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PESTS, DISEASES AND NEMATODES OF MAJOR SPICES AND CONDIMENTS

IN ASIA AND THE FAR EAST

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DISEASES

<u>Organism</u>	<u>Distribution</u>
Bast ziekte	Indonesia
Corticium salmonicolor	Indonesia
Coryneum myristicae	Indonesia
Cyphella heveae	Indonesia
Diplodia natalensis	India
Fomes lamaoensis	Indonesia
Fomes noxius	Indonesia
Gliocladium sp.	Malaysia
Macrophema sp.	Indonesia
Marasmius sp.	Indonesia
Oidium sp.	Indonesia
Phytophthora faberi	Indonesia
Phytophthora sp.	Indonesia

INSECTS

Carpophilus dimidatus	Western Samoa
C. maculatus	Western Samoa
Coctrypes dactyliperda	Western Samoa
Thamnurgides myristicae	Western Samoa

DISEASES

<u>Organism</u>	<u>Distribution</u>
<i>Botryodiplodia theobromae</i>	North Borneo, Cambodia, Laos, Vietnam
<i>Calonectria rigidiuscula</i>	Brunei
<i>Cephaleuros mycoidae</i>	Indonesia
<i>C. virescens</i>	Cambodia, Thailand, Western Samoa
<i>Choanephora cucurbitarum</i>	Malaysia
<i>Cochliobolus geniculatus</i>	Malaysia(Sarawak)
<i>Colletotrichum gloeosporioides</i>	Cambodia, New Caledonia, New Hebrides
<i>Colletotrichum</i> sp.	Bangladesh
<i>C. piperis</i>	India, Indonesia
<i>Corticium rolfsii</i>	Malaysia
<i>C. salmonicolor</i>	Brunei, Indonesia, North Borneo
<i>C. solani</i>	Malaysia
Curl disease (virus)	Indonesia
<i>Curvularia eragrostidis</i>	Malaysia
<i>Fomes noxius</i>	Indonesia, Malaysia
<i>F. lignosus</i>	Malaysia
<i>Fusarium solani</i>	Brunei
<i>Fusarium</i> sp.	Thailand
<i>Glomerella cingulata</i>	Brunei
<i>Gloeosporium</i> sp.	Thailand
<i>Irpex flavus</i>	Malaysia
<i>Leptosphaeria suffulta</i>	Malaysia
<i>Marasmius equicrinis</i>	Malaysia
<i>M. campanella</i>	Malaysia(Sarawak)
<i>M. scandens</i>	North Borneo

<u>Organism</u>	<u>Distribution</u>
<i>Meliola piperis</i>	Malaysia
<i>Morfia</i> sp.	Malaysia(Sarawak)
Mosaic, mottling and yellow viruses	Cambodia
<i>Microxyphium</i> sp.	Malaysia
Pepper stunt virus	Philippines
<i>Phytophthora palmivora</i>	Indonesia, Malaysia
<i>Pythium complectens</i>	Cambodia, Laos, Vietnam
<i>Phytophthora</i> sp.	Cambodia, Thailand
<i>Phyllosticta</i> sp.	Cambodia
<i>Pleurotus</i> (<i>Hohenbuehelia</i>) <i>testudo</i>	Malaysia(Sarawak)
<i>Pythium vexans</i>	Brunei
<i>Rhizophus stolonifer</i>	Brunei
<i>Sphaerostilbe repens</i>	Malaysia(Sarawak)
<i>Sclerotium rolfsii</i>	India, Thailand
<i>Septobasidium</i> sp.	Thailand
<i>Scolecobasidium</i> sp.	Brunei
<i>Strigula elegans</i>	Brunei
Yellow disease associated with <i>Radopholus similis</i>	Malaysia

INSECTS

<i>Aleurodicus destructor</i>	Malaysia(Sarawak)
<i>Antestia philippina</i>	Malaysia
<i>Apogonia rauca</i>	Cambodia, Laos, Vietnam
<i>Ascheronia</i> sp.	Malaysia
<i>Aspidiotus destructor</i>	Malaysia(Sarawak)
<i>Attacus atlas</i>	Malaysia(Sarawak)
<i>Cacoecia micaceana</i>	Thailand
<i>Dasynus piperis</i>	Malaysia(Sarawak)
<i>Diaparsia hamitti</i>	Malaysia(Sarawak)

<u>Organism</u>	<u>Distribution</u>
<i>Elasmognathus nepalensis</i>	Cambodia, Laos, Vietnam
<i>Ferrisia virgata</i>	Malaysia(Sarawak)
<i>Kana illaborata</i>	Malaysia(Sarawak)
<i>Lacanium marsupiale</i>	India
<i>Lepidosaphes piperis</i>	India
<i>Leucopholis emarginatus</i>	Malaysia
<i>Lasioderma serricorne</i> (storage pest)	India
<i>Longitarsus nigripennis</i>	India
<i>Lophobaris piperis</i>	Malaysia(Sarawak)
<i>Paralecanium malayanum</i>	Malaysia
<i>Parasa lepida</i>	Malaysia
<i>P. darma</i>	Malaysia(Sarawak)
<i>Planococcus citri</i>	Malaysia(Sarawak)
<i>Platylecanium</i> sp.	Malaysia(Sarawak)
<i>Protopulvinaria longivalvata</i>	Malaysia(Sarawak)
<i>Pseudococcus virgatus</i>	India
<i>Pseudaonidia</i> sp.	Malaysia(Sarawak)
<i>Pulvinaria</i> sp.	Malaysia
<i>Setora nitens</i>	Malaysia(Sarawak)
<i>Stegobium paniceum</i> (storage pest)	India
<i>Telingana varipes</i>	Malaysia
<i>Thosea lutea</i>	Malaysia(Sarawak)

NEMATODES

<i>Aglenchus</i> sp.	Malaysia
<i>Alaimus</i> sp.	Brunei
<i>Aphelenchus avenae</i>	Brunei
<i>Aphelenchoides</i> sp.	Malaysia, Thailand
<i>Aporcelaimellus</i> sp.	Brunei
<i>Criconemoides</i> spp.	Thailand

<u>Organism</u>	<u>Distribution</u>
<i>Diphtherophora</i> spp.	Thailand
<i>Dorylaimellus</i> sp.	Brunei
<i>Ditylenchus</i> sp.	Malaysia(Sarawak)
<i>Helicotylenchus</i> sp.	Brunei, Malaysia
<i>Hemicriconemoides mangiferae</i>	Thailand
<i>Heterodera raditicola</i>	Cambodia, Indonesia, Laos, Vietnam
<i>Hoplolaimus seinhorsti</i>	Thailand
<i>Hoplolaimus</i> sp.	Brunei
<i>Macroposthonia oncoensis</i>	Brunei
<i>Meloidogyne</i> sp.	Brunei, Cambodia, Malaysia, Thailand, Vietnam
<i>M. incognita</i>	Malaysia(Sarawak)
<i>M. javanica</i>	Malaysia
<i>Pratylenchus</i> sp.	Malaysia
<i>Radopholus similis</i>	Indonesia, Thailand
<i>Rotylenchulus reniformis</i>	Thailand
<i>Scutellonema siamense</i>	Brunei
<i>Trichodorus</i> spp.	Thailand
<i>Tylenchorhynchus</i> sp.	Malaysia
<i>Xiphinema</i> sp.	Malaysia
<i>X. raditicola</i>	Brunei, Thailand

DISEASES

<u>Organism</u>	<u>Distribution</u>
Cercospora traversiana	India
Erysiphe polygoni	India
Leveillula taurica	India
Peronospora trifoliorum	India
Uromyces anthyllidis	India

DISEASES

<u>Organism</u>	<u>Distribution</u>
<i>Cephaleuros virescens</i>	Malaysia
<i>Cochliobolus geniculatus</i>	Malaysia
<i>C. heterostrophus</i>	India
<i>Colletotrichum zingiberis</i>	India
<i>Coniothyrium fuckelii</i>	Malaysia
<i>C. zingiber</i>	Cambodia
<i>Corticium solani</i>	Brunei, Indonesia
<i>Curvularia eragrostidis</i>	Malaysia
<i>C. senegalensis</i>	Malaysia
<i>C. geniculata</i>	Nepal
<i>C. pallescens</i>	Nepal
<i>Diplodia natalensis</i>	India
<i>Fomes lignosus</i>	Malaysia
<i>Fusarium yellows and fungal rhizome</i>	Australia
<i>Fusarium roseum</i>	India
<i>Glomerella cingulata</i>	Malaysia
<i>Hendersonia zingiberi</i>	Malaysia
<i>Leptosphaeria typhae</i>	Malaysia
<i>Leptosphaeria sp.</i>	Malaysia, Nepal
<i>Macrophomina phaseolina</i>	India
<i>Mycosphaella sp.</i>	Malaysia
<i>Ophiobolus sp.</i>	Malaysia
<i>Pellicularia filamentosa</i>	India
<i>Phoma eupyrena</i>	Malaysia
<i>Phaeoseptoria sp.</i>	Nepal
<i>Phyllosticta zingiberi</i>	Brunei, India, Nepal, Malaysia, Thailand

DISEASES

<u>Organism</u>	<u>Distribution</u>
Phyllosticta sp.	North Borneo
Phytophthora sp.	Thailand
Poria sp.	Malaysia
Pyricularia zingiberi	Malaysia
'Root and basal stem rot'	Australia
Pythium aphanidermatum	India
P. vexans	India
Sclerotium rolfsii	India
Septoria sp.	Thailand
Stenobothrium panicum (storage pest)	India
Tetraploa aristata	Malaysia
Trichothecium roseum	Nepal
Xanthomonas zingiberi	Thailand

INSECTS

Ancistroides	Singapore
Dichocrocis punctiferalis	India
Geometridae indet	Singapore
Lasioderma serricorne (storage pest)	India
Stegobium paniceum (storage pest)	India
Udaspes folus	India, Hong Kong

NEMATODES

<u>Organism</u>	<u>Distribution</u>
Aphelenchus avenae	Malaysia
Helicotylenchus dihystrera	Thailand
H. erythrinae	Thailand
Meloidogyne acrita	Fiji
Meloidogyne spp.	Australia, Malaysia
Radopholus similis	Fiji
Tylenchus sp.	Malaysia

DISEASES

<u>Organism</u>	<u>Distribution</u>
<i>Aecidium cinnamomi</i> (on <i>Cinnamomum tamala</i> in India)	India, Indonesia
<i>Corticium solani</i>	Malaysia
<i>C. javanica</i> (on <i>Cinnamomum burmani</i>)	Indonesia
<i>Marasmius equicrinus</i>	Malaysia
<i>Pestalozzia cinnamomi</i> (on <i>Cinnamomum zeylanicum</i>)	Indonesia
<i>Phyllosticta cinnamomi</i> (on <i>Cinnamomum tamala</i>)	Bangladesh
<i>Phytophthora cinnamomi</i> (on <i>Cinnamomum burmani</i>)	Indonesia
<i>Scolecotrichum cinnamomi</i> (on <i>Cinnamomum zeylanicum</i>)	Indonesia

INSECTS

<i>Archips tabescens</i>	Malaysia
<i>Attacus atlas</i>	Malaysia (Sarawak)
<i>Ceroplastes rubens</i>	Western Samoa
<i>Crypticeria jacobsoni</i> (on <i>Cinnamomum iners</i>)	Singapore
<i>Dasychira mendosa</i>	Malaysia (Sarawak)
<i>Eucalymnatus tessellatus</i>	Western Samoa
<i>Graphium sarpedon</i> (on <i>Cinnamomum iners</i>)	Singapore
<i>Hyposidra talaca</i>	Malaysia (Sarawak)
<i>Paliodaspis</i> sp.	Cambodia
<i>Papilio sarpedon</i> .	Malaysia (Sarawak)
<i>Phyllocnistis chrysophthalma</i> (on <i>Cinnamomum iners</i>)	Singapore
<i>Pompon marginatum</i> (on <i>Cinnamomum iners</i>)	Singapore
<i>Sinomegoura citricola</i> (on <i>Cinnamomum iners</i>)	Singapore
<i>Stilpnotia cygna</i> (on <i>Cinnamomum camphora</i>)	Singapore

DISEASES

<u>Organism</u>	<u>Distribution</u>
Aschersonia sp.	Malaysia (Sarawak)
Caldariomyces sp.	Malaysia
Cephaleuros mycoidea	Indonesia
C. virescens	Malaysia
Corticium salmonicolor	Malaysia (Sabah)
C. solani	Malaysia
Cylindrocladium quinquesseptatum	Indonesia
Gloeosporium piperatum	Indonesia
Glomerella sp.	Indonesia
Marasmius sp.	Indonesia
"Mati budjang" disease	Indonesia
Periconia sp.	Thailand
Pestalotiopsis palmarum	Malaysia
Tripospherum sp.	Malaysia

INSECTS

Araecerus faciculatus (on Syzygium aromaticum)	India
Apoderus atropterus	Malaysia (Sarawak)
Alcidodes nero(=patruelis)	Malaysia (Sarawak)
Dialeurodes sp.	Malaysia
Narosa concinna	Malaysia (Sarawak)

DISEASES

<u>Organism</u>	<u>Distribution</u>
Alternaria poonensis	India
Cercospora apii	Brunei
Erysiphe polygona	India
Fusarium oxysporum	India
Protomyces macrosporus	Bangladesh, India, Nepal, Pakistan
Rhizoctonia solani	India
Sclerotinia sclerotiorum	India

INSECTS

Agnoscelis nubila	India
Hyalopterus arundinis	India
Laphygma exigua	India
Lasioderma serricorne(storage pest)	India
Stegobium paniceum(storage pest)	India
Spodoptera exigua	India

DISEASES

<u>Organism</u>	<u>Distribution</u>
Alternaria burnsii	India
Erysiphe polygoni	India
Fusarium oxysporum cumini	India
Oidium sp.	Bangladesh

INSECTS

Agnoscelis nubila	India
Hyalopterus arundinis	India
Laphygma exigua	India
Lasioderma serricorne (storage pest)	India
Stegobium paniceum (storage pest)	India
Spodoptera exigua	India