

# INDEX

- <sup>15</sup>N studies ..... 116  
 2-partner symbioses ..... 276  
*Acacia* ..... 58, 63, 66-7, 108, 113, 128  
     *melanoxylo*n ..... 211  
*Acaulospora* ..... 32, 155, 158  
     *denticulata* ..... 25  
 ACC deaminase ..... 87, 99  
 Acclimatisation ..... 308  
 Acetylene reduction assay ..... 66  
*Achromobacter parvulus* ..... 328  
*Acremonium* ..... 274  
     *lolii* ..... 245  
 Actinomycete ..... 51, 56  
 Actinorhizal ..... 51, 53  
*Adenostoma fasciculatum* ..... 25  
*Aeschynomene* ..... 59  
 Africa ..... 49, 52, 63, 228, 231,  
     234-5, 295-7  
 Agaricales ..... 243  
*Agonis flexuosa* ..... 362  
*Agrobacterium* ..... 62, 242  
     *radiobacter* ..... 88-9  
     *tumefaciens* ..... 258  
*Alcaligenes faecalis* ..... 328  
 Algae ..... 2  
*Allocauarina* ..... 51-2, 56, 60, 66-7,  
     108, 128  
*Alnus* ..... 51-4, 56, 108, 128, 277  
     *glutinosa* ..... 346  
     *rubra* ..... 122, 126  
*Alternaria* ..... 310, 312, 348  
 AM fungi .. 116, 125, 127-8, 132, Ch 6  
*Amanita muscaria* ..... 106, 131  
 Amaranthaceae ..... 167  
*Anabaena* ..... 46, 49  
*Anigozanthos* ..... 326-7  
     *viridis* ssp. *terraspectans* ..... 324  
 Anthericaceae ..... 324  
 Anthropogenic acidification ..... 21  
 Antibiotic ..... 318  
*Aotus* ..... 66  
*Aponogeton hexatepalus* ..... 324  
 Aponogetonaceae ..... 324  
*Arabidopsis thaliana* ..... 327  
*Arachis* ..... 60  
*Arbutus* ..... 232  
 Archaea ..... 2, 4  
*Archaeospora* ..... 155, 187  
*Arctostaphylos* ..... 126  
 Argentina ..... 52, 296  
*Armillaria* ..... 287, 351  
     *luteobubalina* ..... 288-9, 304  
     *mellea* ..... 211  
*Artemisia californica* ..... 29  
     *tridentata* ..... 25  
*Ascochyta caulina* ..... 257  
 Ascomycetes ..... 107  
 Ascomycota ..... 243-4, 246, 249, 254  
 Asia ..... 47, 50-2, 210, 295  
 Asian chestnut ..... 347  
*Aspergillus* ..... 272, 274, 310, 312  
     *niger* ..... 328  
     *oryzae* ..... 328  
 Asteraceae ..... 57, 107  
*Asterolasia drummondii* ..... 325  
     *grandiflora* ..... 325  
     *nivea* ..... 325  
*Astroloma xerophyllum* ..... 228-9  
*Atkinsonella hypoxylon* ..... 255  
*Aureobasidium pullulans* ..... 328  
 Australia .. 1, 5, 7, 11, 45, 47, 49, 51-2,  
     63, 66, 91, 105, 107, 119-20, 128,  
     131, 151, 167, 195, 200, 202, 212,  
     214, 217, 227-8, 231, 234-5, 250,  
     255-6, 271, 277, 286-97, 299-300,  
     337, 343-4  
*Autricularia polytricha* ..... 210  
*Avena* ..... 23, 29  
*Azolla* ..... 51  
*Azorhizobium* ..... 62  
*Azospirillum* ..... 46, 81, 86

- Azotobacter* .....46, 86  
*Bacillus*....., 80-1, 88, 311-2, 322  
     *cereus* ..... 83, 328  
     *subtilis*..... 88  
*Balaustion microphyllum*..... 324  
*Banksia* ..... 66, 291, 348, 360  
     *baxteri* ..... 361  
     *brownii* ..... 345  
     *coccinia*..... 338, 340  
Basidiomycetes ..... 107, 198, 243, 246  
Basidiomycota ..... 243, 246  
Basidiospores ..... 288  
*Beilschmiedia*..... 211  
*Beta vulgaris* ..... 327  
*Bettongia tropica*..... 128  
*Betula* ..... 106, 108, 210  
Betulaceae..... 52-3, 108  
Biological control ..... 276  
*Bletilla striata* ..... 203  
Boletales ..... 243  
*Boletinellus meruloides*..... 119  
Boreal forests ..... 210  
*Boronia adamsiana*..... 325  
*Bossiaea* ..... 66  
*Botryosphaeria dothidea* ..... 287  
     *rhodina* ..... 298  
     *ribis* ..... 289  
*Botrytis* ..... 310, 312  
     *cinerea*..... 258, 342, 348, 352  
*Botryosphaeria dothidea*..... 294  
*Bouteloua gracilis* ..... 33  
*Bowenia* ..... 47  
*Bradyrhizobium* ..... 46, 62-3  
Brassicaceae ..... 167  
Brazil..... 58, 295-6  
*Brevibacterium ammoniagenes*..... 328  
*Bromus hordeaceus* ..... 31  
     *madritensis* ..... 29  
Bunts..... 246  
*Burkholderia cepacia* ..... 88  
C<sub>2</sub>H<sub>2</sub> reduction..... 66  
C<sub>3</sub> or C<sub>4</sub> physiology ..... 23  
Caesalpinioideae ..... 57-9, 61  
*Caladenia* ..... 202, 206  
     *arenicola* ..... 208-9, 217  
California ..... 19, 21-2, 25, 27-31, 34,  
     36, 52, 193  
*Calluna* ..... 127, 228, 232  
     *vulgaris*..... 233-4  
*Calonectria quinquiseptatum* ..... 291  
*Calytrix breviseta* ssp. *breviseta*... 324  
*Candida*..... 310  
     *albicans* ..... 328  
Canker ..... 249, 286  
*Capsicum* ..... 326  
*Carex arenaria* ..... 253  
Caryophyllaceae ..... 167  
*Cassiope* ..... 107-8  
Cassiopoideae..... 228  
*Casuarina* ..... 51-3, 55-6, 60, 108  
Casuarinaceae..... 52-3, 55, 64, 108  
*Cataula* ..... 232  
*Ceanothus* ..... 51-3  
*Cenococcum* ..... 109  
     *geophilum*..... 119  
Central America..... 91, 102, 295  
*Cephalanthera austiniiae* ..... 210  
*Ceratobasidium* ..... 198  
     *cornigerum* ..... 200, 202  
*Ceratocystis*..... 11, 260, 291, 303  
     *fimbriata* ..... 296, 304  
*Ceratorhiza* ..... 198, 200, 224  
*Ceratozamia* ..... 47  
*Chaetomium globosum*..... 328  
Chenopodiaceae ..... 167  
*Chenopodium* ..... 257  
Chestnut blight ..... 301, 347  
*Chigua*..... 47  
Chromista ..... 273  
*Cryphonectria parasitica*..... 250  
Chytridiales ..... 243  
Chytridiomycetes..... 243-4  
Chytridiomycota..... 243  
*Citrus*..... 327

- Cladosporium* ..... 272, 310, 312, 328  
     *resinae* ..... 328  
 Clamp connections..... 246  
*Clavibacter*..... 242, 314  
     *xyli*..... 89  
*Claviceps purpurea*.....254-7  
*Clostridium* ..... 46, 57  
 CO<sub>2</sub> enrichment..... 22, 25, 30, 121  
 Co-evolution..... 266  
 Colchiaceae..... 324  
*Colletotrichum* ..... 245, 298, 348  
     *gloeosporioides* ..... 298  
 Commelinaceae ..... 167  
 Competition ..... 170  
*Comptonia* ..... 52, 56, 108  
*Coniothyrium* ..... 297  
     *zuluense*..... 295  
*Conostephium pendulum*..... 228  
*Conostylis misera*..... 324  
     *wonganensis* ..... 324  
 Convention on biological diversity.. 271  
 Coralloid root..... 48  
*Corallorhiza* ..... 202, 206  
     *maculata* ..... 210  
     *trifida* ..... 200, 210  
 Coriariaceae ..... 53  
*Corybas cryptanthus*..... 210  
*Corynebacterium* ..... 314  
 Crassulacean Acid Metabolism ..... 23  
*Cryphonectria cubensis* ..... 294  
     *parasitica*..... 286, 338, 347  
*Cryptodiaporthe* ..... 338  
     *semiperda* ..... 340  
 Cyanobacteria.....3  
 Cyanophyta ..... 47  
 Cycadaceae.....47  
 Cycads.....47  
*Cylindrocladium* .... 291, 298, 348, 352  
 Cyperaceae..... 167, 316  
 Cypresscanker ..... 286  
 Cytokinin..... 319  
*Cytospora eucalypticola* ..... 287, 291  
*Dactylorhiza* ..... 202, 212, 214  
     *aristata* ..... 200  
     *purpurella* ..... 199  
*Danthonia spicata* ..... 255  
 Datisceae ..... 52-3  
*Daviesia atrophylla*..... 324  
     *speciosa* ..... 324  
 Debilitators..... 254  
 Deuteromycetes ..... 246  
*Didymoplexis* ..... 210, 213  
 Die-back..... 292  
*Dillwynia* ..... 66  
*Dioon*..... 47  
*Diplolaena andrewsii* ..... 325  
 Dipterygeae..... 58  
 Disease suppressing bacteria..... 88  
     suppressive soils..... 91  
     -free planting materials..... 358  
 Disinfestation.....354-5  
 Disturbance..... 10, 12, 112, 160, 174,  
     212, 343-4  
*Diuris*..... 212, 332  
     *micrantha* ..... 217  
     *purdiei*..... 214, 217  
 DNA/RNA fluorochrome staining... 313  
 Dothideales..... 243  
 Douglas fir .... 119, 122, 124, 253, 265  
 Downy mildew ..... 248  
*Drechslera teres* ..... 90  
*Drummondita ericoides* ..... 325  
*Dryas* ..... 51-2, 56, 108  
 Dutch elm disease .. 11, 250, 254-5, 275  
 Ebola virus..... 8  
 Ecological restoration ..... 347, 356  
     specificity ..... 186  
 Ecosystem dynamics.....9  
     restoration..... 129, 173  
 Ectomycorrhizas .....Ch 5  
 Electrosterilisation ..... 321  
 Elaeagnaceae .....52-3, 55, 60  
*Elaeagnus* ..... 51-2  
*Elythranthera* ..... 212  
 Empetraceae..... 232

- Empetreae ..... 228
- Empetrum* ..... 232
- Encephalartos* ..... 47, 68
- Endosporeous bacteria ..... 322
- Endothia eugeniae* ..... 295
- gyrosa* ..... 287-8, 298
- Endothiella* ..... 287-8, 291
- England ..... 223, 233, 311, 346
- Enterobacter* ..... 88-9, 311-2, 328
- aerogenes* ..... 328
- agglomerans* ..... 88
- asburiae* ..... 312
- cloacae* ..... 89
- Entrophospora* ..... 155
- Epacridaceae ..... 232, 281, 344-5
- Epacridoideae ..... 228
- Epichloe typhina* ..... 254
- Epicoccum* ..... 310
- Epidendrum floridense* ... 196, 222, 327
- Epigonium* ..... 210
- Epilobium* ..... 23
- Epipactis* ..... 202, 212, 223-5
- Epiphytes ..... 154
- Epiphytic orchids ..... 222
- Epipogium* ..... 213
- Epulorhiza* ..... 198, 200
- Eremophila resinosa* ..... 324
- Ergot ..... 257
- Erica* ..... 232
- Ericaceae ..... 108, 129, 206, 215,  
227-30, 232-5, 344-5
- Ericales ..... 227, 229
- Ericoid fungi ..... 227
- Ericoid mycorrhizas ..... Ch 8
- Ericoideae ..... 228
- Eriogonum fasciculatum* ..... 29
- Erwinia* ..... 242
- amylovora* ..... 254
- Erysiphales ..... 243, 245, 249, 254
- Erythromyces crocicreas* ..... 210
- Erythrorchis ochobiensis* ..... 210
- Escherichia coli* ..... 328
- Etiolation ..... 319
- Eucalyptus* ... 66, 107-8, 112, 119, 120,  
128, 130, 250, 255, 277,  
297, 299, 318, 340
- diversicolor* ..... 289
- dolorosa* ..... 324
- globulus* ..... 106, 123, 362
- grandis* ..... 294, 296, 327
- graniticola* ..... 324
- impensa* ..... 324
- marginata* ..... 48, 291, 295, 344
- nitens* ..... 290
- Eukaryotes ..... 2
- Euphorbia* ..... 23
- Europe ... 21, 51-2, 120, 131, 168, 200,  
202, 212, 250, 252,  
255, 260, 286, 346
- European forest ..... 122
- Ex situ* conservation ..... 209, 260
- Exobasidiales ..... 243, 245
- Explant ..... 324-5
- Fabaceae ..... 324
- Fire ..... 212
- Flavobacterium suaveolens* ..... 328
- Fluorescent siderophores ..... 90
- Fomes* ..... 210
- mastoporos* ..... 211
- Forestry activities ..... 112, 115
- Formae speciales ..... 248
- Frankia* ..... 46, 51, 55-7, 68, 277
- based actinorhizal species ..... 60
- Fraxinus* ..... 119
- Fungal propagules ..... 111
- succession ..... 123
- Fungi imperfecti* ..... 233
- Fungicides ..... 318, 352, 356
- Fungus-feeding nematodes ..... 158, 161
- Fusarium* 254, 270, 272, 274, 348, 354
- oxysporum* ..... 89, 91, 257, 358
- poae* ..... 310
- wilt of banana ..... 91
- Galearis* ..... 202

- Galeola* ..... 206  
     *altissima* ..... 210  
     *hydra* ..... 210  
     *septentrionalis* ..... 211  
 Galling ..... 249  
 Ganodermatales ..... 243  
*Gastrodia* ..... 198, 206, 213, 215  
     *cunninghamii* ..... 211  
     *elata* ..... 211  
     *javanica* ..... 211  
*Gastrodia minor* ..... 211  
     *sesamoides* ..... 211  
*Gastrobium hamulosum* ..... 324  
*Gaultheria* ..... 127, 230, 232  
     *shallon* ..... 230, 233  
 Gentamycin ..... 322  
 Geographical distribution ..... 52  
 Geographical Information System ... 357  
 Germplasm ..... 209  
*Gibberella fujikuroi* ..... 258  
*Gigaspora* ..... 28, 34, 155  
*Gliocladium fimbriatum* ..... 328  
 Glomales ..... 151, 155  
*Glomus* ..... 34, 155, 158  
     *aggregatum* ..... 28  
     *etunicatum* ..... 25  
     *intraradices* ..... 25  
     *leptotichum* ..... 28  
     *occultum* ..... 28  
     *tenue* ..... 28  
 Genetically modified crops ..... 258  
 Gondwana ..... 47  
 Goodeniaceae ..... 107, 324  
*Goodyera* ..... 202, 212  
     *repens* ..... 200, 203  
 Gram negative bacteria ..... 242, 322  
 Gramineae ..... 57  
 Grazing ..... 212  
*Grevillea dryandroides* ..... 324  
     *scapigera* ..... 356, 364, 366-7  
*Guignardia* ..... 245  
*Gunnera* ..... 50-1, 54, 68  
*Gunneraceae* ..... 50  
*Gutierrezia sarothrae* ..... 30  
 Gymnosperm ..... 105  
*Gymnostoma* ..... 51-2  
 Habitat destruction ..... 196  
 Haemodoraceae ..... 324  
 Haplophase ..... 248  
 Hartig net ..... 105-6, 111  
 Hawaiian plants ..... 173, 185  
*Hebeloma cristuliniforme* ..... 119  
*Hemiandra gardneri* ..... 324  
     *rutilans* ..... 324  
 Hemibiotrophs ..... 245  
*Hemigenia exilis* ..... 324  
*Heterobasidion annosum* ..... 257  
 Holobiotrophic ..... 248  
 Holobiotrophs ..... 245  
 Homobasidiomycetidae ..... 243  
 Hormonal action ..... 85  
 Horticultural trade ..... 196  
 Host-fungus ..... 130, 222  
*Hydnangium* ..... 131  
     *carneum* ..... 293  
*Hymenoscyphus ericae* ..... 233-4  
 Hypersensitive flecking ..... 249  
 Hyphae ..... 116-7, 163-4  
 Hyphal anastomosis ..... 246  
     digestion ..... 198  
     grazing ..... 110, 158  
     networks ..... 9, 21  
     proliferation ..... 111  
     responses ..... 28  
*Hypholoma* ..... 116  
 Hypochytriales ..... 243  
 Hypochytriomycetes ..... 243  
 Hypochytriomycota ..... 243  
 Hypocreales ..... 243  
*Hysterangium* ..... 131  
*Ilex* ..... 326  
*In situ* conservation ..... 261  
 Indonesia ..... 210-1, 295  
 Indonesian archipelago ..... 286  
 Ingoldian fungi ..... 273

- Injecting trees..... 360
- Inoculation ..... 129-30, 277
- Inoculum..... 159, 183, 186
- Introduced pathogens..... 286, 291
- Irradiation (UV or Gamma-rays)..... 319
- Jacksonia* ..... 66, 108
- Jarrah die-back ..... 250, 255
- Juncaceae..... 167
- Kalmia* ..... 127, 232
- Kennedia* ..... 66
- Kobresia* ..... 107-8
- Laboulbeniomyces ..... 272
- Labrithulales ..... 243
- Labrithulomycetes ..... 243
- Labrithulomycota ..... 243
- Lacazia* ..... 272
- Laccaria*..... 124, 131
- laccata* ..... 293
- Lambertia echinata* ..... 324
- inermis* ..... 361
- orbifolia* ..... 324
- Lamiaceae..... 324
- Laurasian..... 47
- Leaf and stem diseases..... 339
- Lechenaultia pulvinaris* ..... 324
- Ledum* ..... 232
- Legumes ..... 108
- Lentinula* ..... 210, 225
- Leoteales ..... 243
- Lepidozamia* ..... 47
- peroffskyana* ..... 49
- Leporella fimbriata* ..... 206
- Leptospermum scoparium*..... 211
- Leucopogon conostephioides*..... 228
- Linanthus* ..... 23, 31
- Logging..... 196
- Lolium* ..... 23
- Lycoperdon* ..... 211
- Lyophilization..... 271
- Lysinema ciliatum*..... 231
- Macrozamia* ..... 47, 66
- communis* ..... 49
- fraseri* ..... 67
- Macrozamia riedlei*..... 48, 66
- Maize ..... 258
- Malay ..... 60
- Marasmius coniatus* ..... 210
- Marsupials..... 129, 161
- Meiosis..... 244
- Melaleuca* ..... 108, 113, 118, 128
- uncinata*..... 211, 214-6
- Melampsora lini* ..... 253
- Meliolales ..... 243
- Menyanthaceae ..... 324
- Mercuric chloride ..... 320
- Mesozoic..... 47
- Methyl bromide..... 355
- Mexico ..... 214, 296
- Microascales ..... 243
- Microbial communities..... 33, 335
- diversity ..... 12
- synergists ..... 87
- Microcybas* ..... 47
- Micrococcus* ..... 311
- Microorganism conservation ..... 8
- Micropropagation..... 307, 309
- Microsporium* ..... 310
- Microtis parviflora* ..... 200, 223
- Middle East..... 257
- Mimosoideae..... 57, 59, 61
- Mineral nutrition ..... 204
- Mining operations..... 344
- Mites..... 161, 311, 329-30
- Moniliopsis* ..... 200
- Monocalyptus* ..... 293
- Monotropa* ..... 126, 206, 215
- Monotropoideae..... 126, 129, 215
- Moulds ..... 328
- Mucor* ..... 243, 272, 310, 328
- Mucor rouxii* ..... 328
- Mucorales..... 243, 272
- Mycelia..... 110
- Myco-heterotrophic orchids..... 205, 210
- Mycology..... 304
- Mycorrhizal colonisation ..... 197
- community dynamics..... 27

- Mycorrhizal exchange ..... 110  
     functioning ..... 22  
     syntheses ..... 277  
*Mycosphaerella* ..... 245, 287, 290,  
     297-9, 348  
     leaf blotch disease ..... 290  
 Myoporaceae ..... 324  
*Myrica* ..... 51-3, 55-6, 108  
 Myricaceae ..... 52-3, 108  
 Myrtaceae ..... 128, 294-5, 324  
 Myxomycota ..... 243  
 N + P availability ..... 31  
 N-containing molecules ..... 46  
 N eutrophication ..... 21-2, 27-9  
 N<sub>2</sub>-fixing association ..... 46, 63-4, 67-9  
 N-fixing microbes ..... 9, 79  
 N-limiting conditions ..... 65  
 N starvation ..... 55  
 N transformation ..... 20  
 Narrow host range fungi ..... 118  
 Natural disturbances ..... 343  
     suppressiveness ..... 91  
 Necrotic spotting ..... 249  
 Necrotrophs ..... 245, 248  
*Neottia* ..... 211  
*Nepenthes* ..... 327  
 New Zealand ..... 1, 7, 50, 52, 131,  
     210-11, 228, 239, 250  
*Nicotiana tabacum* ..... 327  
 Nitrogen deposition ..... 120  
 Nitrogen oxides ..... 31  
 North America ..... 11, 51, 119, 122, 128,  
     131, 168, 200, 210,  
     233, 250, 252, 286  
 Northern Bettong ..... 128  
*Nostoc* ..... 46, 49- 51  
*Nothofagus* ..... 108, 131, 210-11  
 Nutrient acquisition strategies ..... 63  
*Nyctalis* ..... 278  
 O-antigenic side chain ..... 90  
 O<sub>2</sub> ..... 46, 55, 60  
 Obligate parasites ..... 251  
*Ocotea whitei* ..... 285  
*Oidiodendron* ..... 233  
 Old roots ..... 158-9  
 Olpidiopsidales ..... 243  
 Oomycetes ..... 243, 270, 273  
 Oomycota ..... 243  
*Ophiostoma himal-ulmi* ..... 11  
     *novo-ulmi* ..... 250, 254-5, 275, 338  
     *ulmi* ..... 11, 286  
*Ophrys* ..... 209, 212  
 Orchid rhizoctonias ..... 198  
     symbionts ..... 277  
 Orchidaceae 57, 126, 195, 199, 215, 218  
 Orchids ..... 195-6, 200-1, 204, 206,  
     211, 312  
*Orchis* ..... 209, 212, 214  
 Ordovician ..... 155  
 Ozone ..... 31, 162  
 Pacific seaboard ..... 33  
 Pangaea ..... 47  
 Papilionoideae ..... 57-9, 61  
 Papua New Guinea ..... 210, 286  
*Paraglomus* ..... 155  
*Parasponia* ..... 53-4, 57, 60, 68  
*Pascopyrum smithii* ..... 33  
 Patagonia ..... 228  
 PCR/DNA fingerprinting ..... 62  
 PCR-based molecular analyses ..... 49  
 Peloton isolation ..... 213  
*Penicillium* ..... 245, 272, 274, 310,  
     312, 328  
     *funiculosum* ..... 328  
     *variable (glaucum)* ..... 328  
 Peronosporales ..... 243, 248, 254  
 Pests ..... 264-5  
 pH ..... 60, 87, 94, 115, 122, 162, 167,  
     172, 204, 228, 350, 353, 355  
 Phaseoleae ..... 59-60  
*Phellinus weirii* ..... 11  
 Phenology ..... 203, 212, 334  
*Phialophora* ..... 274, 310  
*Philothea wonganensis* ..... 325  
*Phoma* ..... 326  
     *herbarum (pigmentivora)* ..... 328  
 Phosphate ..... 359, 362-3

- Phyllodoce* ..... 232  
 Phylogeny ..... 61, 236, 303  
*Phytophthora* ..... 11, 92, 254, 273, 346,  
 348, 351, 354-6, 358-9, 363  
     *cambivora* ..... 263  
     *cinnamomi* ..... 250, 255, 291-2, 338,  
     340, 342, 344-5, 352  
 Phytotoxicity ..... 361  
*Pinus* ..... 22, 106, 108, 123, 131, 210  
     *banksiana* ..... 123  
*Pisolithus* ..... 109, 119, 124, 131, 293  
     *tinctorius* ..... 109, 119,  
*Pisonia* ..... 108, 118  
     *grandis* ..... 122  
*Pithomyces chartarum* ..... 245  
*Pityrodia scabra* ..... 324  
 Plant pathogen diversity ..... 259  
 Plant Preservative Mixture ..... 309, 323  
*Plantago* ..... 23  
*Platylobium* ..... 66  
*Plasmodiophora brassicae* ..... 254  
 Plasmodiophorales ..... 243  
 Plasmodiophoromycetes ..... 243  
 Plasmodiophoromycota ..... 243-4  
*Platanthera* ..... 200, 212, 214  
*Platypodium elegans* ..... 285  
*Pleurocatena* ..... 278  
 Pneumocystidales ..... 272  
 Pneumocystis ..... 272  
 Pollination ..... 49, 212  
 Pollution ..... 120, 167  
 Polygonaceae ..... 167  
*Polygonum* ..... 144  
*Populus* ..... 31, 106, 108, 118, 127-8  
 Poriales ..... 243  
 Positive laboratory air pressure ..... 312  
 Powdery mildew ..... 249  
 Pre-coralloid root ..... 48  
 Propagation of rare plants ..... 172  
 Proteaceae ..... 167, 324, 345  
*Proteus vulgaris* ..... 328  
 Protosteliales ..... 243  
 Protosteliomycetes ..... 243  
*Prunus* ..... 285  
*Pseudomonas* ..... 81-2, 87, 92, 242  
     *aeruginosa* ..... 328  
     *aureofaciens* ..... 88, 103, 311, 322  
     *cepacia* 'Gibraltar' ..... 328  
     *chlororaphis* ..... 90  
     *fluorescens* ..... 312, 328  
     *oleoverans* ..... 328  
     *syringae* pv. *lachrymans* ..... 91  
*Pseudotsuga* ..... 108, 119  
     *menziesii* ..... 126  
*Psidium guajava* ..... 295  
*Pterochaeta paniculata* ..... 362  
*Pterospora* ..... 215  
*Pterostylis* ..... 202  
     *acuminata* ..... 200, 223  
     *sanguinea* ..... 217  
*Puccinia psidii* ..... 294-6  
*Pyrenophora tritici-repentis* .... 90, 101  
 Pythiales ..... 243  
*Pythium* ..... 252, 254-5, 257, 273, 285,  
 305, 348, 351, 354-5, 358  
     *oligandrum* ..... 92, 282  
     *sylvaticum* ..... 253  
     *torulosum* ..... 83  
     *ultimum* ..... 89-90  
*Pyxidiophora asterophorae* ..... 278  
*Quercus rubra* ..... 127  
 Radioactive carbon ..... 205  
 Rainfall ..... 229  
*Ralstonia solanacearum* ..... 89  
*Ralstonia* ..... 89, 242  
 rDNA internal transcribed spacer (ITS)  
     ..... 109  
 rDNA sequencing ..... 3  
 Recovery of contaminated cultures ... 329  
 Red-list macromycetes ..... 278  
 Rhamnaceae ..... 52-3, 55, 60, 108, 362  
*Rhinosporidium* ..... 272  
*Rhizanthella gardneri* ..... 206, 211, 213-6,  
     221, 223, 225  
*Rhizobium* ..... 46, 57, 62-3



- Rhizobium*-based symbioses ..... 50  
   -*Parasponia* symbiosis ..... 60  
*Rhizoctonia* ..... 198-9, 205, 211, 214,  
     254, 348, 354  
   *solani* ..... 200, 203, 352  
   *solani* (AG8)..... 203  
*Rhizopus* ..... 310  
   *stolonifer* ..... 328  
*Rhododendron* ..... 127, 230, 232  
*Rhodotorula* ..... 310, 312  
*Rhodotorula rubra* ..... 328  
 Rhytismatales ..... 243  
 Riesling grape ..... 314  
 Rosaceae ..... 52-3, 55, 73, 334  
 Rushes ..... 166  
*Russula* sp. .... 210  
 Rusts ..... 246  
 Rutaceae ..... 325  
*Saccharomyces cerevisiae* ..... 328  
*Salix* ..... 108, 118, 128, 143, 210  
*Salmonella typhosa* ..... 328  
*Salvia mellifera* ..... 29  
*Santalum acuminatum* ..... 67  
 Saprotophs ..... 245  
*Sarcina lutea* ..... 328  
*Sarcodes* ..... 142, 215  
 Scab ..... 249  
*Scleroderma* ..... 124, 148  
   *verrucosum* ..... 293  
*Sclerospora sacchari* ..... 314  
 Sclerosporales ..... 243, 248  
*Sclerotinia* ..... 245  
*Sclerotium* ..... 245, 352  
 Scotland ..... 346  
 Scrophulariaceae ..... 167  
*Scutellospora* ..... 25, 28, 34, 155  
   *calospora* ..... 25  
*Sebacina* ..... 198  
 Sedges ..... 166  
 Seed coat ..... 276  
   germination ..... 208  
   -borne pathogens ..... 348  
*Seiridium cardinale* ..... 286  
*Septoria* ..... 245  
*Serapias* ..... 209, 212  
*Sesbania* ..... 59  
*Shigella sonnei* ..... 328  
 Shoot growth increases ..... 82  
 Smuts ..... 246  
 Soil-borne spores ..... 157  
   disturbance ..... 112, 168, 174  
   -dwelling arthropods ..... 160  
   hyphae ..... 117, 159, 164  
   nutrient availability ..... 140  
   organic matter ..... 115  
 Solanaceae ..... 325  
 Sonication ..... 321  
 South Africa ..... 7, 47, 50-1, 68, 295,  
     297-8, 300  
 South America ..... 50-1, 63, 294-5, 338  
 South East Asia ..... 295  
 Southern Hemisphere ..... 50, 287, 293  
*Sowerbaea multicaulis* ..... 324  
 Spatial variability ..... 220  
 Species conservation ..... 344  
 Specificity ..... 83, 118  
*Sphagnum* ..... 228  
*Spiranthes sinensis* ..... 200  
 Spores ..... 112, 158-9, 168  
 Sporocarps ..... 117  
*Stangeria* ..... 47  
 Stangeriaceae ..... 47  
*Staphylococcus* ..... 311  
   *aureus* ..... 328  
   *epidermidis* ..... 328  
 Starch reserves ..... 49  
 Steam pasteurisation ..... 354  
 Stereales ..... 243  
*Streptococcus pyogenes* ..... 328  
*Streptomyces* ..... 80, 242, 249  
 Stylidiaceae ..... 107, 325  
*Stylidium scabridum* ..... 325  
 Sub-culturing ..... 308  
 Succession ..... 132, 174  
 Swartziaeae ..... 58

- Symbioses..... 5, 68, 276  
 Symbiotic associations ..... 218  
     seed germination ..... 212  
*Symonanthus bancroftii* ..... 325  
*Synchytrium endobioticum*..... 254  
 Synertrol Oil ..... 360  
*Tanacetum vulgare* ..... 322  
 Taphrinales..... 243, 245  
 Tarsonemid mites..... 330  
 Tasmanian bluegum ..... 287  
 Telephoraceae ..... 210  
 Teliomycetes..... 243, 246  
 Temperature..... 342  
*Tetradthea deltoidea* ..... 325  
 Thailand ..... 296  
 Thanatephorus..... 198, 211, 214, 224  
*Thelephora tomentella* ..... 200  
*Thelymitra manginii*..... 214, 217-8  
 Thermosterilisation ..... 321  
 Thraustochytriales..... 243  
*Tipularia* ..... 202, 211  
 Tissue culture..... Ch 12  
 Topsoil removal..... 174  
 Topsoil ..... 162, 174  
 Toxic metal pollution ..... 121  
*Trametes* ..... 210  
 Translocation ..... 213  
*Trema* ..... 60  
 Tremandraceae ..... 325  
*Trichoderma* ..... 92, 272, 310  
*Trichophyton mentagrophytes*..... 328  
 Trophic ..... 245  
*Trymalium ledifolium*..... 362  
*Tsuga heterophylla*..... 137  
*Tuber melanosporum* ..... 129  
*Tulasnella* ..... 198  
     *calospora* ..... 202  
*Uapaca*..... 108, 128  
 Ulmaceae..... 53, 60  
 United States..... 21, 91, 252  
 Unopened flower buds..... 317  
 Uredinales..... 243, 245, 248, 254, 272  
 Uruguay ..... 296  
 Ustilaginales... 243, 245, 248, 254, 272  
*Ustilago maydis*..... 258  
 Ustomycetes ..... 243, 246  
 UV light ..... 90  
 Vaccinoideae ..... 228  
*Vaccinium*..... 232  
 Vascular wilt..... 249, 254  
 Venezuela..... 295  
*Verticillium* ..... 254, 274  
*Verticordia albidia*..... 324  
     *jamesonii* ..... 324  
     sp..... 324  
 Vesicles ..... 55, 159  
*Villarsia calthifolia*..... 324  
*Viminaria*..... 66  
 Wash-down stations..... 357  
 Waterlogging ..... 115, 162  
 Weeds..... 166  
*Woollisia pungens* ..... 233  
*Wurmbea tubulosa*..... 324  
*Xanthomonas* ..... 242  
     *campestris* ..... 314  
*Xanthorrhoea australis*..... 360  
 Xanthorrhoeaceae ..... 345  
*Xerotus javanicus*..... 211  
*Xylella* ..... 242  
 Yeasts..... 310, 328  
*Yoania australis*..... 211  
*Zamia*..... 47  
     *furfuracea* ..... 49  
     *pumila* ..... 49  
 Zamiaceae..... 47  
 Zoosporic fungi..... 272  
 Zululand..... 296  
 Zygomycetes..... 107, 151, 155, 243  
 Zygomycota..... 243, 244