

INDEX OF FUNGAL NAMES

Alphabetical list of fungal species, genera and families treated in the Taxonomy sections of the included manuscripts.

A

- Acicuseptoria* 376–377
Acicuseptoria rumicis 376–377
Allantozythia 384
Allewia 183
Allewia eureka 193
Allewia proteae 193
Alternaria 183, 186, 190, 193, 198, 207
Alternaria abundans 189
Alternaria acalyphicola 200
Alternaria agerati 200
Alternaria agripestis 200
Alternaria allii 191
Alternaria alternantherae 185
Alternaria alternariae 206
Alternaria alternarina 195
Alternaria alternata 183, 185–186
Alternaria anagallidis 200
Alternaria angustiovoidea 187
Alternaria anigozanthi 193
Alternaria aragakii 200
Alternaria araliae 199
Alternaria arborescens 187, 201
Alternaria arbusti 195
Alternaria argyranthemii 207
Alternaria argyroxiphii 200
Alternaria armoraciae 189
Alternaria aspera 201
Alternaria atra 204
Alternaria avenicola 198–199
Alternaria axiaeriisporifera 193
Alternaria bataticola 200
Alternaria blumeae 200
Alternaria bornmuelleri 206–207
Alternaria botryospora 193
Alternaria botrytis 206
Alternaria brassicae 202, 204, 207
Alternaria brassicae var. *tabaci* 187
Alternaria brassicae-pekinensis 204
Alternaria brassicicola 188, 197
Alternaria breviramosa 189
Alternaria burnsii 187
Alternaria caespitosa 195
Alternaria calendulae 200
Alternaria californica 196
Alternaria calycipyricola 198–199
Alternaria cantlous 204
Alternaria capsici 200–201
Alternaria capsici-annui 206
Alternaria caricis 197
Alternaria carotiincultae 202
Alternaria carthami 200
Alternaria cassiae 200
Alternaria celosiae 185
Alternaria celosiacola 185
Alternaria cerealis 187
Alternaria cetera 188–189
Alternaria chartarum 201
Alternaria chartarum f. *stemphylioides* 201
Alternaria cheiranthi 189
Alternaria chlamydospora 190, 199
Alternaria chlamydosporigena 190
Alternaria “chlamydosporum” 199
Alternaria chrysanthemi 204
Alternaria cichorii 200
Alternaria cinerariae 202
Alternaria cinerea 207
Alternaria cirsinoxia 200
Alternaria citriarbusti 187
Alternaria citrimaculata 187
Alternaria colombiana 187
Alternaria concatenata 201
Alternaria conjuncta 196
Alternaria conoidea 188
Alternaria “consortiale” 204
Alternaria consortialis 204
Alternaria crassa 200
Alternaria cretica 200
Alternaria cucumerina 200
Alternaria cucurbitae 204
Alternaria cumini 193
Alternaria cyphomandrae 201
Alternaria danida 201
Alternaria dauci 201
Alternaria daucicaulis 196
Alternaria daucifolii 187
Alternaria dennisii 207
Alternaria destruens 187
Alternaria dianthicola 190, 193–194
Alternaria dichondrae 201
Alternaria didymospora 199
Alternaria dumosa 187
Alternaria elegans 190
Alternaria ellipsoidea 189, 193
Alternaria embellisia 190–191
Alternaria eryngii 198–199
Alternaria ethzedia 196
Alternaria euphorbiicola 201
Alternaria eureka 193
Alternaria frumenti 196
Alternaria fulva 207
Alternaria gaisen 187
Alternaria geniostomatis 193
Alternaria gomphrenae 185
Alternaria gossypii 189
Alternaria gossypina 186
Alternaria graminicola 196
Alternaria grandis 201
Alternaria grisae 186
Alternaria grossulariae 186
Alternaria gypsophilae 193
Alternaria hawaiiensis 201
Alternaria helianthiinficiens 207
Alternaria “helianthiinficiens” 207
Alternaria herbiphorbicola 187
Alternaria heterospora 204
Alternaria hordeiaustralica 196

Alternaria hordeicola 196
Alternaria humuli 196
Alternaria hyacinthi 193
Alternaria incomplexa 196
Alternaria indefessa 189
Alternaria infectoria 194, 196, 198
Alternaria intercepta 196
Alternaria iridis 186
Alternaria japonica 188, 197
Alternaria juxtiseptata 193
Alternaria kikuchiana 187
Alternaria leptinellae 193
Alternaria leucanthemi 204
Alternaria limaciformis 199
Alternaria limicola 201
Alternaria limoniasperae 187
Alternaria lini 186
Alternaria linicola 201
Alternaria lolii 193
Alternaria longipedicellata 201
Alternaria longipes 187
Alternaria macrospora 201
Alternaria malorum 189
Alternaria malvae 186
Alternaria maritima 186
Alternaria matthiolae 197
Alternaria merytae 196
Alternaria metachromatica 196
Alternaria mimicula 188
Alternaria molesta 199
Alternaria mouchaccae 199
Alternaria multiformis 204
Alternaria multirostrata 201
Alternaria nelumbii 186
Alternaria nepalensis 197
Alternaria nitrimali 201
Alternaria nobilis 193
Alternaria novae-zelandiae 196
Alternaria obclavata 189
Alternaria obovoidea 204
Alternaria oregonensis 196
Alternaria oudemansii 206
Alternaria oxytropis 207
Alternaria panax 198–199
Alternaria papavericola 190
Alternaria papaveris 190
Alternaria passiflorae 201
Alternaria peglionii 194
Alternaria penicillata 189–190
Alternaria perangusta 187
Alternaria perpunctulata 185
Alternaria petroselini 202
Alternaria photistica 194, 198–199
Alternaria phragmospora 199
Alternaria planifunda 193
Alternaria poonensis 201
Alternaria porri 199, 201
Alternaria porri f.sp. *cichorii* 200
Alternaria postmessia 187
Alternaria proteae 193
Alternaria protenta 201
Alternaria pseudorostrata 201
Alternaria radicina 201–202
Alternaria radicina var. *petroselini* 202
Alternaria resedae 186, 188–189
Alternaria rhadina 186
Alternaria ricini 201
Alternaria rostellata 201
Alternaria saponariae 193
Alternaria scirpicola 197–198
Alternaria scirpifestans 198
Alternaria scirpivora 198
Alternaria scorzonerae 201
Alternaria sect. *Alternantherae* 185
Alternaria sect. *Alternata* 185–186, 200
Alternaria sect. *Brassicicola* 188–189
Alternaria sect. *Chalastospora* 188
Alternaria sect. *Cheiranthus* 189
Alternaria sect. *Crivellia* 189–190
Alternaria sect. *Dianthicola* 190, 193–194
Alternaria sect. *Embellisia* 190, 207
Alternaria sect. *Embellisioides* 193
Alternaria sect. *Eureka* 193
Alternaria sect. *Gypsophilae* 193
Alternaria sect. *Infectoriae* 194
Alternaria sect. *Japonicae* 188, 197
Alternaria sect. *Nimbya* 197
Alternaria sect. *Panax* 194, 198
Alternaria sect. *Phragmosporae* 199
Alternaria sect. *Porri* 199–200
Alternaria sect. *Pseudoulocladium* 201
Alternaria sect. *Radicina* 201
Alternaria sect. *Sonchi* 202
Alternaria sect. *Teretispora* 202
Alternaria sect. *Ulocladioides* 189–190, 201, 204, 206
Alternaria sect. *Ulocladium* 204, 206
Alternaria sect. *Undifilum* 206–207
Alternaria selini 202
Alternaria septorioides 188–189
Alternaria septospora 201
Alternaria sesami 201
Alternaria simsimi 190
Alternaria slovacica 196
Alternaria smyrnii 202
Alternaria solani 201, 204
Alternaria solani-nigri 201
Alternaria “*solani-nigrii*” 201
Alternaria soliaridae 207
Alternaria solidaccana 188
Alternaria sonchi 202
Alternaria stemphylioides 201
Alternaria steviae 201
Alternaria subcucurbitae 204
Alternaria subcylindrica 201
Alternaria tagetica 201
Alternaria tangelonis 188
Alternaria tellustris 191
Alternaria tenuis 187
Alternaria tenuissima 188
Alternaria terricola 206
Alternaria thalictrigena 207
Alternaria tomato 186
Alternaria tomatophila 201
Alternaria toxicogenica 188

- Alternaria triglochinicola* **193**
Alternaria triticimaculans **196**
Alternaria triticina **196**
Alternaria tropica **201**
Alternaria tuberculata 206
Alternaria tumida **193**
Alternaria turkisafria **188**
Alternaria vaccariae 193–194
Alternaria vaccariicola 193–194
Alternaria ventricosa **196**
Alternaria viburni **196**
Alternaria zinniae **201**
Ancylospora 74
Ancylospora costi 74
Aphanofalx 360–361
Aphanofalx irregularis 361
Aphanofalx mali 361
Apocytospora 21
Apocytospora visci 22
Aposphaeria corallinolutea **28**
Aposphaeria fusco-maculans 25
Aposphaeria populina **29**
Aposphaeria pulviscula 25
Ascochyta aceris 294
Ascochyta campanulae 245
Ascochyta caulina 24
Ascochyta galeopsidis 260
Ascochyta heraclei 260
Ascochyta hyalospora 24
Ascochyta lysimachiae 269
Ascochyta obiones 25
Ascochyta petroselini 277
Ascochyttula obiones 25
Asperisporium caricae 370
Asteroma tiliae 26
Asteromella 255, 295
Asteromella lupini 22
Asteromella tiliae 27
Asteromidium **334**
Asteromidium imperspicuum 334
Aureobasidium slovacum 196
- B**
- Bakerophoma tracheiphila* 22
Batcheloromyces 63
Baudoinia 63
Beverwykella pulmonaria 29
Blumeriella jaapii 336
Botryomyces 183
Botryomyces caespitosus 195
Botryosphaeria 374
Brachycladium 183
Brachycladium papaveris 190
Brachycladium penicillatum 190
Bysothecium circinans **28**
- C**
- Capnobotryella* 63
Carlia latebrosa 294
Caryophylloseptoria **233, 349**
Caryophylloseptoria lychnidis **234, 349**
Caryophylloseptoria pseudolychnidis 235, **349**
Caryophylloseptoria silenae **235**
Caryophylloseptoria spergulae **236**
Catenulostroma 63
Centrospora cantuariensis 61
Cephalosporium chrysanthemi 21
Cercocladospora 74
Cercocladospora adinae 74
Cercoseptoria 74
Cercoseptoria balsaminae 79
Cercoseptoria ligustrina 61
Cercoseptoria pini-densiflorae 96
Cercoseptoria pruni-persicae 99
Cercoseptoria prunicola 98
Cercoseptoria tineae 108
Cercospora **67–68, 108, 144, 147–149, 151–152, 154–156, 159, 161–165, 343, 350**
Cercospora abelmoschi 76
Cercospora acaciae-mangii 164–165
Cercospora achyranthis **143–144, 147, 159, 162**
Cercospora agavicola **144, 152, 162**
Cercospora albido-maculans 160
Cercospora alchemillicola **144, 148, 158, 162–164, also see Cercospora cf. alchemillicola**
Cercospora althaeicola 144
Cercospora althaeina **144, 146, 161, 164, 167**
Cercospora althaeina var. *althaeae-officinalis* 144
Cercospora althaeina var. *praecincta* 144
Cercospora amadelpa 92
Cercospora angolensis 77
Cercospora apii **144–145, 147–148, 153–154, 158, 160–161, 163, 165, 167**
Cercospora apiicola **145, 165**
Cercospora araliae 78
Cercospora armoraciae 144, **145–146, 148, 153, 161, 164, 167**
Cercospora "atramarginalis" 78
Cercospora atriplicis 148
Cercospora atrogrisea 146
Cercospora atromaculans 78
Cercospora atromarginalis 78
Cercospora avicularis var. *sagittati* 159
Cercospora barbareae 146
Cercospora batatae 108
Cercospora berteroaee 146
Cercospora beticola 145, **146–147, 152–153, 160, 165**
Cercospora bizzozeriana 146
Cercospora bizzozeriana var. *drabae* 146
Cercospora bondarzevii 148
Cercospora brassicicola 146
Cercospora bremeri 106
Cercospora brunckii 147, also see *Cercospora* cf. *brunckii*
Cercospora callicarpae 79
Cercospora callicarpicola 79
Cercospora camarae 146
Cercospora campi-silii **147, 159, 162**
Cercospora canescens **147–148, 165–166**
Cercospora cantuariensis 61
Cercospora capreolata 96
Cercospora capsici 146, **148, 157**
Cercospora "cardaminae" 146
Cercospora cardamines 146

- Cercospora caricae* 370
Cercospora catappae 79
Cercospora celosiae 144, **148**, 162–163
Cercospora cercidis 80
Cercospora cf. *alchemillicola* **144**, 148, 158, 162–164
Cercospora cf. *brunkii* 145, **147**, 155, 157
Cercospora cf. *chenopodii* **149**, 152, 161, 163
Cercospora cf. *citrulina* **150**, 156
Cercospora cf. *coreopsidis* 148, **152**
Cercospora cf. *erysimi* **153**
Cercospora cf. *flagellaris* 147, **155**, 157, 161, 163
Cercospora cf. *helianthicola* 150, **156–157**
Cercospora cf. *ipomoeae* 155–**156**, 161–162, 164, 167
Cercospora cf. *malloti* **157**, 164
Cercospora cf. *modiolae* 153, **157**
Cercospora cf. *nicotianae* **157–158**
Cercospora cf. *physalidis* 144, **158**, 162–163
Cercospora cf. *resedae* 145, **159**
Cercospora cf. *richardii* 147, 156–157, **160–161**, 164–165
Cercospora cf. *sigesbeckiae* 144, 155–156, 159–**161**, 164–165
Cercospora cf. *zinniae* **167**
Cercospora cheiranthi 145–146
Cercospora chengtzensis 80
Cercospora chenopodii 145, **148–149**, also see *Cercospora* cf. *chenopodii*
Cercospora chenopodii var. *atriplicis patulae* 148
Cercospora chenopodii var. *micromaculata* 148
Cercospora chinensis **150**, 153
Cercospora chionanthi-retusi 81
Cercospora chionea 79
Cercospora chrysanthemicola 81
Cercospora circumscissa 99
Cercospora cistinearum 160
Cercospora citrullina 153, also see *Cercospora* cf. *citrulina*
Cercospora coniogrammes **151**
Cercospora contraria 81
Cercospora copallina 104
Cercospora corchori 150, **151–152**, 165
Cercospora coreopsidis see *Cercospora* cf. *coreopsidis*
Cercospora coriariae 82
Cercospora comicola 82
Cercospora corylopsidis 82
Cercospora “cotoneasteris” 82
Cercospora cotoneastri 82
Cercospora crassa 200
Cercospora crepidis 164
Cercospora cydoniae 84
Cercospora cynanchi 159
Cercospora daizu 162
Cercospora delaireae 149, **152**, 161–164
Cercospora depazeoides 67
Cercospora deutziae 163
Cercospora difformis 166
Cercospora dioscoreae-pyrifoliae 165
Cercospora dispori 150, **153**
Cercospora dovyalidis 84
Cercospora drabae 146
Cercospora dubia 148
Cercospora dubia var. *atriplicis* 148
Cercospora dubia var. *urbica* 148
Cercospora duplicata 96
Cercospora eremochloae 68
Cercospora erysimi 153, also see *Cercospora* cf. *erysimi*
Cercospora eucommiae **67–68**
Cercospora euphorbiae-sieboldianae **153**, 159
Cercospora exosporioides 86
Cercospora “fagariae” 110
Cercospora fagaricola 110
Cercospora fagopyri **154–156**, 161, 166–167
Cercospora flagellaris 155, also see *Cercospora* cf. *flagellaris*
Cercospora flexuosa 106
Cercospora fruticola 157
Cercospora fukuokaensis 87
Cercospora fuligena 87
Cercospora ganjetica 159
Cercospora glauca 87
Cercospora guatemalensis 163
Cercospora guianensis 87
Cercospora hamamelidis 82
Cercospora hayi 151, 164
Cercospora helianthicola see *Cercospora* cf. *helianthicola*
Cercospora helvola 167
Cercospora helvola var. *zebrina* 167
Cercospora hibisci 76
Cercospora hibisci-manihotis 76
Cercospora humuli 89
Cercospora humuli-japonici 89
Cercospora “hypticola” 94
Cercospora hyptidicola 94–95
Cercospora impatientis 147
Cercospora ipomoeae 156, 164, also see *Cercospora* cf. *ipomoeae*
Cercospora ipomoeae-pedis-caprae 164
Cercospora ipomoeae-purpureae 108
Cercospora ixeridis-chinensis 156
Cercospora jacquiniana 161
Cercospora jussiaeae 89
Cercospora kaki 90
Cercospora kakivora 90
Cercospora kellermanii 144
Cercospora kiggelariae 90
Cercospora kikuchii 147, 155–**156**, 160–161, 164
Cercospora krugeriana 159
Cercospora kusanoi 106, 108
Cercospora lactucae 156
Cercospora lactucae-indicae 156
Cercospora lactucae-sativae 152–153, **156**, 165
Cercospora lagerstroemiae 91
Cercospora lagerstroemiae-subcostatae 91
Cercospora lagerstroemiicola 91
Cercospora langloisii 96
Cercospora latens 91
Cercospora lepidii 146
Cercospora ligustrina 61
Cercospora longispora 156
Cercospora longissima 156
Cercospora lonicericola 91
Cercospora ludwigiae 89
Cercospora lycii 148
Cercospora lycopodis 95
Cercospora lyoniae 91
Cercospora lythracearum 91
Cercospora malloti 157, 160, also see *Cercospora* cf. *malloti*
Cercospora mercurialis 148, **157**, 159

- Cercospora mercurialis* var. *annuae* 157
Cercospora mercurialis var. *latvici* 157
Cercospora mercurialis var. *multisepta* 157
Cercospora modiolae 157, also see *Cercospora* cf. *modiolae*
Cercospora mori 106
Cercospora myrti 92
Cercospora myrticola 92
Cercospora nasturtii 146
Cercospora nasturtii subsp. *barbareae* 146
Cercospora nicandrae 148
Cercospora nicotianae 157, also see *Cercospora* cf. *nicotianae*
Cercospora nigri 78
Cercospora ocimicola 94
Cercospora oenotherae 95
Cercospora olivascens **158**
Cercospora pallida 96
Cercospora paraguayensis 96
Cercospora penicillata 67
Cercospora penicillata f. *chenopodii* 148
Cercospora persicae 68
Cercospora physalidis 148, 158, also see *Cercospora* cf. *physalidis*
Cercospora piaropi 155, 161
Cercospora pileae 159
Cercospora pileicola 153, 157, **158–159**
Cercospora pini-densiflorae 96
Cercospora polygonacea 144, 154, **159**
Cercospora polygonaeae 159
Cercospora polygoni-blumei 159
Cercospora polygoni-caespitosi 159
Cercospora praecincta 144
Cercospora profusa 97
Cercospora protearum var. *leucadendri* 91
Cercospora pruni-persicae 99
Cercospora pruni-yedoensis 98
Cercospora prunicola 98–99
Cercospora psophocarpicola 151
Cercospora punctiformis 154, **159**
Cercospora punctiformis f. *catalaunica* 159
Cercospora pyracanthae 100
Cercospora ramularia 144
Cercospora ranjita 101
Cercospora resedae 160, also see *Cercospora* cf. *resedae*
Cercospora rhoina 104
Cercospora rhoina var. *nigromaculans* 104
Cercospora richardiicola 156, 160, also see *Cercospora* cf. *richardiicola*
Cercospora ricinella 149, 152, **160**, 163
Cercospora ricini 160
Cercospora rigospora 78
Cercospora rodmanii 156, 160–**161**, 164, 167
Cercospora rumicis 145–146, **161**, 167
Cercospora saccardoana 92
Cercospora salina 207
Cercospora sciadophila 148
Cercospora scirpicola 198
Cercospora securinegae 106
Cercospora senecionicola 161
Cercospora senecionis 161
Cercospora senecionis-grahamii 161
Cercospora senecionis-walkeri 154, **161**
Cercospora sigesbeckiae 161, also see *Cercospora* cf. *sigesbeckiae*
Cercospora snelliana 106
Cercospora sojina **67**, 144, 147, 159, **162**
Cercospora solanacea 148
Cercospora solani 148
Cercospora solani-biflora 78
Cercospora sp. A **162**
Cercospora sp. B **162**
Cercospora sp. C 148, **162**
Cercospora sp. D 148, **162**
Cercospora sp. E 153, 157, **162**
Cercospora sp. F 158, **162–163**
Cercospora sp. G 158, **162–163**
Cercospora sp. H **162–163**
Cercospora sp. I 144, 148, 158, **162–163**
Cercospora sp. J 148, **163**
Cercospora sp. K 149, 152, **161–163**
Cercospora sp. L 144, 146, 161, **164**, 167
Cercospora sp. M 144, 156, **160–161**, **164**
Cercospora sp. N **160–161**, **164**
Cercospora sp. O 144, 156, **160–161**, **164**
Cercospora sp. P 144, 147, 156–157, **160–161**, **164–165**
Cercospora sp. Q 144, 147–148, 156, **160–162**, **164–165**
Cercospora sp. R 152, **165**
Cercospora sp. S 152, 157, **165**
Cercospora stanleyae 146
Cercospora stephanandrae 108
Cercospora stolziana 167
Cercospora terminaliae 79
Cercospora terminariae 79
Cercospora thlaspi 146
Cercospora “*thlaspiae*” 146
Cercospora timorensis 108
Cercospora tineae 108
Cercospora tosensis 78
Cercospora trinctatis 166
Cercospora udagawana 108
Cercospora vignicaulis 165–166
Cercospora vignigena 150, 154, **165**
Cercospora violae 146, 161, **166–167**
Cercospora violae var. *minor* 166
Cercospora violae-kiusianae 166
Cercospora violae-tricoloris 166
Cercospora “*viteae*” 108
Cercospora viticicola 108
Cercospora viticis 108
Cercospora viticis-quinatae 108
Cercospora weigelaee 110
Cercospora wildemanii 81
Cercospora xanthoxyli 110
Cercospora zaeae-maydis **166–167**
Cercospora zebrina 144–146, 148, 161, 164, **166–167**
Cercospora zeina **167**
Cercospora zelkowae 110
Cercospora zinniae see *Cercospora* cf. *zinniae*
Cercosporella 71, 343
Cercosporella chaenomelis 70–71
Cercosporidium campi-silii 147
Cercosporidium dubium 148
Cercosporidium sojinum 162
Cercosporina cydoniae 84
Cercosporina drabae 146

- Cercosporina kikuchii* 156
Cercosporina lythracearum 91
Cercosporina ramularia 144
Cercosporina ricinella 160
Cercosporina sojina 162
Cercosporina zebrina 167
Cercosporiopsis araliae 78
Cercosporiopsis profusa 97
Cercostigmia protearum var. *hakeae* 88
Cercostigmia protearum var. *leucadendri* 91
Cercostigmia tineae 108
Chaetodiplodia caulina 24
Chaetosphaeronema 366
Chaetosphaeronema hispidulum 366
Chalastospora 183, 188–189
Chalastospora cetera 189
Chalastospora ellipsoidea 189
Chalastospora gossypii 189
Chalastospora obclavata 189
Chiajaea hendersoniae 22
Chmelia 183, 194
Chmelia slovacae 196
Ciferriella **335**
Ciferriella domingensis 335
Cladosporiaceae **63**
Cladosporium **63**
Cladosporium gossypii 189
Cladosporium herbarum 63
Cladosporium malorum 189
Clasterosporium mori 106, 108
Clasterosporium scirpicola 198
Clathrospora scirpicola 198
Clathrospora typhicola 25
Clisosporium fuckelii 25
Clisosporium palmarum 24
Colletogloeum **335**
Colletogloeum dalbergiae 335
Colletogloeum sissoo 335
Coniella 353
Coniothyriaceae **23–24, 374**
Coniothyrium **374**
Coniothyrium carteri **23**
Coniothyrium dolichi **23**
Coniothyrium fuckelii 25
Coniothyrium fuckelii var. *sporulosum* 25
Coniothyrium glycines **23**
Coniothyrium minitans 26
Coniothyrium minutum 23
Coniothyrium multiporum **24**
Coniothyrium obiones 25
Coniothyrium "obionis" 25
Coniothyrium palmarum **24, 374**
Coniothyrium sidae **374**
Coniothyrium telephii **24**
Conoplea eryngii 199
Cornucopiella 359
Corynespora **381–382**
Corynespora cassiicola 382
Corynespora leucadendri **382**
Corynespora mazei 382
Crivellia 183, 189–190
Crivellia papaveracea 190
Cronartium flaccidum 385
Cryptosphaeria glaucopunctata 366
Cryptosporium aegopodii 238
Cucurbitaria hendersoniae 22
Cucurbitaria papaveracea 189–190
Cucurbitariaceae **24**
Cylindrodochium 335
Cylindroseptoria **358–360**
Cylindroseptoria ceratoniae **358–359**
Cylindroseptoria pistaciae **359–360**
Cylindrosporium 302, **335**
Cylindrosporium capsellae 70
Cylindrosporium castaneae 353
Cylindrosporium concentricum 336
Cylindrosporium heraclei 260
Cylindrosporium oculatum 345
Cylindrosporium platanoidis 294
Cylindrosporium pseudoplatani 294
Cylindrosporium rubi 300, 302, 343
Cylindrosporium ulmi 350
Cylindrosporium umbelliferarum 260
Cyphellophora **60**
Cyphellophora laciniata 60
Cystocoleus 63
Cytostagonospora **327, 354**
Cytostagonospora martiniana **354–355**
Cytostagonospora "photinicola" 354
Cytostagonospora photiniicola 327, 354
- D**
- Davidiella* 63
Davidiella populorum 345
Davisoniella 63
Dearnessia **327, 383**
Dearnessia apocyni **327**
Dendrophoma pleurospora 27
Dendryphiella "arenaria" 208
Dendryphiella arenariae 208
Dendryphiella salina 207
Dendryphion papaveris 190
Dendryphion penicillatum 190
Depazea cornicola 295
Depazea frondicola 296
Depazea nodorum 363
Depazea scabiosicola 284
Deuterophoma 21
Deuterophoma tracheiphila 22
Devriesia 63
Diaporthe 373
Didymella 336
Didymellaceae 379
Didymosphaeriaceae **31**
Diplodia 333
Diplodia hyalospora 24
Diplodina ellisii 24
Diplodina obiones 25
Diplodina "obionis" 25
Diploplenodomus 21
Dissoconiaceae **64, 358**
Dissoconium **64, 358**
Dissoconium aciculare 64

Dothidea hysteroioides 31
Dothistroma **337, 353**
Dothistroma pini 337
Dothistroma rhabdoclinis 348
Dothistroma septosporum 337
Dothistroma septosporum var. *keniense* 337

E

Elasticomyces 63
Elosia 183
Embellisia 183, 190–191, 193, 199
Embellisia abundans 189
Embellisia allii 190–191
Embellisia annulata 208
Embellisia chlamydospora 190
Embellisia conoidea 188
Embellisia dennisii 207
Embellisia didymospora 199
Embellisia eureka 193
Embellisia hyacinthi 193
Embellisia indefessa 189
Embellisia leptinellae 193
Embellisia lolii 193
Embellisia novae-zelandiae 193
Embellisia oxytropis 207
Embellisia phragmospora 199
Embellisia planifunda 193
Embellisia proteae 193
Embellisia “telluster” 191
Embellisia tellustris 190–191
Embellisia tumida 193
Exosporium eryngianum 199
Exosporium eryngii 199

F

Falciformispora lignatilis **28**
Friedmanniomyces 63
Fusariella cladosporioides 92
Fusicladium cynanchi 159

G

Gloeosporium betae 24

H

Helicomina 74
Helicomina caperonia 74
Helminthosporium allii 190–191
Helminthosporium bornmuelleri 207
Helminthosporium brassicicola 188
Helminthosporium cheiranthi 189
Helminthosporium eryngii 199
Helminthosporium papaveris 190
Helminthosporium septosporum 201
Helminthosporium smyrnii 202
Helminthosporium tenuissimum 188
“Helmisporium” cheiranthi 189
Hendersonia paludosa 378
Hendersonia subgen. *Stagonospora* 333

Heptameria circinans 28
Heptameria scrophulariae 196
Herpotrichia juniperi **29**
Heterospora **18**
Heterospora chenopodii **18**
Heterospora dimorphospora **18**
Horteia 63

J

Jahniella **327**
Jahniella bohémica 329

K

Kirstenboschia **385–386**
Kirstenboschia diospyri **385**

L

Lecanosticta **354**
Lentitheciaceae **28, 327**
Leptophoma 18
Leptophoma acuta 19
Leptophoma doliolum 19
Leptosphaerella oryzae 368
Leptosphaeria **18–20, 274, 362, 378**
Leptosphaeria agnita 20–21
Leptosphaeria avenaria 362
Leptosphaeria biglobosa 21
Leptosphaeria calvescens 24
Leptosphaeria chenopodii-albi 18
Leptosphaeria circinans 28
Leptosphaeria clavata 24
Leptosphaeria collinsoniae 21
Leptosphaeria conferta 21
Leptosphaeria congesta 21
Leptosphaeria conoidea **18–19**
Leptosphaeria doliolum 18, **19–20**
Leptosphaeria doliolum subsp. *conoidea* 19
Leptosphaeria doliolum subsp. *errabunda* 19
Leptosphaeria doliolum subsp. *pinguicula* 18
Leptosphaeria doliolum var. *conoidea* 18
Leptosphaeria doliolum var. *doliolum* 20
Leptosphaeria dryadis 20
Leptosphaeria dryadophila 20
Leptosphaeria errabunda **19**
Leptosphaeria etheridgei **19**
Leptosphaeria fallaciosa 22
Leptosphaeria filamentosa 24
Leptosphaeria hendersoniae 22
Leptosphaeria libanotidis 22
Leptosphaeria “libanotis” 22
Leptosphaeria lindquistii 22
Leptosphaeria macrocapsa **19**
Leptosphaeria macrospora 20
Leptosphaeria maculans 20–22
Leptosphaeria nitschkei 20
Leptosphaeria nodorum 363
Leptosphaeria pedicularis **19**
Leptosphaeria pimpinellae 22
Leptosphaeria praetermissa 21

Leptosphaeria rostrata 20
Leptosphaeria rubefaciens 19
Leptosphaeria rusci 366
Leptosphaeria sclerotioides 19
Leptosphaeria scrophulariae 196
Leptosphaeria sect. *Eu-Leptosphaeria* 20
Leptosphaeria sect. *Paraleptosphaeria* 20
Leptosphaeria senecionis 20
Leptosphaeria slovacica 19
Leptosphaeria sydowii 20
Leptosphaeria veronicae 20
Leptosphaeriaceae 18
Leptosphaerulina oryzae 368
Lewia 183, 194
Lewia alternarina 195
Lewia avenicola 198–199
Lewia daucicaulis 196
Lewia ethzedia 196
Lewia eureka 193
Lewia hordeiaustralica 196
Lewia hordeicola 196
Lewia infectoria 196
Lewia intercepta 196
Lewia photistica 198–199
Lewia scrophulariae 196
Lewia viburni 196

M

Macrodiplodia 333
Macrospora scirpicola 198
Macrospora scirpifestans 198
Macrospora scirpivora 198
Macrospora typhicola 25
Macrosporium 183
Macrosporium anatolicum 200
Macrosporium araliae 199
Macrosporium bataticola 200
Macrosporium brassicae 207
Macrosporium calendulae 200
Macrosporium cheiranthi 189
Macrosporium cichorii 200
Macrosporium consortiale 204
Macrosporium cucumerinum 200
Macrosporium euphorbiae 201
Macrosporium longipes 187
Macrosporium macrosporum 201
Macrosporium nashi 187
Macrosporium nobile 193
Macrosporium porri 201
Macrosporium ricini 201
Macrosporium saponariae 193
Macrosporium septosporum 201
Macrosporium sesami 201
Macrosporium smyrnii 202
Macrosporium solani 201
Macrosporium tenuissimum 188
Macrosporium vaccariae 194
Massaria eburnea 28
Massarina eburnea 28
Massarinaceae 28
Massariosphaeria clavata 24

Medicopsis 28
Medicopsis romeroi 28
Megaloseptoria 329, 332
Megaloseptoria mirabilis 329
Melanomma dryadis 20
Melanomma hendersoniae 22
Melanomma pulvis-pyrius 30
Melanomma vindelicorum 28
Melanommataceae 28
Melogramma rubronotatum 31
Metasphaeria macrospora 20
Microcyclospora 63–64
Microcyclospora pomicola 64
Microcyclospora quercina 64
Microcyclosporella 65
Microcyclosporella mali 65
Microdiplodia henningsii 24
Microdiplodia palmarum 24
Microsphaeropsis fuckelii 25
Miuraea 67–68
Miuraea degenerans 68
Miuraea persicae 68
Montagnulaceae 25
Muyocopron 375
Muyocopronaceae 375
Mycocentrospora 61
Mycocentrospora acerina 61
Mycocentrospora cantuariensis 61
Mycopappus 61
Mycopappus aceris 61
Mycosphaerella 274–275, 277, 336, 339
“Mycosphaerella” acaciigena 74
Mycosphaerella aconitorum 275
Mycosphaerella aegopodii 238–239
Mycosphaerella antonovii 275
Mycosphaerella arbuticola 357–358
Mycosphaerella berberidis 345
“Mycosphaerella” capsellae 70
Mycosphaerella chaenomelis 70–71
Mycosphaerella coacervata 252
Mycosphaerella contraria 81
“Mycosphaerella” crystallina 74
“Mycosphaerella” gibsonii 96
Mycosphaerella heimii 74
“Mycosphaerella” heimioides 74
“Mycosphaerella” holualoana 74
Mycosphaerella hyperici 299
Mycosphaerella hypericina 299
“Mycosphaerella” irregulariramosa 74
Mycosphaerella isariphora 290–291
“Mycosphaerella” konae 74
Mycosphaerella latebrosa 295, 299
Mycosphaerella podagrariae 238–239
Mycosphaerella populi 296
Mycosphaerella populicola 296, 346
Mycosphaerella populorum 296, 345
“Mycosphaerella” pruni-persicae 68
Mycosphaerella punctiformis 299, 339, 354
Mycosphaerella rubi 300
Mycosphaerella stigmata-platani 99–100
Mycosphaerella ulmi 350
Mycosphaerellaceae 61, 65, 327, 334–335

N

Neofabraea alba 384
Neophaeosphaeria filamentosa 24
Neoseptoria 352, 356
Neoseptoria caricis 352–353
Neosetophoma 370
Neosetophoma samarorum 370
Neostagonospora 364
Neostagonospora caricis 364–365
Neostagonospora elegiae 365
Neottiosporina paspali 28
Nigrograna 31
Nigrograna mackinnonii 31
Nimbya 183, 185, 197
Nimbya alternantherae 185
Nimbya caricis 197
Nimbya celosiae 185
Nimbya gomphrenae 185
Nimbya perpunctulata 185
Nimbya scirpicola 197–198
Nimbya scirpinfestans 197–198
Nimbya scirpivora 197–198

P

Pallidocercospora 73–74
Pallidocercospora acaciigena 74
Pallidocercospora crystallina 74
Pallidocercospora heimii 74
Pallidocercospora heimioides 74
Pallidocercospora holualoana 74
Pallidocercospora irregulariramosa 74
Pallidocercospora kona 74
Pantospora 74
Pantospora guazumae 74
Papulaspora pulmonaria 29
Paracercospora 65, 67
Paracercospora egenula 65
Paraconiothyrium 25–26, 374
Paraconiothyrium estuarinum 25
Paraconiothyrium flavescens 25
Paraconiothyrium fuckelii 25
Paraconiothyrium fusco-maculans 25
Paraconiothyrium lini 26
Paraconiothyrium maculiculis 26
Paraconiothyrium minitans 26
Paraconiothyrium sporulosum 25
Paraconiothyrium tiliae 26
Paradendryphiella 183, 207
Paradendryphiella arenariae 208
Paradendryphiella salina 207
Paraleptosphaeria 20
Paraleptosphaeria dryadis 20
Paraleptosphaeria macrospora 20
Paraleptosphaeria nitschkei 20
Paraleptosphaeria orobanches 20
Paraleptosphaeria praetermissa 21
Paraphaeosphaeria 374
Paraphaeosphaeria filamentosa 24
Paraphaeosphaeria glaucopunctata 366

Paraphaeosphaeria michotii 28
Paraphaeosphaeria rusci 366
Paraphoma 27, 370
Paraphoma dioscoreae 370–371
Paraphoma radicina 370
Parastagonospora 362
Parastagonospora avenae 362
Parastagonospora avenae f.sp. *avenaria* 362
Parastagonospora avenae f.sp. *tritici* 362
Parastagonospora caricis 362
Parastagonospora nodorum 362, 363–364
Parastagonospora poae 363–364
Passalora 67, 79, 82, 99, 144, 147, 149, 161–162, 352
Passalora bacilligera 352
Passalora brachycarpa 65
Passalora campi-silii 147
Passalora circumscissa 99
Passalora dioscoreae 352
Passalora dubia 148–149
Passalora eucalypti 76
Passalora hamamelidis 82
Passalora leptophlebiae 76
Passalora protearum 91
Passalora senecionicola 161
Passalora sojina 67, 162
Passeriniella circinans 28
Penidiella 63
Perisporium funiculatum 30
Phaeomycoentrospora 61
Phaeomycoentrospora cantuariensis 61
Phaeophleospora 354
Phaeoramularia angolensis 77
Phaeoseptoria 332, 367–368
Phaeoseptoria oryzae 368, 370
Phaeoseptoria papayae 332, 367–369
Phaeosphaeria 362, 367–368
Phaeosphaeria avenaria 362
Phaeosphaeria nodorum 363
Phaeosphaeria oryzae 367–368, 370
Phaeosphaeria papayae 368
Phaeosphaeria silvatica 375
Phaeosphaeriopsis 365–366
Phaeosphaeriopsis glaucopunctata 366
Phaeothecoidea 63
Phialophora chrysanthemi 21
Phleospora bresadolae 252
Phleospora castanicola 353
Phleospora hyperici 298
Phleospora petroselini 277
Phleospora platanoidis 295
Phleospora quercicola 347
Phloeospora 67, 70, 336, 350, 352
Phloeospora aceris 294
Phloeospora aegopodii 238
Phloeospora azaleae 345
Phloeospora heraclei 260
Phloeospora melissae 272
Phloeospora oxyacanthae 345
Phloeospora pseudoplatani 294
Phloeospora samarigena 295
Phloeospora ulmi 70, 336, 350
Phloeospora villosa 298

- Phloeospora* **336**
Phloeospora ceanothi 336
Phloeospora padi 336
Phlogicylindrium **386**
Phlogicylindrium eucalypti 386
Phlogicylindrium eucalyptorum **386**
Phlyctaeniella **337**
Phlyctaeniella polonica 337
Phlyctema **384–385**
Phlyctema vagabunda 384
Phlyctema vincetoxici **384–385**
Phoma 23, 27, **375**, 378
Phoma acuta 19
Phoma acuta subsp. *acuta* f.sp. “*phlogis*” 19
Phoma acuta subsp. *amplior* 18–19
Phoma acuta subsp. *errabunda* 19
Phoma agnita 21
Phoma apiicola 23
Phoma betae 24
Phoma “capitula” 30
Phoma capitulum 30
Phoma carteri 23
Phoma cava 23
Phoma chenopodii 18
Phoma chenopodiicola 18
Phoma conferta 21
Phoma congesta 21
Phoma dimorphospora 18
Phoma doliolum 18–19
Phoma drobnjacensis 23
Phoma enteroleuca 21
Phoma enteroleuca var. *enteroleuca* 21
Phoma enteroleuca var. *inflouescens* 22
Phoma errabunda 19
Phoma etheridgei 19
Phoma exigua var. *exigua* 18
Phoma fallens 25
Phoma flavescens 25
Phoma flavigena 25
Phoma fusco-maculans 25
Phoma glaucispora 25
Phoma glycines 23
Phoma glycinicola 23
Phoma herbicola 19
Phoma heteromorphospora 18
Phoma hoehnelii 19
Phoma hoehnelii subsp. *amplior* 18
Phoma hoehnelii var. *hoehnelii* 19
Phoma hoehnelii var. *urticae* 19
Phoma incompta 25
Phoma intricans 22
Phoma korfii 20–21
Phoma leonuri 19
Phoma lingam 22
Phoma lini 26
Phoma lupini 22
Phoma macdonaldii 22
Phoma macrocapsa 19
Phoma minuta 23
Phoma minutispora 31
Phoma multipora 24
Phoma oryzae 31
Phoma ostiolata 30
Phoma ostiolata var. *brunnea* 30
Phoma ostiolata var. *ostiolata* 30
Phoma “pedicularidis” 19
Phoma pedicularis 19
Phoma phlogis 19
Phoma pimpinellae 21–22
Phoma pratorum 24
Phoma rostrata 20
Phoma rostrupii 22
Phoma rubefaciens 19
Phoma sanguinolenta 22
Phoma sclerotioides 19
Phoma sect. *Heterospora* 18
Phoma sect. *Plenodomus* 21
Phoma senecionis 20
Phoma septicialis 24
Phoma sydowii 20
Phoma telephii 24
Phoma tracheiphila 22
Phoma tracheiphila f.sp. *chrysanthemi* 21
Phoma typharum 25
Phoma typhina 25
Phoma valerianae 23
Phoma variospora 18
Phoma vasinfecta 21
Phoma veronicae 20
Phoma veronicicola 20
Phoma violae-tricoloris 23
Phoma violicola 23
Phoma wasbiae 21, 23
Phoma westendorpii 18
Phomopsis 262
Phyllosticta betae 24
Phyllosticta chenopodii 18
Phyllosticta dimorphospora 18
Phyllosticta glaucispora 25
Phyllosticta oleandri 25
Phyllosticta oryzae 31
Phyllosticta tabifica 24
Phyllosticta typhina 25
Phyllosticta valerianae-tripteris f. *minor* 23
Phyllosticta violae f. *violae-hirtae* 23
Phyllosticta violae f. *violae-sylvaticae* 23
Piliidiella 353
Plectophomella 21, 23
Plectophomella visci 22–23
Plenodomus 20–**21**, 23
Plenodomus acutus 19
Plenodomus agnitus **21**
Plenodomus biglobosus **21**
Plenodomus chenopodii 18
Plenodomus chondrillae 21
Plenodomus chrysanthemi **21**
Plenodomus collinsoniae **21**
Plenodomus confertus **21**
Plenodomus congestus **21**
Plenodomus doliolum 19
Plenodomus enteroleucus **21**
Plenodomus fallaciosus **22**
Plenodomus fusco-maculans 25
Plenodomus gentianae 19

- Plenodomus hendersoniae* **22**
Plenodomus influorescens **22**
Plenodomus leonuri 19
Plenodomus libanotidis **22**
Plenodomus lindquistii **22**
Plenodomus lingam 21, **22**
Plenodomus lupini **22**
Plenodomus macrocapsa 19
Plenodomus meliloti 19
Plenodomus microsporus 18
Plenodomus pimpinellae **22**
Plenodomus rabenhorstii 21–22
Plenodomus rostratus 20
Plenodomus sclerotioides 19
Plenodomus senecionis 20
Plenodomus tracheiphilus **22**
Plenodomus visci **22**
Plenodomus wasabiae **23**
Pleomassaria siparia **30**
Pleopora obiones 25
Pleospora 190
Pleospora angustis **24**
Pleospora avenae 362
Pleospora betae **24**
Pleospora bjoerlingii 24
Pleospora calvescens **24**
Pleospora chenopodii **24**
Pleospora clavata 24
Pleospora "clavatis" 24
Pleospora fallens **25**
Pleospora flavigena **25**
Pleospora halimiones **25**
Pleospora herbarum **25**
Pleospora hyalospora 24
Pleospora incompta **25**
Pleospora infectoria 196
Pleospora libanotidis 22
Pleospora "libanotis" 22
Pleospora macrospora 20
Pleospora oryzae 368
Pleospora papaveracea 190
Pleospora phaeocomoides var. *infectoria* 196
Pleospora scrophulariae 196
Pleospora tritici 362
Pleospora typhicola **25**
Pleosporaceae **24, 274**
Pleuroceras 337
Pleurophoma 27
Pleurophoma pleurospora 26–27
Polyphialoseptoria **355–356**
Polyphialoseptoria tabebuiae-serratifoliae **356**
Polyphialoseptoria terminaliae **355–356**
Preussia funiculata **30**
Pseudocercospora 61, 65, 67–68, 74, **76**, 79, 94–97, 99–100, 102, 104, 110, 335, **353**
Pseudocercospora abelmoschi **76**
Pseudocercospora acaciigena 74
Pseudocercospora adinicola 74
Pseudocercospora ampelopsis **76–77**
Pseudocercospora angolensis **77**
Pseudocercospora anisomelicola 97
Pseudocercospora araliae **78**
Pseudocercospora atromarginalis **78, 80**
Pseudocercospora balsaminae **79**
Pseudocercospora basiramifera 65
Pseudocercospora brachypus 76
Pseudocercospora callicarpae **79**
Pseudocercospora cantuariensis 61
Pseudocercospora caperoniae 74
Pseudocercospora catalpigena **79**
Pseudocercospora catappae **79**
Pseudocercospora cercidicola **79–80**
Pseudocercospora cercidis-chinensis **79–80**
Pseudocercospora chengtuensis **78, 80**
Pseudocercospora chionanthi-retusi **80–81**
Pseudocercospora chionanthicola 81
Pseudocercospora chrysanthemicola **81**
Pseudocercospora circumscissa 99
Pseudocercospora colebrookiae 97
Pseudocercospora colebrookiiicola 97
Pseudocercospora colombiensis 76
Pseudocercospora contraria **81**
Pseudocercospora coriariae **82**
Pseudocercospora cornicola **82**
Pseudocercospora corylopsidis **82**
Pseudocercospora costina 74
Pseudocercospora cotoneastri **82**
Pseudocercospora crispans **82–83**
Pseudocercospora crocea **83–84**
Pseudocercospora crystallina 74
Pseudocercospora cydoniae 71, **84**
Pseudocercospora domingensis **335**
Pseudocercospora dovyalidis **84**
Pseudocercospora eucalyptorum **86**
Pseudocercospora eucommiae 68
Pseudocercospora exosporioides **86**
Pseudocercospora fagaricola 110
Pseudocercospora fijiensis 65
Pseudocercospora flavomarginata **86–87**
Pseudocercospora fraxinites 92
Pseudocercospora fukuokaensis **87**
Pseudocercospora fuligena **87**
Pseudocercospora glauca **87**
Pseudocercospora guianensis **87**
Pseudocercospora haiweiensis **87**
Pseudocercospora hakeae **88**
Pseudocercospora handelii 104
Pseudocercospora heimii 74
Pseudocercospora heimioides 74
Pseudocercospora humuli **89**
Pseudocercospora humuli-japonici 89
Pseudocercospora humulicola **89**
Pseudocercospora ipomoea-purpureae 108
Pseudocercospora irregulariramosa 74
Pseudocercospora jussiaeae **89**
Pseudocercospora kaki **90**
Pseudocercospora kiggelariae **90**
Pseudocercospora lagerstroemiae-subcostatae 91
Pseudocercospora lamiacearum 97
Pseudocercospora latens **91**
Pseudocercospora leucadendri **91**
Pseudocercospora leucadis 97
Pseudocercospora lonicericola **91**
Pseudocercospora lycopodis 97

Pseudocercospora lyoniae 91
Pseudocercospora lythracearum 91
Pseudocercospora lythri 92
Pseudocercospora marginalis 92
Pseudocercospora melicyti 92
Pseudocercospora mori 108
Pseudocercospora myrticola 92
Pseudocercospora ocimi-basilici 92, 94
Pseudocercospora ocimicola 94–95, 97
Pseudocercospora oenotherae 95
Pseudocercospora oxalidis 72
Pseudocercospora paederiae 95–96
Pseudocercospora pallida 96
Pseudocercospora paraguayensis 96
Pseudocercospora perillulae 97
Pseudocercospora pileae 84
Pseudocercospora pini-densiflorae 96
Pseudocercospora plectranthi 96–97
Pseudocercospora pogostemonis 97
Pseudocercospora profusa 97, 159
Pseudocercospora proteae 98
Pseudocercospora protearum 98
Pseudocercospora protearum var. *hakeae* 88
Pseudocercospora protearum var. *leucadendri* 91
Pseudocercospora protearum var. *protearum* 91
Pseudocercospora pruni-yedoensis 99
Pseudocercospora prunicola 98–99
Pseudocercospora pseudoeucalyptorum 86
Pseudocercospora pseudostigmia-platani 74, 99–100
Pseudocercospora pyracanthae 100–101
Pseudocercospora pyracanthigena 100–101
Pseudocercospora ranjita 101
Pseudocercospora ravenalica 102
Pseudocercospora rhabdothamni 103
Pseudocercospora rhamnaceicola 104
Pseudocercospora rhamnellae 103–104
Pseudocercospora rhododendri-indici 104
Pseudocercospora rhododendricola 104
Pseudocercospora rhoina 104
Pseudocercospora riachuelli var. *horiana* 76–77
Pseudocercospora salvia 97
Pseudocercospora sambucigena 105
Pseudocercospora scutellariae 97
Pseudocercospora securinegae 106
Pseudocercospora snelliana 106, 108
Pseudocercospora stephanandrae 108
Pseudocercospora stromatosa 98
Pseudocercospora thailandica 76
Pseudocercospora tibouchina 67
Pseudocercospora tibouchinigena 67
Pseudocercospora timorensis 108
Pseudocercospora udagawana 108
Pseudocercospora viburnigena 108
Pseudocercospora viticicola 108
Pseudocercospora viticigena 108
Pseudocercospora viticis 108
Pseudocercospora viticis-quinatae 108
Pseudocercospora vitis 76
Pseudocercospora weigela 110
Pseudocercospora xanthocercidis 110
Pseudocercospora xanthoxyli 110
Pseudocercospora zelkova 110

Pseudocercosporella 65, 67–68, 70–72, 165
Pseudocercosporella arcuata 70
Pseudocercosporella capsellae 70
Pseudocercosporella chaenomelis 70–71
Pseudocercosporella crataegi 71
Pseudocercosporella dovyalidis 84
Pseudocercosporella gei 71
Pseudocercosporella ipomoeae 70
Pseudocercosporella koreana 71
Pseudocercosporella myopori 165
Pseudocercosporella oxalidis 72
Pseudocercosporella potentillae 71
Pseudocercosporella tephrosiae 72
Pseudocercosporella viticis 108
Pseudophaeoramularia angolensis 77
Pseudoseptoria 332, 360–362
Pseudoseptoria bromigena 362
Pseudoseptoria collariana 360, 362
Pseudoseptoria collarata 362
Pseudoseptoria donacicola 332, 360
Pseudoseptoria donacis 360–362
Pseudoseptoria obscura 361–362
Pseudoseptoria stromaticola 362
Pseudostemphylium chlamydosporum 190
Pseudostemphylium consortiale 204
Pseudostemphylium radicinum 202
Pseudotaeniolina 63
Pyrenochaeta 27
Pyrenochaeta cava 23
Pyrenochaeta dolichi 23
Pyrenochaeta gentianae 23
Pyrenochaeta glycines 23
Pyrenochaeta mackinnonii 31
Pyrenochaeta minuta 23
Pyrenochaeta romeroi 28
Pyrenochaeta telephii 24
Pyrenochaetopsis 27
Pyrenochaetopsis pratorum 24
Pyrenopeziza brassicae 336
Pyrenophora alternarina 195
Pyrenophora calvescens 24
Pyrenophora echinella var. *betae* 24
Pyrenophora scirpicola 198
Pyrenophora typhicola 25

R

Racodium 63
Ramularia 334, 339, 353–354
Ramularia batatae 108
Ramularia catappae 79
Ramularia dubia 148
Ramularia endophylla 299
Ramularia pusilla 339
Readeriella 63, 358
Recurvomyces 63
Rhabdospora 262, 332
Rhabdospora aloetica 373
Rhabdospora alsines 238
Rhabdospora aparines 252
Rhabdospora apiicola 242
Rhabdospora hypochoeridis 262

Rhabdospora leucanthemi 266
Rhabdospora napelli 272, 274
Rhabdospora oleandri 332
Rhabdospora rubi var. *rubi-idaei* 300
Rhabdospora schnablana 258
Rhopalidium 183
Rousoella hysteroioides 31
Ruptoseptoria 356, 358
Ruptoseptoria unedonis 357

S

Satchmopsis 359
Sclerostagonospora 332, 366–367
Sclerostagonospora caricicola 367
Sclerostagonospora heraclei 332, 366–367
Sclerostagonospora phragmiticola 366
Sclerotium orobanches 20–21
Scolecobasidium arenarium 208
Scolecobasidium salinum 207
Scolecostigmia 73–74
Scolecostigmia mangiferae 74
Seifertia 61
Septaria 332
“*Septaria*” *ulmi* 350
Septocyta 337–338
Septocyta ramealis 338
Septocyta ruborum 338
Septogloeum 336–337
Septogloeum carthusianum 337
Septogloeum ulmi 350
Septopatella 338
Septopatella septata 338
Septoria 67, 70, 72, 236, 238, 241–242, 245–246, 250–253, 256, 260, 262–263, 266, 270, 272, 274–275, 277, 279, 281, 284–287, 293–295, 298–299, 301–302, 327, 332, 334, 336, 338–339, 340–343, 351–352, 355–356, 358, 362, 371–373, 377–378, 381, 383–384, 386
Septoria abeliceae 343
Septoria aceris 294–295, 299
Septoria acetosae 284
Septoria aegopodii 238–239, 241
Septoria aegopodina 239, 241, 246, 287
Septoria aegopodina var. *trillii* 239, 241
Septoria aegopodina var. *villosa* 239, 241
Septoria agrimoniicola 340, also see *Septoria* cf. *agrimoniicola*
Septoria alpicola 258
Septoria alsines 238
Septoria anaxaea 284
Septoria anthrisci 241–242, 278
Septoria anthurii 248, 277, 288
Septoria aparines 252
Septoria apatela 295
Septoria apii 242
Septoria apii-graveolentis 242
Septoria apiicola 242, 255, 278, 287
Septoria arcautei 246
Septoria artemisiae 275
Septoria arundinacea 383
Septoria asperulae 252
Septoria astericola 266
Septoria astragali 243, 245

Septoria astragali var. *brencklei* 243, 245
Septoria astragali var. “*brinklei*” 243
Septoria avenae 362
Septoria azaleae 345
Septoria berberidis 345
Septoria betulae 345
Septoria bosniaca 258–259
Septoria campanulae 241, 245–246
Septoria caricicola 353
Septoria caricis 365, 381
Septoria castaneae 353–354
Septoria castaneicola 353–354
Septoria cerastii 246–247
Septoria cercidis 345
Septoria cf. *agrimoniicola* 340
Septoria cf. *stachydicola* 290, 340
Septoria chamomillae 271–272
Septoria chanousii 258
Septoria chromolaenae 248, 277
Septoria chrysanthemella 248, 293, 299
Septoria chrysanthemi 248
Septoria cirsii 266
Septoria citri 282, 302, also see *Septoria protearum*
Septoria citricola 302
Septoria clematidis 248, 250
Septoria convolvuli 250–251
Septoria coprosmae 251–252
Septoria cornicola 295
Septoria cornicola var. *ampla* 295
Septoria cornina 296
Septoria cotylea 260
Septoria crepidis 263
Septoria cretae 340–341
Septoria cruciatae 252–253
Septoria cucubali 253, 255
Septoria cucurbitacearum 255
Septoria cucutana 356
Septoria curva 383
Septoria cytisi 72, 238, 333–334, 340
Septoria dianthi 238
Septoria digitalis 255–256, 258
Septoria dimera 236, 255
Septoria divaricatae 279
Septoria dominii 236
Septoria drummondi 279
Septoria ekmanniana 248, 277
Septoria epambrosiae 279
Septoria epicotylea 294
Septoria epilobii 256, 258
Septoria epilobii var. *durieui* 256, 258
Septoria erigeronata 258
Septoria erigerontea 258
Septoria erigerontis 258
Septoria galeopsidis 256, 258, 260, 265–266, 272, 277
Septoria galii-borealis 252
Septoria gei 296
Septoria gei f. *immarginata* 298
Septoria gentianae 241
Septoria gilletiana 353
Septoria gladioli 351–352
Septoria glycines 342
Septoria glycinicola 341–342

- Septoria graminum* 383
Septoria helianthi 275
Septoria heraclei **260**, 262
Septoria heraclei-palmati 260, 262
Septoria heracleicola 262
Septoria heterochroa f. *lamii* 263
Septoria hippocastani 302
Septoria hyperici 298–299
Septoria hypericorum 298
Septoria hypochoeridis **262**–263
Septoria incondita var. *quercicola* 347
Septoria jackmanii 250
Septoria juliae 341
Septoria lactucae **263**
Septoria lagenophorae 262, 293
Septoria lamii 263
Septoria lamiicola 260, **263**, 265–266, 272
Septoria leucanthemi **266**, 275
Septoria limonum 302
Septoria lychnidis 234–235, 349–350
Septoria lychnidis var. *pusilla* 235
Septoria lycoctoni **266**, 269, 275
Septoria lycoctoni var. *anthorae* 269
Septoria lycoctoni var. *macrospora* 269
Septoria lycoctoni var. *sibirica* 269
Septoria lycopersici 255
Septoria lysimachiae **269**–271
Septoria malagutii 255
Septoria martiniana 354
Septoria matricariae 266, **271**–272
Septoria mazi 241, 287
Septoria melissae 260, **272**
Septoria menispermi 299, 345
Septoria musiva 296, 345
Septoria napelli 269, **272**, 274–275, 342–343
Septoria neriicola 341
Septoria nodorum 363
Septoria obesa 266, **275**
Septoria obscura 246
Septoria oenanthicola 241, **342**
Septoria oenanthis 241, 246, 342
Septoria oleandriicola 341
Septoria oleandrina 341
Septoria oxyacanthae 345–346
Septoria paridis **275**, 277
Septoria passiflorae 248, 277
Septoria passifloricola 248, **277**
Septoria patriniae 346
Septoria petroselini 242, **277**–278
Septoria petroselini var. *apii* 242
Septoria “*phlocis*” 278
Septoria phlogina 279
Septoria phlogis **278**–279
Septoria phragmitis 383
Septoria phyllodiorum 354
Septoria pimpinellae 239
Septoria pini-thunbergii 383
Septoria pistaciae 360
Septoria podagrariae 238
Septoria podagrariae var. *pimpinellae-magnae* 238–239
Septoria polygonorum **279**, 281
Septoria populi 296
Septoria populicola 296, 346
Septoria protearum **281**–282, 302
Septoria provencialis 345
Septoria pseudonapelli 275, **342**
Septoria pseudoplatani 294
Septoria pusilla 235
Septoria putrida 266, **282**–284, 286
Septoria quercicola 347, 353
Septoria quercicola f. *macrospora* 347
Septoria quercina 347
Septoria relictata 252
Septoria roll-hansenii 341
Septoria rosae 299, 302, 343
Septoria rubi 300–301
Septoria rumicis 284
Septoria rumicum **284**, 377
Septoria saccardoii 271, 371–372
Septoria saponariae 255
Septoria scabiosicola 277, **284**–285
Septoria schnabliana 258
Septoria sect. *Rhabdospora* 332
Septoria seminalis var. *platanoidis* 295
Septoria senecionis 266, 284, **285**–286
Septoria septulata 251
Septoria sii 241, 246, **286**–287
Septoria silenes 235–236
Septoria silenicola 236
Septoria sisyrinchii 248, 277, **287**–288
Septoria socia 299
Septoria sonchi 263
Septoria spargulae 236, 238
Septoria spargulariae 238
Septoria spargularina 238
Septoria stachydicola 290, 340, also see *Septoria* cf. *stachydicola*
Septoria stachydis 256, 258, 260, **288**, 290
Septoria stellariae 247, 272, **290**–291
Septoria stellariae var. *macrospora* 291
Septoria stenactidis 258
Septoria tabebuiae 356
Septoria tabebuiae-impetiginosae 356
Septoria tabebuiae-serratifoliae 356
Septoria taraxaci 258, 263
Septoria trachelii 246
Septoria ulmi 350
Septoria umbrosa 277
“*Septoria*” *unedonis* 357–358
Septoria urens 252
Septoria urticae **291**, 293
Septoria vandasii 238
Septoria verbascicola 256, 258
Septoria verbenae 252, **293**
Septoria viceae 349
Septoria vincetoxici 385
Septoria violae-palustris 277
Septoria virguareae 346–347
Septoria westendorpii 18
Septoria williamsiae 250
Septorioides **383**–384
Septorioides pini-thunbergii **383**–384
Setophoma **373**
Setophoma chromolaenae **373**–374

- Setophoma sacchari* 374
Setophoma terrestris 373–374
Setoseptoria **382–383**
Setoseptoria phragmites 382–**383**
Sinomyces 183, 206
Sinomyces alternariae 206
Sirosporium mori 106
Sonderhenia **72–73**
Sonderhenia eucalypticola 73
Sonderhenia eucalyptorum 73
Sphaerella arbuticola 357
Sphaerella berberidis 345
Sphaerella latebrosa 294
Sphaerella populi 296
Sphaerella ulmi 350
Sphaeria acuta 19
Sphaeria agnita 21
Sphaeria berberis 345
Sphaeria calvescens 24
Sphaeria doliolum 19
Sphaeria frondicola 296
Sphaeria herbarum 25
Sphaeria infectoria 196
Sphaeria isariphora 290
Sphaeria juniperi 29
Sphaeria lingam 22
Sphaeria maculans 22
Sphaeria michotii 27
Sphaeria pertusa 28
Sphaeria platani 28
Sphaeria podagrariae 238
Sphaeria praetermissa 21
Sphaeria pulvis-pyrius 30
Sphaeria rusci 366
Sphaeria scirpicola 198
Sphaeria scrophulariae 196
Sphaeria siparia 30
Sphaeria typhicola 25
Sphaeronaema gentianae 19
Sphaeronaema senecionis 20
Sphaeronaema veronicae 20
“*Sphaeronema*” *gentianae* 19
Sphaerulina 271, **294**, 296, 299, 301, 336, **339, 343**
Sphaerulina abeliceae **343**
Sphaerulina aceris **294**, 299
Sphaerulina amelanchier **343**, 348
Sphaerulina azaleae **345**
Sphaerulina berberidis **345**
Sphaerulina betulae **345**
Sphaerulina cercidis 298–299, **345**
Sphaerulina cornicola **295–296**
Sphaerulina frondicola **296**
Sphaerulina gei **296**, 298–299
Sphaerulina gei f. *immarginata* 298
Sphaerulina hyperici **298**
Sphaerulina menispermi **345**
Sphaerulina musiva 296, **345**
Sphaerulina myriadea 294, 296, 339, 343
Sphaerulina oxyacanthae **345**
Sphaerulina patriniae 298, **346**
Sphaerulina populicola 296, 299, **346**
Sphaerulina pseudovirgaureae **346–347**
Sphaerulina quercicola **347**
Sphaerulina rehmana 299, 302, 343
Sphaerulina rhabdoclinis 344, **348**
Sphaerulina rubi 300, 302, 343
Sphaerulina socia **299**
Sphaerulina tirolensis **299–300**
Sphaerulina viciae **348–349**
Sphaerulina westendorpii **300**, 302
Spilosphaeria polygonorum 279
Splanchnonema platani **28**
Sporidesmium alternariae 206
Sporidesmium exitiosum var. *dauci* 201
Sporidesmium longipedicellatum 201
Sporidesmium polymorphum var. *chartarum* 201
Sporidesmium scirpicola 198
Sporidesmium scorzonerae 201
Sporidesmium septorioides 188
Sporormia minima 30
Sporormiaceae **30**
Sporormiella minima **30**
Stagonospora 274, 298, 332–**333**, 362, 364, **377–379**, 381
Stagonospora “*avena*” 362
Stagonospora avenae 362, 378
Stagonospora biseptata 377
Stagonospora caricis 379–380
Stagonospora chenopodii 18
Stagonospora duoseptata **377**
Stagonospora gigaspora 362
Stagonospora nodorum 363, 378
Stagonospora paludosa 333, **377–378**
Stagonospora paspali 28
Stagonospora perfecta **378–379**
Stagonospora pseudocaricis **379–380**
Stagonospora pseudovitensis 379–**380**
Stagonospora uniseptata **380–381**
Stagonospora vitensis 379–380
Staninwardia 63
Stemphylium alternariae 206
Stemphylium atrum 204
Stemphylium botryosum var. *botrytis* 206
Stemphylium botryosum var. *ulocladium* 206
Stemphylium consortiale 204
Stemphylium herbarum 25
Stemphylium ilicis 204
Stemphylium petroselinii 202
Stemphylium radicinum 202
Stemphylium radicinum var. *petroselinii* 202
Stenella 63
Stenocarpella **333**
Stenocarpella macrospora 333
Stenocarpella zaeae 333
Stictosepta **338**
Stictosepta cupularis 339
Stigmia 61, 100
Stigmia protearum var. *leucadendri* 91
Strelitziana **60**
Strelitziana africana 60
Strelitziana australiensis 60
Strelitziana eucalypti 60
Strelitziana mali 60
Stromatoseptoria **353**
Stromatoseptoria castaneicola **353**

Subplenodomus **23**
Subplenodomus apiicola **23**
Subplenodomus drobnjacensis **23**
Subplenodomus valerianae **23**
Subplenodomus violicola **23**

T

Teratosphaeria **63, 335, 358**
Teratosphaeria fibrillosa 63
Teratosphaeriaceae **63–64, 358**
Teretispora 183, 204
Teretispora leucanthemi 204
Thaptospora 359
Theadonia **60–61**
Theadonia ligustrina **61**
Thyridaria rubronotata **31**
Thyrospora radicina 202
Torula alternata 186
Trematosphaerella oryzae 368
Trematosphaeria circinans 28
Trematosphaeria pertusa **28, 30**
Trematosphaeria vindelicorum 28
Trematosphaeriaceae **28**
Trichoconiella 183
Trichoseptoria **334, 383**
Trichoseptoria alpei 334
Trochophora 73, **75**
Trochophora simplex 76

U

Ulocladium 183, 189–190, 204, 206
Ulocladium alternariae 206
Ulocladium arborescens 201
Ulocladium atrum 204
Ulocladium botrytis 206
Ulocladium brassicae 204
Ulocladium cantlous 204
Ulocladium capsici 201
Ulocladium “capsicuma” 201
Ulocladium chartarum 201
Ulocladium chlamydosporum 199
Ulocladium consortiale 204
Ulocladium cucurbitae 204
Ulocladium multiforme 204
Ulocladium obovoideum 204

Ulocladium oudemansii 206
Ulocladium septosporum 201
Ulocladium solani 204
Ulocladium subcucurbitae 204
Ulocladium tuberculatum 206
Undifilum 183, 206
Undifilum bornmuelleri 207
Undifilum cinereum 207
Undifilum fulvum 207
Undifilum oxytropis 207

V

Vrystaatia **372–373**
Vrystaatia aloaicola **372**

W

Westerdykella **30**
Westerdykella capitulum **30**
Westerdykella minutispora **31**
Westerdykella ornata 30–31

X

Xanthoriicola 63
Xenobotryosphaeria **374–375**
Xenobotryosphaeria calamagrostidis **375**
Xenocercospora 67
Xenocylindrosporium **337**
Xenocylindrosporium kirstenboschense 337
Xenoseptoria 271, **371–372**
Xenoseptoria neosaccardoii **371**
Xenostigmina **61**
Xenostigmina zilleri 61

Y

Ybotromyces 183, 194
Ybotromyces caespitosus 195

Z

Zasmidium **355**
Zymoseptoria **334, 353**
Zymoseptoria tritici 334



Studies in Mycology 74: Development of *Aspergillus niger*

J. Dijksterhuis and H.A.B. Wösten (eds)

This issue of Studies in Mycology deals with vegetative growth and development of *Aspergillus* in general and *A. niger* in particular. *Aspergillus niger* is a member of the *Aspergillus* section *Nigri*, a group of 26 species that are dubbed "the black Aspergilli". *Aspergillus niger* is a cosmopolitan fungus. It can be isolated from all continents and is not very selective with respect to environmental conditions. *Aspergillus niger* is used as a cell factory for the production of enzymes and metabolites such as organic acids.

The issue starts with a review on molecular mechanisms underlying differentiation processes in the vegetative mycelium and during asexual and sexual development of aspergilli.

The articles of van Leeuwen *et al.* show that the RNA composition of dormant conidia is highly different from that of germinating conidia (i.e. of conidia during isotropic and polarized growth). The transcriptome of conidia changes most dramatically during the first two hours of germination enabling initiation of protein synthesis and respiration. The antifungal natamycin does neither affect differential expression of genes nor germination of *A. niger* conidia during the first 2 h of the process. Notably, subsequent stages of germination were effectively blocked by the anti-fungal compound, and the transcriptome inside the cells had changed thoroughly. The article of van Veluw *et al.* focusses on stages following germination namely the formation of micro-colonies. It is shown that micro-colonies of a control strain are smaller and more heterogeneous in size when compared to strains in which pigmentation genes are inactivated. These results are of interest from a biotechnological point of view since productivity is related to the morphology of micro-colonies. The results of Van Veluw *et al.* also indicate the existence of transcriptionally and translationally highly active and lowly active hyphae in 1 mm wide micro-colonies of *A. niger* as was previously shown in macro-colonies with a diameter of about 5–7 cm. However, the existence of distinct populations of hyphae with high and low transcriptional

and translational activity seems to be less robust when compared to macro-colonies. Why colonies have hyphae with different transcriptional and translational activity is still not clear but it may have a role in survival in an environment where conditions are dynamic. The article of Bleichrodt *et al.* focusses on sporulating colonies. Evidence is presented that GFP but not mRNA streams from the vegetative mycelium to conidiophores. Apparently, flow of molecules to the reproductive structure is selective. Absence of RNA streaming would explain why distinct RNA profiles were found in the aerial mycelium when compared to the vegetative mycelium. Future studies should reveal why GFP flows but mRNA does not.

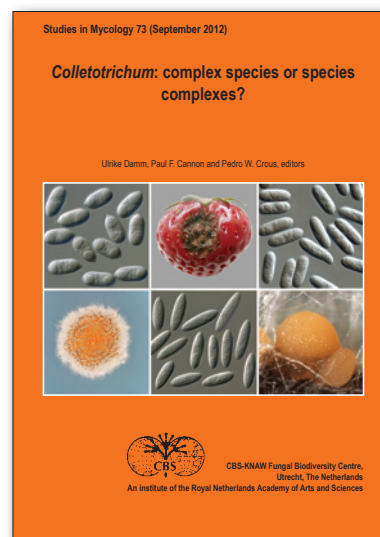
85 pp., fully illustrated with colour pictures (A4 format), paperback, 2013. € 40

Studies in Mycology 73: *Colletotrichum*: complex species or species complexes?

U. Damm, P.F. Cannon and P.W. Crous (eds)

This volume of Studies in Mycology is dedicated to Brian C. Sutton, in honour of his scientific contributions to our present understanding of the genus *Colletotrichum*, and for providing a framework for morphology-based identification of taxa in the genus. The volume consists of contributions that revise three of the major *Colletotrichum* species complexes, and a concluding paper that summarises the present situation. It provides an online identification tool to all presently recognised species, and also gives insight into future research directions. The research papers continue the trend of applying multi-locus phylogenetics to elucidate cryptic species complexes, and in the process designates numerous epitype specimens to fix the genetic application of names. Furthermore, numerous novel taxa are introduced in the *C. acutatum* (treating 31 taxa, and introducing 21 novel species), *C. boninense* (treating 17 taxa, and introducing 12 novel species), and *C. gloeosporioides* (treating numerous taxa of which 22 are accepted, and introducing 9 novel taxa, as well as one novel subspecies) species complexes. Although some species appear to have preferences to specific hosts or geographical regions, others are plurivorous and are present in multiple regions. The future for *Colletotrichum* biology will thus have to rely on consensus classification and robust online identification tools. In support of these goals, a Subcommittee on *Colletotrichum* has been formed under the auspices of the International Commission on Taxonomy of Fungi, which will administer a carefully curated barcode database for sequence-based identification of species within the BioloMICS web environment.

213 pp., fully illustrated with colour pictures (A4 format), paperback, 2012. € 65

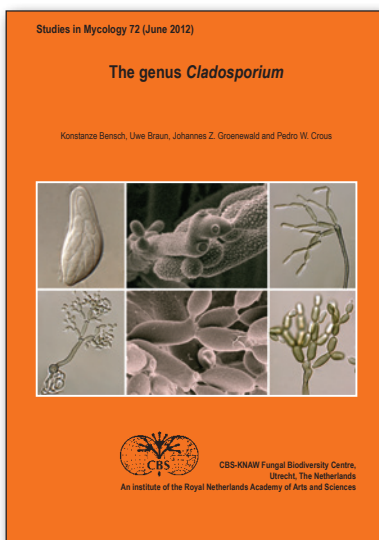


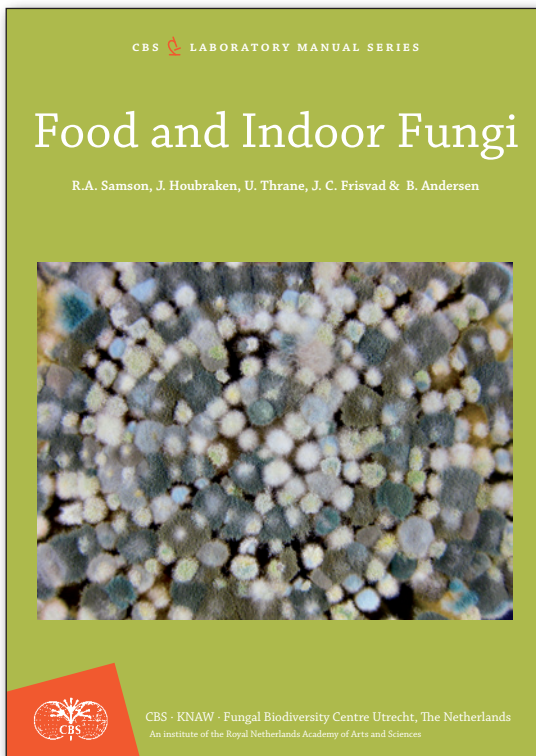
Studies in Mycology 72: The genus *Cladosporium*

K. Bensch, U. Braun, J.Z. Groenewald and P.W. Crous

A monographic revision of the hyphomycete genus *Cladosporium* s. lat. (*Cladosporiaceae*, *Capnodiales*) is presented. It includes a detailed historic overview of *Cladosporium* and allied genera, with notes on their phylogeny, systematics and ecology. True species of *Cladosporium* s. str. (anamorphs of *Davidiella*), are characterised by having coronate conidiogenous loci and conidial hila, i.e., with a convex central dome surrounded by a raised periclinal rim. Recognised species are treated and illustrated with line drawings and photomicrographs (light as well as scanning electron microscopy). Species known from culture are described *in vivo* as well as *in vitro* on standardised media and under controlled conditions. Details on host range/substrates and the geographic distribution are given based on published accounts, and a re-examination of numerous herbarium specimens. Various keys are provided to support the identification of *Cladosporium* species *in vivo* and *in vitro*. Morphological datasets are supplemented by DNA barcodes (nuclear ribosomal RNA gene operon, including the internal transcribed spacer regions ITS1 and ITS2, the 5.8S nrDNA, as well as partial actin and translation elongation factor 1- α gene sequences) diagnostic for individual species. In total 993 names assigned to *Cladosporium* s. lat., including *Heterosporium* (854 in *Cladosporium* and 139 in *Heterosporium*), are treated, of which 169 are recognised in *Cladosporium* s. str. The other taxa are doubtful, insufficiently known or have been excluded from *Cladosporium* in its current circumscription and re-allocated to other genera by the authors of this monograph or previous authors.

401 pp., fully illustrated with colour pictures (A4 format), paperback, 2012. € 70





CBS Laboratory Manual Series 2: Food and Indoor Fungi

R.A. Samson, J. Houbraken, U. Thrane, J.C. Frisvad and B. Andersen

This book is the second in the new CBS Laboratory Manual Series and is based on the seventh edition of INTRODUCTION TO FOOD AND AIRBORNE FUNGI. This new version, FOOD AND INDOOR FUNGI, has been transformed into a practical user's manual to the most common micro-fungi found in our immediate environment – on our food and in our houses. The layout of the book starts at the beginning with the detection and isolation of food borne fungi and indoor fungi in chapters 1 and 2, describing the different sampling techniques required in the different habitats. Chapter 3 deals with the three different approaches to identification: morphology, genetics and chemistry. It lists cultivation media used for the different genera and describes step by step how to make microscope slides and tape preparations for morphological identification. The chapter also describes how to do molecular and chemical identification from scratch, how to evaluate the results and warns about pitfalls. Chapter 4 gives all the identification keys, first for the major phyla (*Ascomycetes*, *Basidiomycetes* and *Zygomycetes*) common on food and indoors, then to the different genera in the *Zygomycetes* and the *Ascomycetes*, with a large section on the anamorphic fungi and a section for yeasts. The section on anamorphic fungi contains two keys to the different genera: a dichotomous key and a synoptic key. For each genus a key to the species treated is provided, followed by entries on the different species. For each species colour plates are accompanied by macro- and a micro-morphological descriptions, information on molecular and chemical identification markers, production of mycotoxins, habitats and physiological and ecological characteristics. The book is concluded with an extensive reference list and appendices on the associated mycobiota on different food types and indoor environments, mycotoxins and other secondary metabolites, a glossary on the mycological terms used in the book and lastly a detailed appendix on the media used for detection and identification.

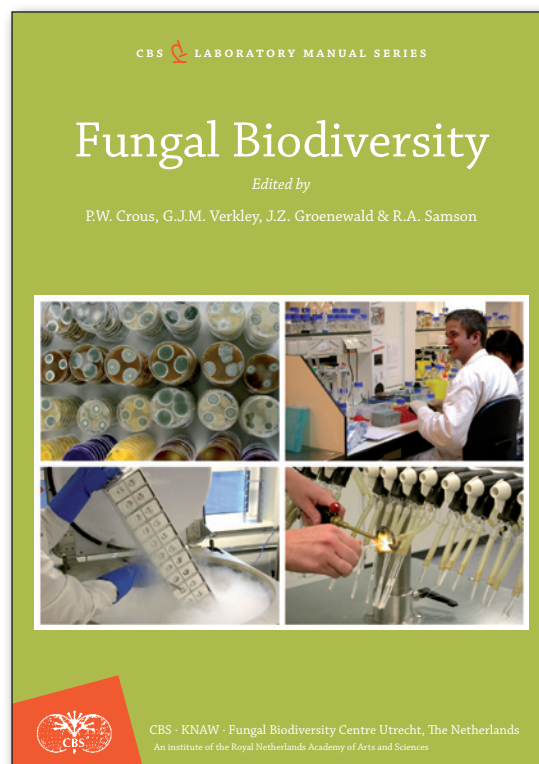
390 pp., fully illustrated with colour pictures (A4 format). Hardbound, 2010. € 70

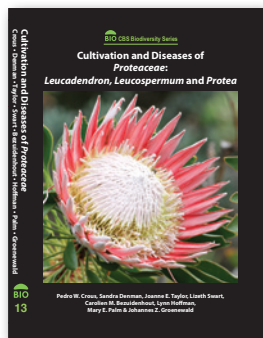
CBS Laboratory Manual Series 1: Fungal Biodiversity

P.W. Crous, G.J.M. Verkley, J.Z. Groenewald and R.A. Samson (eds)

This book is the first in the new "CBS Laboratory Manual Series", and focuses on techniques for isolation, cultivation, molecular and morphological study of fungi and yeasts. It has been developed as a general text, which is based on the annual mycology course given at the CBS-KNAW Fungal Biodiversity Centre (Centraalbureau voor Schimmelcultures). It provides an introductory text to systematic mycology, starting with a concise treatise of *Hyphochytridiomycota* and *Oomycota*, which have long been subject of study by mycologists, but are now classified in the Kingdom *Chromista*. These are followed by sections on the groups of "true fungi": *Chytridiomycota*, *Zygomycota*, *Ascomycota* and *Basidiomycota*. This descriptive part is illustrated by figures of life-cycles and schematic line-drawings as well as photoplates depicting most of the structures essential for the study and identification of these fungi. Special attention is given to basic principles of working with axenic cultures, good morphological analysis, and complicated issues such as conidiogenesis and the understanding of life-cycles. Exemplar taxa for each of these fungal groups, in total 37 mostly common species in various economically important genera, are described and illustrated in detail. In a chapter on general methods a number of basic techniques such as the preparation and choice of media, microscopic examination, the use of stains and preparation of permanent slides, and herbarium techniques are explained. Further chapters deal with commonly used molecular and phylogenetic methods and related identification tools such as BLAST and DNA Barcoding, fungal nomenclature, ecological groups of fungi such as soil-borne and root-inhabiting fungi, water moulds, and fungi on plants and of quarantine importance. Some topics of applied mycology are also treated, including fungi in the air- and indoor environment and fungi of medical importance. Common mycological terminology is explained in a glossary, with reference to illustrations in the book. A chapter providing more than 60 mycological media for fungal cultivation, and a comprehensive list of cited references are also provided. The book is concluded with an index, and dendrograms reflecting our current understanding of the evolutionary relationships within the *Fungi*.

270 pp., fully illustrated with colour pictures (A4 format). Hardbound, 2009. € 50





No. 13: Cultivation and Diseases of *Proteaceae*: *Leucadendron*, *Leucospermum* and *Protea*

Pedro W. Crous, Sandra Denman, Joanne E. Taylor, Lizeth Swart, Carolien M. Bezuidenhout, Lynn Hoffman, Mary E. Palm and Johannes Z. Groenewald

Proteaceae represent a prominent family of flowering plants in the Southern Hemisphere. Because of their beauty, unique appearance, and relatively long shelf life, *Proteaceae* cut-flowers have become a highly desirable crop for the export market. The cultivation of *Proteaceae* is a thriving industry that provides employment in countries where these flowers are grown, often in areas that are otherwise unproductive agriculturally. Diseases cause a loss in yield, and also limit the export of these flowers due to strict phytosanitary regulations. In this publication the fungi that cause leaf, stem and root diseases on *Leucadendron*, *Leucospermum* and *Protea* are treated. Data are provided pertaining to the taxonomy, identification, host range, distribution, pathogenicity, molecular characteristics and control of these pathogens. Taxonomic descriptions and illustrations are provided and keys are included to distinguish species in genera where a number of species affect *Proteaceae*. Disease symptoms are described and colour photographs are included. Where known, factors that affect disease epidemiology are discussed. Disease management strategies are also presented that will assist growers and advisors in making appropriate choices for

reducing disease in specific areas. Information is also provided relating to crop improvement, cultivation techniques, harvesting and export considerations. Further development and expansion of this industry depends on producing and obtaining disease-free germplasm from countries where these plants are indigenous. For that reason it is important to document the fungi that occur on *Proteaceae*, and to establish the distribution of these fungi. These data are essential for plant quarantine services for use in risk assessments.

360 pp., fully illustrated (A4 format). Hardbound, 2013. € 75



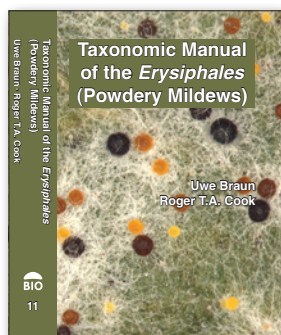
No. 12: Ophiostomatoid Fungi: Expanding Frontiers

Keith A. Seifert, Z. Wilhelm de Beer and Michael J. Wingfield (eds)

The 1992 Convention on Biological Diversity created a new awareness of the economic impact of living organisms. Regulators and quarantine specialists in governments all over the world now scrutinise dots on maps, as real-time online disease mapping and prediction models allow us to track (and try to prevent) the spread of diseases across borders. Woodlands are more managed, include less genetic diversity, and seem to be more susceptible to rapidly spreading disease. Different jurisdictions use different terminology, Biosecurity, Alien Invasive Species, Quarantine, but it is now commonplace to see large signs in airports, along highways, and on public hiking trails, warning citizens not to accidentally or deliberately facilitate the spread of unwanted pests or microbes. With the ophiostomatoid fungi, scientists have to cope with the overlapping behaviour of a triumvirate of kingdoms, the fungi, the animals (bark beetles, mites or nematodes), and how all of these impact trees in our forests and cities.

This book includes 21 papers divided among five themes, plus an appendix. It is a sequel to *Ceratocystis* and *Ophiostoma*: Taxonomy, Ecology, and Pathogenicity, published by the APS Press in 1993, and like that book is derived from an international symposium, this one held on North Stradbroke Island, Australia prior to the 9th International Mycological Congress. A year before this volume was completed, mycological taxonomy formally abandoned the historical two name system, known as dual nomenclature, and we are now adopting a single name binomial system. The appendix to this book provides a preliminary view of the nomenclature of the ophiostomatoid fungi using the new single name system. In an attempt at consistency, this naming system is used in all chapters.

337 pp., fully illustrated (A4 format). Hardbound, 2013. € 75



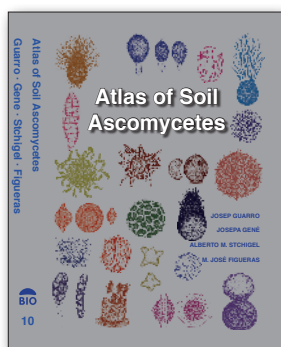
No. 11: Taxonomic Manual of the *Erysiphales* (Powdery Mildews)

Uwe Braun and Roger T.A. Cook

The "Taxonomic Manual of the *Erysiphales* (Powdery Mildews)" is a fully revised, expanded new version of U. Braun's former monograph from 1987, which is out of print. The present book covers the taxonomy of all powdery mildew fungi. New chapters have been prepared for phylogenetic relationships, conidial germination, conidia as viewed by Scanning Electron Microscopy, fossil powdery mildews, and holomorph classification. The treatment of the *Erysiphales*, its tribes and genera are based on recent molecular phylogenetic classifications. A key to the genera (and sections), based on teleomorph and anamorph characters is provided, supplemented by a key solely using anamorph features. Keys to the species are to be found under the particular genera. A special tabular key to species based on host families and genera completes the tools for identification of powdery mildew taxa. In total, 873 powdery mildew species are described and illustrated in 853 figures (plates). The following data are given for the particular species and subspecific taxa: bibliographic data, synonyms, references to descriptions and illustrations in literature, full descriptions, type details, host range, distribution and notes. A further 236 taxonomic novelties are introduced, comprising the new genus *Takamatsuella*, 55 new species,

four new varieties, six new names and 170 new combinations. A list of excluded and doubtful taxa with notes and their current status is attached, followed by a list of references and a glossary. This manual deals with the taxonomy of the *Erysiphales* worldwide, and provides an up-to-date basis for the identification of taxa, as well as comprehensive supplementary information on their biology, morphology, distribution and host range. This monograph is aimed at biologists, mycologists and phytopathologists that encounter or study powdery mildew diseases.

707 pp., fully illustrated with 853 pictures and line drawings (A4 format). Hardbound, 2012. € 80



No. 10: Atlas of Soil Ascomycetes

Josep Guarro, Josepa Gené, Alberto M. Stchigel and M. José Figueras

This compendium includes almost all presently known species of ascomycetes that have been reported in soil and which sporulate in culture. They constitute a very broad spectrum of genera belonging to very diverse orders, but mainly to the *Onygenales*, *Sordariales*, *Eurotiales*, *Thelebolales*, *Pezizales*, *Melanosporales*, *Pleosporales*, *Xylariales*, *Coniochaetales* and *Microascales*. The goal of this book is to provide sufficient data for users to recognise and identify these species. It includes the description of 146 genera and 698 species. For each genus a dichotomous key to facilitate species identification is provided and for each genus and species the salient morphological features are described. These descriptions are accompanied by line drawings illustrating the most representative structures. Light micrographs, supplemented by scanning electron micrographs and Nomarski interference contrast micrographs of most of the species treated in the book are also included. In addition, numerous species not found in soil but related to those included in this book are referenced or described. This book will be of value not only to soil microbiologists and plant pathologists concerned with the soilborne fungi and diseases, but also to anyone interested in identifying fungi in general, because many of the genera included here are not confined to soil. Since most of the fungi of biotechnological or clinical interest (dermatophytes, dimorphic fungi and opportunists)

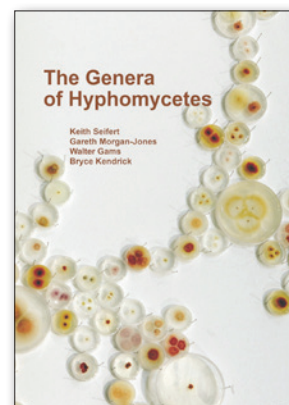
are soil-borne ascomycetes, the content of this book is of interest for a wide range of scientists.

486 pp., fully illustrated with 322 pictures and line drawings (A4 format). Hardbound, 2012. € 70

No. 9: The Genera of Hyphomycetes

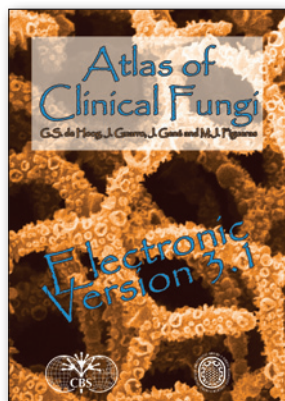
Keith Seifert, Gareth Morgan-Jones, Walter Gams and Bryce Kendrick

The Genera of Hyphomycetes is the essential reference for the identification of moulds to all those who work with these fungi, including plant pathologists, industrial microbiologists, mycologists and indoor environment specialists, whether they be professionals or students. The book compiles information on about 1480 accepted genera of hyphomycetes, and about 1420 genera that are synonyms or names of uncertain identity. Each accepted genus is described using a standardized set of key words, connections with sexual stages (teleomorphs) and synanamorphs are listed, along with known substrates or hosts, and continental distribution. When available, accession numbers for representative DNA barcodes are listed for each genus. A complete bibliography is provided for each genus, giving the reader access to the literature necessary to identify species. Most accepted genera are illustrated by newly prepared line drawings, including many genera that have never been comprehensively illustrated before, arranged as a visual synoptic key. More than 200 colour photographs supplement the line drawings. Diagnostic keys are provided for some taxonomic and ecological groups. Appendices include an integrated classification of hyphomycete genera in the phylogenetic fungal system, a list of teleomorph-anamorph connections, and a glossary of technical terms. With its combination of information on classical morphological taxonomy, molecular phylogeny and DNA diagnostics, this book is an effective modern resource for researchers working on microfungi.



997 pp., fully illustrated with colour pictures and line drawings (A4 format). Hardbound, 2011. € 80

Other CBS publications



Atlas of Clinical Fungi CD-ROM version 3.1

G.S. de Hoog, J. Guarro, J. Gené and M.J. Figueras (eds)

A new electronic version of the 3rd edition is available since November 2011. It will allow fast and very comfortable search through the entire Atlas text the engine is fully equipped for simple as well as advanced search. Items are strongly linked enabling direct use of the electronic version as a benchmark for identification and comparison. Text boxes with concise definitions appear explaining all terminology while reading. Illustrations are of highest quality and viewers are provided for detailed observation. The Atlas is interactive in allowing personal annotation which will be maintained when later versions will be downloaded.

The electronic version has been developed by T. Weniger. The third edition will contain about 530 clinically relevant species, following all major developments in fungal diagnostics. Regular electronic updates of the Atlas are planned, which should include numerous references to case reports, as well as full data on antifungals. Future features will include links to extended databases with verified molecular information. Note: The Atlas runs on Windows only! Not compatible with Mac

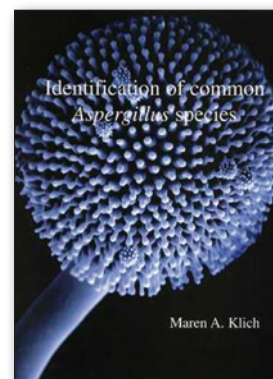
Atlas of Clinical Fungi version 3.1, interactive CD-ROM, 2011. € 105

Identification of Common *Aspergillus* Species

Maren A. Klich

Descriptions and identification keys to 45 common *Aspergillus* species with their teleomorphs (*Emericella*, *Eurotium*, *Neosartorya* and *Sclerocleista*). Each species is illustrated with a one page plate and three plates showing the most common colony colours.

116 pp., 45 black & white and 3 colour plates (Letter format), paperback, 2002. € 45



A revision of the species described in *Phyllosticta*

Huib A. van der Aa and Simon Vanev

2936 taxa are enumerated, based on the original literature and on examination of numerous herbarium (mostly type) specimens and isolates. 203 names belong to the genus *Phyllosticta* s.str., and are classified in 143 accepted species. For seven of them new combinations are made and for six new names are proposed. The great majority, 2733 taxa, were redispersed to a number of other genera. A complete list of these novelties, as included in the book's abstract, can also be consulted on the web-site of CBS.

510 pp. (17 x 25 cm), paperback, 2002. € 55

The CBS taxonomy series "Studies in Mycology" is issued as individual booklets. Regular subscribers receive each issue automatically. Prices of back-volumes are specified below.

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