

Land Grant Technical Report No. 44

List of Plant Diseases in American Samoa 2006



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TITLE PAGE. Diseases caused by *Phytophthora palmivora* in American Samoa (clockwise from upper left): rot of breadfruit (*Artocarpus altilis*); root rot of papaya (*Carica papaya*); black pod of cocoa (*Theobroma cacao*); sporangia of *P. palmivora*.

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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 independent Samoa, planted over large areas of the islands. When *P. colocasiae* arrived it rapidly spread through the susceptible Samoan cultivars. Establishment of leaf blight resistant taro from the Republic of Palau in 1997 has revived local production. Currently, breeding lines from Southeast Asia and the Pacific are being introduced to improve eating quality and increase genetic diversity.

Banana Bunchy Top Virus, devastating in many parts of the Pacific, was introduced to American Samoa in the late 1950s (Magee 1967). A territory-wide survey (Brooks 1999) 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. The percentage of disease in some of the commercial plantations, however, was over 10%. The main limitations to banana production are black leaf streak disease (*Mycosphaerella fijiensis*), fruit damage by banana scab moth larvae (*Nacoleia octasema*), and plant-parasitic nematodes.

A survey of banana plantations in 2002-2003 revealed that every field (n = 25) was infested with root-parasitic nematodes (Brooks 2004). The average number of these nematodes per commercial field (n = 16) was 28,500 per 100 g of roots. Spiral nematodes (*Helicotylenchus multicinctus*, *H. dihystera*) averaged 23,000 per 100 g of roots, and the more damaging burrowing nematode (*Radopholus similis*) averaged 4,680 per 100 g of roots. Two lesion nematodes, *Pratylenchus loosi* and *P. gibbicaudatus*, were new records for American Samoa. The former is usually found on tea and coffee and the latter has never been reported on *Musa* spp. This was only the second report of *P. gibbicaudatus* outside of Japan.

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 October 2006. Separate sections list wood decay fungi, plant-parasitic algae, and 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. Many of the specimens collected during the past six years were causing minor damage to their host. Due to the time and cost of having them identified at a reputable off-island facility, some of these identifications are tentative. A voucher collection – herbarium sheets, microscope slides, photomicrographs, and photographs – has been established at the Tauiiili Pamerika Center for Tropical Agricultural Research, USDA Land Grant Division, American Samoa Community College.

Fred Brooks
October 2006

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, in brackets, follow the abbreviated author(s) names. 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.

Color plates. Photographs of plant pathogens and plant disease signs or symptoms can be downloaded separately. Each plate is referred to in the indexes following the name of the host or pathogen.

Pathogen-host index. This is an alphabetical listing by genus 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.

Wood decay fungi. A list of macro-fungi collected by the author from 2001-2004 and accessioned into the Land Grant Herbarium (ASLG). Identifications confirmed by the USDA Forest Service Forest, Products Laboratory, Center for Mycology Research, Madison, WI, are followed by an asterisk. The list includes wood decay fungi collected by McKenzie in 1989 (PDD), and other decay fungi mentioned by him in his 1996 report (no accession numbers).

Plant-parasitic algae and their host plants. Five species of parasitic algae in the genus *Cephaleuros* and two in *Stomatochroon* are listed, followed by the family, genus, and species of their host(s).

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.

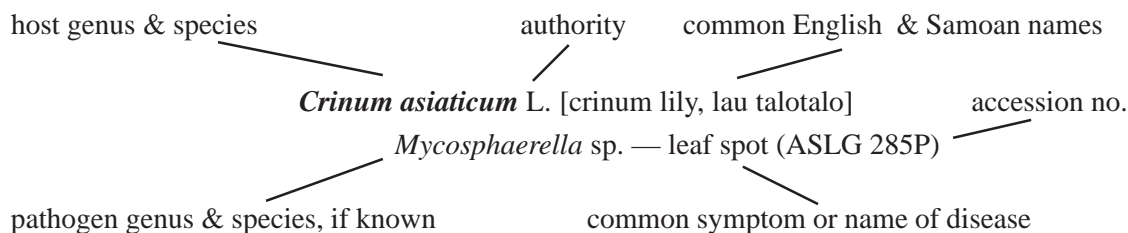
List of host plants by family. This is a useful entry for references like Farr et al. (1986) and Whistler (1994a), where it is necessary to know plant families in order to find genus and species information.

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. 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 authorities listed in the indexes.

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

HOST-PATHOGEN INDEX



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

Adenantha pavonina L. [lopa]

Phellinus noxius — brown root rot

Aglaia samoensis A. Gray

Stagonospora sp. — from bark canker (ASLG479P)

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

Colletotrichum sp. — leaf spot (ASLG242P)

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

Cercospora sp. — leaf spot

Colletotrichum gloeosporioides — leaf spot (ASLG230P)

Glomerella cingulata — anthracnose (ASLG235P)

Helicotylenchus dihystra — spiral nematode (423P)

Leptosphaerulina trifolii — from taro leaf blight lesion (ASLG452P)

Macrophoma sp. — from taro leaf blight lesion (ASLG451P)

Mycosphaerella alocasiae — leaf spot (ASLG007P) (**Plate 2**)

Pestalotiopsis sp. — from leaf spot (ASLG033P)

Phoma sp. — from leaf spot (ASLG135P)

Phytophthora colocasiae — taro leaf blight (ASLG003,026,354,394,432P)

Pratylenchus sp. — lesion nematode (ASLG422P)

Angiopteris evecta Hoffm.

Cercospora sp. — leaf spot (ASLG472P)

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

Cercospora sp. — leaf spot (ASLG326P)
Colletotrichum sp. — from leaf spot, fruit necrosis (ASLG 344,349,358,368P) (**Plate 3**)
Glomerella sp. — angular leaf spot (ASLG150P)
Phellinus noxius — brown root rot (ASLG228P)
Phomopsis sp. — from necrotic spines on fruit (ASLG367P)
*Phyllosticta artocarp*i — angular leaf spot (ASLG084,225P)
Physalospora rhodina — leaf spot (ASLG 030P)
Phytophthora palmivora — fruit rot (ASLG343,347,352,356P)
*Pseudocercospora artocarp*i — leaf spot (ASLG326,456P)
Sclerotium sp. — rot of fruit on ground (ASLG369P)

Barringtonia asiatica (L.) Kurz [futu]

Cercospora sp. — leaf spot
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

Bischofia javanica Blume ['o'a]

Pestalotiopsis sp. — leaf spot (ASLG167P)

Bixa orellana L. [lipstick-tree, loa]

Cercospora bixae — leaf spot

Bougainvillea spectabilis Willd. [bougainvillea, felila]

Cercosporidium bougainvilleae — leaf spot (ASLG154P) (**Plates 4, 5**)

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

Ascochyta sp. — from leaf spots (ASLG270P)
Cercospora brassicicola — from leaf necrosis (ASLG271P)
Colletotrichum gloeosporioides — from leaf necrosis (ASLG272,415P)
Erwinia sp. — bacterial crown rot
Leptosphaerulina trifolii — from leaf spots (ASLG 269,454P)
Pythium spp. — damping-off

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

Cercospora broussonetiae — leaf spot

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

Colletotrichum sp. — anthracnose (ASLG296P)

Lasiodiplodia theobromae — on anthracnose lesion (ASLG297P)

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 (ASLG210,249P)

Canarium harveyi Seem. [mafoa]

Colletotrichum sp. — leaf spot (ASLG181P)

Phellinus noxius — brown root rot

Canna indica L. [canna lily, fagamanu]

Mycosphaerella sp. — leaf spot

Puccinia sp. — rust (ASLG020P)

Uredo pseudocannae — rust

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

Colletotrichum sp. — anthracnose (ASLG200P) (**Plate 6**)

Phytophthora parasitica — root and crown rot (ASLG190P)

Ralstonia solanacearum — bacterial wilt (**Plate 15**)

Rhizopus stolonifer — fruit rot (ASLG201P)

Carica papaya L. [papaya, esi]

Calonectria sp. — from collar rot (ASLG350P)

Colletotrichum gloeosporioides — leaf spot (ASLG171P)

Corynespora cassiicola — target leaf spot (ASLG068,286P) (**Plates 7, 8**)

Macrophoma sp. — from fruit rot (ASLG430P)

Phoma sp. — stem canker (ASLG355P)

Phomopsis sp. — stem canker (ASLG370P)

Pythium sp. — damping off (ASLG353P)

Phytophthora palmivora — root and crown rot (ASLG351,357P,373,416,441,449P)

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

Lasiodiplodia theobromae — branch dieback (ASLG274P) (**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 (ASLG208P)

Citrus aurantifolia L. Swingle [lime]

Colletotrichum sp. — anthracnose

Lasiodiplodia theobromae — branch dieback (ASLG290P)

***Citrus* sp.** L. [citrus, moli]

Capnodium sp. — sooty mold

Chaetomella sp. — on leaves

Colletotrichum gloeosporioides — leaf anthracnose

Lasiodiplodia theobromae — on dead bark (ASLG152P)

Meloidogyne sp. — root knot nematode

Phellinus noxius — (ASLG248P)

Phomopsis citri — citrus melanose

Sphaceloma fawcettii var. *scabiosa* — citrus scab (ASLG169P)

Cocos nucifera L. [coconut palm, niu]

Colletotrichum sp. — from coalesced leaf spots (ASLG162P)

Leptosphaeria sp. — gray leaf blotch (ASLG262P)

Mycosphaerella sp. — leaf spot (ASLG283P)

Pestalotiopsis palmarum — gray leaf spot (ASLG046P)

Phoma sp. — leaf spot (ASLG263P)

Phomopsis sp. — leaf spot (ASLG264P)

Phyllosticta sp. — leaf spot

Septoria sp. — from leaf spot

causal agent unknown — American Samoa coconut yellowing (ASLG226P)

Codiaeum variegatum (L.) Blume [croton]

Colletotrichum sp. — leaf spot (ASLG237P)

Coix lacryma-jobi L. [sanasana]

Mycosphaerella sp. — leaf spot (ASLG281P)

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

- Cladosporium* sp. — sooty mold
- Cladosporium colocassiicola* — leaf blight in greenhouse (ASLG467P) (**Plate 23**)
- Colletotrichum gloeosporioides* — from leaf blight lesions (ASLG256,397,460P)
- Colletotrichum* sp. — from chlorotic leaves (ASLG233P)
- Curvularia* sp. — from Leptosphaerulina leaf spot (ASLG170P)
- Dasheen Mosaic Virus — leaf chlorosis, discoloration (**Plate 10**)
- Fusarium solani* — root and corm rot (ASLG308P)
- Glomerella cingulata* — from leaf blight lesions (ASLG257,419,460P)
- Gonatobotryum* sp. — on leaves and petioles
- Helicotylenchus dihystra* — nematode root damage (ASLG379,425P)
- Helicotylenchus* sp. — nematode root damage (ASLG023P)
- Leptosphaeria* sp. — from Leptosphaerulina leaf spot (ASLG147P)
- Leptosphaerulina trifolii* — leaf spot (ASLG143,412,420,456,457,474P) (**Plates 11, 12**)
- Marasmiellus stenophyllus* — stem and corm rot (ASLG027M)
- Phoma* sp. — from leaf blight lesions (ASLG255P)
- Phytophthora colocasiae* — taro leaf blight (ASLG003,354,394P) (**Plates 13, 14**)
- Pythium aphanidermatum* — root and corm rot (ASLG278P)
- Pythium* sp. — corm rot (ASLG378,427P)
- 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 (ASLG231P)
- Phyllosticta* sp. — from leaf spot (ASLG070P)

Crinum asiaticum L. [crinum lily, lau talotalo]

- Mycosphaerella* sp. — leaf spot (ASLG285P)

Crossostylis biflora Forst. [saitamu]

- Phellinus noxius* — brown root rot

Cucumis sativus L. [cucumber, kukama]

- Cercospora citrullina* — leaf spot
- Corynespora cassiicola* — leaf spot (ASLG184,360,366P)

Didymella bryoniae — gummy stem blight (ASLG207P)
Erysiphe sp. — powdery mildew (ASLG361P)
Leptosphaerulina trifolii — leaf spot (ASLG465P)
Meloidogyne sp. — root knot nematode (376P)
Oidium sp. — powdery mildew
Phoma cucurbitacearum — gummy stem blight, leaf spot (ASLG149)
Pythium aphanidermatum — wilt, fruit, root, crown rot (ASLG177P) (**Plates 16**)
Pythium spp. — damping-off, root and crown rot (ASLG016,177,459P)
Rhizoctonia solani — damping-off, fruit rot (ASLG142P)
Zucchini Yellow Mosaic Virus — stunt, distortion, death (ASLG391P)

Cuphea melvilla Lindl. [firecracker plant]
Phyllosticta sp. — from necrotic leaf tip (ASLG294P)

Cyperus rotundus L. [purple nut sedge, mumuta]
Puccinia canaliculata — leaf rust (ASLG059P)

Dendrolobium umbellatum (L.) Benth. [lala]
Cercospora sp. — leaf spot (ASLG145P)
Pestalotiopsis sp. — from leaf spot

Diffenbachia Schott [dumbcane]
Lophodermium sp. — leaf spot

Digitaria setigera Roem. & F.W. Schultz [crab grass]
Puccinia oahuensis — leaf and stem rust (ASLG130P)

Dioscorea bulbifera L. [bitter yam, soi]
Cercospora sp. — leaf spot (ASLG407P)
Mycosphaerella sp. — leaf spot (ASLG408P)

Diospyros samoensis A. Gray [au'auli]

Glomerella sp. — from leaf spot (ASLG365P)
Phellinus noxius — brown root rot
Phyllosticta sp. — leaf spot (ASLG362P)

Dysoxylum samoense A. Gray [tufaso]
Phellinus noxius — brown root rot (ASLG385P)
Pseudocercospora subsessilis — leaf spot (ASLG199P)

Elatostachys 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 — leaf spot (ASLG073P)

Phoma sp. — leaf spot (ASLG234, 238P)

Euphorbia pulcherrima Willd. ex Klotzsch [poinsettia]

Colletotrichum sp. — leaf anthracnose (ASLG390P)

Dothiorella sp. — branch dieback

Glomerella sp. — leaf necrosis

Lasiodiplodia theobromae — branch dieback (ASLG172P)

Phoma sp. — branch dieback (ASLG151P)

Phomopsis sp. — branch dieback

Sphaceloma poinsettiae — leaf and stem scab (ASLG389P)

Fagraea berteriana A. Gray [pualulu]

Sphaerulina sp. — leaf spot (ASLG258P)

Colletotrichum sp. — leaf spot

Faradaya amicum Seem. [mamalupe]

Pestalotiopsis sp. — leaf spot (ASLG192P)

Ficus elastica Roxb. ex Horne. [rubber plant]

Mycosphaerella sp. — leaf spot (ASLG254P)

Ficus obliqua Forst. f. [banyan tree, aoa]

Phellinus noxius — brown root rot

Ficus scabra (mati vao)Forst. f. [mati'ata]

Phyllachora sp. — tar spot (ASLG198,280,330P)

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

Phyllachora sp. — tar spot (ASLG229P)

Phellinus noxius — brown root rot

Fluggea flexuosa Muell. Arg. [poumuli]

Colletotrichum sp. — from stem canker (ASLG426P)

Phellinus noxius — brown root rot (ASLG251P)

Glochidion ramiflorum Forst. [masame]

Phellinus noxius — brown root rot

Gloxinia perennis Druce [Canterbury bells]

Colletotrichum sp. — blossom blight (ASLG300P)

Corynespora cassicola — on blighted blossoms (ASLG301P)

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

Colletotrichum sp. — leaf spot

Leptosphaeria sp. — leaf spot (ASLG260P)

Mycosphaerella hedychii — leaf spot (ASLG074P)

Pestalotiopsis sp. — leaf spot

Phoma sp. — leaf spot (ASLG261P)

Heliconia humilis L. [lobster claw]

Colletotrichum sp. — from leaf anthracnose (ASLG099P)

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

Mycosphaerella sp. — from leaf anthracnose

Physalospora sp. — from leaf anthracnose

Septoria sp. — from leaf anthracnose (ASLG157P)

Heliconia psittacorum L. fil [parrot flower]

Curvularia sp. — leaf spot (ASLG268P)

Dothiorella sp. — from leaf spot

Leptosphaeria sp. — from leaf spot

Heliconia sp. L. [wild heliconia]

Cercospora sp. — leaf spot (ASLG404P)

Fusarium sp. — root, rhizome rot (ASLG377P)

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

Phellinus noxius — brown root rot

Hibiscus manihot L. [edible hibiscus, pele]

Cercospora malayensis — angular leaf spot (ASLG403P)

Cercospora sp. — leaf spot (ASLG218P)

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

Cercospora althaeina — leaf spot (ASLG166P)

Colletotrichum — leaf spot (ASLG240P)
Curvularia sp. — leaf anthracnose
Leptosphaeria sp. — from leaf spots (ASLG241P)
Phellinus noxius — root and crown rot (ASLG188P)
Phoma sp. — leaf spot (ASLG239P)
Phyllosticta sp. — from leaf spots
unidentified — sooty mold

Hibiscus tiliaceus L. [beach hibiscus, fau]

Colletotrichum gloeosporioides — (ASLG027) leaf spot
Pestalotiopsis sp. — leaf spot
Phellinus noxius — root and crown rot (ASLG250P) (**Plate 18**)
Phoma sp. — leaf spot
Phyllachora sp. — tar spot (ASLG219P)

Hydrangea macrophylla (Thunb.) Ser.

Cercospora sp. — from leaf spots (ASLG476P) (**Plate 1**)
Colletotrichum gloeosporioides — from leaf spots (ASLG478P)
Guignardia sp. — from leaf spots (ASLG475P)

Inocarpus fagifer (Parkinson) Fosb. [ifi]

Phellinus noxius — brown root rot

Intsia bijuga (Colebr.) Kuntze [ifilele]

Colletotrichum sp. — leaf spot (ASLG179P)
Phellinus noxius — root and crown rot (**Plate 19**)
Phyllachora afzeliae — tar spot (ASLG211,469P)
Phyllachora sp. — tar spot (ASLG312P)

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

Kyllinga nemoralis (Forst.) Dandy ex Hutchinson & Dalziel [sedge, kili'o'opu]

Puccinia sp. — rust (ASLG327,328P)

Lagerstroemia indica L. [crape-myrtle]

Oidium sp. — powdery mildew

Lansium domesticum Correa [langsat]

Fusarium solani — branch dieback (ASLG314P)

Nectria sp. — branch dieback (ASLG259P)

Ludwigia octovalvis (Jacq.) Raven [primrose willow]

Cercospora sp. — leaf spot (ASLG175P)

Lycopersicon esculentum Miller [tomato]

Botryosphaeria dothidea — from leaf spot (ASLG095P)

Corynespora cassiicola — leaf spot (ASLG056P)

Colletotrichum coccodes — from lesion on fruit (ASLG439P)

Colletotrichum gloeosporioides — leaf spot

Dothiorella sp. — from leaf spot (ASLG095P)

Erwinia carotovora subsp. *carotovora* — bacterial stem rot (ASLG014P)

Fusarium oxysporum f.sp. *lycopersici* — wilt (ASLG424P)

Meloidogyne incognita — root knot nematode (ASLG164,253,393P) (**Plates 20, 21**)

Pestalotiopsis sp. — from leaf spot

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

Sclerotinia sclerotiorum — stem canker

Xanthomonas campestris pv. *vesicatoria* — bacterial wilt

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

Phellinus noxius — brown root rot (ASLG176P)

Macaranga stipulosa Muell. Arg. [lau fitu]

Phellinus noxius — brown root rot (ASLG176P)

Mangifera indica L. [mango, mago]

Colletotrichum gloeosporioides — anthracnose, flower blight (ASLG194,275P) (**Plate 22**)

Dendrophoma sp. — from leaf spots

Lophodermium sp. — on dead stems

Pestalotiopsis mangiferae — gray leaf spot (ASLG195P)

Phellinus noxius — brown root rot (ASLG386P,388P)

Stigmina mangiferae — leaf spot (ASLG295P,380P)

Manihot esculenta Crantz [tapioca, manioka]

Botryosphaeria sp. — from leaf spots

Cercospora sp. — leaf spot
Cercosporidium henningsii — leaf spot (ASLG065,371P)
Mycosphaerella henningsii — leaf spot (ASLG311P)

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

Pestalotiopsis sp. — gray leaf spot (ASLG197,236P)
Pythium sp. — root and crown rot

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 (ASLG273P)

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

Cercospora mikaniacola — leaf spot (ASLG037P)
Cercospora sp. — leaf spot
Cladosporium sp. — from leaf spot (ASLG336P)
Marasmiellus sp. — on dead stem

Momordica charantia L. [bitter gourd]

Cercospora citrullina — leaf spot (ASLG045,323P) (**Plate 24**)

Morinda citrifolia L. [nonu]

Colletotrichum sp. — from leaf spot (ASLG445P)
Didymella sp. — leaf spot (ASLG437P)
Guignardia morindae — from leaf spot (ASLG193P)
Phellinus noxius — brown root rot
Phoma sp. — shot-hole leaf spot (ASLG440,442,444P)

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

Banana Bunchy Top Virus — stunting, sterility, plant death (ASLG004P) (**Plate 25**)
Colletotrichum sp. — from black leaf streak lesion (ASLG341P)
Cordana musae — leaf spot (ASLG063,284,339P) (**Plate 26**)
Curvularia sp. — leaf spot
Erwinia sp. — bacterial stem rot (ASLG435P)
Guignardia musae — freckle (ASLG446,447P)
Helicotylenchus dihystrera — spiral nematode (ASLG379,413P)
Helicotylenchus multicinctus — spiral nematode (ASLG372P)
Leptosphaeria sp. — from leaf blight (ASLG121P)
Marasmiellus semiustus — pseudostem rot (ASLG021M)

Meloidogyne incognita — root knot nematode (ASLG302P)
Mycosphaerella fijiensis — black leaf streak (ASLG025,337P) (**Plates 27, 28**)
Phyllachora musicola — black cross leaf streak (ASLG019P) (**Plate 29**)
Phyllosticta musarum — freckle (ASLG288P)
Pratylenchus gibbicaudatus — lesion nematode (ASLG384P)
Pratylenchus loosi — lesion nematode (ASLG022,383P)
Pseudocercospora fijiensis — black leaf streak (ASLG287,340,418,448P)
Pyrenochaeta sp. — from black leaf streak lesion (ASLG342P)
Radopholus similis — burrowing nematode (ASLG011P)
Sphaerulina sp. — leaf spot (ASLG338P)
Uredo musae — banana rust (ASLG282,291P)

Myristica fatua Houtt. [Samoan nutmeg, ‘atone]
Phellinus noxius — brown root rot (ASLG174P,387P)

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 (ASLG044P)
Pestaloziella sp. — from leaf spot

Paspalum conjugatum Bergius [sour paspalum, sourgrass]
Physopella sp. — rust (ASLG303P)

Persea americana Miller [avocado, ‘avoka]
Botryosphaeria dothidea — from leaf spot
Discosia sp. — from leaf spot
Dothiorella sp. (*Fusicoccum*) — branch canker (ASLG136P)
Fusarium solani — root rot (ASLG196P)
Lasiodiplodia theobromae — root rot (ASLG205P)

Phaseolus vulgaris L. [French bean, green bean, etc.]
Colletotrichum lindemuthianum — anthracnose (ASLG304P)

Philodendron Schott [heart-leaf philodendron]
Physalospora sp. — leaf spot (ASLG159P)

Piper methysticum Forst. f. [kava]

Colletotrichum sp. — leaf anthracnose (ASLG334P)

Cucumber Mosaic (cucumo)Virus — kava wilt, dieback (ASLG313P) (**Plate 30**)

Phyllachora sp. — tar spot on leaves (ASLG392P)

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 (ASLG006P) (**Plate 31**)

Polyscias guilfoylei (W. Bull) L.H. Bailey [geranium-leaf aralia]

Pseudocercospora sp. — leaf spot (ASLG032P)

Colletotrichum sp. — leaf spot

Glomerella sp. — leaf spot

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

Pseudocercospora sp. (*P. panacis*?) — leaf spot (ASLG168,473P) (**Plate 32**)

Colletotrichum gloeosporioides — leaf spot

Glomerella sp. — from leaf spot

Pometia pinnata Forst. [tava]

Cladosporium sp. — sooty mold

Colletotrichum gloeosporioides — from leaf anthracnose (ASLG411P)

Pestalotiopsis sp. — from leaf anthracnose (ASLG410P)

Phellinus noxius — brown root rot

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

Bipolaris sp. — leaf spot (ASLG316P)

Botryosphaeria sp. — on leaf spot

Colletotrichum sp. — leaf spot (ASLG213P,375P)

Curvularia sp. — from leaf spots (ASLG214P)
Leptosphaeria sp. — from leaf spots (ASLG212P)
Pestalotiopsis palmarum — leaf spot
Phomopsis sp. — leaf spot (374P)

Pseuderanthemum carruthersii* var. *reticulatum (Seemann) Guillaumin [el dorado]

Cercospora sp. — leaf spot (ASLG221,329P)
Colletotrichum sp. — leaf spot (ASLG080P)
Glomerella sp. — leaf spot (ASLG180P)

Psidium guajava L. [guava, apple guava]

Colletotrichum gloeosporioides — fruit spot
Pestalotiopsis sp. — from necrotic fruit (ASLG421P)

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

Sphaerellopsis filum — mycoparasite of *P. canaliculata* (ASLG060,131,328P) (**Plate 17**)

Pueraria lobata (Willd.) Ohwi [kudzu]

Cercospora sp. — leaf spot (ASLG298P)
Colletotrichum sp. — angular leaf spot (ASLG088P)
Guignardia sp. — from leaf spot
Synchytrium minutum — ‘false rust’ (ASLG299P)

Rhus taitensis Guillemin [tavai]

Phellinus noxius — brown root rot
Phoma sp. — leaf spot (ASLG220P)

Rollinia deliciosa Saff. [rollinia]

Colletotrichum sp. — leaf anthracnose (ASLG363P)
Didymella sp. — from anthracnose lesions (ASLG364P)

Rosa chinensis Jacq. [rose]

Diplocarpon rosae — leaf spot (ASLG450P)
Marssonina rosae — leaf spot (ASLG289P)
Monochaetia sp. — from stem canker (ASLG462P)
Mycosphaerella rosicola — leaf spot (ASLG209P)

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 (ASLG160P)

Cercospora egenula — leaf spot (ASLG206P)

Cercospora melongenae — leaf spot (ASLG161P)

Cercospora sp. — leaf spot (ASLG276P)

Rhizopus stolonifer — fruit rot (ASLG183P)

Solanum nigrum L. [black nightshade, magalo]

Cercospora sp. — leaf spot (ASLG434P)

Spathoglottis plicata Blume [Philippine orchid]

Colletotrichum sp. — leaf anthracnose (**Plate 33**)

Lasiodiplodia theobromae — from leaf blight (ASLG155P)

Leptosphaeria sp. — from leaf blight

Phyllosticta sp. — from leaf blight

Spondias dulcis Park. [vi apple]

Cercospora sp. — leaf spot (ASLG247,292P)

Mycosphaerella sp. — leaf spot (ASLG293P)

Phellinus noxius — brown root rot

Syngonium podophyllum Schott [nephthytis]

Cercospora sp. — leaf spot

Colletotrichum sp. — leaf anthracnose (ASLG048,461P)

Leptosphaeria sp. — from leaf spots (ASLG049P)

Phyllosticta sp. — from leaf anthracnose

Xanthomonas campestris — bacterial leaf spot (ASLG438P)

Syzygium inophylloides (A. Gray) C. Muell. [asi]

Phellinus noxius — brown root rot

Tarena sambucina (Forst. f.) Durand [ma'anunu]

Lasiodiplodia theobromae — branch dieback (ASLG279P)

Meloidogyne sp. — root knot nematode

Terminalia catappa L. [talie]

Pestalotiopsis sp. — from leaf spots (ASLG402)

Terminalia richii A. Gray [malili]

Phellinus noxius — brown root rot

Terminalia samoensis Rech. [talie]

Cercospora sp. — leaf spot (ASLG277P)

Theobroma cacao L. [cacao, koko]

Nectria sp. — on mummified pods (ASLG345, 359P)

Physalospora sp. — from leaf anthracnose

Phytophthora palmivora — branch canker (ASLG346,348P)

***Uromyces* spp.** (Link) Unger, nom. cons. [rust fungus on *Vigna* sp.]

Sphaerellopsis filum — mycoparasite of *Uromyces* spp. (ASLG187P)

Fusarium oxysporum — from rotted roots (ASLG307P)

Oidium sp. — powdery mildew

Pestalotphaeria sp. — leaf spot (ASLG178P)

Pestalotiopsis palmarum — gray leaf spot

Phyllosticta sp. — from leaf spots

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

Cercospora sp. — from leaf spots (ASLG156P)

Dothiorella sp. (*Fusicoccum*). — from leaf spot (ASLG138P)

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

Cercospora cruenta — leaf spot (ASLG252P)

Colletotrichum gloeosporioides — anthracnose (ASLG191P)

Colletotrichum lindemuthianum — anthracnose (ASLG245,332P)

Colletotrichum sp. — anthracnose (ASLG332P)

Fusarium solani f.sp. *phaseoli* — stem and root rot (ASLG333P)

Glomerella cingulata — anthracnose (ASLG191P)

Leptosphaerulina trifolii — leaf spot (ASLG325P)

Oidium sp. — powdery mildew (ASLG243P)

Pseudocercospora cruenta — leaf spot (ASLG185P)

Sclerotium rolfsii — southern blight (ASLG331P)

Uromyces appendiculatus — leaf rust (ASLG186,244,405,406P)

Uromyces sp. — leaf rust (ASLG186P)

Zea mays L. [corn, sana]

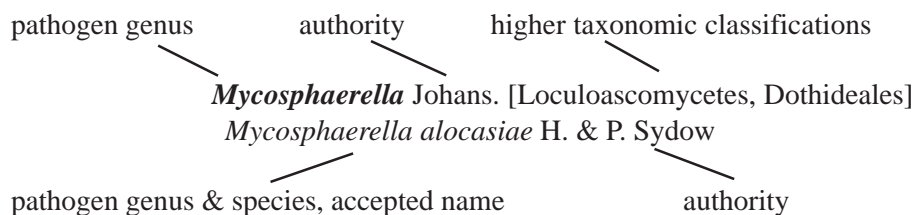
Pythium aphanidermatum — root rot

Fusarium solani — stalk rot (ASLG483P)

Zinnia violacea Cav. [zinnia]

Cercospora zinniae — leaf spot

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, pak choi)

Cordyline terminalis (ti plant)

Banana Bunchy Top Virus

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

Bipolaris Shoemaker [Hyphomycetes]

Bipolaris sp.

Pritchardia pacifica (Fiji Island fan palm)

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

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

Lycopersicon esculentum (tomato)

Persea americana (avocado)

Botryosphaeria sp.

Manihot esculenta (tapioca, manioc)

Pritchardia pacifica (Fiji Island fan palm)

Calonectria De Not. [Pyrenomycetes, Hypocreales]

Calonectria sp.

Carica papaya (papaya)

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

Bixia orellana (lipstick tree, loa)

Cercospora broussonetiae Chupp & Linder

Broussonetia papyrifera (paper mulberry, u'a)
Cercospora brassicicola Henn.
Brassica chinensis var. *chinensis* (Chinese cabbage, pak choi)
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, eggplant)
Cercospora fuligena Roldan
Lycopersicon esculentum (tomato)
Cercospora malayensis F.Stev. & Solh.
Hibiscus maniot (lau pele)
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, swamp taro)
Artocarpus altilis (breadfruit, ulu)
Barringtonia asiatica (fish poison tree, futu)
Dendrolobium umbellatum (lala)
Dioscorea bulbifera (bitter yam, soi)
Heliconia sp. (parrot flower)
Hibiscus manihot (edible hibiscus, pele)
Hydrangea macrophylla (hydrangea) (**Plate 1**)
Ipomoea pes-caprae (beach morning-glory)
Ludwigia octovalvis (primrose willow)
Manihot esculenta (tapioca)
Merremia umbellata (morning-glory)
Mikania micrantha (mile-a-minute vine)
Pseuderanthemum carruthersii var. *reticulatum* (none known)
Pueraria lobata (kudzu)
Solanum melongena (aubergine, eggplant)
Solanum nigrum (black nightshade)
Spondias dulcis (Otaheite apple, vi apple)
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, manioc)

Chaetomella Fuckel [Coelomycetes]

Chaetomella sp

Citrus sp. (citrus)

Cladosporium Link:Fr. [Hyphomycetes]

Cladosporium colocasiicola Sawada

Colocasia esculenta (taro, talo) (**Plate 23**)

Cladosporium sp.

Pometia pinnata (tava)

Mikania micrantha (mile-a-minute vine)

Coleosporium Lev. [Basidiomycetes, Uredinales]

Coleosporium plumeriae Pat.

Plumeria obtusa (frangipani, pua hawaii) (**Plate 31**)

Colletotrichum Corda in Sturm [Coelomycetes]

Colletotrichum coccodes (Wallr.) S.J. Hughes

Lycopersicon esculentum (tomato)

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

Alocasia macrorrhiza (giant taro, swamp taro)

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

Brassica chinensis var. *chinensis* (Chinese cabbage, pak choi)

Caladium x hortulanum (caladium)

Cananga odorata (moso'oi)

Carica papaya (papaya)

Citrus sp. (citrus)

Colocasia esculenta (taro, talo)

Erythrina variegata (coral tree, gatae)

Hibiscus tiliaceus (beach hibiscus, fau)

Lycopersicon esculentum (tomato)

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

Polyscias scutellaria 'Tricochleata' (panax)

Pometia pinnata (tava)

Pseuderanthemum caruthersii var. *reticulatum* (el dorado)

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)

Artocarpus altilis (breadfruit, ulu)

Brunfelsia americana (lady-of-the-night)

Canarium harveyi (mafoa)

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

Citrus aurantifolia (lime)

Cocos nucifera (coconut palm, niu)

Codiaeum variegatum (croton)

Colocasia esculenta (taro, talo)

Cordyline terminalis (ti)

Euphorbia pulcherrima (poinsettia)

Fagraea berteriana (pualulu)

Gloxinia perennis (Canterbury bells)

Hedychium coronarium (white ginger)

Heliconia humilis (lobster claw)
Hibiscus rosa-sinensis (Hawaiian hibiscus)
Hydrangea macrophylla (hydrangea)
Intsia bijuga (ifilele)
Ipomoea alba (morning-glory vine)
Morinda citrifolia (nonu, noni)
Musa hybrid (dessert banana)
Phaseolus vulgaris (common bean)
Piper methysticum (kava)
Pritchardia pacifica (Fiji Island fan palm)
Pseuderanthemum caruthersii var. *reticulatum* (el dorado)
Pueraria lobata (kudzu)
Rollinia deliciosa (biriba)
Spathoglottis plicata (Philippine orchid) (**Plate 33**)
Syngonium sp. (nephthytis)

Cordana G. Preuss [Hyphomycetes]

Cordana musae (A. Zimmerm.) Hohn.
Musa hybrid (dessert 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.
Capsicum annuum (sweet pepper)
Colocasia esculenta (taro, talo)
Heliconia humilis (lobster claw)
Heliconia psittacorum (parrot flower)
Hibiscus rosa-sinensis (Hawaiian hibiscus)
Musa hybrid (dessert banana)
Pritchardia pacifica (Fiji Island fan palm)

Dasheen Mosaic Virus

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

Dendrophoma Sacc. [Coelomycetes]

Dendrophoma sp.
Mangifera indica (mango)

Didymella Sacc. [Loculoascomycetes, Dothideales]

Didymella bryoniae (Auersw.) Rehm
Cucumis sativus (cucumber)

Rollinia deliciosa (biriba)

Diplocarpon F.A. Wolf. [Hyphomycetes]

Diplocarpon rosae F.A. Wolf
Rosa chinensis (common rose)

Discosia Lib. [Coelomycetes]

Discosia sp.
Persea americana (avocado)

Dothiorella Sacc. [Coelomycetes]

Dothiorella berengeriana Sacc.
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, pak choi)
Musa hybrid (FHIA-17, -23 bananas)

Erysiphe R. Hedw. ex DC.:Fr. [Pyrenomycetes, Erysiphales]

Erysiphe sp.
Cucumis sativus (cucumber)

Fusarium Link: Fr. [Hyphomycetes]

Fusarium oxysporum Schlechtend.: Fr.
Veitchia merrillii (Manila palm)
Fusarium oxysporum Schlechtend.:Fr. f.sp. *lycopersici* (Sacc.) W.C. Snyder & H.N. Hans.
Lycopersicon esculentum (tomato)
Fusarium solani (Mart.) Sacc.
Colocasia esculenta (taro, talo)
Lansium domesticum (langsat)
Persea americana (avocado, 'avoka)
Vigna unguiculata (bush bean)
Zea mays (corn, maize)
Fusarium sp.
Heliconia paka (heliconia)

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

Glomerella cingulata (Stoneman) Spauld. & H. Schrenk
Alocasia macrorrhiza (giant taro, swamp taro)
Colocasia esculenta (taro, talo)
Vigna unguiculata (yard-long bean)

Glomerella sp.

- Artocarpus altilis* (breadfruit, ulu)
- Colocasia esculenta* (taro, talo)
- Diospyros samoensis* ('au'auli)
- Euphorbia pulcherrima* (poinsettia)
- Polyscias scutellaria* 'Tricochleata' (panax)
- Pseuderanthemum carruthersii* var. *reticulatum* (el dorado)

Gonatobotryum Sacc. [Hyphomycetes]

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

Guignardia Viala & Ravaz [Loculoascomycetes, Dothideales]

- Guignardia morindae* (Koorders) van der Aa
- Morinda citrifolia* (nonu)
- Guignardia musae* Racib.
- Musa* cvs. (banana)
- Guignardia* sp.
- Hydrangea macrophylla* (hydrangea)
- Pueraria lobata* (kudzu)

Helicotylenchus Steiner, 1945 [Hoplolaimidae, Hoplolaiminae]

- Helicotylenchus dihystera* (Cobb, 1893) Sher, 1961
- Colocasia esculenta* (taro, talo)
- Musa* hybrids (edible bananas)
- Helicotylenchus multicinctus* (Cobb, 1893) Golden, 1956
- Alocasia microrrhiza* (ta'amu, giant taro)
- Musa* hybrids (edible bananas)

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)
- Tarenna sambucina* (ma'anunu)

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

- Leptosphaeria* sp.
- Cocos nucifera* (coconut palm, niu)
- Colocasia esculenta* (taro, talo)
- Hedychium coronarium* (white ginger)
- Heliconia psittacorum* (parrot flower)
- Hibiscus rosa-sinensis* (Hawaiian hibiscus)
- Musa* hybrid (dessert banana)
- Pritchardia pacifica* (Fiji Island fan palm)
- Spathoglottis plicata* (Philippine orchid)
- Syngonium podophyllum* (nephthytis, arrowhead vine)

- Leptosphaerulina** McAlpine [Loculoascomycetes, Dothideales]
Leptosphaerulina trifolii (Rostr.) Petr. (**Plates 11, 12**)
Alocasia macrorrhiza (ta'amu, giant taro)
Brassica chinensis var. *chinensis* (Chinese cabbage, pak choi)
Colocasia esculenta (taro, talo)
Vigna unguiculata (yard-long bean)
- Lophodermium** Chev. [Discomycetes, Rhytismatales]
Lophodermium sp.
Diffenbachia sp. (dumbcane)
Mangifera indica (mango)
- Macrophoma** (Sacc.) Berl. & Voglino [Coelomycetes]
Macrophoma sp.
Alocasia macrorrhiza (giant taro, swamp taro)
- Marsonnina** J.C. Fisch. [Coelomycetes]
Marsonnina rosae (Lib.) Died.
Rosa chinensis (rose)
- Marasmiellus** Murrill [Basidiomycetes, Agaricales]
Marasmiellus semiustus (Berk. & M.A. Curtis) Singer
Musa hybrid (dessert banana)
Marasmiellus stenophyllus (Mont.) Singer
Colocasia esculenta (taro, talo)
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)
Lycopersicon esculentum (tomato)
Tarenna sambucina (ma'anunu)
- Monochaetia** (Sacc.) Allesch. [Coelomycetes]
Monochaetia sp.
Rosa chinensis (rose)
- Mycosphaerella** Johans. [Loculoascomycetes, Dothideales]
Mycosphaerella alocasiae H. & P. Sydow
Alocasia macrorrhiza (giant taro, swamp taro) (**Plate 2**)
Mycosphaerella fijiensis Morlet
Musa hybrids (dessert banana) (**Plates 27, 28**)
Mycosphaerella henningsii Sivanesan
Manihot esculenta (tapioca, manioc)
Mycosphaerella hedychii 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, niu)

Coix lacryma-jobi (sanasana)

Crinum asiaticum (crinum lily)

Dioscorea bulbifera (bitter yam)

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 haematococca Berk. & Broome

Lansium domesticum (langsats)

Nectria sp.

Theobroma cacao (cocoa)

Oidium Link, nom. cons. [Hyphomycetes]

Oidium sp.

Cucumis sativus (cucumber)

Lagerstroemia indica (crape-myrtle)

Vigna unguiculata (yard-long bean)

Pestalotiopsis Steyaert [Coelomycetes]

Pestalotiopsis mangiferae (Henn.) Steyaert

Mangifera indica (mango)

Pestalotiopsis palmarum (Cooke) Steyaert

Cocos nucifera (coconut palm, niu)

Pandanus whitmearianus (pandanus)

Pritchardia pacifica (Fiji Island fan palm)

Veitchia merrillii (Manila palm)

Pestalotiopsis sp.

Alocasia macrorrhiza (giant taro, swamp taro)

Bischofia javanica (o'a)

Carissa grandiflora (natal plum)

Cordyline terminalis (ti)

Dendrolobium umbellatum (lala)

Faradaya amicornum (mamalupe)

Hedychium coronarium (white ginger)

Hibiscus tiliaceus (beach hibiscus, fau)

Lycopersicon esculentum (tomato)

Manilkara zapote (sapote)

Nicolaia elatior (torch ginger)

Planchonella torricellensis (mamalava)

Pometia pinnata (tava)

Psidium guajava (guava)

Terminalia catappa (talie)

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, ulu)

Barringtonia asiatica (fish poison tree, futu)

Barringtonia samoensis (faiaga)

Calophyllum neo-ebudicum (tamanu)

Cananga odorata (moso'oi)

Canarium harveyi (mafoa)

Cerbera manghas (lava)

Cieba pentandra (kapok, vavae)

Citrus sp. (citrus)

Cordia aspera (tou)

Crossostylis biflora (saitamu)

Diospyros samoensis (au'auli)

Dysoxylum samoense (tufaso)

Elattostachys falcata (taputo'i)

Ficus obliqua (banyan, aoa)

Ficus tinctoria (dyer's fig, mati)

Flueggea flexuosa (poumuli)

Glochidion ramiflorum (masame)

Hernandia nymphaeifolia (pu'a)

Hibiscus rosa-sinensis (Hawaiian hibiscus)

Hibiscus tiliaceus (beach hibiscus, fau) (**Plate 18**)

Inocarpus fagifer (ifi)

Intsia bijuga (ifilele) (**Plate 19**)

Macaranga harveyana (lau pata)

Macaranga stipulosa (lau fatu)

Mangifera indica (mango, mago)

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, gatae palagi)

Phoma sp.

Alocasia macrorrhiza (giant taro, swamp taro)

Capsicum annuum (sweet pepper)

Carica papaya (papaya, pawpaw)

Cocos nucifera (coconut palm, niu)

Colocasia esculenta (taro, talo)

Cordyline terminalis (ti)

Erythrina variegata (coral tree, gatae)

Euphorbia pulcherrima (poinsettia)

Hedychium coronarium (white ginger)

Hibiscus rosa-sinensis (Hawaiian hibiscus)

Hibiscus tiliaceus (beach hibiscus, fau)

Rhus taitensis (tavai)

Solanum melongena (aubergine, eggplant)

Phomopsis (Sacc.) Bubak [Coelomycetes]

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

Citrus sp. (citrus)

Phomopsis sp.

Artocarpus altilis (breadfruit, ulu)

Carica papaya (papaya, pawpaw)

Cocos nucifera (coconut palm, niu)

Euphorbia pulcherrima (poinsettia)

Pritchardia pacifica (Fiji island fan palm)

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

Phyllachora afzeliae Sydow

Intsia bijuga (ifilele)

Phyllachora musicola Booth & Shaw

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

Phyllachora sp.

Ficus scabra (mati vao)

Ficus tinctoria (dye's fig, mati)

Hibiscus tiliaceus (beach hibiscus, fau)

Metroxylon vitiense (sago palm)

Piper methysticum (kava)

Phyllosticta Pers., nom. cons. [Coelomycetes]

Phyllosticta artocarp Speg.

Artocarpus altilis (breadfruit, ulu)

Phyllosticta cordyline (Thuem.) Petrak & H. Sydow

Cordyline terminalis (ti)

Phyllosticta musarum (Cooke) van der Aa

Musa hybrid (dessert banana)

Phyllosticta sp.

Caladium x hortulanum (caladium)

Cocos nucifera (coconut palm, niu)

Cordyline terminalis (ti)

Cuphea melvilla (firecracker plant)

Diospyros samoensis ('au'auli)

Hibiscus rosa-chinensis (Hawaiian hibiscus)

Spathoglottis plicata (Philippine orchid)

Syngonium podophyllum (nephthytis, arrowhead vine)

Veitchia merrillii (Manila palm)

Physalospora Niessl [Pyrenomycetes, Amphisphaeriales]

Physalospora rhodina Berkley & Curtis in Cooke

Artocarpus altilis (breadfruit, ulu)

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, swamp taro)

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

Phytophthora palmivora (E.J. Butler) E.J. Butler

Artocarpus altilis (breadfruit, ulu)

Carica papaya (papaya, esi)

Theobromae cacao (cocoa)

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

Capsicum annuum (sweet or hot pepper)

Pratylenchus Filipjev, 1936

Pratylenchus gibbicaudatus Minagawa, 1982

Musa cv. Ducasse (dessert banana)

Pratylenchus loosi Loof, 1960

Musa cv. Paka Samoa (dessert banana)

Pratylenchus sp.

Alocasia macrorrhiza (giant taro, ta'amu)

Pseudocercospora Speg. [Hyphomycetes]

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

Artocarpus altilis (breadfruit, ulu)

Pseudocercospora cruenta (Sacc.) Deighton

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

Pseudocercospora fijiensis (Morelet) Deighton

Musa hybrid (edible banana, fa'i)

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

Dysoxylum samoense (maota mamala)

Pseudocercospora sp.

Polyscias guilfoylei (geranium-leaf panax)

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

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)

Kyllinga nemoralis (sedge)

Pyrenochaeta De Not. [Coelomycetes]

Pyrenochaeta sp.

Musa hybrid (dessert banana)

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

Pythium aphanidermatum (Edson) Fitzp.

Colocasia esculenta (taro, talo)

Cucumis sativus (cucumber)

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

Pythium sp.

Brassica chinensis var. *chinensis* (Chinese cabbage, pak choi)

Carica papaya (papaya)

Colocasia esculenta (taro, talo)

Cucumis sativus (cucumber)

Radopholus Thorne, 1949 [Pratylenchidae, Pratylenchinae]

Radopholus similis (Cobb, 1893) Thorne, 1949

Musa hybrids (edible bananas)

Ralstonia gen. nov.

Ralstonia solanacearum (Smith 1896) Yabuuchi, Kosako, Yano, Hotta and Nishiuchi 1996

Capsicum annuum 'Super Set' (sweet pepper) (**Plate 15**)

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, eggplant)

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

Rhynchosphaeria sp.

Planchonella torricellensis (mamalava)

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

Sclerotinia sclerotiorum (Lib.) de Bary

Lycopersicon esculentum (tomato)

Sclerotium Tode:Fr. [Agonomycetes]

Sclerotium rolfsii Sacc.

Vigna unguiculata (bush bean)

Sclerotium sp.

Artocarpus altilis (breadfruit, ulu)

Septoria Sacc., nom. cons. [Coelomycetes]

Septoria sp.

Cocos nucifera (coconut palm, niu)

Colocasia esculenta (taro, talo)

Heliconia humilis (lobster claw)

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 berteriana (pualulu)

Heliconia psittacorum (parrot heliconia)

Musa hybrid (dessert banana)

Stagonospora (Sacc.) Sacc. nom. cons.

Stagonospora sp.

Aglaia samoensis (laga'ali)

Stigmina Sacc. [Hyphomycetes]

Stigmina mangiferae (Koorders) M.B. Ellis

Mangifera indica (mango)

Synchytrium de Bary & Woronin. [Chytridiomycetes, Chytridiales]

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)

Vigna unguiculata cultivars (bush and pole beans)

Uromyces bidenticola Arth.

Bidens alba (beggar's tick)

Uromyces sp.

Vigna unguiculata (yard-long bean)

Xanthomonas Dowson, 1939 [Pseudomonadaceae]

Xanthomonas campestris pv. *vesicatoria* (Doidge) Dye

Lycopersicon esculentum (tomato)

Syngonium podophyllum (arrowhead vine)

Zucchini Yellow Mosaic Virus

Cucumis sativus (cucumber)

WOOD DECAY FUNGI

Fungi collected from decaying wood of living or dead plants are listed in alphabetical order, by genus, within their respective division, Ascomycota or Basidiomycota. Each fungal taxon is followed by its authority, family or order, and accession number in the American Samoa Community College Land Grant Program Herbarium (ASLG), or Landcare Research facility (PDD) in Auckland, New Zealand. The location of voucher specimens for some previously reported species are unknown (--).

ASCOMYCOTA

<i>Cookeina sulcipes</i> (Berk.) O. Kuntze [Pezizales]	--
<i>Daldinia concentrica</i> (Bolton:Fr.) Ces. & De Not. [Xylariaceae]	ASLG176M
<i>Hypoxylon deustum</i> (Hoffm.) Greville [Pyrenomycetes, Xylariales]	--
<i>Hypoxylon hypomiltum</i> Mont. [Pyrenomycetes, Xylariales]	--
<i>Hypoxylon musceum</i> J.D. Rogers [Pyrenomycetes, Xylariales]	ASLG227M
<i>Hypoxylon</i> sp. Bull.:Fr. nom. cons. [Pyrenomycetes, Xylariales]	ASLG073,253,326,338M
<i>Xylaria cubensis</i> (Mont.) Fries [Xylariaceae]	--
<i>Xylaria</i> sp. J. Hill ex Schrank, nom. cons. [Xylariaceae]	ASLG023,068,106M

BASIDIOMYCOTA

<i>Amylosporus</i> (?) <i>campbellii</i> (Berk.) Ryvarden [Polyporaceae]	PDD58716
<i>Antrodiella semisupina</i> (Berk. & Curt.) Ryv. comb. nov. [Polyporaceae]	ASLG268M*
<i>Antrodiella</i> sp. Ryv. & Johan. [Polyporaceae]	ASLG119M*
<i>Auricularia polytricha</i> (Mont.) Sacc. [Auriculariaceae]	PDD55947, 58709
<i>Auricularia</i> sp. Bull. [Auriculariaceae]	ASLG004,152,198M
<i>Cerenna</i> sp. S.F. Gray [Polyporaceae]	ASLG190M
<i>Ceriporia</i> sp. Donk [Polyporaceae]	ASLG199M
<i>Corioloopsis floccosa</i> (Jungh.) Ryvarden [Polyporaceae]	--
<i>Cotylidia aurantiaca</i> (Pers.) Weldon [Stereaceae]	--
<i>Daedalia</i> sp. Pers.:Fr. [Polyporaceae]	ASLG091M
<i>Earliella scabrosa</i> (Pers.) R.L. Gilbertson & Ryv. [Polyporaceae]	ASLG124,214M*
<i>Echinochaete russiceps</i> (Berk. & Broome) Reid [Polyporaceae]	--
<i>Echinochaete</i> sp. D.A. Reid [Polyporaceae]	ASLG151M
<i>Elmerina</i> sp. Bres. [Polyporaceae]	ASLG178M*
<i>Favolus spathulatus</i> (Jungh.) Bresadola [Polyporaceae]	--
<i>Favolaschia pustulosa</i> (Jungh.) Singer [Tricholomataceae]	--
<i>Flavodon flavus</i> Ryvarden [Polyporaceae]	ASLG138,195,212M*
<i>Ganoderma</i> sp. P. Karst. [Ganodermataceae]	ASLG007,029,094M
<i>Ganoderma australe</i> (Fr.) Pat. [Ganodermataceae]	ASLG061,123,185M*
<i>Ganoderma lucidum</i> (W. Curtis:Fr.) P. Karst. [Ganodermataceae]	ASLG069,131,201M
<i>Ganoderma resinaceum</i> Boud. [Ganodermataceae]	ASLG029,094,135M*
<i>Hexagonia apiaria</i> (Pers.) Fries [Polyporaceae]	--
<i>Hexagonia tenuis</i> (Hook.) Fries [Polyporaceae]	--
<i>Hyphoderma rude</i> (Bres.) Huorest. & Ryv. [Hyphodermataceae]	ASLG269M*
<i>Hypocrea incarnata</i> Pat. & Har. [Hypocreales]	--
<i>Lenzites elegans</i> (Fr.) Pat. [Polyporaceae]	ASLG117,290,345M*
<i>Lenzites vespacea</i> (Pers.) Ryv. [Polyporaceae]	ASLG117,184M
<i>Lenzites</i> sp. Fr. [Polyporaceae]	ASLG018M
<i>Microporus</i> sp. Kuntz [Polyporaceae]	ASLG150M
<i>Microporus affinis</i> (Fr.:Blume & Nees) Kunt. [Polyporaceae]	ASLG065,097M

<i>Microporus vernicipes</i> (Berk.) Kunt. [Polyporaceae]	ASLG187M*
<i>Mycorrhaphium steroides</i> (Cooke) Maas G. [Hydnaceae]	--
<i>Nigroporus durus</i> (Jungth.) Murr. [Polyporaceae]	--
<i>Phanerochaete salmonicolor</i> (Berk. & Broome) Julich [Corticaceae]	--
<i>Phellinus lamaensis</i> (Murrill) R. Heim [Hymenochaetaceae]	ASLG055,121,197M*
<i>Phellinus noxius</i> (Corner) G. Cunn. [Hymenochaetaceae]	ASLG012,082,147M*
<i>Phellinus</i> sp. Quel. [Hymenochaetaceae]	ASLG048,053M*
<i>Phillipsia domingensis</i> (Berk.) Berk. [Pezizales]	--
<i>Pleurotus</i> sp. (Fr.) P. Kumm., nom. cons. [Lentinaceae]	ASLG079,108,126M
<i>Podoscypha involuta</i> (Klotzsch) Imazeki [Stereaceae]	--
<i>Podoscypha nitidula</i> (Berk.) Pat. in Duss [Stereaceae]	--
<i>Polyporus</i> (?) <i>grammocephalus</i> Berk. [Polyporaceae]	--
<i>Polyporus philippinensis</i> Berk. [Polyporaceae]	ASLG108,111,112M*
<i>Polyporus</i> sp. P. Mich. ex Adans.:Fr., sensu Donk. [Polyporaceae]	ASLG022M
<i>Pseudohydnum</i> sp. P. Karst. [Exidiaceae]	ASLG030M
<i>Pycnoporus</i> sp. P. Karst. [Polyporaceae]	ASLG156M*
<i>Rigidoporus cystidioides</i> (Lloyd) Corner [Polyporaceae]	ASLG161M
<i>Rigidoporus defibulatus</i> (Reid) Corner [Polyporaceae]	ASLG049,158M*
<i>Rigidoporus microporus</i> (Fr.) v. Overeem [Polyporaceae]	ASLG200,203M*
<i>Schizophyllum commune</i> Fr.:Fr. [Schizophyllaceae]	ASLG015,179,180M
<i>Stereopsis radicans</i> (Berk.) Reid [Stereaceae]	--
<i>Stereum</i> sp. J. Hill ex Pers. [Stereaceae]	ASLG031,162,163M
<i>Trametes hemitephra</i> (Berk.) Corner [Polyporaceae]	--
<i>Trametes hirsuta</i> (Wulfen:Fr.) Quel. [Polyporaceae]	ASLG129,196,207M
<i>Trametes marianna</i> (Pers.) Ryv. [Polyporaceae]	ASLG160M
<i>Trametes menziesii</i> (Berk.) Ryv. [Polyporaceae]	ASLG090,192,211M
<i>Trametes modesta</i> (Fr.) Ryv. [Polyporaceae]	ASLG096,119M*
<i>Trametes versicolor</i> (L.:Fr.) Pilat [Polyporaceae]	ASLG011,139,189M
<i>Trametes</i> sp. Fr. [Polyporaceae]	ASLG009,058,145M*
<i>Tremella cinnabarina</i> (Mont.) Pat. [Tremellales]	--
<i>Tremella fuciformis</i> Berk. [Tremellaceae]	ASLG017,105M
<i>Tremella</i> sp. Pers.:Fr., nom. cons. [Tremellaceae]	ASLG003,062,093M

PARASITIC ALGAE AND THEIR PLANT HOSTS

Name of the algal parasite is followed by the plant host families and species it was found on. Common plant names are in parentheses, followed by accession numbers for each specimen housed in the American Samoa Community College Land Grant Program Herbarium (ASLG).

Cephaleuros expansa, Thompson & Wujek sp. nov. 1997

Amaryllidaceae	
<i>Crinum asiaticum</i> (crinum lily, lau talotalo)	ASLG132A
Apocynaceae	
<i>Allamanda</i> sp. (allemanda)	ASLG152A
Araceae	
<i>Epipremnum pinnatum</i> (pothos, devil's ivy)	ASLG131A
Leeaceae	
<i>Leea guineensis</i> (green, red leea)	ASLG190A
Rubiaceae	
<i>Ixora finlaysoniana</i> (white ixora)	ASLG125A

Cephaleuros henningsii Schmidle 1902

Leeaceae	
<i>Leea guineensis</i> (red, green leea)	ASLG155A
Orchidaceae	
<i>Arachnis x maingayi</i> (spider orchid)	ASLG058, 107A
<i>Arundina graminifolia</i> (bamboo orchid)	ASLG059, 151A

Cephaleuros karstenii Schmidle 1897

Begoniaceae	
<i>Begonia</i> sp. (begonia)	ASLG163A
Cupressaceae	
<i>Cupressus</i> sp. (cypress)	ASLG165A
Fabaceae	
<i>Intsia bijuga</i> (ifilele)	ASLG176A
Magnoliaceae	
<i>Michelia champak</i> (orange michelia)	ASLG019A
Meliaceae	
<i>Swietenia macrophylla</i> (none known)	ASLG074A
Zingiberaceae	
<i>Alpinia purpurata</i> (red ginger)	ASLG177A

Cephaleuros minimus Karsten 1891

Lythraceae	
<i>Lagerstroemia speciosa</i> (queen's crape myrtle)	ASLG098A
Malvaceae	
<i>Hibiscus rosa-sinensis</i> (Hawaiian hibiscus, China rose)	ASLG114A
Orchidaceae	
<i>Dendrobium lepidochilum</i> (dendrobium)	ASLG178A
Rubiaceae	
<i>Morinda citrifolia</i> (nonu)	ASLG004, 095, 100, 183A

Cephaeleuros parasiticus Karsten 1891

Anacardiaceae	
<i>Mangifera indica</i> (mango)	ASLG103A
Annonaceae	
<i>Annona squamosa</i> x <i>A. cherimoya</i> 'Pink Mammoth' (atemoya)	ASLG133A
Arecaceae	
<i>Veitchia merrillii</i> (Manila palm)	ASLG162A
Bixaceae	
<i>Bixa orellana</i> (lipstick tree, loa)	ASLG052, 150A
Fabaceae	
<i>Acacia</i> sp. (acacia)	ASLG147A
Heliconiaceae	
<i>Heliconia</i> x 'Golden Torch' (golden torch heliconia)	ASLG159A
Leeaceae	
<i>Leea guineensis</i> (green, red leea)	ASLG129, 155A
Lythraceae	
<i>Cuphea melvilla</i> (cigar flower)	ASLG142A
<i>Lagerstroemia speciosa</i> (pride of India)	ASLG008, 098, 138, 189A
Marantaceae	
<i>Maranta arundinacea</i> 'Variegata' (arrowroot, obedience plant)	ASLG145, 170A
Myrtaceae	
<i>Psidium guajava</i> 'Waieka' (waieka guava)	ASLG104A
<i>Syzygium corynocarpum</i> (none known)	ASLG036, 096, 188A
<i>Syzygium inophylloides</i> (none known)	ASLG172A
Orchidaceae	
<i>Arundina graminifolia</i> (bamboo orchid)	ASLG151A
Sapotaceae	
<i>Manilkara zapota</i> 'Ponderosa' (ponderosa sapodilla)	ASLG022A
<i>Pouteria sapota</i> (canistel, egg-fruit tree)	ASLG033A
<i>Sandoricum koetjape</i> 'Bangkok' (Bangkok santol)	ASLG038A
<i>Synsepalum dulcificum</i> (miracle berry)	ASLG037A

Cephaeleuros virescens Kunze in Fries 1827

Acanthaceae	
<i>Aphelandra sinclairiana</i> (coral aphelandra)	ASLG167A
<i>Odontonema tubiforme</i> (fire spike)	ASLG143, 168A
<i>Pseuderanthemum carruthersii</i> var. <i>reticulatum</i> (el dorado)	ASLG110A
Anacardiaceae	
<i>Anacardium occidentale</i> (cashew)	ASLG083A
<i>Mangifera indica</i> (mango)	ASLG001, 103A
Annonaceae	
<i>Annona muricata</i> (soursop, asalapa)	ASLG030, 112A
<i>Annona muricata</i> 'Cuban Fiberless' (Cuban fiberless soursop)	ASLG024A
<i>Annona muricata</i> 'Dulce Cuban' (dulce soursop)	ASLG002A
<i>Annona squamosa</i> 'Seedless' (sugar apple)	ASLG007A
<i>A. squamosa</i> x <i>A. cherimoya</i> 'Pink Mammoth' (atemoya)	ASLG133A
<i>Rollinia deliciosa</i> (biriba)	ASLG073A
Apocynaceae	
<i>Allamanda cathartica</i> (golden trumpet)	ASLG109A

	<i>Carissa grandiflora</i> (natal plum)	ASLG069A
Araceae		
	<i>Anthurium</i> sp. (flamingo flower, anthurium)	ASLG157A
	<i>Epipremnum pinnatum</i> (pothos, devil's ivy)	ASLG045A
Araliaceae		
	<i>Polyscias fruticosa</i> (ming aralia, parsley panax)	ASLG087A
	<i>Polyscias scutellaria</i> (panax)	ASLG017A
Arecaceae		
	<i>Metroxylon vitiense</i> (sago palm, niu o lotuma)	ASLG088A
	<i>Pritchardia pacifica</i> (Fiji Island fan palm, niu piu)	ASLG161A
Asclepidaceae		
	<i>Hoya australis</i> (wax flower, fue seieia)	ASLG080A
Bignoniaceae		
	<i>Tabebuia heterophylla</i> (pink tecoma, pink trumpet tree)	ASLG064A
Bixaceae		
	<i>Bixa orellana</i> (lipstick tree, loa)	ASLG052A
Bombacaceae		
	<i>Ceiba pentandra</i> (kapok tree, vavae)	ASLG065A
	<i>Durio zibethinus</i> (durian)	ASLG016A
	<i>Pachira aquatica</i> (water-chestnut)	ASLG057A
Burseraceae		
	<i>Canarium ovatum</i> (pili nut)	ASLG025A
Clusiaceae		
	<i>Calophyllum inophyllum</i> (Indian laurel, fetau)	ASLG124A
Combretaceae		
	<i>Terminalia samoensis</i> (talie)	ASLG011A
Euphorbiaceae		
	<i>Acalypha hispida</i> (chennile plant)	ASLG067A
	<i>Acalypha wilkesiana</i> (beefsteak plant)	ASLG086A
	<i>Aleurites moluccana</i> (candlenut)	ASLG013, 116, 117A
	<i>Bischofia javanica</i> (o'a)	ASLG012, 136A
	<i>Codiaeum variegatum</i> (croton)	ASLG089, 099, 154A
	<i>Codiaeum variegatum</i> 'Acubifolium' (acubifolium croton)	ASLG039, 144A
	<i>Codiaeum variegatum</i> 'Majesticum' (majesticum croton)	ASLG127A
	<i>Euphorbia neriifolia</i> (Indian spurge tree)	ASLG048A
	<i>Flueggea flexuosa</i> (poumuli)	ASLG108A
	<i>Jatropha integerrima</i> (peregrina, rose-flowered jatropha)	ASLG043A
	<i>Pedilanthus tithymaloides</i> (redbird cactus, slipper flower)	ASLG182A
Fabaceae		
	<i>Acacia</i> sp. (acacia)	ASLG147A
	<i>Calliandra surinamensis</i> (pink powder puff)	ASLG060A
	<i>Cassia javanica</i> (pink-and-white shower tree)	ASLG113A
	<i>Intsia bijuga</i> (ifilele)	ASLG009A
	<i>Sophora tomentosa</i> (silverbush)	ASLG111A
Lauraceae		
	<i>Persea americana</i> (avocado, alligator pear, avoka)	ASLG006,198A
Leeaceae		
	<i>Leea guineensis</i> (green, red leea)	ASLG129A
Loganiaceae		

<i>Fagraea berteriana</i> (pualulu)	ASLG081, 094A
Lythraceae	
<i>Lagerstroemia speciosa</i> (queen's crape myrtle)	ASLG008, 098, 139A
Malpighiaceae	
<i>Malpighia glabra</i> (acerola, Barbados cherry)	ASLG018A
Malvaceae	
<i>Hibiscus rosa-sinensis</i> (Hawaiian hibiscus, aute)	ASLG114A
<i>Hibiscus tiliaceus</i> (beach hibiscus, fau)	ASLG097A
<i>Hibiscus tiliaceus</i> cultivar (none known)	ASLG062A
Marantaceae	
<i>Maranta arundinacea</i> 'Variegata' (arrowroot)	ASLG145A
Meliaceae	
<i>Lansium domesticum</i> (langsat)	ASLG092A
<i>Melia azedarach</i> (chinaberry, Indian lilac)	ASLG031A
Moraceae	
<i>Artocarpus altilis</i> (breadfruit, ulu)	ASLG050A
<i>Ficus benghalensis</i> (banyan fig, aoa)	ASLG041A
<i>Ficus benjamina</i> (Java fig, tropic laurel, mati)	ASLG185A
<i>Ficus elastica</i> (India rubber fig, mati)	ASLG128A
<i>Ficus prolixa</i> (banyan fig, aoa)	ASLG070A
<i>Ficus tinctoria</i> (dyer's fig, mati)	ASLG021A
Myrtaceae	
<i>Eugenia uniflora</i> (= <i>Syzygium uniflora</i>) (Surinam cherry)	ASLG055, 115A
<i>Psidium guajava</i> (guava, kuava)	ASLG003, 181A
<i>Psidium guajava</i> 'Waikea' (waikea guava)	ASLG104A
<i>Syzygium jambos</i> (rose apple)	ASLG046A
Nyctaginaceae	
<i>Bougainvillea spectabilis</i> (bougainvillea, felila)	ASLG063A
Oleaceae	
<i>Jasminum multiflorum</i> (= <i>J. pubescens</i>) (star jasmine)	ASLG084A
<i>Jasminum sambac</i> (Arabian jasmine)	ASLG187A
<i>Ligustrum sinense</i> (Chinese privet)	ASLG044A
Oxidalidaceae	
<i>Averrhoa carambola</i> 'Jurong' (jurong star fruit)	ASLG032A
<i>Averrhoa carambola</i> 'Kajang' (kanjang star fruit)	ASLG148A
<i>Averrhoa carambola</i> 'Kembangan' (kembangan star fruit)	ASLG072A
Pandanaceae	
<i>Pandanus whitmeeanus</i> (screwpine, lau fala)	ASLG130A
Piperaceae	
<i>Piper methysticum</i> (kava)	ASLG054A
Polygonaceae	
<i>Homalocladium platycladium</i> (ribbon bush, tapeworm plant)	ASLG118A
Rubiaceae	
<i>Gardenia jasminoides</i> 'Veitchii' (gardenia cape jasmine)	ASLG047A
<i>Ixora casei</i> (giant red ixora)	ASLG035, 071A
<i>Ixora finlaysoniana</i> (white ixora)	ASLG085A
<i>Mussaenda frondosa</i> (none known)	ASLG066A
<i>Mussaenda philippica</i> (white mussaenda)	ASLG042A
<i>Tarenna sambucina</i> (ma'anunu)	ASLG123A

Rutaceae	
	<i>Citrus aurantifolia</i> (lime) ASLG014A
	<i>Murraya paniculata</i> (China-box, orange jessamine) ASLG146A
Sapindaceae	
	<i>Euphoria longan</i> ‘Bai Dum’ (bai dum longan) ASLG029A
	<i>Euphoria longan</i> ‘Chompoo’ (chompoo longan) ASLG102A
	<i>Litchi chinensis</i> (litchi, lychee) ASLG093A
	<i>Pometia pinnata</i> (tava) ASLG175A
Sapotaceae	
	<i>Chrysophyllum cainito</i> ‘Grimal’ (grimal star apple) ASLG028A
	<i>Chrysophyllum cainito</i> ‘Hatian’ (Hatian star apple) ASLG015A
	<i>Chrysophyllum cainito</i> ‘Philippine Gold’ (Phil. gold star apple) ASLG061A
	<i>Chrysophyllum cainito</i> ‘Seedless’ (seedless star apple) ASLG101A
	<i>Manilkara zapota</i> ‘Alano’ (alano sapote) ASLG005A
	<i>Manilkara zapota</i> ‘Bethawi’ (bethawi sapote) ASLG027A
	<i>Manilkara zapota</i> ‘Ponderosa’ (ponderosa sapote) ASLG022A
	<i>Pouteria sapota</i> (mamee sapote, sapota) ASLG033, 186A
	<i>Sandoricum koetjape</i> ‘Bangkok’ (Bangkok santol) ASLG038A
	<i>Sandoricum koetjape</i> ‘Chompoo’ (chompoo santol) ASLG020A
	<i>Synsepalum dulcificum</i> (miracle berry) ASLG037A
Solanaceae	
	<i>Brunfelsia americana</i> (lady of the night) ASLG075A
	<i>Brunfelsia pauciflora</i> (yesterday-today-and-tomorrow) ASLG076A
	<i>Cestrum diurnum</i> (day cestrum, day jessamine) ASLG106A
Sterculiaceae	
	<i>Theobroma cacao</i> (cocoa) ASLG010, 160A
Verbenaceae	
	<i>Clerodendrum wallichii</i> (none known) ASLG166A
	<i>Clerodendrum x speciosum</i> (Java glorybower) ASLG051A
	<i>Congea griffithiana</i> (shower of orchids) ASLG105A
	<i>Faradaya amicornum</i> (mamalupe) ASLG078A
	<i>Premna serratifolia</i> (aloalo) ASLG053A
<i>Cephaleuros</i> sp.	
Agavaceae	
	<i>Cordyline terminalis</i> (= <i>C. fruticosa</i>) (ti plant) ASLG091A
Convolvulaceae	
	<i>Operculina turpethum</i> (none known) ASLG079A
Euphorbiaceae	
	<i>Codiaeum variegatum pictum</i> ‘Stewartii’ (croton) ASLG040A
Fabaceae	
	<i>Acacia mangium</i> (acacia) ASLG082A
	<i>Pterocarpus indicus</i> (Burmese rosewood) ASLG049A
Lythraceae	
	<i>Lagerstroemia indica</i> (crape myrtle) ASLG058A
Malvaceae	
	<i>Hibiscus rosa-sinensis</i> (Hawaiian hibiscus, China rose) ASLG090A
Orchidaceae	
	<i>Spathoglottis plicata</i> (Philippine orchid) ASLG077A

Piperaceae		
	<i>Piper graeffei</i> (fue manogi)	ASLG034A
Rubiaceae		
	<i>Gardenia taitensis</i> (tahitian gardenia)	ASLG068A
	<i>Mussaenda erythrophylla</i> 'Rosea' (mussaenda)	ASLG056A
Rutaceae		
	<i>Citrus aurantifolia</i> 'Thornless Mexican' (Mexican lime)	ASLG026A
Sapotaceae		
	<i>Lucuma nervosa</i> 'Bruce' (Bruce canistel, egg fruit)	ASLG023A
Unidentified hosts		ASLG134, 135, 153, 156A
<i>Stomatochroon coalitus</i> sp. nov. Thompson & Wujek 1997		
Annonaceae		
	<i>Rollinia deliciosa</i> (biriba)	ASLG149A
<i>Stomatochroon consociatus</i> sp. nov. Thompson & Wujek 1997		
Anacardiaceae		
	<i>Mangifera indica</i> (mango)	ASLG140A
Fabaceae		
	<i>Acacia</i> sp. (acacia)	ASLG147A
Lythraceae		
	<i>Cuphea melvilla</i> (firecracker plant, cigar flower)	ASLG141, 191A
	<i>Lagerstroemia speciosa</i> (Hawaiian crape myrtle)	ASLG008, 098, 137A
Solanaceae		
	<i>Cestrum diurnum</i> (day-blooming cestrum)	ASLG106A

FUNGUS PATHOGENS ON INSECTS

<i>Aspergillus</i> P. Mich. ex Link:Fr. [Hyphomycetes]	
<i>Aspergillus</i> sp.	
<i>Aphis gossypii</i> (green peach aphid)	ASLG108P
<i>Bactrocera</i> spp. (fruit flies)	ASLG315P
<i>Rodolia limbata</i> (lady beetle)	ASLG100P
<i>Cladosporium</i> Link:Fr. [Hyphomycetes]	
<i>Cladosporium</i> sp.	
<i>Aphis gossypii</i> (on dead aphids)	ASLG109P
<i>Fusarium</i> Link:Fr. [Hyphomycetes]	
<i>Fusarium</i> sp.	
<i>Rodolia limbata</i> (lady beetle)	ASLG117P
<i>Tarophagus proserpina</i> (taro planthopper)	
<i>Metarhizium</i> (Metchnikoff) Sorokin [Hyphomycetes]	
<i>Metarhizium anisopliae</i> var. <i>anisopliae</i> (Metsch.) Sorokin	
<i>Aphis gossypii</i> (green peach aphid)	
<i>Brontispa longissima</i> (coconut hispid beetle)	ASLG401P
<i>Cicada</i> sp. (cicada) (Plate 34)	ASLG204P
<i>Metarhizium anisopliae</i> var. <i>majus</i> (Metsch.) Sorokin	
<i>Oryctes rhinoceros</i> (rhinoceros beetle) (Plate 35)	ASLG227P
<i>Paecilomyces</i> Bainier [Hyphomycetes]	
<i>Paecilomyces fumosoroseus</i> (Wize) AHS Brown & G. Smith	
<i>Bemisia tabaci</i> biotype B (silverleaf whitefly)	ASLG112P
<i>Brontispa longissima</i> (hispid beetle)	ASLG382P
<i>Icerya seychellarum</i> (Seychelles fluted scale)	ASLG118P
<i>Trichoderma</i> Pers.:Fr. [Hyphomycetes]	
<i>Trichoderma viride</i> Pers.:Fr.	
<i>Aphis gossypii</i> (green peach aphid)	ASLG182P)
<i>Trichothecium</i> Link:Fr. [Hyphomycetes]	
<i>Trichothecium</i> sp.	
<i>Icerya seychallarum</i> (Seychelles fluted scale)	ASL 068P
<i>Verticillium</i> Nees [Hyphomycetes]	
<i>Verticillium lecanii</i> (A. Zimmerm.) Viegas	
<i>Aedes</i> sp. (mosquito)	ASLG381P
<i>Aphis gossypii</i> (green peach aphid) (Plate 36)	ASLG 182P
<i>Thrips palmi</i> (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>	heart-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>	kapisi	<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>	laga'ali	<i>Aglaia samoensis</i>
canna lily	<i>Canna indica</i>	lala	<i>Dendrolobium umbellatum</i>
Canterbury bells	<i>Gloxinia perennis</i>	langsat	<i>Lansium domesticum</i>
Chinese cabbage	<i>Brassica chinensis</i>	lau fala	<i>Pandanus whitmeeanus</i>
Chinese taro	<i>Alocasia cucullata</i>	lau pata	<i>Macaranga harveyana</i>
citrus	<i>Citrus</i> spp.	lau pele	<i>Hibiscus manihot</i>
coconut palm	<i>Cocos nucifera</i>	lau talotalo	<i>Crinum asiaticum</i>
coral tree	<i>Erythrina variegata</i>	lime	<i>Citrus aurantifolia</i>
corn	<i>Zea mays</i>	lipstick-tree	<i>Bixa orellana</i>
crab grass	<i>Digitaria setigera</i>	loa	<i>Bixa orellana</i>
cape-myrtle	<i>Lagerstroemia indica</i>	lobster claw	<i>Heliconia</i> sp.
crinum lily	<i>Crinum asiaticum</i>	ma'anunu	<i>Tarennia sambucina</i>
croton	<i>Codiaeum variegatum</i>	mafoa	<i>Canarium harveyi</i>
cucumber	<i>Cucumis sativus</i>	magalo	<i>Solanum nigrum</i>
dumbcane	<i>Diffenbachia</i> sp.	mago	<i>Mangifera indica</i>
dyer's fig	<i>Ficus tinctoria</i>	mamalava	<i>Planchonella torricellensis</i>
edible hibiscus	<i>Hibiscus manihot</i>	mamalupe	<i>Faradaya amicornum</i>
eggplant	<i>Solanum melongena</i>	mango	<i>Mangifera indica</i>
esi	<i>Carica papaya</i>	Manila palm	<i>Veitchia merrillii</i>
fagamanu	<i>Canna indica</i>	manioka	<i>Manihot esculenta</i>
fa'i	<i>Musa</i> cultivars, hybrids	mati	<i>Ficus tinctoria</i>
fasa	<i>Pandanus whitmeeanus</i>	mile-a-minute vine	<i>Mikania micrantha</i>
fau	<i>Hibiscus tiliaceus</i>	moli	<i>Citrus</i> spp.
Fiji Island fan palm	<i>Pritchardia pacifica</i>	moon flower	<i>Ipomoea alba</i>
firecracker plant	<i>Cuphea melvilla</i>	moso'oi	<i>Cananga odorata</i>
frangipani	<i>Plumeria</i> spp.	mumuta	<i>Cyperus rotundus</i>
French bean	<i>Phaseolus vulgaris</i>	natal plum	<i>Carissa grandiflora</i>
fue kula	<i>Ipomoea pes-caprae</i>	nephthytis	<i>Syngonium podophyllum</i>
fue lauteletele	<i>Merremia umbellata</i>	niu	<i>Cocos nucifera</i>
fue mola	<i>Ipomoea pes-caprae</i>	niu o lotuma	<i>Metroxylon vitiense</i>
fue saina	<i>Mikania micrantha</i>	niu piu	<i>Pritchardia pacifica</i>
fue sina	<i>Ipomoea alba</i>	nonu	<i>Morinda citrifolia</i>
gatae	<i>Erythrina variegata</i>	nutmeg, Samoan	<i>Myristica fatua</i>
gatae palagi	<i>Erythrina subumbrans</i>	'o'a	<i>Bischofia javanica</i>
geranium-leaf aralia	<i>Polyscias guilfoylei</i>	pak-choi	<i>Brassica chinensis</i>

panax	<i>Polyscias scutellaria</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>Flueggea 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</i> spp.
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>Broussonetia 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 <i>Pseuderanthemum</i> <i>Sanchezia</i>	Brassicaceae <i>Brassica</i>	<i>Intsia</i> <i>Phaseolus</i> <i>Pueraria</i> <i>Vigna</i>	Musaceae <i>Musa</i>	Sapotaceae <i>Manilkara</i> <i>Planchonella</i>
Agavaceae <i>Cordyline</i>	Burseraceae <i>Canarium</i>	Gesneriaceae <i>Gloxinia</i>	Myristicaceae <i>Myristica</i>	Solanaceae <i>Brunfelsia</i> <i>Capsicum</i> <i>Lycopersicon</i> <i>Solanum</i>
Anacardiaceae <i>Mangifera</i> <i>Rhus</i> <i>Spondias</i>	Byttneriaceae <i>Theobroma</i>	Heliconiaceae <i>Heliconia</i>	Myrtaceae <i>Psidium</i>	Sterculiaceae <i>Theobroma</i>
Annonaceae <i>Cananga</i> <i>Rollinia</i>	Cannaceae <i>Canna</i>	Hydrangaceae <i>Hydrangea</i>	Nyctaginaceae <i>Bougainvillea</i>	Urticaceae <i>Broussonetia</i>
Apocynaceae <i>Carissa</i> <i>Plumeria</i>	Caricaceae <i>Carica</i>	Iridaceae <i>Iris</i>	Onagraceae <i>Ludwigia</i>	Verbenaceae <i>Faradaya</i>
Araceae <i>Alocasia</i> <i>Caladium</i> <i>Colocasia</i> <i>Diffenbachia</i> <i>Philodendron</i> <i>Syngonium</i>	Combretaceae <i>Terminalia</i>	Lauraceae <i>Persea</i>	Orchidaceae <i>Spathoglottis</i>	Zingiberaceae <i>Hedychium</i> <i>Nicolaia</i>
Araliaceae <i>Polyscias</i>	Convolvulaceae <i>Ipomoea</i> <i>Merremia</i>	Liliaceae <i>Crinum</i>	Pandanaceae <i>Pandanus</i>	
Arecaceae <i>Cocos</i> <i>Metroxylon</i> <i>Pritchardia</i> <i>Veitchia</i>	Cucurbitaceae <i>Cucumis</i> <i>Momordica</i>	Loganiaceae <i>Fagraea</i>	Piperaceae <i>Piper</i>	
Asteraceae <i>Bidens</i> <i>Mikania</i> <i>Zinnia</i>	Cyperaceae <i>Cyperus</i> <i>Kyllinga</i>	Lythraceae <i>Cuphea</i> <i>Lagerstroemia</i>	Poaceae <i>Coix</i> <i>Digitaria</i> <i>Paspalum</i> <i>Zea</i>	
Bixaceae <i>Bixia</i>	Dioscoreaceae <i>Dioscorea</i>	Malvaceae <i>Hibiscus</i>	Rhizophoraceae <i>Brugiera</i>	
Bombacaceae <i>Cieba</i>	Ebenaceae <i>Diospyros</i>	Marratiaceae <i>Angiopteris</i>	Rosaceae <i>Rosa</i>	
	Euphorbiaceae <i>Bischofia</i> <i>Codiaeum</i> <i>Euphorbia</i> <i>Flueggea</i> <i>Macaranga</i> <i>Manihot</i>	Melastomaceae <i>Aglaia</i>	Rubiaceae <i>Gardenia</i> <i>Momordica</i> <i>Morinda</i> <i>Tarenna</i>	
	Fabaceae <i>Dendrolobium</i> <i>Derris</i> <i>Erythrina</i>	Meliaceae <i>Dysoxylum</i> <i>Lansium</i>	Rutaceae <i>Citrus</i>	
		Moraceae <i>Artocarpus</i> <i>Broussonetia</i> <i>Ficus</i>	Sapindaceae <i>Pometia</i>	

PARTIAL LIST OF PATHOGENS RECORDED IN AMERICAN SAMOA

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

*Helicotylenchus dihystra**
*Helicotylenchus multinctus**
Hemileia vastatrix
Hypoxylon deustum
Hypoxylon mediterraneum
*Lasiodiplodia theobromae***
Leptosphaeria sacchari
Leptosphaeria sp.**
*Leptosphaerulina trifolii***
Lophodermium sp.**
Macrophoma pandani
Macrophoma sp.**
*Macroposthonia denoudeni**
Magnaporthe grisea
Marasmiellus inoderma
Marasmiellus semiustus
*Marasmiellus stenophyllus***
Marasmiellus spp.**
Marasmius sp.
*Marssonina rosae***
Meliola evodiae
Meliola panici
Meliolina samoensis
*Meloidogyne incognita**
Metarhizium anisopliae var. *anisopliae***
Metarhizium anisopliae var. *majus***
Monochaetia sp.**
Mycosphaerella alocasiae
Mycosphaerella cruenta
Mycosphaerella fijiensis
Mycosphaerella gastonis
Mycosphaerella henningsii
Mycosphaerella horii
Mycosphaerella musicola
Mycosphaerella rosicola
Mycosphaerella spp**
Mycovellosiella koepkei
Myrothecium roridum
*Nectria haematacocca***
Nectria jungneri
Nectria ochroleuca
Nectria rigidiuscula
Nectria sp.
Neojohnstonia colocasiae
Oidium sp.
*Paecilomyces fumosoroseus***
Paraphaeosphaeria michotii
Pellicularia koleroga
Penicillium digitatum
Periconiella perseae
Peronospora parasitica
*Pestalotiopsis mangiferae***
Pestalotiopsis palmarum
Pestalotiopsis sp**
Pestalozziella sp.**
Phanerochaeta salmonicolor
Phellinus lamaensis
Phellinus noxius
*Phoma cucurbitacearum***
*Phoma erythrinicola***
Phoma fructus-pandani
Phoma martellii
Phoma spp.**
Phomopsis palmicola
Phomopsis sp.**
Phyllachora afzeliae
Phyllachora musicola
Phyllachora paspalicola
Phyllachora setariicola
*Phyllosticta artocarpi***
Phyllosticta cordyline
Phyllosticta musarum
Phyllosticta spp.**
Physalospora rhodina
Physalospora sp.**
Phytophthora colocasiae
Phytophthora infestans
Phytophthora nicotianae var. *parasitica* (*P. parasitica*)
Phytophthora palmivora
*Pratylenchus gibbicaudatus***
*Pratylenchus loosi***
Pseudocercospora ablemoschi
Pseudocercospora borrieriae
Pseudocercospora colocasiae
*Pseudocercospora cruenta***
*Pseudocercospora fijiensis***
Pseudocercospora jatrophae
Pseudocercospora sawadae
Pseudocercospora stahlii
Pseudocercospora synedrellae
Pseudocercospora timorensis
Pseudocercospora sp.
Pseudoepicoccum cocos
Pseudomonas solanacearum
Pseudomonas solanacearum race 1**
Pseudoperonospora cubensis

*Puccinia canaliculata***
Puccinia cenchri
Puccinia cyperi
Puccinia fimbristylidis
Puccinia kuehnii
Puccinia lepturi
Puccinia melanocephala
Puccinia miscanthi
Puccinia oahuensis
Puccinia operta
Puccinia polysora
Pyrenochaeta sp.**
*Pythium aphanidermatum***
Pythium sp.**
*Radopholus similis**
Ramichloridium musae
Ravenelia sessilis
*Rhizoctonia solani***
Rhizoctonia sp.
*Rhizopus stolonifer***
Rhynchosphaeria sp.**
Rigidoporus microporus
*Rotylenchulus reniformis**
*Sclerotinia sclerotiorum***
*Sclerotium rolfsii***
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**
 Zucchini Yellow Mosaic Virus**

* Banana nematodes from Grandison (1996)

** Identifications by the author, 1999-2004

(no asterisk) Identifications from McKenzie (1996)

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