

Supplementary Material

Northern Australia Quarantine Strategy plant health surveys: over thirty years of a globally unique on- and off-shore solution to island nation biosecurity challenges

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Table S1. A selection of significant findings from NAQS domestic plant disease surveys (in chronological order)

Pathogen species / genus	Host	Year Loca- -tion ^A	Significance of record	Citation / other information ^B
<i>Pseudocercospora</i> sp. (fungus)	<i>Syzygium branderhorstii</i>	1996 TS	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular identification to species not possible ^C BRIP23984 a
<i>Pseudocercospora</i> sp. (fungus)	<i>Ampelocissus acetosa</i>	1998 TS	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular identification to species not possible ^C BRIP50689 a
<i>Pseudocercospora</i> sp. (fungus)	<i>Tabernaemonta- na orientalis</i>	2001 TS	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular identification to species not possible ^C BRIP27974 a
' <i>Candidatus</i> Phytoplasma planchoniae' as cocky apple witches' broom phytoplasma (CAWB)	<i>Planchonia careya</i>	2001 QLD	First record of what later became a new ' <i>Candidatus</i> phytoplasma' species associated with witches' broom disease symptoms, and first record of any phytoplasma in a native tree in Australia	Davis and others (2001), Rodrigues Jardim and others (2023)
' <i>Candidatus</i> Phytoplasma melaleucae' as weeping teatree witches' broom phytoplasma (WTWB)	<i>Melaleuca</i> spp.	2003 QLD	First record of what later became a new ' <i>Candidatus</i> phytoplasma' species of some taxonomic significance, associated with witches' broom disease symptoms,	Davis and others (2003), Rodrigues Jardim and others (2023)
<i>Cryptosporiopsis citri</i> (fungus)	<i>Citrus x aurantifolia</i>	2008 NT	First record in Australia of a leaf spot disease previously known from the Pacific Islands (Johnson and Fullerton 1988)	Ray and others (2008)
<i>Neoscytalidium dimidiatum</i> <i>N. novaehollandiae</i> (fungi)	<i>Mangifera indica</i>	2008 NT WA	First records of these fungi associated with branch dieback disease symptoms in mango in Australia	Ray and others (2010)
<i>N. dimidiatum</i> (fungus)	<i>Ficus carica</i>	2008 NT WA	First record associated with branch dieback disease symptoms in Australia	Ray and others (2010)
<i>Passalora puerariae</i> (fungus)	<i>Pueraria montana</i> var. <i>lobata</i>	2008 TS	Possible first record of yellow leaf mould of kudzu vine in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures

				produced on leaf spots. Molecular confirmation not possible ^C BRIP54753 a
<i>Neojohnstonia colocasiae</i> (fungus)	<i>Colocasia esculenta</i>	2010 TS	Possible first record of taro orange spot disease in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation not possible ^C BRIP54750 a
<i>Pseudocercospora</i> sp. (fungus)	<i>Harrisonia brownii</i>	2010 TS	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular identification to species not possible ^C BRIP61149 a
<i>Kuehneola garugae</i> (fungus)	<i>Garuga floribunda</i>	2012 QLD	Possible first garuga rust record in Australia	Tentative identification by microscopy, based on observation of characteristic spores in rust pustules. BRIP58097 a
<i>Pseudocercospora</i> sp. (fungus)	<i>Asystasia australasica</i>	2013 TS	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular identification to species not possible ^C BRIP59656 a
<i>Betacarmovirus hibisci</i>	<i>Hibiscus rosa-sinensis</i>	2014 NT	Possible first record in NT	Based on serological indexing of symptomatic leaves.
<i>Colletotrichum siamense</i> , <i>C. theobromicola</i> , <i>C. queenslandicum</i> <i>C. asianum</i> (fungi)	Various hosts	2014 NT	First records of these fungi associated with anthracnose disease of various plant parts in NT	James and others (2014)
<i>Uredo morifolia</i> (fungus)	<i>Morus</i> sp.	2015 NT	First record of mulberry rust in Australia	(NTDITT, QDAF) BRIP 57999
<i>Pantoea stewartii</i> subsp. nov. (bacterium)	<i>Carica papaya</i>	2015 WA	Bacterium closely related to a major target (causal agent of Stewart's bacterial wilt of maize) associated with leaf spots in papaya	(WADPIRD) JR3102, WAC 13862
<i>Austropuccinia psidii</i> (fungus)	<i>Eugenia reinwardtiana</i>	2015 NT	First record of myrtle rust disease in NT	Westaway (2016)
<i>Plasmopara sphagneticolae</i> (oomycete)	<i>Sphagneticola trilobata</i>	2014 QLD	New species causing downy mildew disease	McTaggart and others (2015)
<i>Sweet potato leaf curl virus</i> (genus <i>Begomovirus</i>)	<i>Ipomea batatas</i>	2015 TS	First record of sweetpotato leaf curl disease in Torres Strait	UQ, LMJ1449
<i>Pestalotiopsis theae</i> (fungus)	<i>Camellia sinensis</i>	2016 QLD	Possible first record of tea gray blight in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation

				of where in a new species complex this isolate belongs is pending. SLP227
<i>Citrus viroid V</i>	<i>Citrus</i> sp.	2017 TS	First record in Queensland	NSWDPI Obtained from budwood indexing of a symptomless tree.
<i>Leveillula taurica</i>	<i>Euphorbia heterophylla</i>	2017 TS	First record of this powdery mildew disease in Torres Strait	Kiss et. al. (2020)
<i>Claviceps africana</i>	<i>Sorghum bicolor</i>	2017 NT	First record of sorghum ergot disease in Northern Territory	NTDITT
<i>Sweet potato leaf curl virus</i> (genus <i>Begomovirus</i>)	<i>Ipomoea batatas</i>	2017 NT	First record of sweetpotato leaf curl disease in Northern Territory	NTDITT
<i>Golovinomyces latisporus</i>	<i>Helianthus</i> sp.	2017 WA	First record of sunflower downy mildew disease in Western Australia	Kiss et. al. (2020)
<i>Ravenelia hobsonii</i> (fungus)	<i>Milletia pinnata</i>	2019 QLD	Possible first record of pongame oil tree rust in Australia	Tentative identification by microscopy, based on observation of characteristic spores in rust pustules. Molecular confirmation not possible. RID7795
<i>Pepper vein yellows virus</i> (genus <i>Polerovirus</i>)	<i>Capsicum annum</i>	2019 TS	First record in Torres Strait	Filardo et. al. (2024)
<i>Tomato leaf curl virus</i> (genus <i>Begomovirus</i>)	<i>Solanum lycopersicum</i>	2019 WA	First record of tomato leaf curl disease in WA	HRV679
<i>Citrus vein enation virus</i> (genus <i>Enamovirus</i>)	<i>Citrus x limon</i>	2020 WA	First record in WA	(NSWDPI) Obtained from indexing symptomatic leaves. HRV763
<i>Hop stunt viroid, citrus dwarfing viroid, citrus exocortis viroid</i>	<i>Citrus x limon</i>	2020 WA	First records in WA	(NSWDPI) Obtained from indexing symptomatic leaves. HRV763
<i>Pseudocercospora</i> sp. (fungus)	<i>Hymenocallis littoralis</i>	2021 QLD	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular identification to species pending. RID8283
<i>Hop stunt viroid</i>	<i>Citrus</i> sp.	2021 QLD	Possible first record in QLD	Detected by qPCR in symptomatic leaves, further molecular confirmation not possible. NSW DPI
<i>Yambean mosaic virus</i> (genus <i>Potyvirus</i>)	<i>Calopogonium mucunoides</i>	2021 QLD	First record in Australia	Filardo et. al. (2023)
<i>Lettuce chlorosis virus</i> (genus <i>Crinivirus</i>)	<i>Calopogonium mucunoides</i> , <i>Chamaecrista rotundifolia</i> ,	2021 QLD	First record in Australia	Filardo et. al. (2023)

	<i>Crotalaria goreensis</i> , <i>Macroptilium atropurpureum</i>			
<i>Albugo</i> sp. (oomycete)	<i>Achyranthes aspera</i>	2021 TS	Possible first record in Queensland	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation not possible ^C . LMJ1544
<i>Phaeoacremonium</i> sp. nov. (fungus)	<i>Callitrus</i> sp.	2021 QLD	New genus host record and first record in Queensland	LMJ1636
<i>Albugo</i> sp. (oomycete)	<i>Phyllanthus novae-hollandiae</i>	2022 TS	Possible first oomycete genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation not possible ^C LMJ1690
<i>Phyllachora</i> sp. (fungus)	<i>Dalbergia densa</i>	2022 TS	Possible first fungal genus / host record in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation not possible ^C LMJ1718
<i>Erysiphe tectonae</i> (fungus)	<i>Tectona grandis</i>	2022 TS	Possible first record of teak powdery mildew in Australia	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation in progress (CQU). RID8536
<i>Tomato leaf curl virus</i> (genus <i>Begomovirus</i>)	<i>Stachytarpheta jamaicensis</i>	2022 TS	First record in the Torres Strait	Obtained from indexing symptomatic leaves. LMJ1697
<i>Synchytrium psophocarpi</i> (fungus)	<i>Psophocarpus tetragonolobus</i>	2022 QLD	Possible first record of false rust of winged bean in Australia	Tentative identification only, based on observation of fungal sporulating structures produced on leaf spots. Molecular confirmation in progress. RID8569
<i>Sri Lankan cassava mosaic virus</i> (genus <i>Begomovirus</i>)	<i>Manihot esculenta</i>	2022 NT	First record in Australia	Vala and others (manuscript submitted) (QDAF) (WADPIRD)

This list is not fully comprehensive. It is limited to records of interest not discussed in the text of the review and it aims to highlight opportunities for further research where possible. Some of these records are of diseases well known from elsewhere and others are novel host / pathogen associations. Artificial inoculation experiments to fulfil Koch's postulates would need to be conducted to prove a causal relationship. This table includes possible first records based on light microscopy (and one using serology) which require further work using the tools of molecular biology to verify pathogen identity. All other pathogen identifications provided in this table were confirmed using molecular methods. This table excludes new host species records for pathogens already established in a region.

^ANT: Northern Territory, QLD: Queensland, TS: Torres Strait, WA: Western Australia

^BCurrent names of collaborating agencies not acknowledged in citations are provided in parentheses: Central Queensland University (CQU), Western Australia Department of Primary Industries and Regional Development (WADPIRD), New South Wales Department of Primary Industries (NSWDPI), Northern Territory Department of Industry Tourism and Trade (NTDITT), Queensland Department of Agriculture and Fisheries (QDAF), University of Queensland (UQ). The specimen or sample collection reference numbers are provided where available. BRIP numbers refer to QDAF biological collections plant pathology herbarium specimen accession numbers. Numbers prefixed by HRV, JR, LMJ, RID and SLP indicate collector's name initial letters and refer to NAQS plant pathology collection accession numbers. WAC refers to a WADPIRD collection accession number.

^CState legislation does not permit cultures of plant pathogenic fungi to be returned from the Torres Strait islands for molecular diagnostics in the NAQS Cairns plant pathology laboratory.

Table S2. A selection of significant findings from joint agency overseas plant disease surveys (in chronological order)

Pathogen species / genus	Host	Year / country	Details of record	Citation / other information ^A
<i>Tungrovirus oryzae</i> (as Rice tungro bacilliform virus)	<i>Oryza sativa</i>	1999 Indonesia	First record of tungro disease on the Island of New Guinea	Davis and others (2000a)
<i>Badnavirus alphavirgamusae</i> , <i>B. deltavirgamusae</i> , <i>B. gamamvirgamusae</i> (as Banana streak GF, OL and Mys virus, respectively)	<i>Musa</i> sp.	2000 PNG	First records of banana leaf streak disease in PNG.	Davis and others (2000b)
' <i>Candidatus Liberibacter asiaticus</i> '	<i>Citrus</i> spp.	2004 Timor Leste	First record of huanglongbing disease of citrus in Timor Leste	Weinert and others (2004)
<i>Oidium moluccanum</i> (fungus)	<i>Aleurites moluccanus</i>	2005 Timor Leste	New powdery mildew fungus sp. in Timor Leste	Liberato and others (2005)
<i>Olivea tectonae</i> (fungus)	<i>Tectona grandis</i>	2006 PNG	Possible first record of teak rust in PNG	Tentative identification by microscopy, based on observation of characteristic spores in rust pustules. RID5241
<i>Pseudocercospora piperis</i> (fungus)	<i>Piper aduncum</i>	2007 PNG	Possible first record in PNG of a fungus causing a leaf spot disease, touted elsewhere as of biocontrol potential for this serious weed sp. (Rocha and others 2013)	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID4819
<i>Puccinia heliconiae</i> (fungus)	<i>Heliconia</i> sp.	2008 PNG	First record of heliconia rust in PNG	Liberato and others (2008)
<i>Pseudocercospora purpurea</i> (fungus)	<i>Persea americana</i>	2008 PNG	Possible first record of 'cercospora' leaf spot of avocado in PNG	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID5090
<i>Cercospora</i> sp. (<i>apii</i> S. lat) (fungus)	<i>Spigelia anthelmia</i>	2009 PNG	Possible first record in PNG of cercospora leaf spot / blight	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID6443
<i>Cryptosporiopsis citri</i> (fungus)	<i>Citrus x aurantifolia</i>	2009 PNG	Possible first record in PNG of a leaf spot disease previously known from other Pacific Islands (Johnson and Fullerton 1988)	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID5422
<i>Puccinia heliconiae</i> (fungus)	<i>Heliconia</i> spp.	2010 Solomon Islands	Possible first record of heliconia rust in Solomon Islands	Tentative identification by microscopy, based on observation of characteristic spores in rust pustules. RID5755

<i>Badnavirus gamamvirgamusae</i> (as Banana streak MY virus)	<i>Musa</i> sp.	2010 Solomon Islands	First record of banana streak disease in Solomon Islands	Unpublished data (QDAF) RID5770
<i>Cryptosporiopsis citri</i> (fungus)	<i>Citrus x aurantifolia</i>	2010 Solomon Islands	Possible first record in Solomon Islands of a leaf spot disease previously known from other Pacific Islands (Johnson and Fullerton 1988)	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID5720
<i>Xanthomonas citri</i> subsp. <i>citri</i> (bacterium)	<i>Citrus</i> spp.	2010 Solomon Islands	First record of citrus canker disease in Solomon Islands	Davis and others (2015)
<i>Fiji disease virus</i> (genus <i>Fijivirus</i>)	<i>Sacharum officinarum</i>	2011 Solomon Islands	First molecular confirmation of Fiji leaf gall disease in Solomon Islands	Unpublished data (SRA) RID6061
' <i>Candidatus</i> Phytoplasma melaleucae' as weeping teatree witches' broom phytoplasma (WTWB)	<i>Melaleuca cajuputi</i> subsp. <i>platyphylla</i>	2011 PNG	First record of teatree witches' broom disease in PNG	Rodrigues Jardim and others (2023)
Cucumber mosaic virus	<i>Piper methysticum</i>	2014 Solomon Islands	First record of kava dieback disease in Solomon Islands	RID6894
<i>Puccinia spegazzinii</i> (fungus)	<i>Mikania micrantha</i>	2015 Solomon Islands	Possible first record in Solomon Islands of a rust fungus released elsewhere in the Pacific Islands as a biocontrol agent for this serious weed sp. (Day and others 2013)	Tentative identification by microscopy, based on observation of characteristic spores in rust pustules. RID7163
<i>Olivea tectonae</i> (fungus)	<i>Tectona grandis</i>	2016 Solomon Islands	Possible first record of teak rust in Solomon Islands	Tentative identification by microscopy, based on observation of characteristic spores in rust pustules. RID7378
Cotton leafroll dwarf virus	<i>Gossypium barbadense</i>	2016 Timor Leste	First record in Timor Leste	Ray and others (2016) Based on indexing of symptomless leaves.
<i>Pseudocercospora piperis</i> (fungus)	<i>Piper aduncum</i>	2016 Solomon Islands	Possible first record in Solomon Islands of a fungus causing a leaf spot disease, touted elsewhere as of biocontrol potential for this serious weed sp. (Rocha and others 2013)	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID7384
<i>Xanthomonas citri</i> subsp. <i>citri</i> (bacterium)	<i>Citrus</i> spp.	2017 Timor Leste	First confirmation of citrus canker disease in Timor Leste	Ray and others (2017)
<i>Pseudocercospora purpurea</i> (fungus)	<i>Persea americana</i>	2018 Solomon Islands	Possible first record of 'cercospora' leaf spot disease of avocado in Solomon Islands	Tentative identification by microscopy, based on observation of fungal sporulating structures produced on leaf spots. RID7963

Novel begomoviruses	Various hosts	2021 PNG, Timor Leste	First records in PNG and Timor Leste of begomoviruses associated with various severe leaf symptoms	Davis and others (2021)
<i>Fusarium sulawesiensis</i>	<i>Vanilla planifolia</i>	2021 PNG	First record of vanilla wilt disease in PNG	NAQIA unpublished data

This list is not fully comprehensive. It is limited to records of interest not discussed in the text of the review and it aims to highlight opportunities for further research where possible. . This table includes possible first records based on light microscopy which require further work using the tools of molecular biology to verify pathogen identity. All other pathogen identifications provided in this table were confirmed using molecular methods. This table excludes new host species records for pathogens already established in a country.

^ACurrent names of collaborating agencies not acknowledged in citations are provided in parentheses: Queensland Department of Agriculture and Fisheries (QDAF), Sugar Research Australia (SRA). The specimen or sample NAQS plant pathogen reference collection numbers are provided where available (accession numbers prefixed with RID).

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