensis*  
   *Phyllosticta cucurbitacearum*  
*Cucurbita moschata*  
   *Peronoplasmodora cubensis*  
*Cupania* sp.  
   *Meliola cupaniæ*  
*Cupania americana*  
   *Cephaleuros virescens*  
   *Meliola cupaniæ*  
   *Meliola prætervisa*  
*Cuphea parsonsia*  
   *Uredo cupheæ*  
*Cydista æquinoctialis*  
   *Cephaleuros virescens*  
   *Puccinia cuticulosa*  
*Cymbopogon citratus*  
   *Himantia stellifera*  
   *Melanconium saccharinum*  
*Cyperus* sp.  
   *Meliola cyperi*  
*Cyperus ferax*  
   *Puccinia canaliculata*  
*Cyperus giganteus*  
   *Phyllachora cyperi*  
   *Puccinia canaliculata*  
*Cyperus lævigatus*  
   *Puccinia canaliculata*  
*Cyperus ligularis*  
   *Cintractia limitata*  
*Cyperus odoratus*  
   *Puccinia canaliculata*  
*Cyperus polystachus*  
   *Puccinia canaliculata*  
*Cyperus radiatus*  
   *Puccinia canaliculata*

*Cyperus reticulatus*  
*Puccinia canaliculata*  
*Cyperus sphacelatus*  
*Cintractia axicola*  
*Puccinia canaliculata*  
*Cyperus surinamensis*  
*Puccinia canaliculata*

## D

*Dahlia variabilis*  
*Erysiphe cichoracearum*  
*Dalbergia* sp.  
*Meliola bicornis*  
*Dalbergia monetaria*  
*Meliola bicornis*  
*Datura suaveolens*  
*Alternaria solani*  
*Daucus carota*  
*Sclerotium Rolfsii*  
*Dendropanax arboreum*  
*Cephaleuros virescens*  
*Meliola didymopanicis*  
*Mycosphærella didymopanicis*  
*Phyllosticta araliana*  
*Dendropanax laurifolium*  
*Meliola didymopanicis*  
*Dianthus* sp.  
*Alternaria dianthi*  
*Dichromena ciliata*  
*Uredo dichromenæ*  
*Dichromena radicans*  
*Uredo dichromenæ*  
*Didymopanax morototoni*  
*Mycosphærella didymopanicis*  
*Dieffenbachia seguine*  
*Meliola dieffenbachiae*  
*Phyllosticta colocasiae*  
*Diodia littoralis*  
*Puccinia lateritia*  
*Diodia maritima*  
*Puccinia lateritia*

*Diodia rigida*  
*Puccinia lateritia*  
*Dioscorea alata*  
*Cercospora carbonacea*  
*Dioscorea polygonoides*  
*Uredo dioscoreae*  
*Dipholis salicifolia*  
*Meliola dipholidis*  
*Dolicholus minimus*  
*Erysiphe polygoni*  
*Uromyces dolicholi*  
*Dolicholus reticulatus*  
*Meliola bicornis*  
*Uromyces dolicholi*  
*Dolichos biflorus*  
*Erysiphe polygoni*  
*Dolichos lablab*  
*Cercospora canescens*  
*Physopella concors*  
*Dorstenia contrajerva*  
*Uredo rubescens*  
*Drymaria cordata*  
*Physalospora caryophyllini-*  
*cola*  
*Dryopteris mollis*  
*Uredo gymnogrammes*  
*Dryopteris poiteana*  
*Uredo gymnogrammes*  
*Drypetes* sp.  
*Meliola glabra*

## E

*Echinodorus cordifolius*  
*Burrillia echinodori*  
*Eleocharis capitata*  
*Puccinia eleocharidis*  
*Eleocharis cellulosa*  
*Puccinia eleocharidis*  
*Eleocharis flaccida*  
*Puccinia eleocharidis*

- Eleocharis geniculata*  
*Puccinia eleocharidis*  
*Eleocharis interstincta*  
*Puccinia eleocharidis*  
*Eleocharis mutata*  
*Puccinia eleocharidis*  
*Elephantopus mollis*  
*Coleosporium elephantopodis*  
*Stilbella flavida*  
*Eleutheranthera ruderalis*  
*Puccinia synedrellæ*  
*Emilia sonchifolia*  
*Puccinia synedrellæ*  
*Epidendrum difforme*  
*Uredo guacæ*  
*Epidendrum rigidum*  
*Uredo guacæ*  
*Eragrostis tephrosanthos*  
*Uromyces eragrostidis*  
*Erigeron pusillum*  
*Dimeriella erigeronicola*  
*Erigeron spathulata*  
*Dimeriella erigeronicola*  
*Eriobotrya japonica*  
*Cephaleuros virescens*  
*Eriochloa subglabra*  
*Gibberella pulicaris*  
*Puccinia substriata*  
*Erithalis fruticosa*  
*Meliola. psychotriæ*  
*Ernodea littoralis*  
*Puccinia lateritia*  
*Erythrina glauca*  
*Uredo cabreriana*  
*Erythrina micropteryx*  
*Meliola bicornis*  
*Phyllosticta erythrinicola*  
*Erythroxydon areolatum*  
*Uredo erythroxydonis*  
*Eugenia buxifolia*  
*Phyllosticta eugeniæ*
- Eugenia monticola*  
*Meliola Helli*  
*Eugenia Stahlii*  
*Meliola Helli*  
*Eupatorium sp.*  
*Erysiphe galeopsidia (?)*  
*Meliola compositarum*  
*Eupatorium macrophyllum*  
*Coleosporium eupatorii*  
*Eupatorium microstemum*  
*Erysiphe cichoracearum*  
*Eupatorium odoratum*  
*Meliola compositarum*  
*Phyllosticta eupatoricola*  
*Eupatorium polyodon*  
*Puccinia rosea*  
*Eupatorium portoricense*  
*Meliola compositarum var.*  
*portoricense*  
*Evolvulus nummularius*  
*Puccinia lithospermi*  
*Exogonium repandum*  
*Phyllosticta ipomoeæ*
- F
- Ficus sp.*  
*Kuehneola fici*  
*Physalospora hoyæ*  
*Ficus carica*  
*Kuehneola fici*  
*Ficus crassinervia*  
*Kuehneola fici*  
*Ficus lævigata*  
*Cephaleuros virescens*  
*Kuehneola fici*  
*Ficus lentiginosa*  
*Kuehneola fici*  
*Ficus nitida*  
*Cephaleuros virescens*  
*Nummularia bulliardii*  
*Ficus reptans*  
*Cephaleuros virescens*

*Fimbristylis diphylla*  
     *Cintractia axicola*  
     *Puccinia fimbristylidis*  
*Fimbristylis ferruginea*  
     *Cintractia axicola*  
     *Puccinia fimbristylidis*  
     *Uredo superior*  
*Fimbristylis miliacea*  
     *Puccinia fimbristylidis*  
*Fimbristylis spadicea*  
     *Uredo superior*  
*Forsteronia corymbosa*  
     *Meliola tabernæmontanæ* var.  
         *forsteroniæ*  
*Fragaria* sp.  
     *Mycosphærella fragariæ*  
*Fuirena umbellata*  
     *Uredo fuirenæ*  
*Furcræa tuberosa*  
     *Endothia parryi*  
     *Phoma fourcroyæ*

## G

*Galactia dubia*  
     *Meliola bicornis* var. *galactiæ*  
*Galactia striata*  
     *Phyllachora galactiæ*  
*Galactia tenuiflora*  
     *Phyllachora galactiæ*  
*Garcinia mangostana*  
     *Pellicularia koleroga*  
*Gesneria albiflora*  
     *Meliola gesneriæ*  
     *Nitschkia nervincola*  
*Gomiopteris guadalupensis*  
     *Uredo gymnogrammes*  
*Gonzalagunia spicata*  
     *Meliola psychotriæ*  
     *Wageria portoricensis*

*Gossypium barbadense*  
     *Cercospora gossypina*  
     *Kuehneola gossypii*  
     *Ramularia areola*  
*Gossypium brasiliense*  
     *Kuehneola gossypii*  
*Gossypium hirsutum*  
     *Kuehneola gossypii*  
*Gouania lupuloides*  
     *Meliola tenuissima*  
     *Puccinia gouaniæ*  
     *Uredo gouaniæ*  
*Gouania polygama*  
     *Puccinia gouaniæ*  
     *Uredo gouaniæ*  
*Graptophyllum pictum*  
     *Rosellinia bunodes*  
*Guarea trichilioides*  
     *Meliola guareæ*  
     *Meliola guareicola*  
     *Phyllosticta guareæ*  
*Guettarda ovalifolia*  
     *Meliola guettardæ*  
     *Meliola psychotriæ*  
     *Septoria ovalifolia*  
*Guettarda scabra*  
     *Meliola psychotriæ*  
*Guilandina crista*  
     *Cercospora guanicensis*  
     *Phyllosticta guanicensis*  
*Gymnanthes lucida*  
     *Meliola gymnanthicola*  
*Gymnogramma sulphura*  
     *Mycosphærella tyrolensis*

## H

*Habenaria maculosa*  
     *Uredo gynandrearum*  
*Hamelia erecta*  
     *Uredo hameliæ*

- Helianthus annuus*  
*Bacterium solanacearum* (?)  
*Helicteres jamaicensis*  
*Cercospora trichophila*  
*Guignardia helicteres*  
*Phyllosticta borinquensis*  
*Hemidiodia ocimifolia*  
*Aecidium borrieriæ*  
*Heterotrichum cymosum*  
*Guignardia heterotrichi*  
*Meliola melastomacearum*  
*Phyllachora peribebuyensis*  
*Hibiscus* sp.  
*Cephaleuros virescens*  
*Hibiscus esculentus*  
*Cercospora hibisci*  
*Choanephora cucurbitarum*  
*Hibiscus sabdariffa*  
*Microsphaera euphorbiæ*  
*Hibiscus tiliaceus*  
*Cercospora hibisci*  
*Meliola triumfettae*  
*Phyllachora minuta*  
*Hippocratea volubilis*  
*Botryorhiza hippocrateæ*  
*Pestalozzia funerea*  
*Holcus halepensis*  
*Colletotrichum lineole*  
*Puccinia purpurea*  
*Holcus sorghum*  
*Colletotrichum lineola*  
*Puccinia purpurea*  
*Holcus sorghum* var. *sudanensis*  
*Puccinia purpurea*  
*Hura crepitans*  
*Cercospora huræ*  
*Colletotrichum curvisetum*  
*Hydrocotyle australis*  
*Puccinia hydrocotyles*  
*Hydrocotyle umbellata*  
*Puccinia hydrocotyles*  
*Hygrophila brasiliensis*  
*Meliola irregularis*  
*Hymenæa courbaril*  
*Uredo hymenææ*  
*Hymenocallis expansa*  
*Cercospora amaryllidis*  
*Gloeosporium hemerocallidis*  
*Hypelate trifoliata*  
*Meliola glabra*  
*Hypoxis decumbens*  
*Uredo globulosa*  
*Hyptis* sp.  
*Meliola hyptidicola*  
*Hyptis atrorubens*  
*Meliola hyptidicola*  
*Puccinia medellinensis*  
*Hyptis capitata*  
*Meliola hyptidicola*  
*Pseudomeliola collapsa*  
*Puccinia hyptidis*  
*Hyptis latanifolium*  
*Meliola hyptidicola*  
*Puccinia insititia*  
*Hyptis pectinatum*  
*Meliola hyptidicola*  
*Puccinia medellinensis*  
*Hyptis suaveolens*  
*Puccinia medellinensis*  

I

*Ichmanthus pallens*  
*Dothichloe nigricans*  
*Meliola panic*  
*Puccinia substriata*  
*Ilex nitida*  
*Meliola maricænsis*

*Indiogofera suffruticosa*

*Ravenelia indigoferæ*

*Inga laurina*

*Cephaleuros virescens*

*Dimerium truncatum*

*Melasmia ingæ*

*Meliola toruloidea*

*Microstroma*

*Perisporium truncatum*

*Polystictus maximus*

*Ravenelia ingæ*

*Stereum caperatum*

*Inga vera*

*Antennularia tenuis*

*Cephaleuros virescens*

*Dimerium truncatum*

*Meliola toruloidea*

*Mycosphaerella maculiformis*

*Pestalozzia funerea*

*Ravenelia ingæ*

*Revenelia Whetzelii*

*Stilbella flavida*

*Inodes causiaram*

*Graphiola phœnicis*

*Ipomœa sp.*

*Meliola clavulata*

*Meliola ipomœæ*

*Ipomœa angustifolia*

*Coleosporium ipomœæ*

*Ipomœa batatas*

*Albugo ipomœæ-panduranæ*

*Coleosporium ipomœæ*

*Diplodia tubericola*

*Meliola clavulata*

*Meliola ipomœæ*

*Phyllosticta batatas*

*Rhizopus nigricans*

*Schizophyllum commune*

*Sclerotium bataticola*

*Ipomœa bona-nox*

*Cladosporium herbarum*

*Ipomœa cathartica*

*Meliola clavulata*

*Meliola ipomœæ*

*Meliola quadrispina*

*Ipomœa littoralis*

*Coleosporium ipomœæ*

*Ipomœa nil*

*Coleosporium ipomœæ*

*Ipomœa pes-capræ*

*Albugo ipomœæ-panduranæ*

*Ipomœa rubra*

*Coleosporium ipomœæ*

*Meliola clavulata*

*Ipomœa stolonifera*

*Coleosporium ipomœæ*

*Ipomœa tiliacea*

*Albugo ipomœæ-panduranæ*

*Meliola ipomœæ*

*Meliola clavulata*

*Ipomœa triloba*

*Puccinia crassipes*

*Iresine elatior*

*Puccinia macropoda*

*Iresine panniculata*

*Cercospora Gilbertii*

J

*Jacquemontia rodiflora*

*Albugo ipomœæ-panduranæ*

*Uromyces gemmatus*

*Jacquemontia tamnifolia*

*Albugo ipomœæ-panduranæ*

*Coleosporium ipomœæ*

*Jacquinia barbasco*

*Dimerina jacquinia*

*Jacquinia Berterii*

*Phyllachora inclusa*

*Jambosa jambos*

*Cephaleuros virescens*

*Pestalozzia funerea*

*Puccinia psidii*



*Jatropha curcas*

*Uredo jatrophiicola*

*Jatropha gossypifolia*

*Uredo jatrophiicola*

*Jatropha hernandifolia*

*Meliola jatrophae*

*Justicia verticillaris*

*Guignardia justiciae*

### K

*Krugiodendron ferreum*

*Meliola thouiniæ*

*Kyllingia brevifolia*

*Puccinia canaliculata*

*Kyllingia pumila*

*Puccinia canaliculata*

### L

*Lactuca intybacea*

*Uredo proximella*

*Lactuca sativa*

*Cercospora lactucae*

*Physarum cinereum*

*Lagenaria leucantha*

*Cercospora cucurbitae*

*Laguncularia racemosa*

*Meliola lagunculariae*

*Meliola nigra*

*Mycrothyrium lagunculariae*

*Physalospora lagunculariae*

*Lantana* sp.

*Meliola ambigua*

*Lantana camara*

*Diatrypella lantanæ*

*Meliola ambigua*

*Perisporina lantanæ*

*Phyllosticta lantanæ*

*Puccinia lantanæ*

*Septoria lantanæ*

*Lantana involucrata*

*Puccinia lantanæ*

*Lantana odorata*

*Meliola ambigua*

*Lasiacis divaricata*

*Meliola panici*

*Uromyces leptodermus*

*Lasiacis lingulata*

*Uromyces leptodermus*

*Lasiacis rusCIFolia*

*Meliola panici*

*Lasiacis Sloanei*

*Asterina fumagina*

*Meliola panici*

*Uromyces leptodermus*

*Lasiacis sorghoidea*

*Cephaleros virescens*

*Meliola panici*

*Phyllachora graminis*

*Physalospora bambusæ*

*Uromyces leptodermus*

*Leonotis nepetæfolia*

*Puccinia leonotidis*

*Lepidium* sp.

*Cercospora lepidii*

*Lepidium virginicum*

*Albugo candida*

*Cercospora lepidii*

*Leptilon canadense*

*Dimeriella erigeronicola*

*Lobelia* sp.

*Entyloma lobeliae*

*Lobelia assurgens* var. *portoricensis*

*Colletotrichum lobeliae*

*Lonchocarpus glaucifolius*

*Meliola bicornis*

*Lonicera japonica*

*Cephaleros virescens*

*Lucuma multiflora*

*Meliola lucumæ*

*Luffa ægyptica*

*Pellicularia koleroga*

*Luffa cylindrica*  
*Peronoplasmopora cubensis*  
*Lycopersicum esculentum*  
*Bacillus solanacearum*  
*Cladosporium fulvum*  
*Colletotrichum phomoides*  
*Phoma destructiva*  
*Phytophthora infestans*  
*Phytophthora terrestris*  
*Sclerotium Rolfsii*  
*Septoria lycopersici*

## M

*Macrodiscus lactiflorus*  
*Meliola furcata*  
*Magnolia portoricensis*  
*Meliola magnoliae*  
*Malachra rotundifolia*  
*Cercospora malachrae*  
*Malachra scabra*  
*Kuehneola malvicola*  
*Puccinia heterospora*  
*Mammea americana*  
*Meliola paullinae*  
*Mangifera indica*  
*Capnodium mangiferum*  
*Cephaleuros virescens*  
*Colletotrichum gloeosporioides*  
*Meliola mangiferae*  
*Pestalozzia guepinia*  
*Stilbella flavida*  
*Strigula complanata*  
*Manihot manihot*  
*Cercospora cassavae*  
*Cercospora henningsii*  
*Microsphaera euphorbiae*  
*Uromyces janiphæ*  
*Mariscus jamaicensis*  
*Meliola circinans*  
*Meliola cyperi*  
*Puccinia cladii*

*Mayepea domingensis*  
*Meliola mayepea*  
*Meliola mayepeicola*  
*Meibomia adscendens*  
*Dimerium grammodes*  
*Meliola bicornis*  
*Microsphaera diffusa*  
*Meibomia axillaris*  
*Cephaleuros virescens*  
*Meliola bicornis*  
*Uromyces hedysari-paniculati*  
*Meibomia barbata*  
*Dimerium grammodes*  
*Meibomia scorpiurus*  
*Microsphaera diffusa*  
*Uromyces hedysari-paniculati*  
*Meibomia supina*  
*Meliola bicornis*  
*Microsphaera diffusa*  
*Physopella meibomiae*  
*Meibomia tortuosum*  
*Microsphaera diffusa*  
*Uromyces hedysari-paniculati*  
*Melanthera canescens*  
*Sphaerotheca humuli*  
*Uromyces columbianus*  
*Melia azedarach*  
*Peniophora galachroa*  
*Polystictus pavonius*  
*Melothria guadalupensis*  
*Uromyces Hellerianus*  
*Metastelma lineare*  
*Puccinia obliqua*  
*Metastelma parviflorum*  
*Puccinia obliqua*  
*Miconia sp.*  
*Lembosia diffusa*  
*Monogrammia miconiae*  
*Napicladium fumago*  
*Triposporium stelligerum*

*Miconia impetiolaris*  
   *Cephaleuros virescens*  
   *Meliola melastomacearum*  
   *Septoria miconiæ*  
*Miconia lævigata*  
   *Blastotrichum miconiæ*  
   *Borinquenia miconiæ*  
   *Cephaleuros virescens*  
   *Hyalosphæra miconiæ*  
   *Meliola melastomacearum*  
   *Microclava miconiæ*  
   *Phyllachora peribebuyensis*  
   *Septoria miconiæ*  
*Miconia prasina*  
   *Meliola miconiæ*  
   *Phyllachora peribebuyensis*  
*Miconia racemosa*  
   *Meliola melastomacearum*  
*Miconia Sintensisii*  
   *Meliola miconiæicola*  
   *Phyllachora peribebuyensis*  
*Mikania* sp.  
   *Cercospora mikaniacola*  
   *Cladosporium mikaniæ*  
   *Meliola compositarum*  
   *Septoria mikaniæ*  
*Mikania cordifolia*  
   *Endophylloides portoricensis*  
*Mikania odoratissima*  
   *Endophylloides portoricensis*  
*Mikania scandens*  
   *Puccinia Spegazzini*  
*Mimosa ceratonia*  
   *Meliola bicornis*  
   *Ravenelia cæsalpiniiæ*  
*Mitracarpus portoricensis*  
   *Meliola psychotriæ*  
   *Puccinia lateritia*  
*Momisia iguanea*  
   *Phyllosticta momisiana*

*Mucuna pruriens*  
   *Cercospora mucunæ*  
   *Mycosphærella mucunæ*  
*Muehlenbeckia platyclada*  
   *Cephaleuros virescens*  
*Musa* sp.  
   *Antennularia* (?) *tenuis*  
*Musa paradisiaca*  
   *Fusarium cubense*  
   *Fusarium radicolola*  
   *Glœosporium musarum*  
   *Nectria suffulta*  
   *Pestalozzia funerea*  
   *Stilbella flavida*  
*Myrcia* sp.  
   *Cephaleuros virescens*  
*Myrcia deflexa*  
   *Cephaleuros virescens*  
   *Meliola Helleri*  
   *Triposporium stelligerum*  
*Myrcia splendens*  
   *Meliola Helleri*  
*Myrica cerifera*  
   *Meliola manca*

## N

*Nectandra* sp.  
   *Cephaleuros virescens*  
*Nectandra patens*  
   *Cephaleuros virescens*  
   *Meliola glabroides*  
*Nephrolepis rivularis*  
   *Milesia columbiensis*  
*Neurolæna lobata*  
   *Puccinia synedrellæ*  
*Nicotiana tobacum*  
   *Ascochyta nicotianæ*  
   *Bacillus solanacearum*  
   *Cercospora nicotianæ*

## O

- Ocimum micranthum  
 Sphaerotheca humuli
- Ocotea leucoxydon  
 Cephaleuros virescens  
 Meliola ocoteæ  
 Meliola ocoteicola
- Olyra latifolia  
 Asterina fumagina  
 Dimeriella olyræ  
 Meliola panici  
 Puccinia deformata
- Operculina dissecta  
 Uredo operculinæ
- Oplismenus hirtellus  
 Phyllachora puncta  
 Uredo olyræ
- Oplismenus setarius  
 Meliola panici
- Opuntia sp.  
 Diplodia opuntiae  
 Perisporiopsis Wrightii
- Opuntia dillenii  
 Septoria fici-indicæ
- Ormosia krugii  
 Puccinia ormosiæ
- Oryza sativa  
 Cercospora oryzæ  
 Piricularia grisea

## P

- Palicourea sp.  
 Meliola glabra var. psychotriæ  
 Meliola mayaguesiana
- Palicourea crocea  
 Meliola mayaguesiana  
 Puccinia fallaciosa

- Palicourea domingensis  
 Meliola glabra var. psychotriæ  
 Meliola mayaguesiana
- Palicourea riparia  
 Meliola mayaguesiana  
 Puccinia fallaciosa
- Panax plumatum  
 Rosellinia bunodes
- Pandanus sp.  
 Colletotrichum omnivorum  
 Phyllosticta pandanicola
- Panicum barbinode  
 Uromyces leptodermus
- Panicum fasciculatum  
 Puccinia Huberi
- Panicum glutinosum  
 Meliola panici
- Panicum laxum  
 Ustilaginoidea usambarensis
- Panicum maximum  
 Himantia stellifera  
 Otthia panici  
 Phyllosticta panici
- Panicum parvifolium  
 Uromyces leptodermus
- Panicum tricanthum  
 Hypocrella hypoxylon
- Panicum trichoides  
 Puccinia Huberi
- Panicum utowanæum  
 Puccinia Huberi
- Parathesis serrulata  
 Meliola parathesicola
- Paspalum conjugatum  
 Helminthosporium mayaguezense
- Myriogenospora Bresadoleana  
 Phyllachora graminis  
 Uredo paspalicola

- Paspalum fimbriatum*  
   *Puccinia levis*  
*Paspalum glabrum*  
   *Puccinia substriata*  
   *Uredo paspalicola*  
*Paspalum millegrana*  
   *Himantia stellifera*  
   *Phyllachora andropogonis*  
   *Puccinia levis*  
*Paspalum orbiculatum*  
   *Puccinia substriata*  
*Paspalum paniculatum*  
   *Puccinia substriata*  
   *Uredo paspalicola*  
*Paspalum plicatulum*  
   *Claviceps paspali*  
   *Puccinia levis*  
   *Uredo paspalicola*  
*Paspalum portoricense*  
   *Puccinia substriata*  
*Paspalum secans*  
   *Himantia stellifera*  
   *Meliola panici*  
   *Puccinia substriata*  
*Paspalum virgatum*  
   *Phyllachora cornuospora*  
*Passiflora foetida*  
   *Helminthosporium Stahlii*  
*Passiflora rubra*  
   *Aecidium passifloriicola*  
*Passiflora sexflora*  
   *Cercospora biformis*  
   *Phyllosticta superficiale*  
*Paullinia pinnata*  
   *Dexteria pulchella*  
   *Meliola Hessii*  
   *Meliola paulliniæ*  
*Pavonia racemosa*  
   *Uromyces pavoniæ*  
*Peperomia hernandifolia*  
   *Uredo piperis*
- Persea gratissima*  
   *Meliola perseæ*  
   *Mycosphaerella perseæ*  
   *Phyllachora gratissima*  
*Persicaria portoricensis*  
   *Puccinia polygони-amphibii*  
*Persicaria punctata*  
   *Cercospora hydropiperis*  
   *Puccinia polygони-amphibii*  
*Petitia domingensis*  
   *Olivea petitiæ*  
   *Septoria petitiæ*  
*Petiveria alliacea*  
   *Rosellinia bunodes*  
   *Vermicularia atricha*  
*Phaseolus sp.*  
   *Cercosporium beticola*  
   *Erysiphe polygони*  
   *Phytophthora phaseoli*  
   *Uromyces appendiculatus*  
*Phaseolus adenanthus*  
   *Erysiphe polygони*  
   *Uromyces appendiculatus*  
   *Zythia phaseoli*  
*Phaseolus lathyroides*  
   *Uromyces appendiculatus*  
*Phaseolus lunatus*  
   *Cercospora canescens*  
   *Cercospora cruenta*  
   *Dimerium grammodes*  
   *Isariopsis griseola*  
   *Physopella concors*  
*Phaseolus max*  
   *Erysiphe polygони*  
*Phaseolus vulgaris*  
   *Bacterium phaseoli*  
   *Cercospora canescens*  
   *Colletotrichum lindemuthianum*  
   *Erysiphe polygони*  
   *Isariopsis griseola*

Phaseolus vulgaris—*Cont.*

- Physarum cinereum  
 Phytophthora phaseoli  
 Phytophthora terrestris  
 Sclerotium Rolfsii  
 Uromyces appendiculatus  
 Philodendron krebsii  
 Colletotrichum philodendri  
 Meliola philodendri  
 Phœnix dactylifera  
 Graphiola phœnicis  
 Phœnix reclinata  
 Pestalozzia palmarum  
 Phyllanthus distichus  
 Schreeteriaster fenestrala  
 Phyllanthus grandifolius  
 Schreeteriaster fenestrala  
 Phyllanthus niruri  
 Schreeteriaster fenestrala  
 Phyllanthus nobilis  
 Accidium favaceum  
 Physalis sp.  
 Entyloma australe  
 Phytolacca icosandra  
 Cercospora flagellaris  
 Pilea sp.  
 Meliola Earlii  
 Pilea nummularifolia  
 Meliola Earlii  
 Pilea parietaria  
 Meliola Earlii  
 Meliola triloba  
 Pilocarpus racemosus  
 Meliola pilocarp  
 Piper sp.  
 Triposporium stelligerum  
 Piper aduncum  
 Cercospora portoricensis  
 Meliola gaillardiana

Piper aduncum—*Cont.*

- Meliola glabra  
 Meliola glabroides  
 Meliola piperis  
 Piper blattarum  
 Meliola paucipes  
 Piper hispidum  
 Cercospora portoricensis  
 Meliola contorta  
 Piper macrophyllum  
 Stilbella flavida  
 Piper marginatum  
 Guignardia pipericola  
 Piper medium  
 Cephaleuros virescens  
 Cyclodochia pulchella  
 Guignardia pipericola  
 Meliola tortuosa  
 Ramularia cylindrosporioides  
 Piper peltatum  
 Cercospora portoricensis  
 Meliola tortuosa  
 Piper umbellatum  
 Cercospora portoricensis  
 Colletotrichum piperis  
 Meliola tortuosa  
 Piptadenia peregrina  
 Ravenelia cebil  
 Pisum sativum  
 Cercospora pisa-sativæ  
 Erysiphe polygoni  
 Pitcairnia angustifolia  
 Diachea leucopoda  
 Pithecolobium saman  
 Microstroma  
 Pithecolobium unguis-cati  
 Colletotrichum erythrinae  
 Pestalozzia funerea  
 Phyllosticta pithecolobii  
 Phyllosticta pithecolobii var.  
 monensis

- Pityrogramma calomelanos*  
*Septoria pityrogrammæ*  
*Uredo gymnogrammes*  
*Pluchea odorata*  
*Uredo pluchææ*  
*Pluchea purpurascens*  
*Uredo pluchææ*  
*Plumiera alba*  
*Coleosporium plumieræ*  
*Plumiera Krugii*  
*Coleosporium plumieræ*  
*Meliola tabernæmontanæ*  
*Plumiera obtusa*  
*Coleosporium plumieræ*  
*Podocarpus coriaceus*  
*Corynelia oreophila*  
*Poinciana pulcherrima*  
*Pestalozzia funerea*  
*Polypodium sp.*  
*Cercospora phyllitidis*  
*Polyscias guilfoylei* var. *victoriae*  
*Cephaleuros virescens*  
*Nectria episphæria*  
*Portulaca oleracea*  
*Albugo portulacæ*  
*Prescottia oligantha*  
*Uredo gynandrearum*  
*Pseudelephantopus spicatus*  
*Meliola cyclopoda*  
*Psidium guajava*  
*Cephaleuros virescens*  
*Glomerella psidii*  
*Meliola psidii*  
*Puccinia psidii*  
*Psychotria sp.*  
*Meliola glabra* var. *psychotriæ*  
*Meliola psychotriæ*  
*Psychotria bertiana*  
*Meliola glabra* var. *psychotriæ*  
*Psychotria grandis*  
*Meliola glabra* var. *psychotriæ*  
*Psychotria patens*  
*Puccinia fallaciosa*  
*Psychotria pubescens*  
*Meliola glabra* var. *psychotriæ*  
*Psychotria uliginosa*  
*Stilbella flavida*  

Q

*Quamoclit coccinea*  
*Coleosporium ipomoeæ*  

R

*Rajania cordata*  
*Uredo dioscoreæ*  
*Randia aculeata*  
*Accidium abscedens*  
*Meliola psychotriæ*  
*Podosporium pallidum*  
*Rauwolfia nitida*  
*Meliola tabernæmontanæ*  
*Rauwolfia tetraphylla*  
*Meliola tabernæmontanæ*  
*Rhipsalis cassytha*  
*Phæospora cacticola*  
*Rhizophora mangle*  
*Anthostomella rhizomorphæ*  
*Rhynchosia reticulata*  
*Synchytrium decipiens*  
*Ricinus communis*  
*Cercospora ricinella*  
*Rivina humilis*  
*Puccinia rivinæ*

## Rosa spp.

Actinonema rosæ

Cercospora rosicola

Septoria rosæ

Sphærotheca humuli

## Rourea glabra

Micropeltis æruginescens

## Roystonea borinquena

Meliola denticulata

## Rubus sp.

Meliola puiggarii

## Rudolphia volubilis

Meliola rudolphiæ

Triposporium stelligerum

## Rynchospora aurea

Cintractia utriculicola

Meliola circinans

Puccinia angustatoides

## Rynchospora corymbosa

Cintractia leucoderma

Cintractia utriculicola

Puccinia angustatoides

## Rynchospora cyperoides

Guignardia rhynchosporæ

Puccinia angustatoides

## Rynchospora distans

Uromyces rhynchosporæ

## Rynchospora gigantea

Cintractia leucoderma

Meliola circinans

## Rynchospora micrantha

Uromyces rhynchosporæ

## Rynchospora setacea

Uromyces rhynchosporæ

## Rytillix granularis

Opidiella uredinis

Puccinia levis

## S

## Sabicea aspera

Uredo sabiceicola

## Saccharum officinarum

Arcyria cinerea

Arcyria denudata

Arthrimum saccharicola

Arthrotrichum superba

Aspergillus flavus

Aspergillus niger

Asterostroma cervicolor

Basisporium gallarum

Cercospora longipes

Cercospora vaginæ

Chromocrea gelatinosa

Chromocreopsis striispora

Cladoderris dentritica

Cladosporium herbarum

Colletotrichum falcatum

Corticium arachnoideum

Craterium aureum

Craterium leucocephalum

Cyathus pœppigii

Cytospora sacchari

Dictydium cancellatum

Diplodia cacaoicola

Eurotium argentinum

Fuligo septica

Gibberella pulicaris

Graphium sacchari

Guepinia palmiceps

Guepinia spathulata

Helminthosporium sacchari

Himantia stellifera

Hormiactella sacchari

Hydnum sacchari

Hypocrea rufa

Lachnea cubensis

Lentinus crinitus

Leptosphaeria sacchari

Lycogala epidendrum

Lycoperdon albidum

Lycoperdon pusillum

Lycoperdon pyriforme



*Saccharum officinarum*—*Cont.*

*Marasmius borinquensis*  
*Marasmius Hiorami*  
*Marasmius sacchari*  
*Marasmius synodicus*  
*Melanconium sacchari*  
*Melanconium saccharinum*  
*Merulius byssoideus*  
*Monilia sitophila*  
*Myrothecium verrucaria*  
*Nectria flavociliata*  
*Nectria laurentiana*  
*Odontia sacchari*  
*Odontia saccharicola*  
*Peniophora cinerea*  
*Peniophora flavido-alba*  
*Periconia sacchari*  
*Phyllosticta sacchari*  
*Physalospora tucumanensis*  
*Physarum compressum*  
*Physarum nodulosum*  
*Polystictus occidentalis*  
*Polystictus sanguineus*  
*Polystictus sinuosus*  
*Rosellinia paraguayensis*  
*Rosellinia pulveracea*  
*Schizophyllum commune*  
*Scirrha lophodermioides*  
*Sclerotium griseum*  
*Sclerotium Rolfsii*  
*Scytinotus distantifolius*  
*Septonema sacchari*  
*Spegazzinia ornata*  
*Sphaerella sacchari*  
*Sphaerobolus stellatus*  
*Stemonitis fusca*  
*Stemonitis splendens*  
*Tetracoccusporis sacchari*  
*Tetraploa aristata*  
*Thielaviopsis paradoxa*  
*Trametes nivosa*

*Saccharum officinarum*—*Cont.*

*Tremellodendron simplex*  
*Trichoderma lignorum*  
*Tubercularia saccharicola*  
*Valsa sacchari*  
*Valsaria subtropica*  
*Vermicularia graminicola*  
*Verticicladium graminicolum*  
*Xylaria apiculata*  
*Sabinea punicea*  
     *Uromyces sabineae*  
*Salvia coccinea*  
     *Puccinia farinacea*  
*Salvia occidentalis*  
     *Puccinia salviicola*  
*Sauvagesia erecta*  
     *Meliola glabra*  
     *Meliola glabroides*  
     *Uredo sauvagesiae*  
*Schæfferia frutescens*  
     *Microthyrium Urbani*  
*Schlegelia*  
     *Meliola glabroides* var. *schlegeliae*  
*Schlegelia brachyantha*  
     *Phyllachora nitens*  
*Scirpus lacustris*  
     *Puccinia scirpi*  
*Scleria* sp.  
     *Meliola cyperi*  
*Scleria canescens*  
     *Uromyces scleriae*  
*Scleria cubensis*  
     *Puccinia scleriae*  
*Scleria hirtella*  
     *Puccinia scleriicola*  
*Scleria pterota*  
     *Phyllachora scleriae*  
     *Puccinia scleriae*  
     *Uromyces scleriae*

- Sechium edule*  
     *Cercospora sechiae*  
     *Heminthosporium sechiicolum*  
     *Phyllosticta sechii*  
*Securidaca virgata*  
     *Phyllachora perforans*  
*Serjania polyphylla*  
     *Meliola serjaniae*  
*Sesamum orientale*  
     *Cercospora sesami*  
*Sida* sp.  
     *Cercospora densissima*  
*Sida carpinifolia*  
     *Asterina sidae*  
     *Dimerosporium appendiculatum*  
*Sida glutinosa*  
     *Puccinia heterospora*  
*Sida hederifolia*  
     *Puccinia heterospora*  
*Sida humilis*  
     *Puccinia heterospora*  
*Sida procumbens*  
     *Puccinia heterospora*  
*Sida spinosa*  
     *Puccinia heterospora*  
*Sida urens*  
     *Meliola molleriana*  
     *Puccinia heterospora*  
*Simaruba tulae*  
     *Meliola glabroides*  
*Smilax* sp.  
     *Meliola smilacis*  
*Smilax coriacea*  
     *Meliola smilacis*  
*Smilax domingensis*  
     *Puccinia smilacis*  
*Solanum jamaicense*  
     *Meliola solani*
- Solanum melongena*  
     *Bacillus solanacearum*  
     *Cladosporium herbarum*  
     *Gloeosporium melongenae*  
     *Phomopsis vexans*  
     *Sclerotium Rolfsii*  
*Solanum nigrum*  
     *Cercospora rigospora*  
*Solanum persicifolium*  
     *Meliola glabroides*  
*Solanum rugosum*  
     *Meliola glabroides*  
*Solanum torvum*  
     *Aecidium tubulosum*  
     *Cercospora trichophila*  
     *Cladosporium fulvum*  
     *Erysiphe cichoracearum*  
     *Puccinia substriata*  
*Solanum tuberosum*  
     *Alternaria solani*  
     *Phytophthora infestans*  
     *Rhizoctonia solani* (?)  
*Solanum verbascifolium*  
     *Cercospora trichophila*  
*Somidesia lindeniana*  
     *Cephaleuros virescens*  
*Spermacoce riparia*  
     *Puccinia lateritia*  
*Spermacoce tenuior*  
     *Puccinia lateritia*  
*Sphenoclea zeylanica*  
     *Cercosporidium Helli*  
*Spondias mombin*  
     *Meliola comoeladiae*  
*Sporobolus indicus*  
     *Helminthosporium Ravenellii*  
     *Uromyces ignobilis*  
*Sporobolus virginicus*  
     *Uromyces ignobilis*  
*Stenolobium stans*  
     *Prosopidium appendiculatum*

- Stenorrhynchus lanceolatus*  
     *Uredo pustulata*  
*Stenotaphrum secundatum*  
     *Meliola stenotaphri*  
     *Ustilago affinis*  
*Stigmaphyllon lingulatum*  
     *Puccinia inflata*  
*Stizolobium* sp.  
     *Cercospora mucunæ*  
*Stizolobium aterinium*  
     *Cercospora mucunæ*  
*Struchium sparganophorum*  
     *Uredo sparganophori*  
*Synedrella nodiflora*  
     *Puccinia synedrellæ*  
     *Stilbella flavida*  
*Syntherisma digitata*  
     *Piricularia grisea*  
     *Puccinia substriata*  
*Syntherisma sanguinalis*  
     *Mycosphærella maydis*
- T
- Tabebuia hæmantha*  
     *Meliola bidentata*  
     *Mycosphærella tabebuia*  
*Tabernaemontana oppositifolia*  
     *Meliola tabernaemontana*  
*Tagetes erecta*  
     *Puccinia tageticola*  
*Tagetes patula*  
     *Puccinia tageticola*  
*Tamonea* sp.  
     *Hypocrella tamonea*  
*Tecoma* sp.  
     *Meliola tecomæ*  
*Tecoma pentaphylla*  
     *Meliola bidentata*  
     *Meliola tecomæ*  
     *Prosopodium plagiopus*
- Tectaria marteniensis*  
     *Uredo gymnogrammes*  
*Teramnus uncinatus*  
     *Cercospora maricaoensis*  
     *Meliola bicornis*  
     *Uredo concors*  
     *Uromyces cologania*  
*Tetragastris balsamifera*  
     *Meliola amphitrica*  
*Tetrazygia* sp.  
     *Guignardia tetrazygiæ*  
     *Phyllachora peribebuyensis*  
*Thalia geniculata*  
     *Puccinia cannæ*  
*Theobroma cacao*  
     *Cephaleuros virescens*  
     *Colletotrichum Cradwickii*  
     *Creonectria Bainii*  
     *Diplodia cacaoicola*  
     *Nectria colorans*  
*Thouinia* sp.  
     *Cladosporium hypophloem*  
*Thouinia striata*  
     *Cercospora thouinia*  
     *Meliola thouinia*  
*Thrinax*  
     *Helminthosporium spiculiferum*  
*Thrinax ponceana*  
     *Meliola furcata*  
*Thrinax præceps*  
     *Graphiola phœnicis*  
     *Meliola furcata*  
*Tournefortia bicolor*  
     *Accidium tournefortiæ*  
*Tournefortia hirsutissima*  
     *Accidium tournefortiæ*  
     *Meliola longipoda*  
*Tournefortia microphylla*  
     *Accidium tournefortiæ*

*Trichilia pallida*  
     *Uredo trichiliae*  
*Trichostigma octandrum*  
     *Cercospora trichostigmæ*  
     *Linospora trichostigmæ*  
     *Puccinia rivinae*  
*Triticum vulgare*  
     *Sclerotium Rolfsii*  
*Triumfetta lappula*  
     *Puccinosira pallidula*  
*Triumfetta rhomboidea*  
     *Puccinosira pallidula*  
*Triumfetta semitriloba*  
     *Meliola triumfettæ*  
     *Phyllosticta Stevensii*  
     *Puccinosira pallidula*  
*Turpinia panniculata*  
     *Meliola guignardi*

## U

*Urechites lutea*  
     *Phyllosticta glaucispora*

## V

*Vachellia farnesiana*  
     *Ravenelia siliquæ*  
*Valerianodes cayennensis*  
     *Endophyllum stachytarphetæ*  
     *Meliola glabroides*  
*Valerianodes jamaicensis*  
     *Puccinia Urbaniana*  
*Valerianodes strigosa*  
     *Puccinia Urbaniana*  
*Valota insularis*  
     *Phyllachora graminis*  
     *Puccinia substriata*  
     *Sphacelotheca panici-leuco-*  
         *phæi*  
*Vanilla Eggersii*  
     *Glomerella cingulata*

*Vanilla planifolia*  
     *Cephaleuros virescens*  
     *Fusarium solani*  
     *Gloeosporium (vanillæ) rufo-*  
         *maculans*  
     *Pellicularia koleroga*  
*Varronia sp.*  
     *Helminthosporium varronia*  
     *Meliola molleriana*  
*Varronia alba*  
     *Metasphaeria abortiva*  
*Verbena sp.*  
     *Sphaerotheca humuli*  
*Vernonia albicaulis*  
     *Argomyces insulanus*  
     *Argomyces vernoniae*  
*Vernonia borinquensis*  
     *Argomyces vernoniae*  
*Vernonia longifolia*  
     *Argomyces insulanus*  
*Vernonia phyllostachya*  
     *Argomyces vernoniae*  
*Vicia faba*  
     *Sclerotium Rolfsii*  
*Vigna repens*  
     *Dimerium grammodes*  
     *Erysiphe polygoni*  
     *Uromyces appendiculatus*  
*Vigna vexillata*  
     *Hyponectria phaseoli*  
     *Uromyces appendiculatus*  
*Vigna unguiculata*  
     *Cercospora cruenta*  
     *Cercospora vignæ*  
     *Erysiphe polygoni*  
     *Physarum cinereum*  
*Viola sp.*  
     *Cercospora violæ*  
     *Gloeosporium violæ*

*Vitex divaricata*  
   *Ophiobolus barbatus*  
*Vitis vinifera*  
   *Physopella vitis*  
                   **w**  
*Wedelia lanceolata*  
   *Uredo vicina*  
*Wedelia reticulata*  
   *Uromyces pianhyensis*  
*Wedelia trilobata*  
   *Endophyllum wedeliæ*  
*Willoughbæa* sp.  
   *Meliola compositarum*  
*Winterana canella*  
   *Meliola thouiniæ*  
   *Triposporium stelligerum*  
*Wissadula periplocifolia*  
   *Puccinia heterospora*

**x**

*Xanthium longirostre*  
   *Puccinia xanthii*  
   *Sphærotheca humuli*  
*Xanthosoma sagittifolium*  
   *Periconia pycnospora*

**z**

*Zamia integrifolia*  
   *Triposporium stelligerum*  
*Zea mays*  
   *Helminthosporium turcinum*  
   *Himantia stellifera*  
   *Phyllachora maydis*  
   *Sclerotium griseum*  
   *Uredo pallida*  
   *Ustilago zeæ*  
*Zornia diphylla*  
   *Puccinia zorniiæ*

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