

1 Table S3 Genomes for standard phylogenetic analyses

- 2 *Aaosphaeria arxii* CBS 175.79
- 3 *Acanthamoeba castellanii* str. Neff
- 4 *Acanthisitta chloris*
- 5 *Achlya hypogyna*
- 6 *Acidianus hospitalis* W1
- 7 *Acidilobus saccharovorans* 345-15
- 8 *Acidomyces richmondensis*
- 9 *Aciduliprofundum boonei* T469
- 10 *Acremonium alcalophilum*
- 11 *Acromyrmex echinaior*
- 12 *Acropora digitifera*
- 13 *Acyrtosiphon pisum*
- 14 *Acytostelium subglobosum*
- 15 *Aedes aegypti*
- 16 *Aegilops tauschii*
- 17 *Aeropyrum pernix* K1
- 18 *Agaricostilbum hyphaenes*
- 19 *Agaricus bisporus* var. *bisporus* H97
- 20 *Agaricus bisporus* var. *burnettii* JB137-S8
- 21 *Agrobacterium fabrum* str. C58
- 22 *Ailuropoda melanoleuca*
- 23 *Ajellomyces capsulatus* NAM1
- 24 *Ajellomyces dermatitidis* ATCC 18188
- 25 *Ajellomyces dermatitidis* ATCC 26199
- 26 *Ajellomyces dermatitidis* ER-3
- 27 *Ajellomyces dermatitidis* SLH14081
- 28 *Albugo laibachii*
- 29 *Alligator mississippiensis*
- 30 *Alligator sinensis*
- 31 *Allomyces macrogynus* atcc 38327

- 32 *Alternaria brassicicola*
- 33 *Amanita muscaria* Koide BX008
- 34 *Amanita thiersii* Skay4041
- 35 *Amborella trichopoda*
- 36 *Amniculicola lignicola* CBS 123094
- 37 *Amorphotheca resinae*
- 38 *Amphimedon queenslandica*
- 39 *Amycolatopsis mediterranei* U32
- 40 *Anas platyrhynchos*
- 41 *Angomonas deanei*
- 42 *Anolis carolinensis*
- 43 *Anopheles darlingi*
- 44 *Anopheles gambiae*
- 45 *Anthostoma avocetta* NRRL 3190
- 46 *Antonospora locustae* HM-2013
- 47 *Antrodia sinuosa*
- 48 *Apaloderma vittatum*
- 49 *Aphanomyces astaci*
- 50 *Aphanomyces invadans*
- 51 *Apiospora montagnei* NRRL 25634
- 52 *Apis dorsata*
- 53 *Apis florea*
- 54 *Apis mellifera*
- 55 *Aplanochytrium kerguelense* PBS07
- 56 *Aplosporella prunicola* CBS 121167
- 57 *Aplysia californica*
- 58 *Aptenodytes forsteri*
- 59 *Aquifex aeolicus* VF5
- 60 *Aquilegia coerulea*
- 61 *Arabidopsis halleri*
- 62 *Arabidopsis lyrata*

- 63 *Arabidopsis thaliana*
- 64 *Arachis duranensis*
- 65 *Arachis ipaensis*
- 66 *Archaeoglobus fulgidus* DSM 4304
- 67 archaeon Loki
- 68 *Armillaria mellea* DSM 3731
- 69 *Arthrobotrys oligospora* ATCC 24927
- 70 *Arthroderma benhamiae* CBS 112371
- 71 *Artomyces pyxidatus*
- 72 *Ascaris suum*
- 73 *Ascobolus immersus* RN42
- 74 *Ascocoryne sarcoides* NRRL50072
- 75 *Ascoidea rubescens* NRRL Y17699
- 76 *Ashbya gossypii* ATCC 10895
- 77 *Aspergillus acidus*
- 78 *Aspergillus aculeatus* ATCC 16872
- 79 *Aspergillus brasiliensis*
- 80 *Aspergillus carbonarius* ITEM 5010
- 81 *Aspergillus clavatus* NRRL 1
- 82 *Aspergillus flavus* NRRL3357
- 83 *Aspergillus fumigatus* A1163
- 84 *Aspergillus fumigatus* Af293
- 85 *Aspergillus glaucus*
- 86 *Aspergillus kawachii* IFO 4308
- 87 *Aspergillus nidulans*
- 88 *Aspergillus niger* ATCC 1015
- 89 *Aspergillus niger* CBS 513.88
- 90 *Aspergillus niger* NRRL3
- 91 *Aspergillus oryzae* RIB40
- 92 *Aspergillus sydowii*
- 93 *Aspergillus terreus* FGSC A1156

- 94 *Aspergillus terreus* NIH2624
- 95 *Aspergillus tubingensis*
- 96 *Aspergillus versicolor*
- 97 *Aspergillus wentii*
- 98 *Aspergillus zonatus*
- 99 *Asterochloris* sp. Cgr_DA1phos
- 100 *Astyanax mexicanus*
- 101 *Atractiellales* sp. 95
- 102 *Atta cephalotes*
- 103 *Aulographum hederæ*
- 104 *Aurantiochytrium limacinum*
- 105 *Aureobasidium pullulans*
- 106 *Aureobasidium pullulans* var. *melanogenum*
- 107 *Aureobasidium pullulans* var. *namibiae*
- 108 *Aureobasidium pullulans* var. *pullulans* EXF-150
- 109 *Aureobasidium pullulans* var. *subglaciale* EXF-2481
- 110 *Aureococcus anophagefferens*
- 111 *Auricularia subglabra*
- 112 *Azadirachta indica*
- 113 *Azotobacter vinelandii* CA
- 114 *Azotobacter vinelandii* DJ
- 115 *Babesia bovis*
- 116 *Babesia equi* strain WA
- 117 *Babesia microti*
- 118 *Babjeviella inositovora* NRRL Y-12698
- 119 *Bacillus anthracis* str. Ames
- 120 *Bacillus anthracis* str. Sterne
- 121 *Bacillus cereus* ATCC 14579
- 122 *Bacillus subtilis* subsp. *subtilis* str. 168
- 123 *Bacillus thuringiensis* serovar *konkukian* str. 97-27
- 124 *Backusella circina* FSU 941

- 125 *Bacteroides thetaiotaomicron* VPI-5482
- 126 *Bactrocera cucurbitae*
- 127 *Bactrocera dorsalis*
- 128 *Balaenoptera acutorostrata scammoni*
- 129 *Balearica regulorum gibbericeps*
- 130 *Bathycoccus prasinus*
- 131 *Batrachochytrium dendrobatidis* JAM81
- 132 *Baudoinia compniacensis* UAMH 10762
- 133 *Beauveria bassiana* ARSEF 2860
- 134 *Beta vulgaris* subsp. *vulgaris*
- 135 *Bifidobacterium longum* NCC2705
- 136 *Bigelowiella natans*
- 137 *Bison bison bison*
- 138 *Bjerkandera adusta*
- 139 *Blastocladiella emersonii*
- 140 *Blastocystis hominis*
- 141 *Blumeria graminis*
- 142 *Bodo saltans*
- 143 *Boechera stricta*
- 144 *Boletus edulis*
- 145 *Bombus impatiens*
- 146 *Bombus terrestris*
- 147 *Bombyx mori*
- 148 *Bordetella pertussis* Tohama I
- 149 *Borrelia burgdorferi* B31
- 150 *Bos grunniens*
- 151 *Bos mutus*
- 152 *Bos taurus*
- 153 *Botryobasidium botryosum*
- 154 *Botryosphaeria dothidea*
- 155 *Botryotinia fuckeliana*

- 156 *Botrytis cinerea* T4
- 157 *Brachypodium distachyon*
- 158 *Bradyrhizobium diazoefficiens* USDA 110
- 159 *Branchiostoma floridae*
- 160 *Brassica oleracea* var. *oleracea*
- 161 *Brassica rapa*
- 162 *Brugia malayi*
- 163 *Bubalus bubalis*
- 164 *Buceros rhinoceros silvestris*
- 165 *Burkholderia cenocepacia*
- 166 *Burkholderia dolosa*
- 167 *Burkholderia pseudomallei* K96243
- 168 *Bursaphelenchus xylophilus*
- 169 *Cadophora* sp. DSE1049
- 170 *Caenorhabditis brenneri*
- 171 *Caenorhabditis briggsae*
- 172 *Caenorhabditis elegans*
- 173 *Caenorhabditis japonica*
- 174 *Caenorhabditis remanei*
- 175 *Cajanus cajan*
- 176 *Calcarisporiella thermophila*
- 177 *Caldisphaera lagunensis* DSM 15908
- 178 *Caldivirga maquilingensis* IC-167
- 179 *Calliarthron tuberculosum*
- 180 *Callithrix jacchus*
- 181 *Callorhinchus milii*
- 182 *Calocera cornea*
- 183 *Calocera viscosa*
- 184 *Calypte anna*
- 185 *Camelina sativa*
- 186 *Camelus bactrianus*

187 *Camelus dromedarius*
188 *Camelus ferus*
189 *Camponotus floridanus*
190 *Campylobacter jejuni* subsp. *jejuni* NCTC 11168 = ATCC 700819
191 *Candida albicans* sc5314
192 *Candida albicans* WO-1
193 *Candida arabinof fermentans* NRRL YB-2248
194 *Candida caseinolytica* NRRL Y-17796
195 *Candida dubliniensis* CD36
196 *Candida glabrata*
197 *Candida guilliermondii*
198 *Candida lusitaniae*
199 *Candida orthopsilosis*
200 *Candida parapsilosis*
201 *Candida tanzawaensis* NRRL Y-17324
202 *Candida tenuis* NRRL Y-1498
203 *Candida tropicalis*
204 *Candidatus Caldiarchaeum subterraneum*
205 *Candidatus Korarchaeum cryptofilum* OPF8
206 *Candidatus Micrarchaeum acidiphilum* ARMAN-2
207 *Candidatus Nanosalina* sp. J07AB43
208 *Candidatus Nanosalinarum* sp. J07AB56
209 *Candidatus Nitrosopelagicus brevis*
210 *Candidatus Parvarchaeum acidophilus*
211 *Canis familiaris*
212 *Capitella teleta*
213 *Capra hircus*
214 *Caprimulgus carolinensis*
215 *Capronia coronata* CBS 617.96
216 *Capronia epimyces* CBS 606.96
217 *Capsaspora owczarzaki*

218 *Capsella grandiflora*
219 *Capsella rubella*
220 *Capsicum annuum*
221 *Capsicum annuum* L.
222 *Capsicum annuum* var. *glabriusculum*
223 *Cariama cristata*
224 *Carica papaya*
225 *Castanea mollissima*
226 *Catenaria anguillulae* PL171
227 *Catharanthus roseus*
228 *Cathartes aura*
229 *Caulobacter crescentus* CB15
230 *Cavia porcellus*
231 *Cenarchaeum symbiosum* A
232 *Cenococcum geophilum* 1.58
233 *Cerapachys biroi*
234 *Ceratitis capitata*
235 *Ceratotherium simum*
236 *Cercospora zeae-maydis*
237 *Ceriporiopsis subvermispora* B
238 *Cerrena unicolor*
239 *Chaetomium globosum*
240 *Chaetomium thermophilum*
241 *Chaetura pelagica*
242 *Chalara longipes* BDJ
243 *Charadrius vociferus*
244 *Chelonia mydas*
245 *Chinchilla lanigera*
246 *Chlamydia trachomatis* 434_Bu
247 *Chlamydomonas reinhardtii*
248 *Chlamydophila pneumoniae* CWL029

- 249 *Chlamydotis undulata macqueenii*
- 250 *Chlorella variabilis* NC64A
- 251 *Chlorella vulgaris* C-169
- 252 *Chlorobium tepidum* TLS
- 253 *Chlorocephus sabaeus*
- 254 *Chloroflexus aurantiacus* J-10-fl
- 255 *Choiromyces venosus* 120613-1
- 256 *Choloepus hoffmanni*
- 257 *Chondrus crispus*
- 258 *Chromera velia* CCMP2878
- 259 *Chrysemys picta bellii*
- 260 *Chrysochloris asiatica*
- 261 *Cicer arietinum*
- 262 *Cicer arietinum* L.
- 263 *Ciona intestinalis*
- 264 *Ciona savignyi*
- 265 *Citrullus lanatus*
- 266 *Citrullus lanatus* subsp. *Vulgaris*
- 267 *Citrus clementina*
- 268 *Citrus sinensis*
- 269 *Cladonia grayi*
- 270 *Cladophialophora carrionii* CBS 160.54
- 271 *Cladophialophora psammophila* CBS 110553
- 272 *Cladophialophora yegresii* CBS 114405
- 273 *Cladosporium fulvum*
- 274 *Clonorchis sinensis*
- 275 *Clostridium acetobutylicum* ATCC 824
- 276 *Clostridium botulinum* A str. Hall
- 277 *Clostridium difficile* 630
- 278 *Coccidioides immitis* H538.4
- 279 *Coccidioides immitis* RMSCC 2394

280 *Coccidioides immitis* RMSCC 3703
281 *Coccidioides immitis* RS
282 *Coccidioides posadasii* C735 delta SOWgp
283 *Coccidioides posadasii* RMSCC 3488
284 *Coccidioides posadasii* Silveira
285 *Cochliobolus carbonum* 26-R-13
286 *Cochliobolus heterostrophus* C4
287 *Cochliobolus heterostrophus* C5
288 *Cochliobolus lunatus* m118
289 *Cochliobolus miyabeanus* ATCC 44560
290 *Cochliobolus sativus* ND90Pr
291 *Cochliobolus victoriae* FI3
292 *Coemansia reversa* NRRL 1564
293 *Colius striatus*
294 *Colletotrichum gloeosporioides* Nara gc5
295 *Colletotrichum higginsianum* IMI 349063
296 *Colletotrichum orbiculare* MAFF 240422
297 *Columba livia*
298 *Condylura cristata*
299 *Conidiobolus coronatus* NRRL 28638
300 *Coniochaeta ligniaria*
301 *Coniophora puteana*
302 *Coniosporium apollinis* CBS 100218
303 *Coprinopsis cinerea*
304 *Coprinopsis cinerea* AmutBmut pab1-1
305 *Cordyceps militaris* CM01
306 *Cortinarius glaucopus* AT 2004 276
307 *Corvus brachyrhynchos*
308 *Corvus cornix cornix*
309 *Corynebacterium glutamicum* ATCC 13032
310 *Corynespora cassiicola* Philippines

- 311 *Coxiella burnetii* RSA 493
- 312 *Crassostrea gigas*
- 313 *Cricetulus griseus*
- 314 *Cronartium quercuum* f. sp. fusiforme G11
- 315 *Cryphonectria parasitica* EP155
- 316 *Cryptococcus gattii* R265
- 317 *Cryptococcus gattii* WM276
- 318 *Cryptococcus neoformans* var. *grubii* H99
- 319 *Cryptococcus neoformans* var. *neoformans* B-3501A
- 320 *Cryptococcus neoformans* var. *neoformans* JEC21
- 321 *Cryptococcus vishniacii*
- 322 *Cryptosporidium hominis*
- 323 *Cryptosporidium muris*
- 324 *Cryptosporidium parvum*
- 325 *Cuculus canorus*
- 326 *Cucumis melo* L.
- 327 *Cucumis sativus*
- 328 *Cucurbitaria berberidis* CBS 394.84
- 329 *Culex quinquefasciatus*
- 330 *Cyanidioschyzon merolae*
- 331 *Cyanophora paradoxa*
- 332 *Cyberlindnera jadinii* NRRL Y-1542
- 333 *Cylindrobasidium torrendii*
- 334 *Cynoglossus semilaevis*
- 335 *Dacryopinax* sp. DJM-731 SS1
- 336 *Daedalea quercina*
- 337 *Daldinia eschscholzii*
- 338 *Danaus plexippus*
- 339 *Danio rerio*
- 340 *Daphnia pulex*
- 341 *Dasypus novemcinctus*

- 342 *Debaryomyces hansenii*
- 343 *Deinococcus radiodurans* R1
- 344 *Dekkera bruxellensis* CBS 2499
- 345 *Delitschia confertaspora* ATCC 74209
- 346 *Dendroctonus ponderosae*
- 347 *Dendrothele bispora* CBS 962.96
- 348 *Desulfovibrio vulgaris* str. Hildenborough
- 349 *Desulfurococcus fermentans* DSM 16532
- 350 *Diaphorina citri*
- 351 *Dichomitus squalens*
- 352 *Dictyoglomus turgidum* DSM 6724
- 353 *Dictyostelium discoideum*
- 354 *Dictyostelium fasciculatum*
- 355 *Dictyostelium purpureum*
- 356 *Didymella exigua* CBS 183.55
- 357 *Dioszegia cryoxerica*
- 358 *Dipodomys ordii*
- 359 *Dissoconium aciculare*
- 360 *Dothidotthia symphoricarpi*
- 361 *Dothistroma septosporum* NZE10
- 362 *Drosophila ananassae*
- 363 *Drosophila erecta*
- 364 *Drosophila grimshawi*
- 365 *Drosophila melanogaster*
- 366 *Drosophila mojavensis*
- 367 *Drosophila persimilis*
- 368 *Drosophila pseudoobscura*
- 369 *Drosophila sechellia*
- 370 *Drosophila simulans*
- 371 *Drosophila virilis*
- 372 *Drosophila willistoni*

- 373 *Drosophila yakuba*
- 374 *Echinococcus granulosus*
- 375 *Echinococcus multilocularis*
- 376 *Echinops telfairi*
- 377 *Ectocarpus siliculosus*
- 378 *Edhazardia aedis*
- 379 *Egretta garzetta*
- 380 *Eimeria acervulina*
- 381 *Eimeria brunetti*
- 382 *Eimeria maxima*
- 383 *Eimeria mitis*
- 384 *Eimeria necatrix*
- 385 *Eimeria praecox*
- 386 *Eimeria tenella*
- 387 *Elaeis guineensis*
- 388 *Elephantulus edwardii*
- 389 *Emiliana huxleyi* CCMP1516
- 390 *Encephalitozoon cuniculi* GB-M1
- 391 *Encephalitozoon hellem* ATCC 50504
- 392 *Encephalitozoon intestinalis* ATCC 50506
- 393 *Encephalitozoon romaleae* SJ-2008
- 394 *Entamoeba dispar*
- 395 *Entamoeba histolytica*
- 396 *Entamoeba histolytica* KU27
- 397 *Entamoeba invadens*
- 398 *Entamoeba nuttalli*
- 399 *Enterobacter cloacae* subsp. *cloacae* ATCC 13047
- 400 *Enterococcus faecalis* V583
- 401 *Enterocytozoon bieneusi* H348
- 402 *Eptesicus fuscus*
- 403 *Equus caballus*

404 *Equus przewalskii*
405 *Eremothecium cymbalariae*
406 *Erinaceus europaeus*
407 *Escherichia coli* IAI39
408 *Escherichia coli* O104 H4 str. 2011C-3493
409 *Escherichia coli* O157 H7 str. Sakai
410 *Escherichia coli* O83 H1 str. NRG 857C
411 *Escherichia coli* str. K-12 substr. MG1655
412 *Escherichia coli* UMN026
413 *Esox lucius*
414 *Eucalyptus grandis*
415 *Eurotium rubrum*
416 *Eurypyga helias*
417 *Eutrema parvulum*
418 *Eutrema salsugineum*
419 *Eutypa lata* UCREL1
420 *Exidia glandulosa*
421 *Exobasidium vaccinii* MPITM
422 *Exophiala aquamarina* CBS 119918
423 *Exophiala dermatitidis*
424 *Falco cherrug*
425 *Falco peregrinus*
426 *Felis catus*
427 *Ferroglobus placidus* DSM 10642
428 *Ferroplasma acidarmanus* fer1
429 *Fervidicoccus fontis* Kam940
430 *Fibroporia radiculosa* TFFH 294
431 *Fibulorhizoctonia* sp. CBS 109695
432 *Ficedula albicollis*
433 *Fistulina hepatica*
434 *Flavobacterium psychrophilum* JIP02_86

435 *Fomitiporia mediterranea*
436 *Fomitopsis pinicola* FP-58527 SS1
437 *Fonticula alba*
438 *Fopius arisanus*
439 *Fragaria vesca*
440 *Fragilariopsis cylindrus*
441 *Francisella tularensis* subsp. *tularensis* SCHU S4
442 *Fukomys damarensis*
443 *Fulmarus glacialis*
444 *Fusarium fujikuroi*
445 *Fusarium fujikuroi* IMI 58289
446 *Fusarium graminearum* PH-1
447 *Fusarium oxysporum* f. sp. *melonis*
448 *Fusarium oxysporum* Fo47
449 *Fusarium oxysporum* FOL 4287
450 *Fusarium oxysporum* NRRL 32931
451 *Fusarium pseudograminearum* CS3096
452 *Fusarium verticillioides* 7600
453 *Fusobacterium nucleatum* subsp. *nucleatum* ATCC 25586
454 *Gadus morhua*
455 *Gaeumannomyces graminis* var. *tritici* R3-111a-1
456 *Galdieria sulphuraria*
457 *Galeopterus variegatus*
458 *Galerina marginata*
459 *Gallus gallus*
460 *Ganoderma* sp. 10597 SS1
461 *Gasterosteus aculeatus*
462 *Gavia stellata*
463 *Genlisea aurea*
464 *Geobacter sulfurreducens* PCA
465 *Geomyces destructans*

466 *Geospiza fortis*
467 *Giardia intestinalis*
468 *Giardia lamblia*
469 *Gibberella zeae*
470 *Glarea lozoyensis* ATCC 20868
471 *Gloeobacter violaceus* PCC 7421
472 *Gloeophyllum trabeum*
473 *Glomerella acutata*
474 *Glomerella cingulata*
475 *Glomerella graminicola*
476 *Glycine max*
477 *Gonapodya prolifera*
478 *Gorilla gorilla*
479 *Gossypium hirsutum*
480 *Gossypium raimondii*
481 *Gregarina niphandrodes*
482 *Grosmannia clavigera* kw1407
483 *Guillardia theta*
484 *Gymnascella aurantiaca*
485 *Gymnascella citrina*
486 *Gymnopilus chrysopellus* PR-1187
487 *Gymnopus luxurians*
488 *Gyrodon lividus* BX
489 *Haemophilus influenzae* Rd KW20
490 *Halalkalicoccus jeotgali* B3
491 *Haliaeetus albicilla*
492 *Haliaeetus leucocephalus*
493 *Haloarcula hispanica* ATCC 33960
494 *Halobacterium salinarum* R1
495 *Haloferax mediterranei* ATCC 33500
496 *Halogeometricum borinquense* DSM 11551

497 Halomicrobium mukohataei DSM 12286
498 Halopiger xanaduensis SH-6
499 Haloquadratum walsbyi DSM 16790
500 Halorhabdus utahensis DSM 12940
501 Halorubrum lacusprofundi ATCC 49239
502 Haloterrigena turkmenica DSM 5511
503 Halovivax ruber XH-70
504 Hammondia hammondi
505 Hanseniaspora valbyensis NRRL Y-1626
506 Haplochromis burtoni
507 Harpegnathos saltator
508 Hebeloma cylindrosporum h7
509 Helicobacter pylori 26695
510 Heliconius melpomene
511 Helobdella robusta
512 Heterobasidion annosum
513 Heterocephalus glaber
514 Heterogastrium pycnidioideum ATCC MYA-4631
515 Histoplasma capsulatum
516 Homo sapiens
517 Homolaphlyctis polyrhiza JEL 142
518 Hordeum vulgare
519 Hyaloperonospora arabidopsidis
520 Hydnum ericetorum
521 Hydra magnipapillata
522 Hydra vulgaris
523 Hymenolepis microstoma
524 Hyperthermus butylicus DSM 5456
525 Hyphochytrium catenoides
526 Hyphochytrium catenoides old
527 Hypholoma sublateritium

528 *Hyphopichia burtonii* NRRL Y-1933
529 *Hypoxylon* sp. CI-4A
530 *Hypoxylon* sp. CO27-5
531 *Hypoxylon* sp. EC38
532 *Hysterium pulicare*
533 *Ichthyophthirius multifiliis*
534 *Ictidomys tridecemlineatus*
535 *Ignicoccus hospitalis* KIN4_I
536 *Ignisphaera aggregans* DSM 17230
537 *Ilyonectria radicola*
538 *Ixodes scapularis*
539 *Jaapia argillacea*
540 *Jaculus jaculus*
541 *Jatropha curcas*
542 *Karstenula rhodostoma* CBS 690.94
543 *Kazachstania africana*
544 *Kazachstania naganishii*
545 *Ketogulonicigenium vulgare* WSH-001
546 *Klebsiella pneumoniae* subsp. *pneumoniae* HS11286
547 *Klebsormidium flaccidum*
548 *Kluyveromyces lactis*
549 *Komagataella pastoris*
550 *Laccaria amethystina* LaAM-08-1
551 *Laccaria bicolor*
552 *Lachancea kluyveri*
553 *Lachancea thermotolerans*
554 *Lachancea waltii*
555 *Lactobacillus acidophilus* NCFM
556 *Lactobacillus plantarum* WCFS1
557 *Lactobacillus salivarius* UCC118
558 *Lactococcus lactis* subsp. *lactis* Il1403

559 *Laetiporus sulphureus* var. *sulphureus*
560 *Larimichthys crocea*
561 *Latimeria chalumnae*
562 *Leersia perrieri*
563 *Leishmania braziliensis*
564 *Leishmania donovani*
565 *Leishmania infantum*
566 *Leishmania major*
567 *Leishmania mexicana*
568 *Leishmania panamensis*
569 *Lentinus tigrinus*
570 *Lentinus tigrinus* ALCF2SS1-6
571 *Lentinus tigrinus* ALCF2SS1-7
572 *Lentithecium fluviatile*
573 *Lepidopterella palustris*
574 *Lepisosteus oculatus*
575 *Leptonychotes weddellii*
576 *Leptosomus discolor*
577 *Leptosphaeria maculans*
578 *Leucoagaricus gongylophorus* Ac12
579 *Leucogyrophana mollusca*
580 *Lichtheimia corymbifera*
581 *Lichtheimia hyalospora*
582 *Linum usitatissimum*
583 *Lipomyces starkeyi* NRRL Y-11557
584 *Lipotes vexillifer*
585 *Listeria monocytogenes* EGD-e
586 *Loa loa*
587 *Lodderomyces elongisporus*
588 *Lophiostoma macrostomum*
589 *Lophium mytilinum* CBS 269.34

590 *Lottia gigantea*
591 *Lotus japonicus*
592 *Loxodonta africana*
593 *Lytechinus variegatus*
594 *Macaca fascicularis*
595 *Macaca mulatta*
596 *Macrolepiota fuliginosa*
597 *Macrophomina phaseolina* MS6
598 *Macropus eugenii*
599 *Macroventuria anomochaeta* CBS 525.71
600 *Magnaporthe grisea*
601 *Magnaporthe poae* ATCC 64411
602 *Malassezia globosa*
603 *Malassezia sympodialis* ATCC 42132
604 *Malbranchea cinnamomea*
605 *Malus domestica*
606 *Manacus vitellinus*
607 *Manihot esculenta*
608 *Mastigamoeba balamuthi*
609 *Maylandia zebra*
610 *Medicago truncatula*
611 *Megachile rotundata*
612 *Megaselia scalaris*
613 *Melampsora laricis-populina*
614 *Melanconium* sp. NRRL 54901
615 *Melanomma pulvis-pyrius*
616 *Meleagris gallopavo*
617 *Meliniomyces bicolor* E
618 *Meliniomyces variabilis* F
619 *Melitaea cinxia*
620 *Melopsittacus undulatus*

621 *Merops nubicus*
622 *Mesitornis unicolor*
623 *Mesocricetus auratus*
624 *Metallosphaera sedula* DSM 5348
625 *Metarhizium acridum* CQMa 102
626 *Metarhizium robertsii*
627 *Metaseiulus occidentalis*
628 *Methanobacterium formicicum* DSM 3637
629 *Methanobrevibacter ruminantium* M1
630 *Methanobrevibacter* sp. AbM4
631 *Methanocaldococcus fervens* AG86
632 *Methanocella conradii* HZ254
633 *Methanococcoides burtonii* DSM 6242
634 *Methanococcus maripaludis* S2
635 *Methanocorpusculum labreanum* Z
636 *Methanoculleus bourgensis* MS2
637 *Methanofollis liminatans* DSM 4140
638 *Methanohalobium evestigatum* Z-7303
639 *Methanohalophilus mahii* DSM 5219
640 *Methanolobus psychrophilus* R15
641 *Methanomethylovorans hollandica* DSM 15978
642 *Methanoplanus limicola* DSM 2279
643 *Methanopyrus kandleri* AV19
644 *Methanoregula formicicum* SMSP
645 *Methanosaeta thermophila* PT
646 *Methanosalsum zhilinae* DSM 4017
647 *Methanosarcina acetivorans* C2A
648 *Methanosphaera stadtmanae* DSM 3091
649 *Methanosphaerula palustris* E1-9c
650 *Methanospirillum hungatei* JF-1
651 *Methanothermobacter marburgensis* str. Marburg

652 *Methanothermococcus okinawensis* IH1
653 *Methanothermus fervidus* DSM 2088
654 *Methanotorris igneus* Kol 5
655 *Metschnikowia bicuspidata* var. *bicuspidata* NRRL YB-4993
656 *Meyerozyma guilliermondii*
657 *Microbotryum violaceum*
658 *Microcebus murinus*
659 *Micromonas pusilla* CCMP1545
660 *Micromonas pusilla* RCC299
661 *Microplitis demolitor*
662 *Microsporum canis*
663 *Microsporum canis* CBS 113480
664 *Microsporum gypseum*
665 *Microtus ochrogaster*
666 *Millerozyma farinosa*
667 *Mimulus guttatus*
668 *Mixia osmundae* IAM 14324
669 *Mnemiopsis leidyi*
670 *Monacrosporium haptotylum* CBS 200.50
671 *Monascus purpureus*
672 *Monascus ruber* NRRL 1597
673 *Moniliophthora perniciosa* FA553
674 *Monocercomonoides* sp. PA
675 *Monodelphis domestica*
676 *Monosiga brevicollis*
677 *Moorella thermoacetica* ATCC 39073
678 *Morchella conica* CCBAS932
679 *Mortierella elongata*
680 *Mortierella verticillata* NRRL 6337
681 *Mucor circinelloides* f. *lusitanicus* CBS 277.49
682 *Mus musculus*

683 *Musa acuminata*
684 *Musca domestica*
685 *Mustela putorius furo*
686 *Myceliophthora fergusii*
687 *Myceliophthora sepedonium*
688 *Myceliophthora thermophila*
689 *Mycobacterium bovis* AF2122_97
690 *Mycobacterium leprae* TN
691 *Mycoplasma mycoides* subsp. *mycoides* SC str. PG1
692 *Mycosphaerella fijiensis*
693 *Mycosphaerella graminicola*
694 *Myotis brandtii*
695 *Myotis davidii*
696 *Myotis lucifugus*
697 *Myriangium duriaei* CBS 260.36
698 *Myriococcum thermophilum*
699 *Nadsonia fulvescens* var. *elongata* DSM 6958
700 *Naegleria fowleri*
701 *Naegleria gruberi*
702 *Naiadella fluitans* ATCC 64713
703 *Nannochloropsis gaditana*
704 *Nannospalax galili*
705 *Nanoarchaeum equitans* Kin4-M
706 *Nanorana parkeri*
707 *Nasonia vitripennis*
708 *Natrialba magadii* ATCC 43099
709 *Natrinema pellirubrum* DSM 15624
710 *Natronobacterium gregoryi* SP2
711 *Natronococcus occultus* SP4
712 *Natronomonas pharaonis* DSM 2160
713 *Naumovozya castellii*

714 *Naumovozya dairenensis*
715 *Nectria haematococca*
716 *Nelumbo nucifera*
717 *Nematocida parisii* ERTm1
718 *Nematocida parisii* ERTm3
719 *Nematocida* sp. 1 ERTm2
720 *Nematocida* sp. 1 ERTm6
721 *Nematostella vectensis*
722 *Neofusicoccum parvum* UCRNP2
723 *Neolamprologus brichardi*
724 *Neolentinus lepideus*
725 *Neosartorya fischeri* NRRL 181
726 *Neospora caninum*
727 *Nestor notabilis*
728 *Neurospora crassa* OR74A
729 *Neurospora discreta* FGSC 8579
730 *Neurospora tetrasperma* FGSC 2508
731 *Neurospora tetrasperma* FGSC 2509
732 *Nicotiana benthamiana*
733 *Nicotiana glauca*
734 *Nicotiana tomentosiformis*
735 *Nipponia nippon*
736 *Nitrosopumilus maritimus* SCM1
737 *Nomascus leucogenys*
738 *Nosema apis* BRL 01
739 *Nosema bombycis* CQ1
740 *Nosema ceranae* BRL01
741 *Notothenia coriiceps*
742 *Obba rivulosa*
743 *Ochotona princeps*
744 *Octodon degus*

745 *Oculimacula yallundae*
746 *Odobenus rosmarus*
747 *Ogataea angusta* NCYC 495 leu1.1
748 *Oidiodendron maius* Zn
749 *Oikopleura dioica*
750 *Omphalotus olearius*
751 *Onchocerca volvulus*
752 *Ophiobolus disseminans*
753 *Ophiostoma piceae* UAMH 11346
754 *Opisthocomus hoazin*
755 *Orcinus orca*
756 *Oreochromis niloticus*
757 *Ornithorhynchus anatinus*
758 *Orpinomyces* sp. C1A
759 *Orycteropus afer* *afer*
760 *Oryctolagus cuniculus*
761 *Oryza barthii*
762 *Oryza brachyantha*
763 *Oryza glaberrima*
764 *Oryza glumaepatula*
765 *Oryza meridionalis*
766 *Oryza nivara*
767 *Oryza punctata*
768 *Oryza rufipogon*
769 *Oryza sativa*
770 *Oryza sativa* Indica Group
771 *Oryzias latipes*
772 *Ostreococcus lucimarinus*
773 *Ostreococcus* sp. RCC809
774 *Ostreococcus tauri*
775 *Otolemur garnettii*

776 *Ovis aries*
777 *Oxytricha trifallax*
778 *Pachysolen tannophilus* NRRL Y-2460
779 *Pan paniscus*
780 *Pan troglodytes*
781 *Panicum hallii*
782 *Panicum virgatum*
783 *Panthera tigris altaica*
784 *Pantholops hodgsonii*
785 *Papio anubis*
786 *Paracoccidioides brasiliensis* Pb01
787 *Paracoccidioides brasiliensis* Pb03
788 *Paracoccidioides brasiliensis* Pb18
789 *Paramecium biaurelia*
790 *Paramecium caudatum*
791 *Paramecium multimicronucleatum*
792 *Paramecium primaurelia*
793 *Paramecium sexaurelia*
794 *Paramecium tetraurelia*
795 *Pararge aegeria*
796 *Parastagonospora nodorum* SN15
797 *Patellaria atrata*
798 *Patiria miniata*
799 *Paxillus involutus* ATCC 200175
800 *Paxillus rubicundulus* Ve08.2h10
801 *Pediculus humanus*
802 *Pelecanus crispus*
803 *Pelodiscus sinensis*
804 *Penicillium bilaiae* ATCC 20851
805 *Penicillium brevicompactum*
806 *Penicillium brevicompactum* AgRF18

807 *Penicillium canescens* ATCC 10419
808 *Penicillium chrysogenum*
809 *Penicillium chrysogenum* Wisconsin 54-1255
810 *Penicillium digitatum* PHI26
811 *Penicillium expansum* ATCC 24692
812 *Penicillium fellutanum* ATCC 48694
813 *Penicillium glabrum* DAOM 239074
814 *Penicillium janthinellum* ATCC 10455
815 *Penicillium lanosocoeruleum* ATCC 48919
816 *Penicillium oxalicum* 114-2
817 *Penicillium raistrickii* ATCC 10490
818 *Perkinsus marinus*
819 *Peromyscus maniculatus bairdii*
820 *Petromyzon marinus*
821 *Phaeoacremonium aleophilum* UCRPA7
822 *Phaeodactylum tricornutum*
823 *Phaeodactylum tricornutum* unmapped
824 *Phaeosphaeria nodorum*
825 *Phaethon lepturus*
826 *Phalacrocorax carbo*
827 *Phanerochaete carnosae* HHB-10118-Sp
828 *Phanerochaete chrysosporium*
829 *Phanerochaete chrysosporium* RP-78
830 *Phaseolus vulgaris*
831 *Phialophora europaea* CBS 101466
832 *Phlebia brevispora* HHB-7030 SS6
833 *Phlebiopsis gigantea*
834 *Phoenicopterus ruber*
835 *Phoenix dactylifera*
836 *Phycomyces blakesleeianus*
837 *Phyllostachys edulis*

838 *Physcomitrella patens*
839 *Physeter catodon*
840 *Phytophthora capsici*
841 *Phytophthora cinnamomi* var. *Cinnamomi*
842 *Phytophthora infestans* T30-4
843 *Phytophthora kernoviae*
844 *Phytophthora lateralis* MPF4
845 *Phytophthora parasitica*
846 *Phytophthora parasitica* P1569
847 *Phytophthora ramorum*
848 *Phytophthora sojae*
849 *Picea abies*
850 *Picea sitchensis*
851 *Pichia membranifaciens*
852 *Pichia pastoris*
853 *Pichia sorbitophila*
854 *Pichia stipitis*
855 *Picoides pubescens*
856 *Picrophilus torridus* DSM 9790
857 *Piedraia hortae*
858 *Piloderma croceum* F 1598
859 *Pinctada fucata*
860 *Pinus taeda*
861 *Piriformospora indica* DSM 11827
862 *Piromyces* sp. E2
863 *Pisolithus microcarpus* 441
864 *Pisolithus tinctorius* Marx 270
865 *Plasmodium berghei*
866 *Plasmodium chabaudi*
867 *Plasmodium cynomolgi*
868 *Plasmodium falciparum*

869 *Plasmodium inui*
870 *Plasmodium knowlesi*
871 *Plasmodium reichenowi*
872 *Plasmodium vinckei petteri*
873 *Plasmodium vinckei vinckei*
874 *Plasmodium vivax*
875 *Plasmodium yoelii*
876 *Plenodomus tracheiphilus* IPT5
877 *Pleomassaria siparia*
878 *Pleurotus ostreatus* PC15
879 *Pleurotus ostreatus* PC9
880 *Plicaturopsis crispa*
881 *Plutella xylostella*
882 *Pneumocystis jirovecii*
883 *Pneumocystis murina* B123
884 *Podiceps cristatus*
885 *Podospora anserina*
886 *Podospora anserina* S mat+
887 *Poecilia formosa*
888 *Poecilia reticulata*
889 *Polychaeton citri*
890 *Polyporus arcularius*
891 *Polysphondylium pallidum*
892 *Pongo abelii*
893 *Populus euphratica*
894 *Populus trichocarpa*
895 *Porphyridium purpureum*
896 *Postia placenta* MAD 698-R
897 *Postia placenta* MAD-698-R-SB12
898 *Primula veris*
899 *Pristionchus pacificus*

900 *Procavia capensis*
901 *Prunus mume*
902 *Prunus persica*
903 *Pseudo-nitzschia multiseriis*
904 *Pseudomonas aeruginosa* PAO1
905 *Pseudopocetes humilis*
906 *Pseudozyma antarctica* T-34
907 *Pseudozyma brasiliensis*
908 *Pseudozyma flocculosa*
909 *Pseudozyma hubeiensis* SY62
910 *Pterocles gutturalis*
911 *Pteropus alecto*
912 *Pteropus vampyrus*
913 *Puccinia graminis*
914 *Puccinia graminis* f. sp. *tritici* 04KEN156_4
915 *Puccinia striiformis*
916 *Puccinia striiformis* f. sp. *tritici* PST-130
917 *Puccinia triticina*
918 *Punctularia strigosozonata*
919 *Pundamilia nyererei*
920 *Pycnoporus coccineus*
921 *Pycnoporus coccineus* BRFM310
922 *Pygoscelis adeliae*
923 *Pyrenophora teres* f. *teres*
924 *Pyrenophora tritici-repentis*
925 *Pyrobaculum arsenaticum* DSM 13514
926 *Pyrococcus yayanosii* CH1
927 *Pyrolobus fumarii* 1A
928 *Pyronema confluens*
929 *Pyronema confluens* CBS100304
930 *Pyropia yezoensis*

- 931 *Pyrus x bretschneideri*
- 932 *Pythium aphanidermatum* DAOM BR444
- 933 *Pythium arrhenomanes* ATCC 12531
- 934 *Pythium irregulare* DAOM BR486
- 935 *Pythium iwayamai* DAOM BR242034
- 936 *Pythium ultimum*
- 937 *Pythium ultimum* var. *sporangiiferum* BR650
- 938 *Pythium vexans* DAOM BR484
- 939 *Python bivittatus*
- 940 *Ramaria acris* UT-36052-T
- 941 *Rasamsonia byssochlamydoides*
- 942 *Rattus norvegicus*
- 943 *Reticulomyxa filosa*
- 944 *Rhinopithecus roxellana*
- 945 *Rhipicephalus pulchellus*
- 946 *Rhizoctonia solani* AG-1 IB
- 947 *Rhizomucor miehei*
- 948 *Rhizomucor pusillus*
- 949 *Rhizophagus irregularis* DAOM 181602
- 950 *Rhizopogon vinicolor* AM-OR11-026
- 951 *Rhizopus delemar* RA 99-880
- 952 *Rhizopus microsporus* var. *chinensis* CCTCC M201021
- 953 *Rhizopus microsporus* var. *microsporus*
- 954 *Rhodnius prolixus*
- 955 *Rhodobacter sphaeroides* 2.4.1
- 956 *Rhodopirellula baltica* SH 1
- 957 *Rhodospirillum rubrum* ATCC 11170
- 958 *Rhodosporidium toruloides* MTCC 457
- 959 *Rhodotorula graminis* WP1
- 960 *Rhodotorula minuta* MCA 4210
- 961 *Rhytidhysterium rufulum*

962 *Ricinus communis*
963 *Rickenella mellea*
964 *Rickettsia prowazekii* str. Madrid E
965 *Rozella allomycis* CSF55
966 *Saccharata proteae* CBS 121410
967 *Saccharomyces arboricola*
968 *Saccharomyces bayanus*
969 *Saccharomyces bayanus* var. *uvarum*
970 *Saccharomyces castelli*
971 *Saccharomyces castelii*
972 *Saccharomyces cerevisiae* M3707
973 *Saccharomyces cerevisiae* M3836
974 *Saccharomyces cerevisiae* M3837
975 *Saccharomyces cerevisiae* M3838
976 *Saccharomyces cerevisiae* M3839
977 *Saccharomyces cerevisiae* S288C
978 *Saccharomyces cerevisiae* YB210
979 *Saccharomyces kudriavzevii*
980 *Saccharomyces kudriavzevii* ZP591
981 *Saccharomyces mikatae*
982 *Saccharomyces paradoxus*
983 *Saccoglossus kowalevskii*
984 *Saimiri boliviensis*
985 *Saitoella complicata* NRRL Y-17804
986 *Salinarchaeum* sp. Harcht-Bsk1
987 *Salinibacter ruber* DSM 13855
988 *Salix purpurea*
989 *Salmonella enterica* subsp. *enterica* serovar *Typhi* str. CT18
990 *Salpingoeca* sp. ATCC 50818
991 *Saprolegnia declina* VS20
992 *Saprolegnia parasitica* cbs 223.65

- 993 *Sarcophilus harrisii*
- 994 *Schistosoma haematobium*
- 995 *Schistosoma japonicum*
- 996 *Schistosoma mansoni*
- 997 *Schizochytrium aggregatum* ATCC 28209
- 998 *Schizochytrium limacinum* ATCC MYA-1381
- 999 *Schizophyllum commune* H4-8
- 1000 *Schizophyllum commune* Loenen D
- 1001 *Schizophyllum commune* Tattone D
- 1002 *Schizopora paradoxa*
- 1003 *Schizosaccharomyces cryophilus*
- 1004 *Schizosaccharomyces japonicus*
- 1005 *Schizosaccharomyces octosporus*
- 1006 *Schizosaccharomyces pombe*
- 1007 *Scleroderma citrinum* Foug A
- 1008 *Sclerotinia sclerotiorum*
- 1009 *Scytalidium thermophilum*
- 1010 *Sebacina vermifera* MAFF 305830
- 1011 *Selaginella moellendorffii*
- 1012 *Septoria musiva* SO2202
- 1013 *Septoria populicola*
- 1014 *Serinus canaria*
- 1015 *Serpula lacrymans* var. *shastensis* SHA21-2
- 1016 *Serpula lacrymans* var. *lacrymans* S7.3
- 1017 *Serpula lacrymans* var. *lacrymans* S7.9
- 1018 *Sesamum indicum*
- 1019 *Setaria italica*
- 1020 *Setosphaeria turcica* Et28A
- 1021 *Shewanella oneidensis* MR-1
- 1022 *Shigella dysenteriae* Sd197
- 1023 *Shigella flexneri* 2a str. 301

1024 *Sistotremastrum niveocreameum* HHB9708
1025 *Sistotremastrum suecicum*
1026 *Sodiomyces alkalinus*
1027 *Solanum lycopersicum*
1028 *Solanum pimpinellifolium*
1029 *Solanum tuberosum*
1030 *Solenopsis invicta*
1031 *Sordaria macrospora*
1032 *Sorex araneus*
1033 *Sorghum bicolor*
1034 *Spathaspora passalidarum* NRRL Y-27907
1035 *Sphaerobolus stellatus*
1036 *Sphaeroforma arctica* jp610
1037 *Spirodela polyrhiza*
1038 *Spizellomyces punctatus* daom br117
1039 *Sporisorium reilianum* SRZ2
1040 *Sporobolomyces linderiae* CBS 7893
1041 *Sporobolomyces roseus*
1042 *Sporormia fimetaria*
1043 *Sporothrix schenckii*
1044 *Spraguea lophii*
1045 *Staphylothermus hellenicus* DSM 12710
1046 *Stegastes partitus*
1047 *Stereum hirsutum* FP-91666 SS1
1048 *Streptococcus pneumoniae* R6
1049 *Streptococcus suis* BM407
1050 *Strigamia maritima*
1051 *Strigomonas culicis*
1052 *Strongylocentrotus purpuratus*
1053 *Strongyloides ratti*
1054 *Struthio camelus*

1055 *Stylonychia lemnae*
1056 *Suillus brevipes*
1057 *Suillus luteus* UH-Slu-Lm8-n1
1058 *Sulfolobus islandicus* M.14.25
1059 *Sus scrofa*
1060 *Symbiodinium minutum*
1061 *Symbiotaphrina kochii*
1062 *Taenia solium*
1063 *Taeniopygia guttata*
1064 *Takifugu rubripes*
1065 *Talaromyces aculeatus* ATCC 10409
1066 *Talaromyces marneffeii* ATCC 18224
1067 *Talaromyces stipitatus* ATCC 10500
1068 *Taphrina deformans*
1069 *Tarenaya hassleriana*
1070 *Tarsius syrichta*
1071 *Tauraco erythrolophus*
1072 *Terfezia boudieri* S1
1073 *Tetrahymena borealis*
1074 *Tetrahymena ellioti*
1075 *Tetrahymena malaccensis*
1076 *Tetrahymena thermophila macronucleus*
1077 *Tetrahymena thermophila micronucleus*
1078 *Tetranychus urticae*
1079 *Tetraodon nigroviridis*
1080 *Tetrapisispora blattae*
1081 *Tetrapisispora phaffii*
1082 *Thalassiosira oceanica*
1083 *Thalassiosira pseudonana*
1084 *Thecamonas trahens* ATCC 50062
1085 *Theileria annulata*

1086 *Theileria parva*
1087 *Theobroma cacao*
1088 *Thermanaerovibrio acidaminovorans* DSM 6589
1089 *Thermoascus aurantiacus*
1090 *Thermoascus crustaceus*
1091 *Thermococcus barophilus* MP
1092 *Thermodesulfovibrio yellowstonii* DSM 11347
1093 *Thermofilum pendens* Hrk 5
1094 *Thermogladius cellulolyticus* 1633
1095 *Thermomyces dupontii*
1096 *Thermomyces lanuginosus*
1097 *Thermoplasma acidophilum* DSM 1728
1098 *Thermoplasmatales archaeon* BRNA1
1099 *Thermoproteus uzoniensis* 768-20
1100 *Thermosphaera aggregans* DSM 11486
1101 *Thermosynechococcus elongatus* BP-1
1102 *Thermotoga maritima* MSB8
1103 *Thielavia antarctica* CBS 123565
1104 *Thielavia appendiculata* CBS 731.68
1105 *Thielavia arenaria* CBS 508.74
1106 *Thielavia australiensis*
1107 *Thielavia hyrcaniae* CBS 757.83
1108 *Thielavia terrestris*
1109 *Thraustotheca clavata*
1110 *Tilletiaria anomala* UBC 951
1111 *Tinamus guttatus*
1112 *Torulasporea delbrueckii*
1113 *Toxocara canis*
1114 *Toxoplasma gondii*
1115 *Trachipleistophora hominis*
1116 *Trametes cinnabarina* BRFM137

1117 *Trametes sanguinea*
1118 *Trametes versicolor*
1119 *Trematosphaeria pertusa* CBS 122368
1120 *Tremella mesenterica*
1121 *Tribolium castaneum*
1122 *Trichaptum abietinum*
1123 *Trichechus manatus latirostris*
1124 *Trichinella spiralis*
1125 *Trichoderma asperellum* CBS 433.97
1126 *Trichoderma atroviride*
1127 *Trichoderma citrinoviride*
1128 *Trichoderma harzianum* CBS 226.95
1129 *Trichoderma longibrachiatum* ATCC 18648
1130 *Trichoderma reesei*
1131 *Trichoderma reesei* RUT C-30
1132 *Trichoderma virens*
1133 *Trichoderma virens* Gv29-8
1134 *Tricholoma matsutake* 945
1135 *Trichomonas vaginalis* G3
1136 *Trichophyton equinum*
1137 *Trichophyton interdigitale* H6
1138 *Trichophyton interdigitale* MR816
1139 *Trichophyton rubrum* CBS 118892
1140 *Trichophyton rubrum* D6
1141 *Trichophyton rubrum* MR1448
1142 *Trichophyton rubrum* MR1459
1143 *Trichophyton rubrum* MR850
1144 *Trichophyton tonsurans*
1145 *Trichophyton verrucosum* HKI 0517
1146 *Trichoplax adhaerens*
1147 *Trichosporon asahii* var. *asahii* CBS 2479

1148 *Trichosporon asahii* var. *asahii* CBS 8904
1149 *Trichosporon oleaginosus*
1150 *Trichuris muris*
1151 *Triticum aestivum*
1152 *Triticum urartu*
1153 *Tritirachium* sp. CBS 265.96
1154 *Trypanosoma brucei*
1155 *Trypanosoma congolense*
1156 *Trypanosoma cruzi*
1157 *Trypanosoma vivax*
1158 *Trypethelium eluteriae*
1159 *Tuber melanosporum*
1160 *Tulasnella calospora* AL13_4D
1161 *Tupaia belangeri*
1162 *Tupaia chinensis*
1163 *Tursiops truncatus*
1164 *Tyto alba*
1165 *Umbelopsis ramanniana* AG
1166 *Uncinocarpus reesii* 1704
1167 *Ursus maritimus*
1168 *Ustilago hordei*
1169 *Ustilago maydis*
1170 *Vaccinium corymbosum*
1171 *Vanderwaltozyma polyspora*
1172 *Vavraia culicis floridensis*
1173 *Verticillium alfalfae* VaMs.102
1174 *Verticillium dahliae*
1175 *Vibrio cholerae* O1 biovar El Tor str. N16961
1176 *Vibrio fischeri* ES114
1177 *Vicugna pacos*
1178 *Vitis vinifera*

1179 *Vitrella brassicaformis* CCMP3155
1180 *Vittaforma corneae* ATCC 50505
1181 *Volvariella volvacea* V23
1182 *Volvox carteri*
1183 *Vulcanisaeta distributa* DSM 14429
1184 *Wallemia ichthyophaga* EXF-994
1185 *Wallemia sebi*
1186 *Wickerhamomyces anomalus* NRRL Y-366-8
1187 *Wilcoxina mikolae* CBS 423.85
1188 *Wolfiporia cocos* MD-104 SS10
1189 *Wuchereria bancrofti*
1190 *Xanthomonas campestris* pv. *campestris* str. ATCC 33913
1191 *Xanthoria parietina* 46-1-SA22
1192 *Xenopus laevis*
1193 *Xenopus tropicalis*
1194 *Xiphophorus maculatus*
1195 *Xylona heveae* TC161
1196 *Yarrowia lipolytica* CLIB122
1197 *Yersinia enterocolitica* subsp. *enterocolitica* 8081
1198 *Yersinia pestis* CO92
1199 *Zasmidium cellare* ATCC 36951
1200 *Zea mays*
1201 *Zonotrichia albicollis*
1202 *Zopfia rhizophila*
1203 *Zygosaccharomyces bailii* CLIB 213
1204 *Zygosaccharomyces bailii* ISA1307
1205 *Zygosaccharomyces rouxii*
1206 *Zymoseptoria tritici*