

Land Grant Technical Report No. 38

List of Plant Diseases in American Samoa 2002



Fred Brooks, Plant Pathologist

Land Grant Technical Report No. 44, American Samoa Community College Land Grant Program, Aug. 2002. This work was funded in part by Hatch grants SAM-015 and -020, United States Department of Agriculture, Cooperative State Research, Extension, and Education Service (CSREES) and administered by American Samoa Community College. The author bears full responsibility for its content.

The author wishes to acknowledge O.C. Steele for his assistance in plant identifications, the Land Grant Forestry crew for their work on the brown root rot survey, and M.A. Schmaedick for his continued support.

For more information on this publication, please contact:

Fred Brooks, Plant Pathologist
American Samoa Community College
Land Grant Program
Pago Pago, AS 96799
Tel. (684) 699-1394-1575
Fax (684) 699-5011
e-mail <fredbrooks@hotmail.com>

Title page: cordana leaf spot of banana caused by *Cordana musae*.

TABLE OF CONTENTS

	Page
Introduction	iv
About this text	vi
Host-pathogen index	1
Pathogen-host index	15
Fungus pathogens on insects	27
English and Samoan plant names, botanical equivalents	28
List of host plants by family	30
Partial list of pathogens recorded in American Samoa	31
Authors of plant and fungus names	34
Bibliography	36
Color plates (following page 14)	

INTRODUCTION

The Pacific islands of American Samoa are an unincorporated territory of the United States located between latitude 14°12' and 14°23' South and longitude 170°32' and 170°52' West. The five principal islands—Tutuila, Aunu'u, and the Manu'a Islands of Ofu, Olosega and Ta'u—have a land area of 197 km². They are volcanic, with narrow coastlines rising abruptly to tapered ridges. The ridges are comprised of primary and secondary forest, with 70% of the slopes greater than 30% (Wingert 1981). The highest elevations vary from 89 m on the small island of Aunu'u to 974 m on Ta'u; Matafao, 653 m, is the highest point on the main island of Tutuila.

Traditional subsistence farming is still concentrated along the coastal strips and lower slopes. Population pressure on the 140 km² island of Tutuila, however, is forcing development of slopes to 60%; approximately 90% of the more than 60,000 people in the Territory live on this island. Relatively level areas of importance are limited to the Tafuna (Leone) Plain on Tutuila and a few upland areas on the outer island of Ta'u. The wettest season is November-March, the driest season June-September. Yearly rainfall averages from 3,200 mm on the Tafuna Plain (airport) to 7,620 mm on Mt. Lata, Ta'u. The average temperature at Tafuna airport is about 28°C with an average high of 31°C and an average low of 25°C (Department of Commerce 1996).

Few plant disease epidemics have been recorded in American Samoa. This is partly due to traditional agroforestry practices. These practices include interplanting small areas of subsistence crops—taro, giant taro, tapioca, kava—among banana, breadfruit, coconut or forest trees. One recent exception was the 1993-1994 taro leaf blight epidemic caused by *Phytophthora colocasiae*. Taro (*Colocasia esculenta*) was a major crop in both American Samoa and (Western) Samoa, planted over large areas of the islands. When *P. colocasiae* arrived it rapidly spread through the susceptible Samoan cultivars. Recent establishment of leaf blight resistant taro from Micronesia has revived local production. Banana Bunchy Top Virus, devastating in many parts of the Pacific, was introduced to American Samoa in the late 1950s (Magee 1967). A recent survey showed an average of less than 5% of banana mats on Tutuila Island were infected and no sign of the disease in the Manu'a Islands (Brooks 1999). The percentage of disease in some of the commercial plantations, however was over 10%. The main limitations to banana production continue to be black leaf streak disease (*Mycosphaerella fijiensis*) and fruit damage by banana scab moth larvae (*Nacoleia octasema*). The role of nematodes is being assessed.

Previous plant disease lists for American Samoa have been based on short, infrequent visits by consultants, including Dumbleton (1954) and Firman (1975). McKenzie's work (1996) summarized these findings and others and, along with identifications from his 1989 survey, is the most complete record available. A technical paper on plant parasitic nematodes by Grandison was also published by the Secretariat of the Pacific Community (SPC) in 1996.

The following plant disease indexes present plant pathogenic organisms collected and identified in American Samoa between October 1998 and July 2002. Another section lists fungal pathogens isolated from insects. The high ratio of fungi to other parasitic organisms in these lists reflects their abundance and diversity in the warm, humid environment of the tropics. Fungi, as opposed to most bacteria and viruses, are also more amenable to identification in a small plant pathology laboratory with limited resources. Due to the large number of specimens

collected during this project and the time and cost of having them identified at a reputable off-island facility, some of the identifications are tentative. A voucher collection, including herbarium sheets, microscope slides, photomicrographs and photographs, has been established at the Tauiliili Pemerika Center for Tropical Agricultural Research, the USDA Land Grant Division of American Samoa Community College (ASLG).

Fred Brooks
August 2002

ABOUT THIS TEXT

Plant disease nomenclature, authorities, and modified host and pathogen index formats follow Farr et al. (1989). Plant names and authorities follow Farr (1989), Whistler (1994a), The Plant Names Project (1999), and the Index of Botanists (2001).

Host-pathogen index. Plant hosts are listed alphabetically by genus and species, followed by the author who first described them. Common and Samoan names follow the abbreviated author(s) names, in brackets. Below each host name in alphabetical order are potential disease-causing organisms isolated from that host and the name of the disease or most common symptom. An accession number follows specimens deposited in the American Samoa Land Grant herbarium (ASLG). Most of the organisms in this list are known pathogens but may be present as saprophytes. Pathogenicity tests were conducted only with *Corynespora cassiicola* on tomato, *Paecilomyces fumosoroseus* on Seychelles fluted scale, and *Metarhizium anisopliae* on rhinoceros beetle. Banana Bunchy Top Virus was confirmed by enzyme-linked immunosorbent assay (ELISA).

Color plates. Between the indexes are photographs of plant pathogens and plant disease signs or symptoms. Each plate is referred to in the indexes following the name of the pathogen or host.

Pathogen-host index. This is an alphabetical listing by genera of disease causing organisms followed by their authority and taxonomic classification. Below each pathogen are suggested species identifications based on morphology, growth characteristics in vivo or in culture, signs and symptoms, isolation from a known host, or published presence in American Samoa (McKenzie 1996). Unidentified species are listed as “sp.” Each species name is followed by the host from which it was isolated and the host’s common name.

Fungus pathogens on insects. Several known entomopathogenic fungi have been isolated from insects. Most American Samoans do not use chemical pesticides and enhancing the indigenous population of insect pathogens is a potential biological control option.

English and Samoan plant names, botanical equivalents. Latin scientific names are given for common English and Samoan plant names.

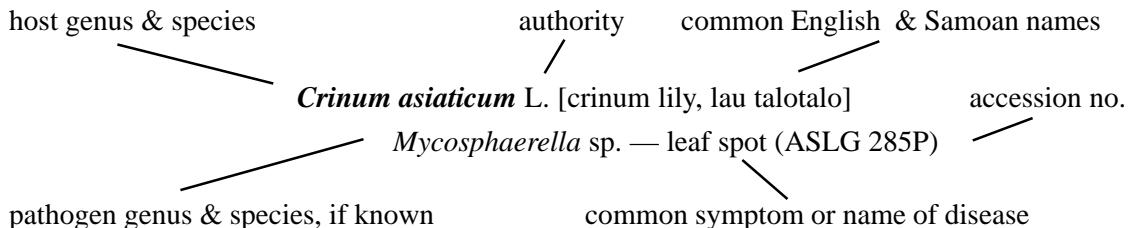
List of host plants by family. This is a useful section for references like Farr et al. (1986) and Whistler (1994a), where it is necessary to know plant families in order to find genus and species information.

Partial list of pathogens recorded in American Samoa. Most plant pathogenic fungi and bacteria recorded in American Samoa are in the publication by EHC McKenzie (1996). This list is an update of McKenzie’s publication and includes pathogenic organisms identified by the author from October 1998 to July 2002: The latter are followed by double asterisks (**). Banana nematodes described by Grandison (1996) are followed by a single asterisk (*).

Authors of plant and fungus names. Full names of abbreviated plant and fungus authors listed in the indexes.

Bibliography. List of sources used to identify plant pathogens, entomopathogens, nematodes, and local flora.

HOST-PATHOGEN INDEX



Format used in the host-pathogen index (from Farr et al. 1989)

Adenanthera pavonina L. [lopa]

Phellinus noxius — brown root rot

Alocasia cucullata (Loureiro) G. Don [Chinese taro]

Colletotrichum sp. — leaf spot (ASLG 242P)

Alocasia macrorrhiza (L.) G. Don [giant taro, ta'amu]

Cercospora sp. — leaf spot

Colletotrichum gloeosporioides — leaf spot (ASLG 230P)

Glomerella cingulata — anthracnose (ASLG 235P)

Macrophoma sp. — from taro leaf blight lesion

Mycosphaerella alocasiae — leaf spot (ASLG007P) (**Plates 1, 2**)

Pestalotiopsis sp. — from leaf spot (ASLG 033P)

Phoma sp. — from leaf spot (ASLG 135P)

Phytophthora colocasiae — taro leaf blight (ASLG 003P)

Artocarpus altilis (Park.) Fosb. [breadfruit, 'ulu]

Cercospora sp. — leaf spot (ASLG 326P)

Colletotrichum sp. — from leaf spot (ASLG 144P) (**Plate 3**)

Glomerella sp. — angular leaf spot (ASLG 150P)

Phellinus noxius — brown root rot (ASLG 228P)

Physalospora rhodina — leaf spot (ASLG 030P)

Phyllosticta artocarpi — angular leaf spot (ASLG 225P)

Barringtonia asiatica (L.) Kurz [futu]

Phellinus noxius — brown root rot

Barringtonia samoensis A. Gray [faiaga]

Phellinus noxius — brown root rot

Bidens alba (L.) DC. [beggar's-tick]

Uromyces bidenticola — rust (ASLG 127P)

Bischofia javanica Blume ['o'a]

Pestalotiopsis sp. — leaf spot (ASLG 167P)

Bixa orellana L. [lipstick-tree, loa]

Cercospora bixae — leaf spot

Brassica chinensis var. **chinensis** (L.) Prain [Chinese cabbage, pak-choi, kapisi]

Ascochyta sp. — from leaf spots (ASLG 270P)

Cercospora brassicicola — from leaf necrosis (ASLG 271P)

Colletotrichum gloeosporioides — from leaf necrosis (ASLG 272P)

Erwinia sp. — bacterial crown rot (ASLG 041P)

Leptosphaerulina sp. — from leaf spots (ASLG 269P)

Pythium spp. — damping-off

Bougainvillea spectabilis Willd. [bougainvillea, felila]

Cercosporidium bougainvilleae — leaf spot (ASLG 154P) (**Plates 4, 5**)

Broussonetia papyrifera (L.) Venten. [paper-mulberry, u'a]

Cercospora broussonetiae — leaf spot

Brunfelsia americana L. [lady-of-the-night]

Colletotrichum sp. — anthracnose (ASLG 202P)

Lasiodiplodia theobromae — on anthracnose lesion (ASLG 297P)

Caladium Venten. x **hortulanum** [caladium]

Phyllosticta sp. — leaf spot

Chaetomella sp. — from dead leaf tissue

Calophyllum neo-ebudicum Guillaumin [tamanu]

Phellinus noxius — brown root rot

Cananga odorata (Lam.) Hook. f. & Thoms. [moso'oi]

Colletotrichum gloeosporioides — branch dieback

Phellinus noxius — brown root rot (ASLG 210P)

Canarium harveyi Seem. [mafoa]

Colletotrichum sp. — leaf spot (ASLG 181P)

Phellinus noxius — brown root rot

Canna indica L. [canna lily, fagamanu]

Mycosphaerella sp. — leaf spot

Uredo pseudocannae — rust

Capsicum annuum L. [sweet and hot peppers, polo]

Colletotrichum sp. — anthracnose (ASLG 200P) (**Plate 6**)

Phytophthora parasitica — root and crown rot (ASLG 190P)

Rhizopus stolonifer — fruit rot (ASLG 201P)

Carica papaya L. [papaya, esi]

Colletotrichum gloeosporioides — leaf spot (ASLG 171P)

Corynespora cassiicola — target leaf spot (ASLG 286P) (**Plates 7, 8**)

Carissa grandiflora (E. Mey.) A. DC. [natal plum]

Lasiodiplodia theobromae — branch dieback (ASLG 274P) (**Plate 9**)

Pestalotiopsis sp. — leaf spot

Cerbera manghas L. [lava]

Phellinus noxius — brown root rot

Cieba pentandra (L.) Gaertn. [kapok, vavae]

Phellinus noxius — brown root rot (ASLG 208P)

Citrus aurantifolia L. Swingle [lime]

Lasiodiplodia theobromae — branch dieback (ASLG 290P)

Citrus sp. L. [citrus, moli]

Capnodium sp. — sooty mold

Chaetomella sp. — on leaves

Colletotrichum gloeosporioides — leaf anthracnose

Lasiodiplodia theobromae — on dead bark (ASLG 152P)

Meloidogyne sp. — root knot nematode

Phellinus noxius — (ASLG 248P)

Phomopsis citri — citrus melanose (ASLG 309P)

Sphaceloma fawcettii var. *scabiosa* — citrus scab (ASLG 169P)

Cocos nucifera L. [coconut palm, niu]

Colletotrichum sp. — from coalesced leaf spots (ASLG 162P)

Leptosphaeria sp. — gray leaf blotch (ASLG 262P)

Mycosphaerella sp. — leaf spot (ASLG 283P)

Pestalotiopsis palmarum — gray leaf spot (ASLG 046P)

Phoma sp. — leaf spot (ASLG 263P)

Phomopsis sp. — leaf spot (ASLG 264P)

Phyllosticta sp. — leaf spot

Septoria sp. — from leaf spot

causal agent unknown — American Samoa coconut yellowing (ASLG 226P)

Codiaeum variegatum (L.) Blume [croton]

Colletotrichum sp. — leaf spot (ASLG 237P)

Coix lacryma-jobi L. [sanasana]

Mycosphaerella sp. — leaf spot (ASLG 281P)

Colocasia esculenta (L.) Schott [taro, talo]

Cladosporium colocasiae — sooty mold

Colletotrichum gloeosporioides — from leaf blight lesions (ASLG 256P)

Colletotrichum sp. — from chlorotic leaves (ASLG 233P)

Curvularia sp. — from Leptosphaerulina leaf spot (ASLG 170P)

Dasheen Mosaic Virus — leaf chlorosis, discoloration (**Plate 10**)

Fusarium solani — root and corm rot (ASLG 308P)

Glomerella cingulata — from leaf blight lesions (ASLG 257P)

Gonatobotryum sp. — on leaves and petioles

Leptosphaeria sp. — from Leptosphaerulina leaf spot (ASLG 147P)

Leptosphaerulina trifolii — leaf spot (ASLG 143P) (**Plates 11, 12**)

Marasmiellus stenophyllus — stem and corm rot (ASLG 027M)

Phoma sp. — from leaf blight lesions (ASLG 255P)

Phytophthora colocasiae — taro leaf blight (ASLG 003P) (**Plates 13, 14**)

Pythium aphanidermatum — root and corm rot (ASLG 278P)

Pythium sp. — corm rot (ASLG 036P)

Septoria sp. — from Leptosphaerulina leaf spot

Cordia aspera Forst. f. [tou]

Phellinus noxius — brown root rot

Cordyline terminalis (L.) Kunth [ti]

Ascochyta sp. — from leaf spot

Colletotrichum sp. — from leaf spot

Pestalotiopsis sp. — from leaf spot
Phoma sp. — leaf spot (ASLG 231P)
Phyllosticta sp. — from leaf spot

Crinum asiaticum L. [crinum lily, lau talatalo]
Mycosphaerella sp. — leaf spot (ASLG 285P)

Crossostylis biflora Forst. [saitamu]
Phellinus noxius — brown root rot

Cucumis sativus L. [cucumber, kukama]
Cercospora citrullina — leaf spot
Corynespora cassiicola — leaf spot (ASLG 184P)
Didymella bryoniae — gummy stem blight (ASLG 207P)
Meloidogyne sp. — root knot nematode
Oidium sp. — powdery mildew
Phoma cucurbitacearum — gummy stem blight, leaf spot
Pythium aphanidermatum — wilt, fruit, root, crown rot (**Plates 15, 16**)
Pythium spp. — damping-off, root and crown rot (ASLG 177P)
Rhizoctonia solani — damping-off, fruit rot (ASLG 142P)

Cuphea melvilla Lindl. [firecracker plant]
Phyllosticta sp. — from necrotic leaf tip (ASLG 294P)

Cyperus rotundus L. [purple nut sedge, mumuta]
Puccinia canaliculata — leaf rust (ASLG 059P)

Dendrolobium umbellatum (L.) Benth. [lala]
Cercospora sp. — leaf spot (ASLG 145P)
Pestalotiopsis sp. — from leaf spot

Digitaria setigera Roem. & F.W. Schultz [crab grass]
Puccinia oahuensis — leaf and stem rust (ASLG 130P)

Diffenbachia Schott [dumbcane]
Lophodermium sp. — leaf spot

Dioscorea bulbifera L. [bitter yam, soi]
Cercospora sp. — leaf spot

Diospyros samoensis A. Gray [au'auli]

Phellinus noxius — brown root rot

Dysoxylum samoense A. Gray [tufaso]

Phellinus noxius — brown root rot

Pseudocercospora subsessilis — leaf spot (ASLG 199P)

Elattostachys falcata (A. Gray) Radlk. [taputo'i]

Phellinus noxius — brown root rot

Erythrina subumbrans (Hassk.) Merr. [gatae palagi]

Phoma erythrinicola — leaf spot

Erythrina variegata L. [coral tree, gatae]

Colletotrichum gloeosporioides — (ASLG 073P) leaf spot

Phoma sp. — leaf spot (ASLG 234P)

Euphorbia pulcherrima Willd. ex Klotzsch [poinsettia]

Colletotrichum sp. — leaf anthracnose

Dothiorella sp. — branch dieback

Glomerella sp. — leaf necrosis

Lasiodiplodia theobromae — branch dieback (ASLG 172P)

Phoma sp. — branch dieback (ASLG 151P)

Phomopsis sp. — branch dieback

Sphaceloma poinsettiae — leaf anthracnose

Fagraea berteroana A. Gray [pualulu]

Sphaerulina sp. — leaf spot (ASLG 258P)

Colletotrichum sp. — leaf spot (ASLG 319P)

Faradaya amicorum Seem. [mamalupe]

Pestalotiopsis sp. — leaf spot (ASLG 192P)

Ficus elastica Roxb. ex Horne. [rubber plant]

Mycosphaerella sp. — leaf spot (ASLG 254P)

Ficus obliqua Forst. f. [banyan tree]

Phellinus noxius — brown root rot

Ficus scabra Forst. f. [mati'ata]

Phyllachora sp. — tar spot (ASLG 198P)

Ficus tinctoria Forst. f. [dyer's fig; mati]

Phyllachora sp. — tar spot (ASLG 229P)

Phellinus noxius — brown root rot (ASLG 189P)

Fluggea flexuosa Muell. Arg. [poumuli]

Phellinus noxius — brown root rot (ASLG 251P)

Glochidion ramiflorum Forst. [masame]

Phellinus noxius — brown root rot

Gloxinia perennis Druce [Canterbury bells]

Colletotrichum sp. — blossom blight (ASLG 300P)

Corynespora cassiicola — on blighted blossoms (ASLG 301P)

Hedychium coronarium J. Konig ex Retz. [white ginger, teuila]

Colletotrichum sp. — leaf spot

Leptosphaeria sp. — leaf spot (ASLG 260P)

Mycosphaerella hedychii — leaf spot

Pestalotiopsis sp. — leaf spot

Phoma sp. — leaf spot (ASLG 261P)

Heliconia psittacorum L. fil [parrot flower]

Curvularia sp. — leaf spot

Dothiorella sp. — from leaf spot

Leptosphaeria sp. — from leaf spot

Heliconia humilis L. [lobster claw]

Colletotrichum sp. — from leaf anthracnose

Curvularia sp. — from leaf anthracnose (ASLG 158P)

Mycosphaerella sp. — from leaf anthracnose

Physalospora sp. — from leaf anthracnose

Septoria sp. — from leaf anthracnose (ASLG 157P)

Hernandia nymphaeifolia (Presl.) Kub. [pu'a]

Phellinus noxius — brown root rot

Hibiscus manihot L. [edible hibiscus, pele]

Cercospora sp. — leaf spot (ASLG 218P)

Hibiscus rosa-sinensis L. [China rose, Hawaiian hibiscus, 'aute]

Cercospora althaeina — leaf spot (ASLG 166P)

Colletotrichum — leaf spot (ASLG 140P)
Curvularia sp. — leaf anthracnose
Leptosphaeria sp. — from leaf spots (ASLG 241P)
Phellinus noxius — root and crown rot (ASLG 188P)
Phoma sp. — leaf spot (ASLG 239P)
Phyllosticta sp. — from leaf spots (ASLG 165P)
unidentified — sooty mold

***Hibiscus tiliaceus* L.** [beach hibiscus, fau]

Colletotrichum gloeosporioides — (ASLG 317P) leaf spot
Pestalotiopsis sp. — leaf spot
Phellinus noxius — root and crown rot (ASLG 203P) (**Plate 18**)
Phyllachora sp. — tar spot (ASLG 038P)

***Inocarpus fagifer* (Parkinson) Fosb.** [ifi]

Phellinus noxius — brown root rot

***Intsia bijuga* (Colebr.) Kuntze** [ifilele]

Colletotrichum sp. — leaf spot (ASLG 179P)
Phellinus noxius — root and crown rot (**Plate 19**)
Phyllachora afzeliae — tar spot (ASLG 211P)

***Ipomoea alba* L.** [moonflower, fue sina]

Colletotrichum sp. — leaf spot

***Ipomoea pes-caprae* (L.) R. Br.** [beach morning-glory, fue kula, fue mola]

Cercospora sp. — leaf spot

***Iris* L.** [iris]

Dothiorella sp. — from leaf spot

***Lagerstroemia indica* L.** [crape-myrtle]

Oidium sp. — powdery mildew

***Lansium domesticum* Correa** [langsat]

Fusarium solani — branch dieback (ASLG 314P)
Nectria sp. — branch dieback (ASLG 259P)

***Ludwigia octovalvis* (Jacq.) Raven** [primrose willow]

Cercospora sp. — leaf spot (ASLG 175P)

Lycopersicon esculentum Miller [tomato]

Botryosphaeria dothidea — from leaf spot (ASLG 095P)

Corynespora cassiicola — leaf spot (ASLG 056P)

Colletotrichum gloeosporioides — leaf spot

Dothiorella sp. — from leaf spot

Erwinia carotovora subsp. *carotovora* — bacterial canker

Meloidogyne incognita — root knot nematode (ASLG 164P) (**Plates 20, 21**)

Pestalotiopsis sp. — from leaf spot (ASLG 096P)

Pseudomonas solanacearum race 1 — bacterial wilt (ASLG 141P)

Sclerotinia sclerotiorum — stem canker

Xanthomonas campestris pv. *vesicatoria* — bacterial wilt (ASLG 224P)

Macaranga harveyana (Muell. Arg.) Muell. Arg. [lau pata, pata]

Phellinus noxius — brown root rot (ASLG 176P)

Macaranga stipulosa Muell. Arg. [lau fitu]

Phellinus noxius — brown root rot

Mangifera indica L. [mango, mago]

Colletotrichum gloeosporioides — anthracnose (ASLG 194P) (**Plate 22**)

Dendrophoma sp. — from leaf spots

Lophodermium sp. — on dead stems

Pestalotiopsis mangiferae — gray leaf spot (ASLG 195P)

Stigmina mangiferae — leaf spot (ASLG 295P) (**Plate 23**)

Manihot esculenta Crantz [tapioca, manioka]

Botryosphaeria sp. — from leaf spots

Cercospora sp. — leaf spot

Cercosporidium henningsii — leaf spot (ASLG 065P)

Mycosphaerella henningsii — leaf spot (ASLG 311P)

Manilkara zapote (L.) D. Royen [sapote]

Pestalotiopsis sp. — gray leaf spot (ASLG 197P)

Merremia umbellata (L.) Hall. f. [fue lautetele]

Cercospora sp. — leaf spot

Metroxylon vitiense (H. Wendl.) Hook. f. [sago palm, niu o lotuma]

Phyllachora sp. — tar spot (ASLG 273P)

Mikania micrantha Kunth [mile-a-minute vine, fue saina]

Cercospora mikaniacola — leaf spot (ASLG 037P)

Cercospora sp. — leaf spot

Marasmiellus sp. — on dead stem

***Momordica charantia* L.** [bitter gourd]

Cercospora citrullina — leaf spot (ASLG 323P) (**Plate 24**)

***Morinda citrifolia* L.** [nonu]

Guignardia morindae — leaf spot (ASLG 193P)

Phellinus noxius — brown root rot

***Musa acuminata* x *M. balbisiana* Colla** [edible banana, fa'i]

Banana Bunchy Top Virus — stunting, sterility, plant death (ASLG 004P) (**Plate 25**)

Cordana musae — leaf spot (ASLG 284P) (**Plate 26**)

Curvularia sp. — leaf spot (ASLG 013P)

Helicotylenschus sp. — spiral nematode

Leptosphaeria sp. — from leaf blight (ASLG 121P)

Marasmiellus semiustus — pseudostem rot (ASLG 021M)

Meloidogyne incognita — root knot nematode (ASLG 302P)

Mycosphaerella fijiensis — black leaf streak (**Plates 27, 28**)

Paracercospora fijiensis — black leaf streak (ASLG 287P)

Phyllachora musicola — black cross leaf streak (**Plate 29**)

Phyllosticta musarum — freckle (ASLG 288P)

Radopholus similis — lesion nematode

Uredo musae — banana rust (ASLG 282P)

***Myristica fatua* Houtt.** [Samoan nutmeg, ‘atone]

Phellinus noxius — brown root rot (ASLG 174P)

***Neonauclea forsteri* (Seem. ex Havil.) Merr.** [afa]

Phellinus noxius — brown root rot

***Nicolaia elatior* Horan.** [torch ginger]

Pestalotiopsis sp. — leaf blight

***Pandanus whitmeeanus* Mart.** [screwpine; paogo, fasa, lau fala]

Pestalotiopsis palmarum — leaf spot (ASLG 044P)

Pestalozziella sp. — from leaf spot

***Paspalum conjugatum* Bergius** [sour paspalum, sourgrass]

Physopella sp. — rust (ASLG 303P)

Persea americana Miller [avocado, ‘avoka]

Botryosphaeria dothidea — from leaf spot (ASLG 120P)

Discosia sp. — from leaf spot

Dothiorella sp. (*Fusicoccum*) — branch canker (ASLG 136P)

Fusarium solani — root rot (ASLG 196P)

Lasiodiplodia theobromae — root rot (ASLG 205P)

Phaseolus vulgaris L. [French bean, green bean, etc.]

Colletotrichum lindemuthianum — anthracnose (ASLG 304P)

Philodendron Schott [heart-leaf philodendron]

Physalospora sp. — leaf spot (ASLG 159P)

Piper methysticum Forst. f. [kava]

Cucumber mosaic cucumovirus — kava wilt, dieback (ASLG 313P) (**Plate 30**)

Pipturus argenteus (Forst. f.) Wedd. [soga]

Phellinus noxius — brown root rot

Planchonella grayana St. John [‘ala’a]

Phellinus noxius — brown root rot

Planchonella samoensis H.J. Lam ex Christoph. [mamalava]

Phellinus noxius — brown root rot

Planchonella torricellensis (K. Schum.) Lam [mamalava]

Pestalotiopsis sp. — leaf spot

Rhynchosphaeria sp. — ‘shot hole’ leaf spot

***Plumeria* sp.** L. [frangipani, pua fiti]

Coleosporium plumeriae — rust on leaves (**Plate 31**)

Polyscias scutellaria ‘Tricochleata’ (W. Bull) L.H. Bailey [panax, tanitani]

Cercospora sp. — leaf spot (ASLG 168P) (**Plate 32**)

Colletotrichum gloeosporioides — leaf spot

Glomerella sp. — from leaf spot

Pometia pinnata Forst. [tava]

Cladosporium sp. — sooty mold

Phellinus noxius — brown root rot

Pritchardia pacifica Seem. & H. Wendl. ex Wendl. [Fiji Island fan palm, niu piu]

- Bipolaris* sp. — leaf spot (ASLG 316P)
- Botryosphaeria* sp. — on leaf spot (ASLG 129P)
- Colletotrichum* sp. — leaf spot (ASLG 213P)
- Curvularia* sp. — from leaf spots (ASLG 214P)
- Leptosphaeria* sp. — from leaf spots (ASLG 212P)
- Pestalotiopsis palmarum* — leaf spot (ASLG 128P)

Pseuderanthemum carruthersii var. *reticulatum* (Seemann) Guillaumin [none known]

- Cercospora* sp. (ASLG 221P)
- Colletotrichum* sp. — leaf spot (ASLG 325P)
- Glomerella* sp. — leaf spot (ASLG 180P)

Puccinia canaliculata (Schwein.) Lagerh. [rust fungus on purple nut sedge]

- Sphaerellopsis filum* — mycoparasite of *P. canaliculata* (ASLG 060P) (**Plate 17**)

Pueraria lobata (Willd.) Ohwi [kudzu]

- Cercospora* sp. — leaf spot (ASLG 298P)
- Colletotrichum* sp. — angular leaf spot
- Guignardia* sp. — from leaf spot (ASLG 116P)
- Synchytrium minutum* — ‘false rust’ (ASLG 299P)

Rhus taitensis Guillemin [tavai]

- Phellinus noxius* — brown root rot
- Phoma* sp. — leaf spot (ASLG 220P)

Rosa chinensis Jacq. [rose]

- Marssonina rosae* — leaf spot (ASLG 289P)
- Mycosphaerella rosicola* — leaf spot (ASLG 209P)

Samanea saman (Jacq.) Merr. [monkeypod tree, tamaligi palagi]

- Phellinus noxius* — brown root rot

Sanchezia Ruiz & Pav. [not known]

- Mycosphaerella* sp. — leaf spot

Solanum melongena L. [eggplant, aubergine, israeli]

- Phoma* sp. — leaf spot, fruit spot (ASLG 160P)
- Cercospora egenula* — leaf spot (ASLG 206P)
- Cercospora melongenae* — leaf spot (ASLG 161P)

Cercospora sp. — leaf spot (ASLG 276P)
Rhizopus stolonifer — fruit rot (ASLG 183P)

Solanum nigrum L. [black nightshade, magalo]
Cercospora sp. — leaf spot

Spathoglottis plicata Blume [Philippine orchid]
Colletotrichum sp. — leaf anthracnose (**Plate 33**)
Lasiodiplodia theobromae — from leaf blight (ASLG 155P)
Leptosphaeria sp. — from leaf blight
Phyllosticta sp. — from leaf blight

Spondias dulcis Park. [vi apple]
Cercospora sp. — leaf spot (ASLG 247P)
Mycosphaerella sp. — leaf spot (ASLG 293P)
Phellinus noxius — brown root rot

Syngonium podophyllum Schott [nephthytis]
Cercospora sp. — leaf spot
Colletotrichum sp. — leaf anthracnose
Leptosphaeria sp. — from leaf spots (ASLG 049P)
Phyllosticta sp. — from leaf anthracnose (ASLG 173P)

Syzygium inophylloides (A. Gray) C. Muell. [asi]
Phellinus noxius — brown root rot

Tarennia sambucina (Forst. f.) Durand [ma'anunu]
Lasiodiplodia theobromae — branch dieback (ASLG 279P)
Meloidogyne sp. — root knot nematode

Terminalia richii A. Gray [malili]
Phellinus noxius — brown root rot

Terminalia samoensis Rech. [talie]
Cercospora sp. — leaf spot (ASLG 277P)

Theobroma cacao L. [cacao, koko]
Physalospora sp. — from leaf anthracnose

***Uromyces* sp.** (Link) Unger, nom. cons. [rust fungus on *Vigna* sp.]
Sphaerellopsis filum — mycoparasite of *Uromyces* spp. (ASLG 187P)

Veitchia merrillii (Becc.) H. Moore [Manila palm]

Cercospora sp. — from leaf spots (ASLG 156P)
Dothiorella sp (*Fusicoccum*). — from leaf spot
Fusarium oxysporum — from rotted roots (ASLG 307P)
Pestalosphaeria sp. — leaf spot (ASLG 178P)
Pestalotiopsis palmarum — gray leaf spot
Phyllosticta sp. — from leaf spots

Vigna unguiculata (L.) Walp. **subsp. *sesquipedalis*** (L.) Verdc. [yard-long bean, bush bean]

Cercospora cruenta — leaf spot (ASLG 252P)
Colletotrichum gloeosporioides — anthracnose (ASLG 191P)
Colletotrichum lindemuthianum — anthracnose (ASLG 245P)
Glomerella cingulata — anthracnose (ASLG 191P)
Leptosphaerulina trifolii — leaf spot (ASLG 325P)
Oidium sp. — powdery mildew (ASLG 243P)
Pseudocercospora cruenta — leaf spot (ASLG 185P)
Uromyces appendiculatus — leaf rust (ASLG 244P)
Uromyces sp. — leaf rust (ASLG 186P)

Zea mays L. [corn, sana]

Pythium aphanidermatum — root rot

Zinnia violacea Cav. [zinnia]

Cercospora zinniae — leaf spot (ASLG 217P)



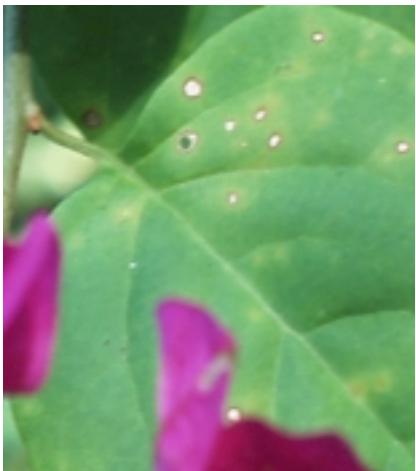
1. Alocasia leaf spot caused by
Mycosphaerella alocasiae.



2. *Mycosphaerella* leaf spots and
chlorosis on giant taro (*Alocasia*).



3. *Colletotrichum* leaf spot on
breadfruit (*Artocarpus*).



4. *Cercosporidium* leaf spot on
bougainvillea.



5. Conidiophores and spores of
Cercosporidium bougainvilleae.



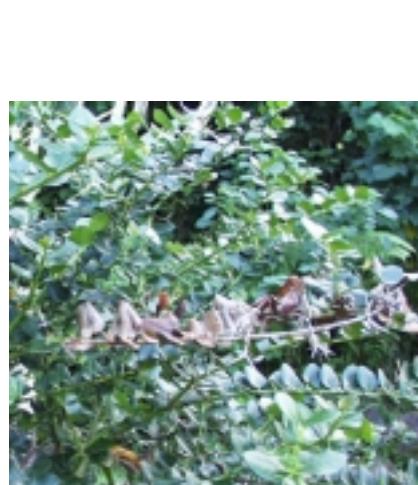
6. *Colletotrichum acervuli* and setae
on pepper (*Capsicum*).



7. Papaya leaf spot caused by
Corynespora cassiicola.



8. Conidiophores and spores of
Corynespora cassiicola.



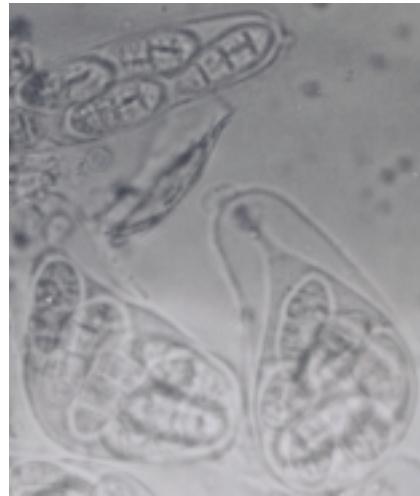
9. Branch dieback of *Carissa* by
Lasiodiplodia theobromae.



10. Dasheen Mosaic Virus on taro (*Colocasia*-type).



11. White leaf spot on taro caused by *Leptosphaerulina trifolii*.



12. Ascospores and ascus of *Leptosphaerulina trifolii*.



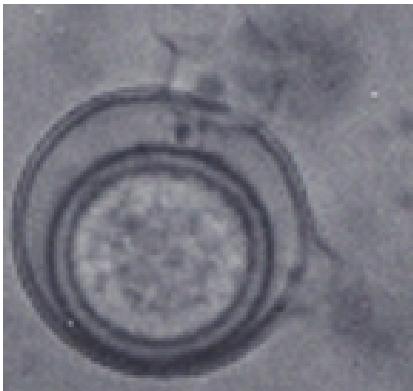
13. Taro leaf blight caused by *Phytophthora colocasiae*.



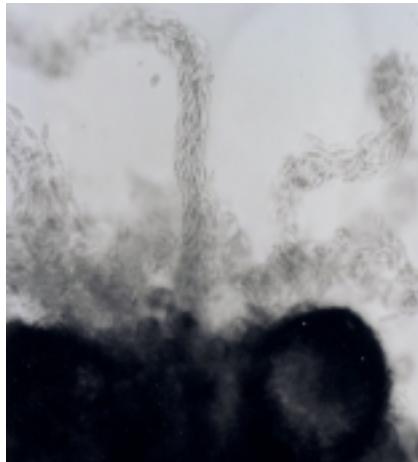
14. White spores around taro leaf blight lesions (Colocasia taro).



15. Cucumber wilt and dieback caused by a species of *Pythium*.



16. *Pythium aphanidermatum*: oogonium, antheridium, oospore.



17. Spores of *Sphaerellopsis filum*, a parasite of rust fungi.



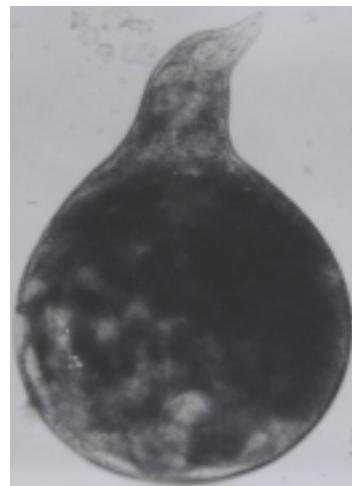
18. Crusty mycelium of *P. noxius* on rotted roots of *Hibiscus*.



19. *Phellinus noxius* on multi-stemmed forest tree (*Intsia*).



20. Galls on roots of tomato caused by *Meloidogyne* sp.



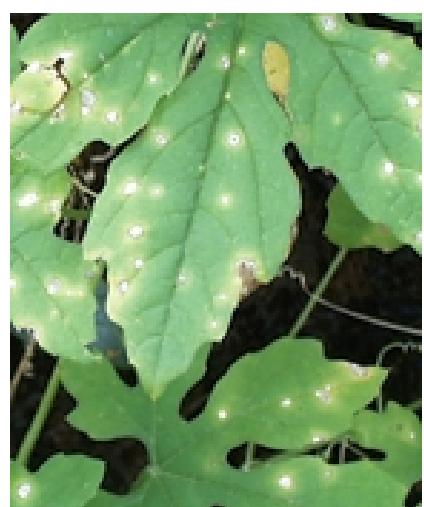
21. Female root knot nematode, *Meloidogyne incognita*.



22. Mango flower blight caused by *Colletotrichum gloeosporioides*.



23. Angular leaf spot of mango caused by *Stigmina mangiferae*.



24. *Cercospora* leaf spot of bitter gourd (*Momordica*).



25. Stunted sucker growth caused by Banana Bunchy Top Virus.



26. *Cordana* leaf spot of banana caused by *Cordana musae*.



27. Black leaf streak caused by *Mycosphaerella fijiensis*.



28. Small, reddish streaks due to early *M. fijiensis* infection.



29. Black cross leaf spot of banana (*Phyllachora musicola*).



30. Stem discoloration and dieback caused by CMV.



31. *Coleosporium* rust on upper surface of plumeria leaf.



32. *Cercospora* leaf spot on panax (*Polyscias*).



33. *Colletotrichum* anthracnose on Philippine orchid (*Spathoglottis*).



34. *Metarhizium* fungus on cicada before formation of green spores.

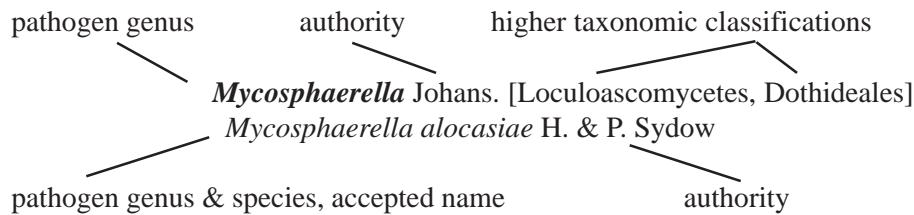


35. Green spores of *Metarhizium anisopliae* on rhino beetle larva.



36. Conidiophore of *Verticillium lecanii* on aphid.

PATHOGEN-HOST INDEX



Format used in the pathogen-host list (from Farr et al. 1989)

Ascochyta Lib. [Coelomycetes]

Ascochyta sp.

Brassica chinensis var. *chinensis* (Chinese cabbage)

Cordyline terminalis (ti)

Banana Bunchy Top Virus

Musa hybrids (bananas and plantains) (**Plate 25**)

Bipolaris Shoemaker [Hyphomycetes]

Bipolaris sp. (Fiji Island fan palm)

Botryosphaeria Ces. & De Not. [Loculoascomycetes, Dothideales]

Botryosphaeria dothidea (Moug.:Fr.) Ces. & De Not.

Lycopersicon esculentum (from leaf spot on tomato)

Persea americana (avocado)

Botryosphaeria sp.

Manihot esculenta (tapioca)

Pritchardia pacifica (Fiji Island fan palm)

Capnodium Mont. [Loculoascomycetes, Dothideales]

Capnodium sp.

Citrus sp. (citrus)

Cercospora Fresen. [Hyphomycetes]

Cercospora althaeina Sacc.

Hibiscus rosa-chinensis (Hawaiian hibiscus)

Cercospora bixae Allesch. & F. Noack

Bixa orellana (lipstick tree)

Cercospora broussonetiae Chupp & Linder

Broussonetia papyrifera (paper mulberry)

Cercospora brassicicola Henn.

Brassica chinensis var. *chinensis* (Chinese cabbage)

Cercospora citrullina Cooke

Cucumis sativus (cucumber)

Momordica charantia (bitter gourd) (**Plate 24**)

Cercospora cruenta Latham

Vigna unguiculata (yard-long bean)

Cercospora egenula (H. Syd.) Chupp & Doidge

Solanum melongena (aubergine)

Cercospora mikaniacola F. Stevens

Mikania micrantha (mile-a-minute-vine)

Cercospora melongenae C. Welles

Solanum melongena (aubergine)

Cercospora zinniae Ellis & G. Martin

Zinnia violacea (zinnia)

Cercospora sp.

Alocasia macrorrhiza (giant taro)

Artocarpus altilis (breadfruit)

Dendrolobium umbellatum (lala)

Dioscorea bulbifera (bitter yam)

Hibiscus manihot (edible hibiscus)

Ipomoea pes-caprae (beach morning-glory)

Ludwigia octovalvis (primrose willow)

Manihot esculenta (tapioca)

Merremia umbellata (morning-glory)

Mikania micrantha (mile-a-minute vine)

Polyscias scutellaria ‘Tricochleata’ (panax) (**Plate 32**)

Pseuderanthemum carruthersii var. *reticulatum* (none known)

Pueraria lobata (kudzu)

Solanum melongena (aubergine)

Solanum nigrum (black nightshade)

Spondias dulcis (vi apple)

Syngonium podophyllum (nephthytis)

Terminalia samoensis (talie)

Veitchia merrillii (Manila palm)

Cercosporidium Earle [Hyphomycetes]

Cercosporidium bougainvilleae (Muntanola) Sobers & C.P. Seymour

Bougainvillea sp. (bougainvillea) (**Plates 4, 5**)

Cercosporidium henningsii (Allesch.) Deighton

Manihot esculenta (tapioca)

Chaetomella Fuckel [Coelomycetes]

Chaetomella sp.

Caladium hortulanum (caladium)

Citrus sp. (citrus)

Cladosporium Link:Fr. [Hyphomycetes]

Cladosporium colocasiae Sawada

Colocasia esculenta (taro)

Cladosporium sp.

Pometia pinnata (tava)

Coleosporium Lev. [Basidiomycetes, Uredinales]

Coleosporium plumeriae Pat.

Plumeria sp. (frangipani) (**Plate 31**)

Colletotrichum Corda in Sturm [Coelomycetes]

Colletotrichum gloeosporioides (Penz.) Penz. & Sacc. in Penz.

Alocasia macrorrhiza (giant taro)

Artocarpus altilis (breadfruit) (**Plate 3**)

Brassica chinensis var. *chinensis* (Chinese cabbage)

Cananga odorata (moso'oi)

Carica papaya (papaya)

Citrus sp. (citrus)

Colocasia esculenta (taro)

Erythrina variegata (coral tree)

Hibiscus tiliaceus (beach hibiscus)

Lycopersicon esculentum (tomato)

Mangifera indica (mango) (**Plate 22**)

Polyscias scutellaria 'Tricochleata' (panax) (**Plate 32**)

Pseuderanthemum reticulatum (none known)

Vigna unguiculata (yard-long bean)

Colletotrichum lindemuthianum (Sacc. & Magnus) Lams.-Scrib.

Phaseolus vulgaris (French or green bean)

Vigna unguiculata (yard-long bean)

Colletotrichum sp.

Alocasia cucullata (Chinese taro)

Brunfelsia americana (lady-of-the-night)

Canarium harveyi (mafoa)

Capsicum annuum (sweet or hot pepper) (**Plate 6**)

Cocos nucifera (coconut palm)

Codiaeum variegatum (croton)

Colocasia esculenta (taro)

Cordyline terminalis (ti)

Euphorbia pulcherrima (poinsettia)

Fagraea berteroana (pualulu)

Gloxinia perennis (Canterbury bells)

Hedychium coronarium (white ginger)

Heliconia humilis (lobster claw)

Hibiscus rosa-sinensis (Hawaiian hibiscus)

Intsia bijuga (ifilele)

Ipomoea alba (morning-glory vine)

Pritchardia pacifica (Fiji Island fan palm)

Pseuderanthemum reticulatum (none known)

Pueraria lobata (kudzu)

Spathoglottis plicata (Philippine orchid) (**Plate 33**)

Syngonium sp. (nephthytis)

Cordana G. Preuss [Hyphomycetes]

Cordana musae (A. Zimmerm.) Hohn.

Musa hybrid (edible banana) (**Plate 26**)

Corynespora H.T. Gussow [Hyphomycetes]

Corynespora cassiicola (Berk. & M.A. Curtis) C.T. Wei

Carica papaya (papaya) (**Plates 7, 8**)

Cucumis sativus (cucumber)
Gloxinia perennis (Canterbury bells)
Lycopersicon esculentum (tomato)

Cucumber mosaic cucumovirus

Piper methysticum (kava) (**Plate 30**)

Curvularia Boedijn [Hyphomycetes]

Curvularia sp.

Colocasia esculenta (taro)
Heliconia humilis (lobster claw)
Heliconia psittacorum (parrot flower)
Hibiscus rosa-sinensis (Hawaiian hibiscus)
Musa hybrid (edible banana)
Pritchardia pacifica (Fiji Island fan palm)

Daldinia Ces. & De Not., nom. cons. [Pyrenomycetes, Xylariales]

Daldinia concentrica (Bolton:Fr.) Ces. & De Not.

Citrus sp. (on citrus wood)

Dasheen Mosaic Virus

Colocasia esculenta (taro) (**Plate 10**)

Dendrophoma Sacc. [Coelomycetes]

Dendrophoma sp.

Mangifera indica (mango)

Didymella Sacc. [Loculoascomycetes, Dothideales]

Didymella bryoniae (Auersw.) Rehm

Cucumis sativus (cucumber)

Discosia Lib. [Coelomycetes]

Discosia sp.

Persea americana (avocado)

Dothiorella Sacc. [Coelomycetes]

Dothiorella sp.

Euphorbia pulcherrima (poinsettia)
Heliconia psittacorum (parrot flower)
Iris sp. (iris)
Lycopersicon esculentum (tomato)
Persea americana (avocado)
Veitchia merrillii (Manila palm)

Erwinia Winslow, Broadhurst Buchanan, Krumwiede, Rogers & Smith, 1920 [Enterobacteriaceae]

Erwinia carotovora subsp. *carotovora* (Jones) Dye

Lycopersicon esculentum (tomato)

Erwinia sp.

Brassica chinensis var. *chinensis* (Chinese cabbage)

Fusarium Link: Fr. [Hyphomycetes]

- Fusarium oxysporum* Schlechtend.: Fr.
- Veitchia merrillii* (Manila palm)
- Fusarium solani* (Mart.) Sacc.
- Colocasia esculenta* (taro)
- Lansium domesticum* (langsat)
- Persea americana* (avocado)

Fusicoccum Corda in Sturm [Coelomycetes]

- Fusicoccum* sp.
- Persea americana* (avocado)
- Veitchia merrillii* (Manila palm)

Glomerella Spauld. & H. Schrenk [Pyrenomycetes, Phyllachorales]

- Glomerella cingulata* (Stoneman) Spauld. & H. Schrenk
- Alocasia macrorrhiza* (giant taro)
- Colocasia esculenta* (taro)
- Vigna unguiculata* (yard-long bean)
- Glomerella* sp.
- Artocarpus altilis* (breadfruit)
- Euphorbia pulcherrima* (poinsettia)
- Polyscias scutellaria* ‘Tricocheata’ (panax)
- Pseuderanthemum reticulatum* (none known)

Gonatobotryum Sacc. [Hyphomycetes]

- Gonatobotryum* sp.
- Colocasia esculenta* (taro)

Guignardia Viala & Ravaz [Loculoascomycetes, Dothideales]

- Guignardia morinda* (Koorders) van der Aa
- Morinda citrifolia* (nonu)
- Guignardia* sp.
- Pueraria lobata* (kudzu)

Helicotylenchus Steiner, 1945 [Hoplolaimidae, Hoplolaiminae]

- Helicotylenchus* spp.
- Musa* hybrid (edible banana)

Lasiodiplodia Ellis & Everh. [Coelomycetes]

- Lasiodiplodia theobromae* (Pat.) Griffon & Maubl.
- Brunfelsia americana* (lady-of-the-night)
- Carissa grandiflora* (natal plum) (**Plate 9**)
- Citrus aurantifolia* (lime)
- Citrus* sp. (citrus)
- Euphorbia pulcherrima* (poinsettia)
- Persea americana* (avocado)
- Spathoglottis plicata* (Philippine orchid)
- Tarennia sambucina* (ma'anunu)

Leptosphaeria Ces. & De Not., nom. cons. [Loculoascomycetes, Dothideales]

- Leptosphaeria* sp.

Cocos nucifera (coconut palm)
Colocasia esculenta (taro)
Hedychium coronarium (white ginger)
Heliconia psittacorum (parrot flower)
Hibiscus rosa-sinensis (Hawaiian hibiscus)
Musa hybrid (edible banana)
Pritchardia pacifica (Fiji Island fan palm)
Spathoglottis plicata (Philippine orchid)
Syngonium podophyllum (nephthytis)

Leptosphaerulina McAlpine [Loculoascomycetes, Dothideales]

Leptosphaerulina trifolii (Rostr.) Petr. (**Plates 11, 12**)
Colocasia esculenta (taro)
Vigna unguiculata (yard-long bean)
Leptosphaerulina sp.
Brassica chinensis var. *chinensis* (Chinese cabbage)

Lophodermium Chev. [Discomycetes, Rhytismatales]

Lophodermium sp.
Diffenbachia sp. (dumbcane)
Mangifera indica (mango)

Macrophoma (Sacc.) Berl. & Voglino [Coelomycetes]

Macrophoma sp.
Alocasia macrorrhiza (giant taro)

Marssonina J.C. Fisch. [Coelomycetes]

Marssonina rosae (Lib.) Died.
Rosa chinensis (rose)

Marasmiellus Murrill [Basidiomycetes, Agaricales]

Marasmiellus semiustus (Berk. & M.A. Curtis) Singer
Musa hybrid (edible banana)
Marasmiellus stenophyllus (Mont.) Singer
Colocasia esculenta (taro)
Marasmiellus sp.
Mikania micrantha (mile-a-minute vine)

Meloidogyne Goeldi, 1892 [Heteroderidae, Meloidogyninae]

Meloidogyne incognita (Kofoid & White, 1919) Chitwood, 1949
Lycopersicon esculentum (tomato) (**Plates 20, 21**)
Musa hybrid (dessert banana)
Meloidogyne sp.
Citrus sp. (citrus)
Cucumis sativus (cucumber)
Tarenna sambucina (ma'anunu)

Mycosphaerella Johans. [Loculoascomycetes, Dothideales]

Mycosphaerella alocasiae H. & P. Sydow
Alocasia macrorrhiza (giant taro) (Plates 1, 2)
Mycosphaerella fijiensis Morlet

Musa hybrid (edible banana) (**Plates 27, 28**)

Mycosphaerella henningsii Sivanesan

Manihot esculenta (tapioca)

Mycosphaerella heydichii F. Stevens & P.A. Young in F. Stevens

Hedychium coronarium (white ginger)

Mycosphaerella rosicola B.H. Davis ex Deighton

Rosa chinensis (rose)

Mycosphaerella sp.

Canna indica (canna lily)

Cocos nucifera (coconut palm)

Coix lacryma-jobi (sanasana)

Crinum asiaticum (crinum lily)

Ficus elastica (rubber plant)

Heliconia humilis (lobster claw)

Rosa chinensis (rose)

Sanchezia sp. (none known)

Spondias dulcis (vi apple)

Nectria (Fr.) Fr. [Pyrenomycetes, Hypocreales]

Nectria haematacocca Berk. & Broom

Lansium domesticum (langsat)

Oidium Link, nom. cons. [Hyphomycetes]

Oidium sp.

Cucumis sativus (cucumber)

Lagerstroemia indica (crape-myrtle)

Vigna unguiculata (yard-long bean)

Paracercocpora Deighton [Hyphomycetes]

Paracercospora fijiensis (Morlet) Deighton

Musa hybrid (edible banana)

Pestalosphaeria Barr. [Pyrenomycetes]

Pestalosphaeria sp.

Veitchia merrillii (Manila palm)

Pestalotiopsis Steyaert [Coelomycetes]

Pestalotiopsis mangiferae (Henn.) Steyaert

Mangifera indica (mango)

Pestalotiopsis palmarum (Cooke) Steyaert

Cocos nucifera (coconut palm)

Pandanus whitmeeanus (pandanus)

Pritchardia pacifica (Fiji Island fan palm)

Veitchia merrillii (Manila palm)

Pestalotiopsis sp.

Alocasia macrorrhiza (giant taro)

Bischofia javanica ('o'a)

Carissa grandiflora (natal plum)

Cordyline terminalis (ti)

Dendrolobium umbellatum (lala)

Faradaya amicorum (mamalupe)

Hedychium coronarium (white ginger)
Hibiscus tiliaceus (beach hibiscus)
Lycopersicon esculentum (tomato)
Manilkara zapote (sapote)
Nicolaia elatior (torch ginger)
Planchonella torricellensis (mamalava)

Pestalozziella Sacc. & Ellis in Sacc. [Coelomycetes]

Pestalozziella sp.

Pandanus whitmeeanus (pandanus)

Phellinus Quel. [Basidiomycetes, Aphyllophorales]

Phellinus noxius (Corner) G.H. Cunningham

Adenanthera pavonina (lopa)
Artocarpus altilis (breadfruit)
Barringtonia asiatica (futu)
Barringtonia samoensis (faiaga)
Calophyllum neo-ebudicum (tamanu)
Cananga odorata (moso'oi)
Canarium harveyi (mafoa)
Cerbera manghas (lava)
Cieba pentandra (kapok)
Citrus sp. (citrus)
Cordia aspera (tou)
Crossostylis biflora (saitamu)
Diospyros samoensis (au'auli)
Dysoxylum samoense (tufaso)
Elattostachys falcata (taputo'i)
Ficus obliqua (banyan)
Ficus tinctoria (dyer's fig)
Fluggea flexuosa (poumuli)
Glochidion ramiflorum (masame)
Hernandia nymphaeifolia (pu'a)
Hibiscus rosa-sinensis (Hawaiian hibiscus)
Hibiscus tiliaceus (beach hibiscus) (**Plate 18**)
Inocarpus fagifer (ifi)
Intsia bijuga (ifilele) (**Plate 19**)
Macaranga harveyana (lau pata)
Macaranga stipulosa (lau fatu)
Morinda citrifolia (nonu)
Myristica fatua (Samoan nutmeg)
Neonauclea forsteri (afa)
Pipturus argenteus (soga)
Planchonella grayana ('ala'a)
Planchonella samoensis (mamalava)
Pometia pinnata (tava)
Rhus taitensis (tavai)
Samanea saman (monkey-pod tree)
Spondias dulcis (vi apple)
Syzygium inophylloides (asi)
Terminalia richii (malili)

Phoma Sacc., nom. cons. [Coelomycetes]

Phoma cucurbitacearum (Fr.:Fr.) Sacc.

Cucumis sativus (cucumber)

Phoma erythrinicola Tracy & Earle

Erythrina subumbrans (coral tree)

Phoma sp.

Alocasia macrorrhiza (giant taro)

Cocos nucifera (coconut palm)

Colocasia esculenta (taro)

Cordyline terminalis (ti)

Erythrina variegata (coral tree)

Euphorbia pulcherrima (poinsettia)

Hedychium coronarium (white ginger)

Hibiscus rosa-sinensis (Hawaiian hibiscus)

Rhus taitensis (tavai)

Solanum melongena (aubergine)

Phomopsis (Sacc.) Bubak [Coelomycetes]

Phomopsis citri H. Fawc. non (Sacc.) Traverso & Spessa, hom. illeg.

Citrus sp. (citrus)

Phomopsis sp.

Cococ nucifera (coconut palm)

Euphorbia pulcherrima (poinsettia)

Phyllachora Nitschke ex Fuckel, nom. cons. [Pyrenomycetes, Phyllachorales]

Phyllachora afzeliae Sydow

Intsia bijuga (ifilele)

Phyllachora musicola Booth & Shaw

Musa hybrid (edible banana) (**Plate 29**)

Phyllachora sp.

Ficus scabra (mati'ata)

Ficus tinctoria (dyer's fig)

Hibiscus tiliaceus (beach hibiscus)

Metroxylon vitiense (sago palm)

Phyllosticta Pers., nom. cons. [Coelomycetes]

Phyllosticta artocarpi Speg.

Artocarpus altilis (breadfruit)

Phyllosticta cordylines (Thuem.) Petrak & H. Sydow

Cordyline terminalis (ti)

Phyllosticta musarum (Cooke) van der Aa

Musa hybrid (edible banana)

Phyllosticta sp.

Caladium x hortulanum (caladium)

Cocos nucifera (coconut palm)

Cordyline terminalis (ti)

Cuphea melvilla (firecracker plant)

Hibiscus rosa-chinensis (Hawaiian hibiscus)

Spathoglottis plicata (Philippine orchid)

Syngonium podophyllum (nephthytis)

Veitchia merrillii (Manila palm)

Physalospora Niessl [Pyrenomycetes, Amphisphaerales]

Physalospora rhodina Berkley & Curtis in Cooke

Artocarpus altilis (breadfruit)

Physalospora sp.

Heliconia humilis (lobster claw)

Philodendron sp. (heart-leaf philodendron)

Theobroma cacao (cacao)

Physopella Arth. [Basidiomycetes, Uredinales]

Physopella sp.

Paspalum conjugatum (sourgrass)

Phytophthora de Bary [Oomycetes, Peronosporales]

Phytophthora colocasiae Racib.

Alocasia macrorrhiza (giant taro)

Colocasia esculenta (taro) (**Plates 13, 14**)

Phytophthora parasitica Dastur (*P. nicotianae* Breda de Haan var. *parasitica* (Dastur) G.M. Waterhouse)

Capsicum annuum (sweet or hot pepper)

Pseudocercospora Speg. [Hyphomycetes]

Pseudocercospora cruenta (Sacc.) Deighton

Vigna unguiculata subsp. *sesquipedalis* (yard-long bean)

Pseudocercospora subsessilis (Syd. & P. Syd.) Deighton

Dysoxylum samoense (tufaso)

Pseudomonas Migula, 1894 [Pseudomonadaceae]

Pseudomonas solanacearum race 1 (Smith 1896) D.F. Smith, 1914

Lycopersicon esculentum (tomato)

Puccinia Pers.:Pers. [Basidiomycetes, Uredinales]

Puccinia canaliculata (Schwein.) Lagerh.

Cyperus rotundus (purple nut sedge)

Puccinia oahuensis Ellis & Everh.

Digitaria setigera (crab grass)

Puccinia sp.

Canna indica (canna lily)

Pythium Pringsh., nom. cons. [Oomycetes, Peronosporales]

Pythium aphanidermatum (Edson) Fitzp.

Colocasia esculenta (taro)

Cucumis sativus (cucumber)

Zea mays (corn, maize) (**Plate 16**)

Pythium sp.

Brassica chinensis var. *chinensis* (Chinese cabbage)

Colocasia esculenta (taro)

Cucumis sativus (cucumber) (**Plate 15**)

Radopholus Thorne, 1949 [Pratylenchidae, Pratylenchinae]

Radopholus similis (Cobb, 1893) Thorne, 1949
Musa hybrid (edible banana)

Rhizoctonia DC. [Agonomycetes]

Rhizoctonia solani Kuhn

Cucumis sativus (cucumber)

Rhizopus Ehrenb. [Zygomycetes, Mucorales]

Rhizopus stolonifer (Ehrenb.:Fr.) Vuill.

Capsicum annuum (sweet or hot pepper)

Solanum melongena (aubergine)

Rhynchosphaeria (Sacc.) Berl. [Pyrenomycetes, Sphaeriales]

Rhynchosphaeria sp.

Planchonella torricellensis (mamalava)

Sclerotinia Fuckel, nom. cons. [Discomycetes, Helotiales]

Sclerotinia sclerotiorum (Lib.) de Bary

Lycopersicon esculentum (tomato)

Septoria Sacc., nom. cons. [Coelomycetes]

Septoria sp.

Cocos nucifera (coconut palm)

Colocasia esculenta (taro)

Heliconia psittacorum (parrot flower)

Sphaceloma de Bary [Coelomycetes]

Sphaceloma fawcettii var. *scabiosa* (McAlp. & Tryon) Jenkins

Citrus sp. (citrus)

Sphaceloma poinsettiae Jenk. & Ruehle

Euphorbia pulcherrima (poinsettia)

Sphaerellopsis Cooke [Coelomycetes]

Sphaerellopsis filum (Biv.-Bern. ex Fr.) Sutton

Puccinia canaliculata (rust on nut sedge and canna) (**Plate 17**)

Uromyces appendiculatus (rust on yard-long bean)

Note: *Sphaerellopsis* is a mycoparasite of rust fungi.

Sphaerulina Sacc. [Loculoascomycetes, Dothideales]

Sphaerulina sp.

Fagraea berteroana (pualulu)

Stigmina Sacc. [Hyphomycetes]

Stigmina mangiferae (Koorders) M.B. Ellis

Mangifera indica (mango) (**Plate 23**)

Synchytrium de Bary & Woronin.

Synchytrium minutum (Pat.) Gaumann

Pueraria lobata (kudzu)

Uredo Pers.:Pers. [Basidiomycetes, Uredinales]

Uredo musae Cummins

Musa hybrid

Uredo pseudocannae Cummings

Canna indica (canna lily)

Uromyces (Link) Unger, nom. cons. [Basidiomycetes, Uredinales]

Uromyces appendiculatus (Pers.:Pers.) Unger

Vigna unguiculata subsp. *sesquipedalis* (yard-long bean)

Uromyces bidenticola Arth.

Bidens alba (beggar's tick)

Uromyces sp.

Vigna unguiculata (yard-long bean)

Xanthomonas Dowson, 1939 [Pseudomonadaceae]

Xanthomonas campestris pv. *vesicatoria* (Dodge) Dye

Lycopersicon esculentum (tomato)

FUNGUS PATHOGENS ON INSECTS

Aspergillus P. Mich. ex Link:Fr. [Hyphomycetes]

Aspergillus sp.

Aphis gossypii (green peach aphid) (ASLG 108P)

Bactrocera spp. (fruit flies) (ASLG 315P)

Rodolia limbata (lady beetle) (ASLG 100P)

Cladosporium Link:Fr. [Hyphomycetes]

Cladosporium sp.

Aphis gossypii (on dead aphids) (ASLG 109P)

Fusarium Link:Fr. [Hyphomycetes]

Fusarium sp.

Rodolia limbata (lady beetle) (ASLG 117P)

Tarophagus proserpina (taro planthopper)

Metarhizium (Metchnikoff) Sorokin [Hyphomycetes]

Metarhizium anisopliae var. *anisopliae* (Metsch.) Sorokin

Aphis gossypii (green peach aphid)

Cicada sp. (cicada) (ASLG 204P) (**Plate 34**)

Metarhizium anisopliae var. *majus* (Metsch.) Sorokin

Oryctes rhinoceros (rhinoceros beetle) (ASLG 227P) (**Plate 35**)

Paecilomyces Bainier [Hyphomycetes]

Paecilomyces fumosoroseus (Wize) AHS Brown & G. Smith

Bemesia tabaci biotype B (silverleaf whitefly) (ASLG 112P)

Icerya seychellarum (Seychelles fluted scale) (ASLG 118P)

Trichoderma Pers.:Fr. [Hyphomycetes]

Trichoderma viride Pers.:Fr.

Aphis gossypii (green peach aphid) (ASLG 182P)

Trichothecium Link:Fr. [Hyphomycetes]

Trichothecium sp.

Icerya seychellarum (Seychelles fluted scale) (ASLG 068P)

Verticillium Nees [Hyphomycetes]

Verticillium lecanii (A. Zimmerm.) Viegas

Aphis gossypii (green peach aphid) (ASLG 182P) (**Plate 36**)

Thrips palmi (palm thrips)

ENGLISH AND SAMOAN PLANT NAMES, BOTANICAL EQUIVALENTS

‘atone	<i>Myristica fatua</i>	giant taro	<i>Alocasia macrorrhiza</i>
aubergine	<i>Solanum melongena</i>	green bean	<i>Phaseolus vulgaris</i>
‘aute	<i>Hibiscus rosa-sinensis</i>	heeart-leaf philodendron	<i>Philodendron</i> sp.
‘avoca	<i>Persea americana</i>	hibiscus	<i>Hibiscus rosa-sinensis</i>
banana	<i>Musa</i> cultivars, hybrids	hot pepper	<i>Capsicum annuum</i>
beach hibiscus	<i>Hibiscus tiliaceus</i>	ifilele	<i>Intsia bijuga</i>
beach morning-glory	<i>Ipomoea pes-caprae</i>	iris	<i>Iris</i> sp.
beggar’s-tick	<i>Bidens alba</i>	israeli	<i>Solanum melongena</i>
bell pepper	<i>Capsicum annuum</i>	kapsi	<i>Brassica chinensis</i>
bitter gourd	<i>Momordica charantia</i>	kapok	<i>Cieba pentandra</i>
bitter yam	<i>Dioscorea bulbifera</i>	kava	<i>Piper methysticum</i>
black nightshade	<i>Solanum nigrum</i>	koko	<i>Theobroma cacao</i>
bougainvillea	<i>Bougainvillea spectabilis</i>	kudzu	<i>Pueraria lobata</i>
breadfruit	<i>Artocarpus altilis</i>	kukama	<i>Cucumis sativus</i>
cacao	<i>Theobroma cacao</i>	lady-of-the-night	<i>Brunfelsia americana</i>
caladium	<i>Cladium x hortulanum</i>	lala	<i>Dendrolobium umbellatum</i>
canna lily	<i>Canna indica</i>	langsat	<i>Lansium domesticum</i>
Canterbury bells	<i>Gloxinia perennis</i>	lau fala	<i>Pandanus whitmeeanus</i>
Chinese cabbage	<i>Brassica chinensis</i>	lau pata	<i>Macaranga harveyana</i>
Chinese taro	<i>Alocasia cucullata</i>	lau talotalo	<i>Crinum asiaticum</i>
citrus	<i>Citrus</i> spp.	lime	<i>Citrus aurantifolia</i>
coconut palm	<i>Cocos nucifera</i>	lipstick-tree	<i>Bixa orellana</i>
coral tree	<i>Erythrina variegata</i>	loa	<i>Bixa orellana</i>
corn	<i>Zea mays</i>	lobster claw	<i>Heliconia</i> sp.
crab grass	<i>Digitaria setigera</i>	ma’anunu	<i>Tarenna sambucina</i>
crape-myrtle	<i>Lagerstroemia indica</i>	mafoa	<i>Canarium harveyi</i>
crinum lily	<i>Crinum asiaticum</i>	magalo	<i>Solanum nigrum</i>
croton	<i>Codiaeum variegatum</i>	mago	<i>Mangifera indica</i>
cucumber	<i>Cucumis sativus</i>	mamalava	<i>Planchonella torricellensis</i>
dumbcane	<i>Diffenbachia</i> sp.	mamalupe	<i>Faradaya amicorum</i>
dyer’s fig	<i>Ficus tinctoria</i>	mango	<i>Mangifera indica</i>
edible hibiscus	<i>Hibiscus manihot</i>	Manila palm	<i>Veitchia merrillii</i>
eggplant	<i>Solanum melongena</i>	manioka	<i>Manihot esculenta</i>
esi	<i>Carica papaya</i>	mati	<i>Ficus tinctoria</i>
fagamanu	<i>canna indica</i>	mile-a-minute vine	<i>Mikania micrantha</i>
fa’i	<i>Musa</i> cultivars, hybrids	moli	<i>Citrus</i> spp.
fasa	<i>Pandanus whitmeeanus</i>	moon flower	<i>Ipomoea alba</i>
fau	<i>Hibiscus tiliaceus</i>	moso’oi	<i>Cananga odorata</i>
Fiji Island fan palm	<i>Pritchardia pacifica</i>	mumuta	<i>Cyperus rotundus</i>
firecracker plant	<i>Cuphea melvilla</i>	natal plum	<i>Carissa grandiflora</i>
frangipani	<i>Plumeria</i> spp.	nephthytis	<i>Syngonium podophyllum</i>
French bean	<i>Phaseolus vulgaris</i>	niu	<i>Cocos nucifera</i>
fue kula	<i>Ipomoea pes-caprae</i>	niu o lotuma	<i>Metroxylon vitiense</i>
fue lauteletele	<i>Merremia umbellata</i>	niu piu	<i>Pritchardia pacifica</i>
fue mola	<i>Ipomoea pes-caprae</i>	nonu	<i>Morinda citrifolia</i>
fue saina	<i>Mikania micrantha</i>	nutmeg, Samoan	<i>Myristica fatua</i>
fue sina	<i>Ipomoea alba</i>	‘o’a	<i>Bischofia javanica</i>
gatae	<i>Erythrina variegata</i>	pak-choi	<i>Brassica chinensis</i>
gatae palagi	<i>Erythrina subumbrans</i>	panax	<i>Polyscias scutellaria</i>
geranium-leaf aralia	<i>Polyscias guilfoylei</i>	paogo	<i>Pandanus whitmeeanus</i>

papaya	<i>Carica papaya</i>
paper-mulberry	<i>Broussonetia papyrifera</i>
parrot flower	<i>Heliconia psittacorum</i>
pata	<i>Macaranga harveyana</i>
pele	<i>Hibiscus manihot</i>
Philippine orchid	<i>Spathoglottis plicata</i>
poinsettia	<i>Euphorbia pulcherrima</i>
polo	<i>Capsicum annuum</i>
poumuli	<i>Fluggea flexuosa</i>
primrose willow	<i>Ludwigia octovalvis</i>
pua fiti	<i>Plumeria</i> sp.
pualulu	<i>Fagraea berteroana</i>
purple nut sedge	<i>Cyperus rotundus</i>
rose	<i>Rosa chinensis</i>
rubber tree	<i>Ficus elastica</i>
sago palm	<i>Metroxylon vitiense</i>
Samoan nutmeg	<i>Myristica fatua</i>
sana	<i>Zea mays</i>
sanasana	<i>Coix lacryma-jobi</i>
sapote	<i>Manilkara zapote</i>
screwpine	<i>Pandanus whitmeeanus</i>
soi	<i>Dioscorea bulbifera</i>
sweet pepper	<i>Capsicum annuum</i>
ta'amu	<i>Alocasia macrorrhiza</i>
talie	<i>Terminalia samoensis</i>
talo	<i>Colocasia esculenta</i>
tanitani	<i>Polyscias guilfoylei</i>
tapioca	<i>Manihot esculenta</i>
taro	<i>Colocasia esculenta</i>
tava	<i>Pometia pinnata</i>
tavai	<i>Rhus taitensis</i>
teuila	<i>Hedychium coronarium</i>
ti	<i>Cordyline terminalis</i>
tipolo	<i>Citrus aurantifolia</i>
tomato	<i>Lycopersicon esculentum</i>
torch ginger	<i>Nicolaia elatior</i>
tufaso	<i>Dysoxylum samoense</i>
u'a	<i>Brousonetia papyrifera</i>
'ulu	<i>Artocarpus altilis</i>
vavae	<i>Cieba pentandra</i>
vi apple	<i>Spondias dulcis</i>
white ginger	<i>Hedychium coronarium</i>
yard-long bean	<i>Vigna unguiculata</i>

LIST OF HOST PLANTS BY FAMILY

Acanthaceae	Burseraceae	Iridaceae	Poaceae
<i>Pseuderanthemum</i>	<i>Canarium</i>	<i>Iris</i>	<i>Coix</i>
<i>Sanchezia</i>			<i>Digitaria</i>
	Cannaceae	Lauraceae	<i>Paspalum</i>
	<i>Canna</i>	<i>Persea</i>	<i>Zea</i>
Agavaceae	Caricaceae	Liliaceae	Rosaceae
<i>Cordyline</i>	<i>Carica</i>	<i>Crinum</i>	<i>Rosa</i>
	Combretaceae	Loganiaceae	Rubiaceae
	<i>Terminalia</i>	<i>Fagraea</i>	<i>Morinda</i>
Anacardiaceae	Convolvulaceae	Lythraceae	<i>Tarennia</i>
<i>Mangifera</i>	<i>Ipomoea</i>	<i>Cuphea</i>	Rutaceae
<i>Rhus</i>	<i>Merremia</i>	<i>Lagerstroemia</i>	<i>Citrus</i>
Annonaceae	Cucurbitaceae	Malvaceae	Sapindaceae
<i>Cananga</i>	<i>Cucumis</i>	<i>Hibiscus</i>	<i>Pometia</i>
	<i>Momordica</i>		
	Cyperaceae	Meliaceae	Sapotaceae
	<i>Cyperus</i>	<i>Dysoxylum</i>	<i>Manilkara</i>
		<i>Lansium</i>	<i>Planchonella</i>
Apocynaceae	Dioscoreaceae	Moraceae	Solanaceae
<i>Carissa</i>	<i>Dioscorea</i>	<i>Artocarpus</i>	<i>Brunfelsia</i>
<i>Plumeria</i>		<i>Broussonetia</i>	<i>Capsicum</i>
		<i>Ficus</i>	<i>Lycopersicon</i>
	Euphorbiaceae		<i>Solanum</i>
	<i>Bischofia</i>	Musaceae	
	<i>Codiaeum</i>	<i>Musa</i>	
	<i>Euphorbia</i>		Sterculiaceae
	<i>Fluggea</i>		<i>Theobroma</i>
Araceae	<i>Macaranga</i>	Myristicaceae	
<i>Alocasia</i>	<i>Manihot</i>	<i>Myristica</i>	
<i>Caladium</i>			
<i>Colocasia</i>		Nyctaginaceae	
<i>Diffenbachia</i>		<i>Bougainvillea</i>	
<i>Philodendron</i>			
<i>Syngonium</i>		Onagraceae	
		<i>Ludwigia</i>	
Araliaceae	Fabaceae		
<i>Polyscias</i>	<i>Dendrolobium</i>	Orchidaceae	
	<i>Erythrina</i>	<i>Spathoglottis</i>	
	<i>Intsia</i>		
	<i>Phaseolus</i>		
Arecales	<i>Pueraria</i>	Pandanaceae	
	<i>Vigna</i>	<i>Pandanus</i>	
Asteraceae	Gesnariaceae	Piperaceae	
<i>Bidens</i>	<i>Gloxinia</i>	<i>Piper</i>	
<i>Mikania</i>			
Bixaceae	Heliconiaceae		
<i>Bixa</i>	<i>Heliconia</i>		
Brassicaceae			
<i>Brassica</i>			

PARTIAL LIST OF PATHOGENS RECORDED IN AMERICAN SAMOA

Alternaria brassicicola	Coniothyrium sp.
Ascochyta sp.**	Cordana musae
Aspergillus sp.**	Corticium sp.
Asterina sp.	Corynespora cassiicola
Atractilina parasitica	Cucumber Mosaic Cucumovirus**
Banana Bunchy Top Virus**	Curvularia spp**
Bipolaris micropus	Dactylaria sp.
Bipolaris stenospila	Dasheen Mosaic Virus**
Botryodiplodia palmarum	Dendrophoma sp.**
Botryosphaeria dothidea**	Diaporthe citri
Botryosphaeria sp.**	Didymella sp.
Capnodium sp.	Diplodia fructus-pandani
Cercospora althaeina**	Diplodia sp.
Cercospora bidentis	Distocercospora pachyderma
Cercospora bixaee**	Dothiorella sp.**
Cercospora broussonetiae**	Elsinoe fawcettii
Cercospora canescens	Endophyllum kaernbachii
Cercospora capsici	Erwinia carotovora subsp. carotovora**
Cercospora catappae	Erwinia sp.**
Cercospora citrullina	Erysiphe cichoracearum
Cercospora coffeicola	Eudarluca caricis
Cercospora ipomoeae	Fulvia fulva
Cercospora melongenae	Fusarium oxysporum
Cercospora mikaniicola	Fusarium pandani
Cercospora polysciatis	Fusarium proliferatum
Cercospora pudicae	Fusarium sp.**
Cercospora sorghi	Fusicoccum sp.**
Cercospora taccae	Ganoderma australe
Cercospora yoshinagiana	Ganoderma chalceum
Cercospora zinniae	Ganoderma resinaceum**
Cercospora spp.	Ganoderma sp.**
Cercosporidium bougainvilleae**	Gibberella fujikuroi
Cercosporidium henningsii**	Gibberella intricans
Chaetomella sp.**	Gloeocercospora sorghi
Cintractia axicola	Glomerella cingulata
Cladosporium colocasiae	Glomerella tucumanensis
Cladosporium sp.**	Glomerella spp.**
Cochliobolus heterostrophus	Gonatobotryum sp.**
Cochliobolus pallescens	Goplana dioscoreae
Cochliobolus verruculosus	Guignardia dioscoreae
Coleosporium plumeriae**	Guignardia morindae
Colletotrichum capsici	Guignardia musae
Colletotrichum dematium	Guignardia sp.**
Colletotrichum gloeosporioides**	Haplobasidion musae
Colletotrichum graminicola	Helicotylenchus dihystera*
Colletotrichum higginsianum	Helicotylenchus multicinctus*
Colletotrichum orbiculare	Hemileia vastatrix
Colletotrichum spp.**	Hypoxyylon deustum
Coniothyrium perrottianum	Hypoxyylon mediterraneum

<i>Lasiodiplodia theobromae</i> **	
<i>Leptosphaeria sacchari</i>	<i>Phellinus lamaensis</i>
<i>Leptosphaeria sp.</i> **	<i>Phellinus noxius</i>
<i>Leptosphaerulina trifolii</i> **	<i>Phoma cucurbitacearum</i> **
<i>Lophodermium sp.</i> **	<i>Phoma erythrinicola</i> **
<i>Macrophoma pandani</i>	<i>Phoma fructus-pandani</i>
<i>Macrophoma sp.</i> **	<i>Phoma martellii</i>
<i>Macroposthonia denoudeni</i> *	<i>Phoma spp.</i> **
<i>Magnaporthe grisea</i>	<i>Phomopsis palmicola</i>
<i>Marasmiellus inoderma</i>	<i>Phomopsis sp.</i> **
<i>Marasmiellus semiustus</i>	<i>Phyllachora afzeliae</i>
<i>Marasmiellus stenophyllus</i> **	<i>Phyllachora musicola</i>
<i>Marasmiellus spp.</i> **	<i>Phyllachora paspalicola</i>
<i>Marasmius sp.</i>	<i>Phyllachora setariicola</i>
<i>Meliola evodiae</i>	<i>Phyllosticta artocarpi</i> **
<i>Meliola panici</i>	<i>Phyllosticta cordylines</i>
<i>Meliolina samoensis</i>	<i>Phyllosticta musarum</i>
<i>Meloidogyne incognita</i> *	<i>Phyllosticta spp.</i> **
<i>Metarhizium anisopliae</i> var. <i>anisopliae</i> **	<i>Physalospora rhodina</i>
<i>Metarhizium anisopliae</i> var. <i>majus</i> **	<i>Physalospora sp.</i> **
<i>Mycosphaerella alocasiae</i>	<i>Phytophthora colocasiae</i>
<i>Mycosphaerella cruenta</i>	<i>Phytophthora infestans</i>
<i>Mycosphaerella fijiensis</i>	<i>Phytophthora nicotiane</i> var. <i>parasitica</i> (<i>P. parasitica</i>)
<i>Mycosphaerella gastonis</i>	<i>Phytophthora palmivora</i>
<i>Mycosphaerella henningsii</i>	<i>Pseudocercospora ablemoschi</i>
<i>Mycosphaerella horii</i>	<i>Pseudocercospora borreriae</i>
<i>Mycosphaerella musicola</i>	<i>Pseudocercospora colocasiae</i>
<i>Mycosphaerella rosicola</i>	<i>Pseudocercospora cruenta</i> **
<i>Mycosphaerella spp.</i> **	<i>Pseudocercospora jatropheae</i>
<i>Mycovellosiella koepkei</i>	<i>Pseudocercospora sawadai</i>
<i>Myrothecium roridum</i>	<i>Pseudocercospora stahlii</i>
<i>Nectria haematacocca</i> **	<i>Pseudocercospora synedrellae</i>
<i>Nectria jungneri</i>	<i>Pseudocercospora timorensis</i>
<i>Nectria ochroleuca</i>	<i>Pseudocercospora sp.</i>
<i>Nectria rigidiuscula</i>	<i>Pseudoepicoccum cocos</i>
<i>Nectria sp.</i>	<i>Pseudomonas solanacearum</i>
<i>Neojohnstonia colocasiae</i>	<i>Pseudomonas solanacearum race 1</i> **
<i>Oidium sp.</i>	<i>Pseudoperonospora cubensis</i>
<i>Paecilomyces fumosoroseus</i> **	<i>Puccinia canaliculata</i> **
<i>Paraphaeosphaeria michotii</i>	<i>Puccinia cenchri</i>
<i>Pellicularia koleroga</i>	<i>Puccinia cyperi</i>
<i>Penicillium digitatum</i>	<i>Puccinia fimbriostyidis</i>
<i>Periconiella perseae</i>	<i>Puccinia kuehnii</i>
<i>Peronospora parasitica</i>	<i>Puccinia lepturi</i>
<i>Pestalotiopsis mangiferae</i> **	<i>Puccinia melanocephala</i>
<i>Pestalotiopsis palmarum</i>	<i>Puccinia miscanthi</i>
<i>Pestalotiopsis sp.</i> **	<i>Puccinia oahuensis</i>
<i>Pestalozziella sp.</i> **	<i>Puccinia operta</i>
<i>Phanerochaeta salmonicolor</i>	<i>Puccinia polysora</i>
	<i>Pythium aphanidermatum</i> **

Pythium sp.**
Radopholus similis*
Ramichloridium musae
Ravenelia sessilis
Rhizoctonia solani**
Rhizoctonia sp.
Rhizopus stolonifer**
Rhynchosphaeria sp.**
Rigidoporus microporus
Rotylenchulus reniformis*
Sclerotinia sclerotiorum**
Septobasidium separans
Septoria eburnea
Septoria sp.**
Setosphaeria monoceras
Sphaceloma fawcettii var. scabiosa**
Sphaceloma poinsettiae**
Sphaerellopsis filum**
Stagonospora sp.
Stemphylium solani
Stigmina mangiferae
Synchytrium minutum
Thanatephorus cucumeris
Trametes hemitephra
Trametes menziesii
Trametes modesta**
Trametes sp.**
Trichoderma viride**
Trichothecium sp.**
Uredo artocarpi
Uredo dioscoreae-sativae
Uredo musae
Uredo pseudocannae
Uredo sp.
Uromyces appendiculatus**
Uromyces bidenticola
Uromyces dactyloctenii
Uromyces setariae-italicae
Uromyces tenuicutis
Uromyces vignae
Ustilago zeae
Verticillium lecanii**
Xanthomonas campestris pv. campestris
Xanthomonas campestris pv. phaseoli
Xanthomonas campestris pv. vesicatoria**
Xiphinema ensiculiferum*

* Banana nematodes from Grandison (1996)

** New identifications by the author, 1999-2002
(no asterisk) Identifications from McKenzie (1996)

AUTHORS OF PLANT AND FUNGAL NAMES

- A. DC.** — Candolle, Alphonse Louis Pierre Pyramus de
A. Gray — Gray, Asa
A.H.S. Brown — Brown, Agnes H.S.
Allesch. — Allescher, Andreas
Arth. — Arthur, Joseph Charles
Auersw. — Auerswald, Bernhard
A. Zimmerm. — Zimmermann, Albrecht W. Phillip
Bainier — Bainier, Georges
Becc. — Beccari, Odoardo
Benth. — Bentham, George
Bergius — Bergius, Peter Jonas
Berk. — Berkeley, Miles Joseph
Berl. — Berlese, Augusto Napoleone
Biv.-Bern. — Bivona-Bernardi, Antonio de
Blume — Blume, Carl Ludwig von
Boedijn — Boedijn, Karl Bernard
Bolton — Bolton, James
Booth — Booth, Colin B.
Breda de Haan — Breda de Haan, Jacob van
Broome — Broome, Christopher Edmund
Bubak — Bubak, Frantisek
Cav. — Cavanilles
Ces. — Cesati, Vincenzo de
Chev. — Chevallier, Francoise Fulgis
Chupp — Chupp, Charles David
Colla — Colla, Louigi Aloysius
Cooke — Cooke, Mordecai Cubitt
Corda — Corda, August Karl Joseph
Corner — Corner, Edred John Henry
C.P. Seymour — Seymour, C.P.
Crantz — Crantz, Heinrich Johann Nepomuk von
C.T. Wei — Wei, Ching-Chao
Cummins — Cummins, George Baker
Curtis — Curtis, William
C. Welles — Welles, Colin Gilchrist
Dastur — Dastur, Jehangir Fardunji
DC. — Candolle, Agustin Pyramus de
de Bary — Bary, Heinrich Anton de
Deighton — Deighton, Charles Fredrick
De Not. — De Notaris, Giuseppe
Died. — Diedicke, Hermann
Doidge — Doidge, Ethel Mary
Don — Don, George
Druce — Druce, George Claridge
Durand — Durand, Theophile Alexis
E. Mey. — Meyer, Ernest Heinrich Friedrich
Earle — Earle, Franklin Summer
Edson — Edson, Howard Austin
Ehrenb. — Ehrenberg, Christian Gotfried
Ellis — Ellis, Job Bicknell
Everh. — Everhart, Benjamin Matlack
Fitzp. — Fitzpatrick, Harry Morton
F. Noack — Noack, Fritz
Forst. f. — Forster, Carl Friedrich
Fosb. — Fosberg, Francis Raymond
Fr. — Fries, Elias Magnus
Fresen. — Fresenius, Johann Baptiste Georg Wolfgang
F. Stevens — Stevens, Frank Lincoln
Fuckel — Fuckel, Karl Wilhelm Gottlieb Leopold
F.W. Schultz — Schultz, Friedrich Wilhelm
Gaertn. — Gaertner, Joseph
Gaumann — Gaumann, Ernest Albert
G. Cunn. — Cunningham, Gordon Herriot
G.M. Waterhouse — Waterhouse, Grace Marion
G. Preuss — Preuss, (Carl) Gotlieb Traugott
Griffon — Griffon, Edouard
G. Sm. — Smith, George
Guillemin — Guillemin, Jean Baptiste Antoine
Hall. f. — Haller, Albrecht von
Hassk. — Hasskarl, Justus Carl
Henn. — Hennings, Paul Christoph
H. Fawc. — Fawcett, Howard Samuel
Hohn. — Hohnel, Franz Xaver Rudolf von
Holmsk. — Holmskjold, Theodor
Hook. — Hooker, Joseph Dalton
H. & P. Syd. — Sydow, Hans & Paul
Horan. — Horaninow, Paulus (Paul) Fedorowitsch
Horne. — Hornemann, Jens Wilken
Houtt. — Houttuyn, Maarten (Martin)
H. Schrenk — Schrenk, Hermann von
H.T. Gussow — Gussow, Hans Theodor
H. Wendl. — Wendlann, Herman
Jacq. — Jacquin, Nicolaus von
J.C. Fisch. — Fischer, Johann Carl
J.D. Hook. — Hooker, Joseph Dalton
Jenk. — Jenkins, Anna Eliza
Johans. — Johanson, Carl Johan
Klotzsch — Klotzsch, Johann Friedrich
Koorders — Koorders, Sijfert Hendrick
K. Schum. — Schumann, Karl Moritz
Kuhn — Kuhn, Julius Gotthelf
Kunth — Kunth, Karl Sigismund
Kuntze — Kuntze, Carl Ernst Otto
L. — Linnaeus, Carl von
Lagerh. — Lagerheim, Nils Gustaf
Lam — Lam, Herman Johannes

- Lam.** — Lamarck, Jean Baptiste Antoine Pierre de Monnet de
- Lam.** — Lambert, Aylmer Bourke
- Lams.-Scrib.** — Lamson-Scribner, Frank
- Latham** — Latham, Dennis Harold
- Lev.** — Leveille, Joseph Henri
- L.H. Bailey** — Bailey, Liberty Hyde
- Lib.** — Libert, Marie-Anne
- Linder** — Linder, David Hunt
- Lindl.** — Lindley, John
- Link** — Link, Johann Heinrich Friedrich
- Loureiro** — Loureiro, Joao de
- M.A. Curtis** — Curtis, Moses Ashley
- Magnus** — Magnus, Paul Wilhelm
- Mart.** — Martius, Carl Friedrich Philipp von
- Maubl.** — Maublanc, Andre
- M.B. Ellis** — Ellis, Martin B.
- McAlpine** — McAlpine, Daniel
- Merr.** — Merril, Elmer Drew
- Metch.** — Metchnikoff
- Miller** — Miller, Philip
- Mont.** — Montagne, Jean Pierre Francoise Camille
- Morelet** — Morelet, Michel
- Moug.** — Mougeot, Jean Baptiste
- Muell.** — Mueller, Ferdinand Jacob Heinrich von
- Muntanola** — Muntanola, Maria
- Murrill** — Murrill, William Alfonso
- Nees** — Nees von Esenbeck, Christian Gottfried Daniel
- Niessl** — Niessl von Mayendorf, Gustav
- Nitschke** — Nitschke, Theodor Rudolf Joseph
- Park.** — Parkinson, Charles Edward
- Pat.** — Patouillard, Narcisse Theophile
- Pavon** — Pavon, Jose Antonio
- P.A. Young** — Young, Paul Allen
- Penz.** — Penzig, Albert Julius Otto
- Pers.** — Persoon, Christiaan Hendrick
- Petr., Petrak** — Petrak, Franz
- P. Mich.** — Micheli, Pier' Antonio
- Prain** — Prain, David
- Pringsh.** — Pringsheim, Nathanael
- Quel.** — Quelet, Lucien
- Racib.** — Raciborski, Marjan
- Radlk.** — Radlkofer, Ludwig Adolph Timotheus
- Ravaz** — Ravaz, Louis Etienne
- Raven** — Raven, Peter Hamilton
- R. Br.** — Brown, Robert
- Rech.** — Rechinger, Karl
- Rehm** — Rehm, Heinrich (Simon Ludwig Friedrich Felix)
- Retz.** — Retzius, Anders Jahan
- Roem.** — Roemer, Max Joseph
- Rostr.** — Rostrup, (Frederick Georg) Emil
- Roxb.** — Roxburgh, William
- Ruehle** — Ruehle, George Dewey
- Ruiz** — Ruiz Lopez, Hipolito
- Sacc.** — Saccardo, Pier Andrea
- Sawada** — Sawada, Kaneyoshi
- Schlechtend.** — Schlechtendahl, Diedrich Franz Leonhard von
- Schott** — Schott, Heinrich Wilhelm
- Schwein.** — Schweinfurth, Georg August
- Schwein.** — Schweinitz, Lewis David von
- Singer** — Singer, Rolf
- Sivanesan** — Sivanesan, A.
- Sobers** — Sobers, Edward K.
- Sorokin** — Sorokin, Nikolai Vasilevich
- Spauld.** — Spaulding, Perley
- Speg.** — Spegazzini, Carlo Luigi
- Spessa** — Spessa, Caroline
- Steyaert** — Steyaert, Rene
- Sturm** — Sturm, Jacob
- Sutton** — Sutton, Brian C.
- Swingle** — Swingle, Walter Tennyson
- Thoms.** — Thomson, Thomas
- Thuem.** — Thumen, Felix Karl Albert Ernst Joachim von
- Tracy** — Tracy, Samuel Mills
- Traverso** — Traverso, Giovanni Battista
- Unger** — Unger, Franz Joseph Andreas Nicolaus
- van der Aa** — van der Aa, H.A.
- Venten.** — Ventenat, Etienne Pierre
- Verdc.** — Verdcourt, Bernard
- Viala** — Viala, Pierre
- Viegas** — Viegas, Ahmes Pinto
- Voglino** — Voglino, Pietro
- Vuill.** — Vuillemin, Jean Paul
- Walp.** — Walpers, Wilhelm Gerhard
- W. Bull** — Bull, William
- Willd.** — Willdenow, Carl Ludwig von
- Woronin** — Woronin, Michael, Stepanovich

BIBLIOGRAPHY

- Arauz LF. 2000. Mango anthracnose: Economic impact and current options for integrated management. *Plant Disease* 84(6): 600-611.
- Barbetti MJ. 1991. Effects of temperature and humidity on diseases caused by *Phoma medicaginis* and *Leptosphaerulina trifolii* in lucerne (*Medicago sativa*). *Plant Pathology* 40: 296-301.
- Barnett HL, Hunter BB. 1998. Illustrated genera of imperfect fungi, 4th ed. St. Paul, MN: APS Press.
- Barr ME. 1970. Some amerosporous Ascomycetes on Ericaceae and Empetraceae. *Mycologia* 62(2): 377-394.
- Barr ME. 1976. *Buergenerula* and the Physosporellaceae. *Mycologia* 68(3): 611-621.
- Barreto RW, Evans HC. 1995. Mycobiota of the weed *Cyperus rotundus* in the state of Rio de Janeiro, with an elucidation of its associated *Puccinia* complex. *Mycological Research* 99(4): 407-419.
- Booth C, Pirozynski KA. 1967. *Leptosphaerulina trifolii*. CMI descriptions of pathogenic fungi and bacteria, No. 146. Kew, Surrey: Commonwealth Mycological Institute.
- Borah RK, Dutta D, Hazarika P. 1998. Three new *Phyllachora* leaf spots from Assam. *Indian Journal of Forestry* 21(3): 256-258.
- Brady BLK. 1979a. *Metarhizium anisopliae*. CMI descriptions of pathogenic fungi and bacteria, No. 609. Kew, Surrey: Commonwealth Mycological Institute.
- Brady BLK. 1979b. *Verticillium lecanii*. CMI descriptions of pathogenic fungi and bacteria, No. 610. Kew, Surrey: Commonwealth Mycological Institute.
- Brooks FE. 1999. Incidence and distribution of Banana Bunchy Top Virus in American Samoa. *Journal of South Pacific Agriculture* 6(1): 25-28.
- Brooks FE. 2002. Brown root rot disease in American Samoa's tropical rain forests. *Pacific Science* 56(4). (in press)
- Brown AHS, Smith G. 1957. The genus *Paecilomyces* Bainier and its perfect stage *Byssochlamys* Westling. *Transactions of the British Mycological Society* 40(1): 17-89.
- Callaway MB, Phatak SC, Wells HD. 1985. Studies on alternate hosts of the rust *Puccinia canaliculata*, a potential biological control agent for nutsedges. *Plant Disease* 69: 924-926.
- Chang TT. 1995. Decline of nine tree species associated with brown root rot caused by *Phellinus noxius* in Taiwan. *Plant Disease* 79: 962-965.
- Chang TT, Yang WW. 1997. *Phellinus noxius* in Taiwan: distribution, host plants and the pH and texture of the rhizosphere soils of infected hosts. Paper No. 92. Taipei, Taiwan: Taiwan Forestry Research Institute.
- Chase AR, Broschat TK, editors. 1991. Diseases and disorders of ornamental palms. St. Paul, MN: APS Press.

- Cummins GB, Hiratsuka Y. 1996. Illustrated genera of rust fungi. St. Paul, MN: APS Press.
- Deighton FC. 1967. Studies on *Cercospora* and allied genera. II. Mycological Papers, No. 112. Kew, Surrey: Commonwealth Mycological Institute.
- Deighton FC. 1985. Some species of *Nodulisporium*. Transactions of the British Mycological Society 85(3): 391-395.
- Department of Commerce (Statistics Division). 1996. American Samoa statistical yearbook. Pago Pago, AS: American Samoa Government.
- Dumbleton LJ. 1954. A list of plant diseases recorded in South Pacific Territories, Technical Paper 78. Noumea, New Caledonia: South Pacific Commission.
- Ellett CW. 1989. *Curvularia* blight of *Ophioglossum vulgatum*. Mycologia 81(5): 815-817.
- Ellis MB. 1971. Dematiaceous Hyphomycetes. Kew, Surrey: Commonwealth Mycological Institute.
- Ellis MB. 1976. More dematiaceous Hyphomycetes. Kew, Surrey: Commonwealth Mycological Institute.
- Ellis MB, Holliday P. 1972. *Cordana musae*. CMI descriptions of pathogenic fungi and bacteria, No. 350. Kew, Surrey: Commonwealth Mycological Institute.
- Erwin DC, Ribeiro OK. 1996. *Phytophthora* diseases worldwide. St. Paul, MN: APS Press.
- Farr DF, Bills GF, Chamuris GP, Rossman AY. 1989. Fungi on plants and plant products in the United States. St. Paul, MN: APS Press.
- Fidalgo O. 1968. *Phellinus pachyphloeus* and its allies. Memoirs of the New York Botanical Garden 17(2): 109-147.
- Firman ID. 1975. Plant diseases in the area of the South Pacific Commission: 2. American Samoa. Noumea, New Caledonia: South Pacific Commission.
- Gardner DE. 1994. The native rust fungi of Hawaii. Canadian Journal of Botany 72(7): 976-989.
- Graf AB. 1992. Tropica, 4th ed. East Rutherford, NJ: Roehrs Company.
- Graham JH, Luttrell ES. 1961. Species of *Leptosphaerulina* on forage plants. Phytopathology 51: 680-693.
- Grandison GS. 1996. Plant-parasitic nematodes of American Samoa, Technical Paper No. 205. Noumea, New Caledonia: South Pacific Commission.
- Hall R. 1991. Compendium of bean diseases. St. Paul, MN: APS Press.
- Hanlin RT. 1990. Illustrated genera of Ascomycetes, Vol. I. St. Paul, MN: APS Press.
- Hanlin RT. 1998a. Illustrated genera of Ascomycetes, Vol. II. St. Paul, MN: APS Press.

- Hanlin RT. 1998b. Combined keys to illustrated genera of Ascomycetes: Vols. I & II. St. Paul, MN: APS Press.
- Hawksworth DL, Kirk PM, Sutton BC, Pegler DN. 1995. Ainsworth & Bisby's dictionary of the fungi, 8th ed. Wallingford, UK: CAB International.
- Huang S, Liu X. 1995. Control of postharvest stem end rot of mango. Tropical Science 35: 321-326.
- Index of Botanists. 2001. Harvard University Herbaria. Published on the Internet, http://www.huh.harvard.edu/database/cms/botanists_index.html (accessed 12 August 2002).
- Irwin JAG, Davis RD. 1985. Taxonomy of some *Leptosphaerulina* spp. on legumes in Eastern Australia. Australian Journal of Botany 33: 233-237.
- Jones JB, Jones JP, Stall RE, Zitter TA, editors. 1991. Compendium of tomato diseases. St. Paul, MN: APS Press.
- Keener PD. 1934. Biological specialization in *Darluca filum*. Bulletin of the Torrey Botanical Club 61(9): 475-491.
- Khalil SK, Taborsky V. 1982. The effect of different media on the growth and sporulation of the entomopathogenic fungus *Verticillium lecanii* (Zimm.) Viegas. Agricultura Tropica et Subtropica, Universitas Agriculturae, Praga: 251-261.
- Kohler F, Pellegrin F, Jackson G, McKenzie E. 1997. Diseases of cultivated crops in Pacific island countries. Noumea, New Caledonia: South Pacific Commission.
- Lee SS, Zakaria M. 1993. Fungi associated with heart rot of *Acacia mangium* in Peninsular Malaysia. Journal of Tropical Forest Science 5(4): 479-484.
- Leung HYM, Goh TK, Hyde KD. 1997. *Cercospora mikaniacola*. IMI descriptions of fungi and bacteria No. 1311. Egham, Surrey: International Mycological Institute.
- Luc M, Sikora RA, Bridge J, editors. 1990. Plant parasitic nematodes in subtropical and tropical agriculture. Wallingford, UK: Commonwealth Agricultural Bureaux International.
- Magee CJ. 1967. The control of banana bunchy top, Technical Paper No. 150. Noumea, New Caledonia: South Pacific Commission.
- Mai WF, Mullin PG. 1996. Plant-parasitic nematodes: A pictorial key to genera, 5th ed. Ithaca, NY: Cornell University Press.
- McKenzie EHC. 1996. Fungi, bacteria and pathogenic algae on plants in American Samoa, Technical Paper No. 206. Noumea, New Caledonia: South Pacific Commission.
- McKenzie EHC, Jackson GVH. 1990. The fungi, bacteria and pathogenic algae of the Federated States of Micronesia. Noumea, New Caledonia: South Pacific Commission.
- Mordue JEM. 1971. *Glomerella cingulata*. CMI descriptions of pathogenic fungi and bacteria, No. 315. Kew, Surrey: Commonwealth Mycological Institute.

- Mordue JEM. 1980. *Pestalotiopsis mangiferae*. CMI descriptions of pathogenic fungi and bacteria, No. 676. Kew, Surrey: Commonwealth Mycological Institute.
- Mordue JEM, Holliday P. 1971. *Pestalotiopsis palmarum*. CMI descriptions of pathogenic fungi and bacteria, No. 319. Kew, Surrey: Commonwealth Mycological Institute.
- Mulder JL, Holliday P. 1974a. *Mycosphaerella fijiensis*. CMI descriptions of pathogenic fungi and bacteria, No. 413. Kew, Surrey: Commonwealth Mycological Institute.
- Mulder JL, Holliday P. 1974b. *Mycosphaerella musicola*. CMI descriptions of pathogenic fungi and bacteria, No. 414. Kew, Surrey: Commonwealth Mycological Institute.
- Nandris D, Nicole M, Geiger JP. 1987. Root rot disease of rubber trees. Plant Disease 71(4): 298-306.
- Olanya OM, Campbell CL. 1990. Isolate characteristics and epidemic components of *Leptosphaerulina* leaf spots on alfalfa and white clover. Phytopathology 80: 1278-1282.
- Onions AHS. 1979a. *Paecilomyces farinosus*. CMI descriptions of pathogenic fungi and bacteria, No. 613. Kew, Surrey: Commonwealth Mycological Institute.
- Onions AHS. 1979b. *Paecilomyces fumosoroseus*. CMI descriptions of pathogenic fungi and bacteria, No. 614. Kew, Surrey: Commonwealth Mycological Institute.
- Onions AHS. and Barron, G.L. 1967. Monophialidic species of *Paecilomyces*. Mycological Papers, No. 107. Kew, Surrey: Commonwealth Mycological Institute.
- Pegler DN, Waterston JM. 1968a. *Phellinus noxius*. CMI descriptions of pathogenic fungi and bacteria, No. 195. Kew, Surrey: Commonwealth Mycological Institute.
- Pegler DN, Waterston JM. 1968b. *Rigidoporus zonalis*. CMI descriptions of pathogenic fungi and bacteria, No. 200. Kew, Surrey: Commonwealth Mycological Institute.
- Ploetz RC, Zentmyer GA, Nishijima WT, Rohrbach KG, Ohr HD, editors. 1994. Compendium of tropical fruit diseases. St. Paul, MN: APS Press.
- Punithalingam E, Holliday P. 1973. *Botryosphaeria ribis*. CMI descriptions of pathogenic fungi and bacteria, No. 395. Kew, Surrey: Commonwealth Mycological Institute.
- Raabe RD, Conners IL, Martinez AP (College of Tropical Agriculture and Human Resources). 1981. Checklist of plant diseases in Hawaii. Honolulu, HI: University of Hawai'i at Manoa.
- Singh S, Bola I, Kumar J. 1980. Diseases of plantation trees in Fiji Islands: 1. Brown root rot of mahogany (*Swietenia macrophylla* King). Indian Forester: 526-533.
- Sivanesan A. 1984. The bitunicate Ascomycetes and their anamorphs. Vaduz, Germany: J Cramer.
- Sivanesan A, Critchett C. 1974. *Elsinoe fawcettii*. CMI descriptions of pathogenic fungi and bacteria, No. 438. Kew, Surrey: Commonwealth Mycological Institute.

- Style Manual Committee, Council of Biology Editors. 1994. Scientific style and format: The CBE manual for authors, editors, and publishers, 6th ed. Cambridge: Cambridge University Press.
- Sutton BC. 1969. Forest microfungi. III. The heterogeneity of *Pestalotia* deNot. section sexloculate Klebahn sensu Guba. Canadian Journal of Botany 47: 2083-2094.
- Sutton BC. 1980. The Coelomycetes. Kew, Surrey: Commonwealth Mycological Institute.
- Swendsrud DP, Calpouzos L. 1970. Rust uredospores increase the germination of pycnidiospores of *Darluca filum*. Phytopathology 60: 1445-1447.
- The Plant Names Project. 1999. International plant names index. Published on the Internet, <http://www.ipni.org> (accessed 8 August 2002).
- Vidal C, Lacey LA, Fargues J. 1997. Pathogenicity of *Paecilomyces fumosoroseus* (Deuteromycotina: Hyphomycetes) against *Bemisia argentifolii* (Homoptera: Aleyrodidae) with a description of a bioassay method. Journal of Economic Entomology 90(3): 765-772.
- Waterhouse DF, Norris KR. 1987. Biological control: Pacific prospects. Melbourne: Inkata Press.
- Waterhouse GM, Waterston JM. 1964. *Pythium aphanidermatum*. CMI descriptions of pathogenic fungi and bacteria, No. 36. Kew, Surrey: Commonwealth Mycological Institute.
- Whistler WA. 1984. Annotated list of Samoan plant names. Economic Botany 38(4): 464-489.
- Whistler WA. 1992. Flowers of the Pacific Island seashore. Honolulu, HI: University of Hawaii Press.
- Whistler WA. (Cooperative National Park Resources Studies Unit). 1994a. Botanical inventory of the proposed Tutuila and Ofu units of the National Park of American Samoa. Technical Report 87. Honolulu, HI: University of Hawai'i at Manoa.
- Whistler WA. 1994b. Wayside plants of the islands: A guide to the lowland flora of the Pacific Islands. Hong Kong: Everbest Printing Company.
- Whiteside JO, Garnsey SM, Timmer LW, editors. 1988. Compendium of citrus diseases. St. Paul, MN: APS Press.
- Wingert EA. (project director). 1981. A coastal zone management atlas of American Samoa. Honolulu, HI: University of Hawai'i Cartographic Laboratory.
- Yudin L, Schlub R. 1998. Guam cucurbit guide. Mangilao, Guam: UOG Station, University of Guam.
- Zitter TA, Hopkins DL, Thomas CE, editors. 1996. Compendium of cucurbit diseases. St. Paul, MN: APS Press.