

Risk Classification of Organisms: Pathogenicity classification of fungi

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Dutch Regulations Genetically Modified Organisms

In the Decree on Genetically Modified Organisms (GMO Decree) and its accompanying more detailed Regulations (GMO Regulations) genetically modified micro-organisms are grouped in four pathogenicity classes, ranging from the lowest pathogenicity Class 1 to the highest Class 4.¹ The pathogenicity classifications are used to determine the containment level for working with GMOs.

A micro-organism of Class 1 should at least comply with one of the following conditions:

- a) the micro-organism does not belong to a species of which representatives are known to be pathogenic for humans, animals or plants,
- b) the micro-organism has a long history of safe use under conditions without specific containment measures,
- c) the micro-organism belongs to a species that includes representatives of class 2, 3 or 4, but the particular strain does not contain genetic material that is responsible for the virulence,
- d) the micro-organism has been shown to be non-virulent through adequate tests.

A micro-organism is grouped in Class 2 when it can cause a disease in humans or animals whereby it is unlikely to spread within the population while an effective prophylaxis, treatment or control strategy exists, as well as an organism that can cause a disease in plants.

A micro-organism is grouped in Class 3 when it can cause a serious disease in humans or animals whereby it is likely to spread within the population while an effective prophylaxis, treatment or control strategy exists.

A micro-organism is grouped in Class 4 when it can cause a very serious disease in humans or animals whereby it is likely to spread within the population while no effective prophylaxis, treatment or control strategy exists.

Pathogenicity classification of fungi

The Netherlands Commission on Genetic Modification (COGEM) advises the Dutch government (amongst others) on the classification in risk groups (classes) of organisms according to the risk they pose to human health and the environment. These classifications are written in Dutch and are therefore only published on the Dutch part of the COGEM website.

1. Ministerie van Infrastructuur en Milieu. Regeling genetisch gemodificeerde organismen milieubeheer 2013.
<https://wetten.overheid.nl/BWBR0035072/2021-04-01> [In Dutch]

In order to inform other countries and/or organisations about the classification of organisms by COGEM, the most recent classification list of fungi has been translated. The classifications of all fungi that have been advised on by the COGEM until the 4th of October 2021, are listed alphabetically in two separate tables. Table 1 holds all apathogenic fungi and table 2 contains all pathogenic fungi. In addition, for the pathogenic fungi it is indicated if they are (also) pathogenic for plants (P), fungi (F) and/or animals (A). In the column 'remarks' of table 2 it is indicated whether a pathogenic fungus is also pathogenic for plants (P), fungi (F) and/or animals (A). Furthermore, if it is known by the COGEM that the fungus produces toxin and/or can cause an allergic reaction in humans, this is indicated in the 'remarks' column.

Fungi can multiply via both sexual (teleomorph) and asexual (anamorph) reproduction. A fungal species can appear morphologically different in the teleomorph and anamorph stages, and is therefore given different names. It has been decided by the 'International Botanical Congress' to replace the dual nomenclature system, and to state fungal species with one name from 2013 onward.² This system is currently in transition, causing some fungal species to be known by various names. In this pathogenicity classification list, table 1 and 2, the currently accepted names of the fungal species are provided in the first column. The teleomorph and anamorph names are also listed, together with alternative names (synonyms and former names) of the fungi.

2. Hawksworth DL (2011). A new dawn for the naming of fungi: impacts of decisions made in Melbourne in July 2011 on the future publication and regulation of fungal names. *IMA Fungus* 2:155-162

Table 1. Classification of apathogenic fungi, sorted alphabetically

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Acaulium acremonium</i>		<i>Scopulariopsis acremonium</i>		1
<i>Achaetomium strumarium</i>	<i>Chaetomium strumarium</i>			1
<i>Acremonium atrogriseum</i>		<i>Acremonium atrogriseum</i>		1
<i>Acremonium blochii</i>		<i>Acremonium blochii</i>		1
<i>Acremonium curvulum</i>		<i>Acremonium curvulum</i>		1
<i>Acremonium hyalinulum</i>		<i>Acremonium hyalinulum</i>		1
<i>Acremonium potronii</i>		<i>Acremonium potronii</i>		1
<i>Acremonium roseogriseum</i>		<i>Acremonium roseogriseum</i>		1
<i>Acremonium spinosum</i>		<i>Acremonium spinosum</i>		1
<i>Acrophialophora fuispora</i>		<i>Acrophialophora fuispora</i>		1
<i>Agaricus bisporus</i>	<i>Agaricus bisporus</i>			1
<i>Alternaria botrytis</i>		<i>Ulocladium botrytis</i>		1
<i>Alternaria chlamydospora</i>		<i>Alternaria chlamydospora</i>		1
<i>Amesia atrobrunnea</i>	<i>Chaetomium atrobrunneum</i>			1
<i>Anthopsis deltoidea</i>		<i>Anthopsis deltoidea</i>		1
	<i>Aphanoascus keratinophilus</i>	<i>Chrysosporium keratinophilum</i>		1
<i>Arnium leporinum</i>	<i>Arnium leporinum</i>			1
	<i>Arthroderma flavescens</i>	<i>Trichophyton flavescens</i>		1
	<i>Arthroderma gertleri</i>	<i>Trichophyton ofbreuseghemii</i>		1
	<i>Arthroderma gloriae</i>	<i>Trichophyton gloriae</i>		1
	<i>Arthroderma gypseum</i>	<i>Microsporum gypseum</i> var. <i>gypseum</i>	<i>A. gypseum</i> = <i>Nannizzia gypsea</i>	1
	<i>Arthroderma insingulare</i>	<i>Trichophyton terrestre</i>	<i>A. insingulare</i> = <i>Arthroderma lenticulare</i> = <i>Arthroderma quadrifidum</i>	1
	<i>Arthroderma racemosum</i>	<i>Microsporum racemosum</i>		1
	<i>Arthroderma uncinatum</i>	<i>Trichophyton ajelloi</i>		1
<i>Arxula terrestris</i>		<i>Arxula terrestris</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
	<i>Ascotricha chartarum</i>	<i>Dicyma ampullifera</i>		1
<i>Aspergillus avenaceus</i>		<i>Aspergillus avenaceus</i>		1
<i>Aspergillus awamori</i>		<i>Aspergillus awamori</i>	= <i>Aspergillus niger</i> var. <i>Awamori</i>	1
<i>Aspergillus brasiliensis</i>		<i>Aspergillus brasiliensis</i>		1
<i>Aspergillus caesiellus</i>		<i>Aspergillus caesiellus</i>		1
<i>Aspergillus calidoustus</i>		<i>Aspergillus calidoustus</i>		1
<i>Aspergillus candidus</i>		<i>Aspergillus candidus</i>		1
<i>Aspergillus chevalieri</i>	<i>Eurotium chevalieri</i>	<i>Aspergillus chevalieri</i>		1
<i>Aspergillus conicus</i>		<i>Aspergillus conicus</i>		1
<i>Aspergillus deflectus</i>		<i>Aspergillus deflectus</i>		1
<i>Aspergillus fischeri</i>	<i>Neosartorya fischeri</i>	<i>Aspergillus fischerianus</i>	known to produce toxin	1
<i>Aspergillus flavipes</i>	<i>Fennellia flavipes</i>	<i>Aspergillus flavipes</i>		1
<i>Aspergillus fumigatiaffinis</i>		<i>Aspergillus fumigatiaffinis</i>		1
<i>Aspergillus fumisynnematus</i>		<i>Aspergillus fumisynnematus</i>		1
<i>Aspergillus glaucus</i>	<i>Eurotium herbariorum</i>	<i>Aspergillus glaucus</i>		1
<i>Aspergillus granulosis</i>		<i>Aspergillus granulosis</i>		1
<i>Aspergillus insolitus</i>		<i>Polypaecilum insolutum</i>		1
<i>Aspergillus janus</i>		<i>Aspergillus janus</i>		1
<i>Aspergillus japonicus</i>		<i>Aspergillus japonicus</i>		1
<i>Aspergillus luchuensis</i>		<i>Aspergillus luchuensis</i>		1
<i>Aspergillus montevidensis</i>	<i>Eurotium amstelodami</i>	<i>Aspergillus hollandicus</i>		1
<i>Aspergillus nidulans</i>	<i>Emericella nidulans</i>	<i>Aspergillus nidulans</i>	known to produce toxin	1
<i>Aspergillus niger</i>		<i>Aspergillus niger</i>	= <i>Aspergillus foetidus</i> ; known to produce toxin	1
<i>Aspergillus ochraceopetaliiformis</i>		<i>Aspergillus ochraceopetaliiformis</i>		1
<i>Aspergillus oryzae</i>		<i>Aspergillus oryzae</i>	known to produce toxin	1
<i>Aspergillus parvulus</i>		<i>Aspergillus parvulus</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Aspergillus pseudoglaucus</i>	<i>Eurotium repens</i>	<i>Aspergillus reptans</i>		1
<i>Aspergillus quadrilineatus</i>	<i>Emericella quadrilineata</i>	<i>Aspergillus tetrazonus</i>		1
<i>Aspergillus restrictus</i>		<i>Aspergillus restrictus</i>		1
<i>Aspergillus sojae</i>		<i>Aspergillus sojae</i>	known to produce toxin	1
<i>Aspergillus spinosus</i>	<i>Neosartorya spinosa</i>	<i>Aspergillus spinosus</i>		1
<i>Aspergillus sydowii</i>		<i>Aspergillus sydowii</i>		1
<i>Aspergillus tritici</i>		<i>Aspergillus tritici</i>		1
<i>Aspergillus udagawae</i>	<i>Neosartorya udagawae</i>	<i>Aspergillus udagawae</i>		1
<i>Aspergillus unguis</i>	<i>Emericella unguis</i>	<i>Aspergillus unguis</i>		1
<i>Aspergillus ustus</i>		<i>Aspergillus ustus</i>		1
<i>Aspergillus vadensis</i>		<i>Aspergillus vadense</i>		1
<i>Aureobasidium melanogenum</i>		<i>Aureobasidium melanogenum</i>	before <i>Aureobasidium pullulans</i> sensu lato	1
<i>Aureobasidium namibiae</i>		<i>Aureobasidium namibiae</i>	before <i>Aureobasidium pullulans</i> sensu lato	1
<i>Aureobasidium pullulans</i>		<i>Aureobasidium pullulans</i>	= <i>Discosphaerina fulvida</i> , before <i>Aureobasidium pullulans</i> sensu lato	1
<i>Aureobasidium subglaciale</i>		<i>Aureobasidium subglaciale</i>	before <i>Aureobasidium pullulans</i> sensu lato	1
<i>Bisifusarium dimerum</i>		<i>Fusarium dimerum</i>		1
<i>Bjerkandera adusta</i>	<i>Bjerkandera adusta</i>			1
<i>Bjerkandera herbarum</i>	<i>Bjerkandera herbarum</i>			1
<i>Botryotrichum murorum</i>	<i>Chaetomium murorum</i>			1
<i>Brettanomyces bruxellensis</i>	<i>Dekkera bruxellensis</i>	<i>Brettanomyces bruxellensis</i>		1
<i>Calypトロzyma arxii</i>	<i>Calypトロzyma arxii</i>			1
<i>Candida haemulonii</i>		<i>Candida haemulonii</i>		1
<i>Candida maltosa</i>		<i>Candida maltosa</i>	<i>C. maltosa</i> = <i>C. cloacae</i> = <i>C. novellus</i> = <i>C. subtropicalis</i>	1
<i>Candida oleophila</i>		<i>Candida oleophila</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Candida rugosa</i>		<i>Candida rugosa</i>		1
<i>Candida viswanathii</i>		<i>Candida viswanathii</i>		1
<i>Candida zeylanoides</i>		<i>Candida zeylanoides</i>		1
<i>Cephalophora irregularis</i>		<i>Cephalophora irregularis</i>		1
<i>Ceriporiopsis subvermispota</i>	<i>Ceriporiopsis subvermispota</i>			1
<i>Chamaeleomyces viridis</i>		<i>Paecilomyces viridis</i>		1
<i>Chlamydoabsidia padenii</i>	<i>Chlamydoabsidia padenii</i>			1
<i>Chlorociboria aeruginascens</i>		<i>Dothiorina tulasnei</i>		1
<i>Chrysosporium lucknowense</i>		<i>Chrysosporium lucknowense</i>		1
<i>Chrysosporium pannicola</i>		<i>Chrysosporium pannicola</i>		1
<i>Cladosporium sphaerospermum</i>		<i>Cladosporium sphaerospermum</i>		1
<i>Cokeromyces recurvatus</i>	<i>Cokeromyces recurvatus</i>			1
<i>Conidiobolus lamprauges</i>	<i>Conidiobolus lamprauges</i>			1
	<i>Coniochaeta ligniaria</i>	<i>Lecythophora hoffmannii</i>		1
<i>Coniochaeta mutabilis</i>		<i>Lecythophora mutabilis</i>		1
<i>Coniosporium epidermidis</i>		<i>Coniosporium epidermidis</i>		1
<i>Coprinopsis cinereus</i>	<i>Coprinopsis cinereus</i>	<i>Hormographiella aspergillata</i>		1
<i>Cordyceps javanica</i>		<i>Paecilomyces javanicus</i>		1
<i>Corynascus fumimontanus</i>	<i>Corynascus fumimontanus</i>			1
	<i>Corynascus thermophilus</i>	<i>Myceliophthora fergusii</i>	= <i>Thielavia thermophila</i> , <i>Chaetomidium thermophilum</i> , <i>Crassicarpon thermophilum</i>	1
	<i>Cosmospora episphaerica</i>	<i>Fusarium aquaeductuum</i>		1
<i>Curvularia brachyspora</i>		<i>Curvularia brachyspora</i>		1
<i>Curvularia papendorfii</i>		<i>Drechslera papendorfii</i> , <i>Bipolaris papendorfii</i>		1
<i>Cutaneotrichosporon curvatus</i>		<i>Cutaneotrichosporon curvatus</i>		1
<i>Cutaneotrichosporon oleaginosus</i>		<i>Cutaneotrichosporon oleaginosus</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Cyberlindnera fabianii</i>	<i>Cyberlindnera fabianii</i>	<i>Candida fabianii</i>		1
<i>Cyberlindnera jadinii</i>	<i>Cyberlindnera jadinii</i>	<i>Candida utilis</i>	<i>C. jadinii</i> = <i>Pichia jadinii</i>	1
<i>Cyclocybe aegerita</i>			= <i>Agrocybe aegerita</i> ; known to produce toxin	1
<i>Cyphellophora laciniata</i>		<i>Cyphellophora laciniata</i>		1
<i>Cyphellophora pluriseptata</i>		<i>Cyphellophora pluriseptata</i>		1
<i>Cystofilobasidium macerans</i>		<i>Cryptococcus macerans</i>		1
<i>Debaryomyces hansenii</i>	<i>Debaryomyces hansenii</i>	<i>Candida famata</i>		1
<i>Dendryphion nanum</i>	<i>Dendryphion nanum</i>		known to produce toxin	1
<i>Dichomitus squalens</i>	<i>Dichomitus squalens</i>			1
<i>Dichotomophthoropsis nymphaearum</i>		<i>Dichotomophthoropsis nymphaearum</i>		1
<i>Dichotomopilus funicola</i>	<i>Chaetomium funicola</i>			1
	<i>Duddingtonia flagrans</i>	<i>Trichothecium flagrans</i>		1
<i>Engyodontium album</i>		<i>Engyodontium album</i>		1
<i>Epidermophyton stockdaleae</i>		<i>Epidermophyton stockdaleae</i>		1
<i>Filobasidium magnus</i>		<i>Cryptococcus ater</i>	<i>C. ater</i> = <i>Cryptococcus magnus</i>	1
<i>Exophiala xenobiotica</i>		<i>Exophiala xenobiotica</i>		1
<i>Exserohilum longirostratum</i>		<i>Exserohilum longirostratum</i>		1
<i>Exserohilum mcginnisii</i>		<i>Exserohilum mcginnisii</i>		1
<i>Flammulina velutipes</i>				1
	<i>Filobasidium uniguttulatum</i>	<i>Cryptococcus uniguttulatus</i>		1
<i>Funneliformis mosseae</i>			before <i>Glomus mossae</i>	1
<i>Geomyces pannorum</i>		<i>Geomyces pannorum</i>		1
<i>Glarea lozoyensis</i>		<i>Glarea lozoyensis</i>		1
<i>Hortaea werneckii</i>		<i>Hortaea werneckii</i>		1
<i>Irpex lacteus</i>	<i>Irpex lacteus</i>		<i>I. lacteus</i> = <i>Polyporus tulipiferae</i>	1
<i>Kazachstania africana</i>			before <i>Kluyveromyces africanus</i>	1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Kazachstania bulderi</i>			before <i>Saccharomyces bulderi</i>	1
<i>Kazachstania telluris</i>	<i>Kazachstania telluris</i>	<i>Candida pintolopesii</i>		1
<i>Keratinomyces ceretanicus</i>		<i>Keratinomyces ceretanicus</i>		1
<i>Kluyveromyces lactis</i>	<i>Kluyveromyces lactis</i>	<i>Candida sphaerica</i>	<i>K. lactis</i> = <i>K. marxianus</i> var. <i>lactis</i>	1
<i>Kluyveromyces marxianus</i>	<i>Kluyveromyces marxianus</i>	<i>Candida kefyri</i>		1
<i>Kodamaea ohmeri</i>	<i>Kodamaea ohmeri</i>		= <i>Pichia ohmeri</i>	1
<i>Komagataella pastoris</i>	<i>Komagataella pastoris</i>		= <i>Pichia pastoris</i>	1
<i>Lachancea kluyveri</i>	<i>Lachancea kluyveri</i>		= <i>Saccharomyces kluyveri</i>	1
<i>Lachancea thermotolerans</i>	<i>Lachancea thermotolerans</i>		= <i>Kluyveromyces thermotolerans</i>	1
<i>Lentithecium fluviatile</i>	<i>Lentithecium fluviatile</i>		before <i>Massarina fluvitalis</i>	1
<i>Malassezia dermatis</i>		<i>Malassezia dermatis</i>		1
<i>Malbranchea pulchella</i>		<i>Malbranchea pulchella</i>		1
<i>Massariosphaeria phaeospora</i>	<i>Massariosphaeria phaeospora</i>		before <i>Leptosphaeria phaeospora</i>	1
<i>Melanocarpus albomyces</i>	<i>Melanocarpus albomyces</i>		before <i>Myriococcum albomyces</i> and <i>Thielavia albomyces</i> ; known to produce toxin	1
<i>Metarhizium marquandii</i>		<i>Paecilomyces marquandii</i>		1
<i>Metschnikowia pulcherrima</i>	<i>Metschnikowia pulcherrima</i>	<i>Candida pulcherrima</i>		1
<i>Meyerozyma guilliermondii</i>	<i>Meyerozyma guilliermondii</i>	<i>Candida guilliermondii</i>	<i>M. guilliermondii</i> = <i>Pichia guilliermondii</i>	1
<i>Microascus cinereus</i>	<i>Microascus cinereus</i>	<i>Scopulariopsis cinereus</i>		1
	<i>Microascus cirrosus</i>	<i>Scopulariopsis paisii</i>		1
<i>Microsphaeropsis olivacea</i>		<i>Microsphaeropsis olivacea</i>		1
<i>Monascus ruber</i>	<i>Monascus ruber</i>	<i>Basipetospora rubra</i>	known to produce toxin	1
<i>Moniliella suaveolens</i>		<i>Moniliella suaveolens</i>		1
<i>Mortierella alpina</i>	<i>Mortierella alpina</i>			1
<i>Mortierella polycephala</i>	<i>Mortierella polycephala</i>			1
<i>Mucor indicus</i>	<i>Mucor indicus</i>			1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Mucor lusitanicus</i>			before <i>Mucor circinelloides</i> f. <i>lusitanicus</i>	1
	<i>Mucor miehei</i>			1
<i>Mucor ramosissimus</i>	<i>Mucor ramosissimus</i>			1
<i>Myceliophthora heterothallica</i>	<i>Corynascus heterothallicus</i>	<i>Myceliophthora heterothallica</i>	= <i>Thermothelomyces heterothallicus</i>	1
<i>Mycoleptodiscus indicus</i>		<i>Mycoleptodiscus indicus</i>		1
<i>Mycothermus thermophilus</i>			before <i>Scytalidium thermophilum</i> , <i>Torula thermophila</i> and <i>Humicola inolescens</i>	1
		<i>Myrmecridium schulzeri</i>	= <i>Ramichloridium schulzeri</i>	1
<i>Myxotrichum deflexum</i>	<i>Myxotrichum deflexum</i>			1
<i>Naganishia adeliensis</i>		<i>Cryptococcus adeliensis</i>		1
<i>Naganishia albidus</i>		<i>Cryptococcus albidus</i>		1
<i>Naganishia diffluens</i>		<i>Cryptococcus diffluens</i>		1
<i>Naganishia liquefaciens</i>		<i>Cryptococcus liquefaciens</i>		1
<i>Naganishia uzbekistanensis</i>		<i>Cryptococcus uzbekistanensis</i>		1
	<i>Nannizziopsis vriesii</i>	<i>Chrysosporium</i> sp.		1
<i>Narasimhella hyalinospora</i>	<i>Narasimhella hyalinospora</i>			1
<i>Naumovozyma castellii</i>			before <i>Saccharomyces castellii</i> and <i>Naumovia castellii</i>	1
	<i>Neoarachnotheca keratinophila</i>	<i>Myriodontium keratinophilum</i>		1
<i>Neocosmospora lichenicola</i>		<i>Cylindrocarpon lichenicola</i>		1
<i>Neocucurbitaria cava</i>		<i>Pleurophoma cava</i>		1
<i>Neodeightonia subglobosa</i>	<i>Botryosphaeria subglobosa</i>	<i>Sphaeropsis subglobosa</i>		1
<i>Neoscytalidium dimidiatum</i>		<i>Natrassia dimidiatum</i>	<i>Neoscytalidium dimidiatum</i>	1
<i>Neurospora crassa</i>	<i>Neurospora crassa</i>			1
<i>Neurospora intermedia</i>		<i>Neurospora intermedia</i>		1
	<i>Neurospora sitophila</i>	<i>Chrysonilia sitophila</i>		1
<i>Neurospora tetrasperma</i>		<i>Neurospora tetrasperma</i>	= <i>Chrysonilia tetrasperma</i> = <i>Monilia</i>	1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
			<i>tetrasperma</i>	
<i>Ochrocladosporium elatum</i>		<i>Cladosporium elatum</i>		1
<i>Ochroconis constricta</i>		<i>Ochroconis constricta</i>		1
<i>Ogataea angusta</i>	<i>Ogataea angusta</i>		= <i>Pichia angusta</i> = <i>Hansenula angusta</i>	1
<i>Ogataea methanolica</i>	<i>Ogataea methanolica</i>		= <i>Pichia methanolica</i>	1
<i>Ogataea parapolyomorpha</i>	<i>Ogataea parapolyomorpha</i>	<i>Candida parapolyomorpha</i>		1
<i>Ogataea polymorpha</i>	<i>Ogataea polymorpha</i>		= <i>Pichia polymorpha</i> = <i>Hansenula polymorpha</i>	1
<i>Oidiodendron cerealis</i>		<i>Oidiodendron cerealis</i>		1
<i>Oidiodendron maius</i>	<i>Oidiodendron maius</i>			1
<i>Ophiostoma piceae</i>	<i>Ophiostoma piceae</i>	<i>Sporothrix</i> sp.		1
<i>Ovadendron sulphureoochraceum</i>		<i>Ovadendron sulphureoochraceum</i>		1
<i>Panellus stipticus</i>	<i>Panellus stipticus</i>		before <i>Agaricus stipticus</i>	1
<i>Papiliotrema flavescens</i>		<i>Cryptococcus flavescens</i>		1
<i>Papiliotrema laurentii</i>		<i>Cryptococcus laurentii</i>		1
<i>Papulaspora equi</i>		<i>Papulaspora equi</i>		1
<i>Paraphaeosphaeria minitans</i>		<i>Coniothyrium minitans</i>		1
<i>Parathielavia hyrcaniae</i>	<i>Parathielavia hyrcaniae</i>		before <i>Thielavia hyrcaniae</i>	1
<i>Penicillium aurantiogriseum</i>		<i>Penicillium aurantiogriseum</i>	known to produce toxin	1
<i>Penicillium brasilianum</i>		<i>Penicillium brasilianum</i>	known to produce toxin	1
<i>Penicillium chrysogenum</i>		<i>Penicillium chrysogenum</i>	known to produce toxin	1
<i>Penicillium decumbens</i>		<i>Penicillium decumbens</i>		1
<i>Penicillium roqueforti</i>		<i>Penicillium roqueforti</i>	known to produce toxin	1
<i>Penicillium spinulosum</i>		<i>Penicillium spinulosum</i>		1
<i>Penicillium subrubescens</i>				1
<i>Petriella setifera</i>	<i>Petriella setifera</i>	<i>Graphium</i> sp.	= <i>Scedosporium</i> sp.	1
<i>Phaeoacremonium alvesii</i>		<i>Phaeoacremonium alvesii</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Phaeoacremonium amstelodamense</i>		<i>Phaeoacremonium amstelodamense</i>		1
<i>Phaeoacremonium griseobrunneum</i>		<i>Phaeoacremonium griseobrunneum</i>		1
<i>Phaeoacremonium inflatipes</i>		<i>Phaeoacremonium inflatipes</i>		1
<i>Phaeoacremonium rubrigenum</i>	<i>Togninia rubrigena</i>	<i>Phaeoacremonium rubrigenum</i>		1
<i>Phaeoacremonium sphinctrophorum</i>		<i>Phaeoacremonium sphinctrophorum</i>		1
<i>Phaeoacremonium tardicrescens</i>		<i>Phaeoacremonium tardicrescens</i>		1
<i>Phaeoacremonium venezuelense</i>		<i>Phaeoacremonium venezuelense</i>		1
<i>Phaeococcomyces exophialae</i>		<i>Phaeococcomyces exophialae</i>		1
<i>Phaeoisaria clematidis</i>		<i>Phaeoisaria clematidis</i>		1
<i>Phaeosclera dematioides</i>		<i>Phaeosclera dematioides</i>		1
<i>Phaeotrichoconis crotalariae</i>		<i>Phaeotrichoconis crotalariae</i>		1
<i>Phaffia rhodozyma</i>	<i>Xanthophyllomyces dendrorhous</i>	<i>Phaffia rhodozyma</i>		1
	<i>Phanerochaete chrysosporium</i>	<i>Sporotrichum pruinosum</i>		1
<i>Phialophora bubakii</i>		<i>Phialophora bubakii</i>		1
<i>Phialophora repens</i>		<i>Phialophora repens</i>		1
<i>Phialophora reptans</i>		<i>Phialophora reptans</i>		1
<i>Phlebia radiata</i>	<i>Phlebia radiata</i>		<i>P. radiata</i> = <i>Phlebia merismoides</i>	1
<i>Phlebia tremellosa</i>	<i>Phlebia tremellosa</i>		<i>P. tremellosa</i> = <i>Merulius tremellosus</i>	1
<i>Phlebiopsis gigantea</i>	<i>Phlebiopsis gigantea</i>			1
<i>Phoma minutella</i>		<i>Phoma minutella</i>		1
<i>Physisporinus rivulosus</i>	<i>Physisporinus rivulosus</i>			1
<i>Pichia fermentans</i>	<i>Pichia fermentans</i>	<i>Candida lambica</i>		1
<i>Pichia kluyveri</i>	<i>Pichia kluyveri</i>		= <i>Hansenula kluyveri</i>	1
<i>Pichia norvegensis</i>	<i>Pichia norvegensis</i>	<i>Candida norvegensis</i>		1
<i>Piedraia hortai</i>		<i>Piedraia hortai</i>		1
<i>Piedraia quintanilhae</i>		<i>Piedraia quintanilhae</i>		1
<i>Pleurophomopsis lignicola</i>		<i>Pleurophomopsis lignicola</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Pleurostomophora repens</i>		<i>Pleurostomophora repens</i>		1
<i>Pleurotus eryngii</i>	<i>Pleurotus eryngii</i>			1
<i>Pleurotus ostreatus</i>	<i>Pleurotus ostreatus</i>			1
<i>Pleurotus pulmonarius</i>	<i>Pleurotus pulmonarius</i>			1
<i>Pneumocystis murina</i>	<i>Pneumocystis murina</i>			1
<i>Pneumocystis oryctolagi</i>	<i>Pneumocystis oryctolagi</i>			1
<i>Pneumocystis wakefieldiae</i>	<i>Pneumocystis wakefieldiae</i>			1
<i>Podospora pauciseta</i>	<i>Podospora pauciseta</i>		before <i>Podospora anserina</i>	1
	<i>Pseudeurotium ovale</i>	<i>Sporothrix</i> sp.		1
<i>Pseudozyma flocculosa</i>		<i>Pseudozyma flocculosa</i>		1
<i>Purpureocillium lilacinum</i>		<i>Paecilomyces lilacinus</i>		1
		<i>Ramichloridium schulzeri</i>	= <i>Myrmecridium schulzeri</i>	1
<i>Rasamsonia emersonii</i>	<i>Talaromyces emersonii</i>			1
<i>Rhinocladiella atrovirens</i>		<i>Rhinocladiella atrovirens</i>		1
<i>Rhinocladiella basitona</i>		<i>Rhinocladiella basitona</i>		1
<i>Rhizomucor miehei</i>	<i>Rhizomucor miehei</i>		= <i>Mucor miehei</i>	1
<i>Rhizophagus aggregatus</i>			= <i>Rhizoglopus aggregatus</i>	1
<i>Rhizophagus clarus</i>			= <i>Rhizoglopus clarus</i>	1
<i>Rhizophagus manihotis</i>			= <i>Rhizoglopus manihotis</i>	1
<i>Rhizophagus irregularis</i>				1
<i>Rhodotorula diobovatum</i>	<i>Rhodospiridium diobovatum</i>	<i>Rhodotorula diobovatum</i>		1
<i>Rhodotorula glutinis</i>		<i>Rhodotorula glutinis</i>		1
<i>Rhodotorula minuta</i>		<i>Rhodotorula minuta</i>		1
<i>Rhodotorula mucilaginosa</i>		<i>Rhodotorula mucilaginosa</i>		1
<i>Rhodotorula sphaerocarpa</i>	<i>Rhodospiridium sphaerocarpum</i>	<i>Rhodotorula sphaerocarpa</i>		1
<i>Rhodotorula toruloides</i>	<i>Rhodospiridium toruloides</i>	<i>Rhodotorula toruloides</i>		1
<i>Saccharomyces bayanus</i>	<i>Saccharomyces bayanus</i>			1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Saccharomyces cerevisiae</i>	<i>Saccharomyces cerevisiae</i>			1
<i>Saccharomyces eubayanus</i>	<i>Saccharomyces eubayanus</i>			1
<i>Saccharomyces kudriavzevii</i>	<i>Saccharomyces kudriavzevii</i>			1
<i>Saccharomyces mikatae</i>	<i>Saccharomyces mikatae</i>			1
<i>Saccharomyces paradoxus</i>	<i>Saccharomyces paradoxus</i>			1
<i>Saccharomyces pastorianus</i>	<i>Saccharomyces pastorianus</i>			1
<i>Saccharomyces uvarum</i>	<i>Saccharomyces uvarum</i>			1
<i>Scedosporium dehoogii</i>		<i>Scedosporium dehoogii</i>		1
<i>Scheffersomyces stipitis</i>	<i>Scheffersomyces stipitis</i>		before <i>Pichia stipitis</i>	1
<i>Schizosaccharomyces japonicus</i>			= <i>Hasegawaea japonica</i> = <i>Octosporomyces japonicus</i>	1
<i>Schizosaccharomyces pombe</i>	<i>Schizosaccharomyces pombe</i>			1
<i>Schwanniomyces occidentalis</i>				1
<i>Scopulariopsis asperula</i>		<i>Scopulariopsis asperula</i>	= <i>Scopulariopsis fusca</i>	1
<i>Scopulariopsis brevicaulis</i>		<i>Scopulariopsis koningii</i>		1
<i>Scopulariopsis candida</i>	<i>Microascus manginii</i>	<i>Scopulariopsis candida</i>		1
<i>Scopulariopsis flava</i>		<i>Scopulariopsis flava</i>		1
<i>Scytalidium infestans</i>		<i>Scytalidium infestans</i>		1
<i>Scytalidium japonicum</i>		<i>Scytalidium japonicum</i>		1
<i>Scytalidium lignicola</i>		<i>Scytalidium lignicola</i>		1
<i>Sodyomyces alkalinus</i>	<i>Sodyomyces alkalinus</i>			1
	<i>Sporidiobolus johnstonii</i>	<i>Sporobolomyces salmonicolor</i>		1
<i>Sporothrix stenoceras</i>	<i>Ophiostoma stenoceras</i>	<i>Sporothrix</i> sp.		1
<i>Staphylotrichum coccosporum</i>		<i>Staphylotrichum coccosporum</i>		1
<i>Taeniolella stilbospora</i>		<i>Taeniolella stilbospora</i>		1
<i>Talaromyces aculeatus</i>	<i>Talaromyces aculeatus</i>		before <i>Penicillium aculeatum</i>	1
<i>Talaromyces columbinus</i>	<i>Talaromyces columbinus</i>		known to produce toxin	1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Talaromyces funiculosus</i>		<i>Penicillium funiculosum</i>		1
<i>Talaromyces macrosporus</i>	<i>Talaromyces macrosporus</i>		known to produce toxin	1
<i>Talaromyces piceus</i>		<i>Penicillium piceum</i>		1
<i>Talaromyces purpurogenus</i>		<i>Penicillium purpurogenum</i>		1
<i>Talaromyces verruculosus</i>	<i>Talaromyces verruculosus</i>		= <i>Penicillium verruculosum</i>	1
<i>Termitomyces</i> sp.			<i>Termitomyces</i> symbiont of <i>Macrotermes natalensis</i>	1
<i>Tetrapisispora phaffii</i>			before <i>Fabospora phaffii</i> and <i>Kluyveromyces phaffii</i>	1
<i>Tetraplophaeria tetraploa</i>	<i>Massarina tetraploa</i>	<i>Tetraploa aristata</i>		1
<i>Thermoascus aurantiacus</i>	<i>Thermoascus aurantiacus</i>			1
	<i>Thermoascus crustaceus</i>	<i>Paecilomyces crustaceus</i>		1
<i>Thermomucor indicae-seudaticae</i>	<i>Thermomucor indicae-seudaticae</i>			1
<i>Thermomyces lanuginosus</i>		<i>Thermomyces lanuginosus</i>	= <i>Humicola lanuginosa</i>	1
<i>Thielavia terrestris</i>	<i>Thielavia terrestris</i>	<i>Acremonium alabamense</i>		1
<i>Tilletiopsis minor</i>		<i>Tilletiopsis minor</i>		1
	<i>Torulaspota delbrueckii</i>	<i>Candida colliculosa</i>	before <i>Saccharomyces delbrueckii</i>	1
<i>Trametes ochracea</i>	<i>Trametes ochracea</i>		= <i>Trametes multicolor</i> , before <i>Boletus multicolor</i>	1
<i>Trametes versicolor</i>	<i>Trametes versicolor</i>		<i>T. versicolor</i> = <i>Coriolus versicolor</i> , <i>Microporus versicolor</i> , <i>Boletus versicolor</i> , <i>Bjerkandera versicolor</i> , <i>Poria versicolor</i>	1
<i>Triadelphia pulvinata</i>		<i>Triadelphia pulvinata</i>		1
<i>Trichocladium asperum</i>		<i>Trichocladium asperum</i>		1
<i>Trichoderma asperellum</i>		<i>Trichoderma asperellum</i>	before <i>Trichoderma harzianum</i> and <i>Trichoderma viride</i> ; known to produce toxin	1
<i>Trichoderma atroviride</i>		<i>Trichoderma atroviride</i>		1
<i>Trichoderma gamsii</i>		<i>Trichoderma gamsii</i>		1

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class
<i>Trichoderma longibrachiatum</i>		<i>Trichoderma longibrachiatum</i>		1
<i>Trichoderma polysporum</i>		<i>Trichoderma polysporum</i>		1
<i>Trichoderma pseudokoningii</i>	<i>Hypocrea pseudokoningii</i>	<i>Trichoderma pseudokoningii</i>		1
<i>Trichoderma reesei</i>		<i>Trichoderma reesei</i>		1
<i>Trichophyton thuringiense</i>		<i>Trichophyton thuringiense</i>		1
<i>Trichosporon domesticum</i>		<i>Trichosporon domesticum</i>		1
<i>Ulocladium chartarum</i>		<i>Ulocladium chartarum</i>		1
	<i>Uncinocarpus orissi</i>	<i>Chrysosporium zonatum</i>		1
	<i>Uncinocarpus queenslandicus</i>	<i>Chrysosporium queenslandicum</i>		1
<i>Vanderwaltozyma polyspora</i>			before <i>Kluyveromyces polysporus</i>	1
<i>Vanrija humicola</i>		<i>Cryptococcus humicola</i>		1
<i>Veronaea botryosa</i>		<i>Veronaea botryosa</i>		1
<i>Volutella cinerascens</i>		<i>Volutella cinerascens</i>		1
<i>Wallemia sebi</i>		<i>Wallemia sebi</i>		1
<i>Westerdykella minutispora</i>		<i>Phoma minutispora</i>		1
<i>Wickerhamomyces anomalus</i>	<i>Wickerhamomyces anomalus</i>	<i>Candida pelliculosa</i>	<i>W. anomalus</i> = <i>Hansenula anomala</i> = <i>Pichia anomala</i>	1
<i>Xerochrysium dermatitidis</i>		<i>Chrysosporium inops</i>		1
<i>Xylaria flabelliformis</i>	<i>Xylaria flabelliformis</i>			1
<i>Yarrowia lipolytica</i>	<i>Yarrowia lipolytica</i>	<i>Candida lipolytica</i>		1
<i>Zygosaccharomyces bailii</i>	<i>Zygosaccharomyces bailii</i>			1
<i>Zygosaccharomyces rouxii</i>	<i>Zygosaccharomyces rouxii</i>			1
<i>Zygorulasporea mrakii</i>			before <i>Zygosaccharomyces mrakii</i>	1

= : is also known under the name

Table 2. Classification of pathogenic fungi, sorted alphabetically

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Aphanoascus fulvescens</i>	<i>Aphanoascus fulvescens</i>	<i>Chrysosporium</i> sp.		2	P
<i>Absidia coerulea</i>	<i>Absidia coerulea</i>			2	
<i>Acremonium recifei</i>		<i>Acremonium recifei</i>		2	
<i>Adiaspiromyces crescens</i>	<i>Ajellomyces crescens</i>	<i>Emmonsia crescens</i>	<i>E. crescens</i> = <i>Emmonsia parva</i> var. <i>crescens</i> = <i>Emergomycetes crescens</i>	2	
<i>Akanthomyces attenuatus</i>			= <i>Lecanicillium attenuatum</i>	2	
<i>Akanthomyces muscarium</i>		<i>Lecanicillium muscarium</i>	= <i>Lecanicillium muscarium</i>	2	A
<i>Alternaria caespitosa</i>	<i>Botryomyces caespitosus</i>			2	
<i>Alternaria dianthicola</i>		<i>Alternaria dianthicola</i>		2	P
<i>Apophysomyces elegans</i>	<i>Apophysomyces elegans</i>			2	
	<i>Arachnomyces nodosetosus</i>	<i>Onychocola canadensis</i>		2	
<i>Arthrobotrys oligospora</i>		<i>Arthrobotrys oligospora</i>		2	A
<i>Arthroderma amazonicum</i>	<i>Arthroderma borellii</i>	<i>Microsporium amazonicum</i>	= <i>Arthroderma amazonicum</i>	2	
	<i>Arthroderma benhamiae</i>	<i>Trichophyton erinacei</i>	= <i>Trichophyton benhamiae</i>	2	A
<i>Arthroderma corniculatum</i>	<i>Arthroderma corniculatum</i>	<i>Microsporium</i> sp.	causes allergic reaction in human	2	
<i>Aspergillus flavus</i>		<i>Aspergillus flavus</i>	known to produce toxin	2	A
<i>Aspergillus fumigatus</i>		<i>Aspergillus arvii</i>		2	
<i>Aspergillus fumigatus</i>	<i>Neosartorya fumigata</i>	<i>Aspergillus fumigatus</i>	known to produce toxin; causes allergic reaction in human	2	A
<i>Aspergillus lentulus</i>		<i>Aspergillus lentulus</i>	known to produce toxin	2	
<i>Aspergillus terreus</i>		<i>Aspergillus terreus</i>	known to produce toxin	2	A
<i>Aspergillus thermomutatus</i>	<i>Neosartorya pseudofischeri</i>	<i>Aspergillus thermomutatus</i>		2	
<i>Aspergillus tubingensis</i>		<i>Aspergillus tubingensis</i>	before <i>Aspergillus niger</i> var. <i>tubingensis</i>	2	P
<i>Aspergillus versicolor</i>		<i>Aspergillus versicolor</i>	known to produce toxin	2	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Aspergillus welwitschiae</i>			known to produce toxin; before <i>Aspergillus awamori</i>	2	P
<i>Basidiobolus haptosporus</i>	<i>Basidiobolus haptosporus</i>			2	
<i>Basidiobolus ranarum</i>	<i>Basidiobolus ranarum</i>			2	A
<i>Batrachochytrium dendrobatidis</i>	<i>Batrachochytrium dendrobatidis</i>			2	
<i>Beauveria pseudobassiana</i>		<i>Beauveria pseudobassiana</i>	known to produce toxin	2	A
<i>Bipolaris australiensis</i>	<i>Cochliobolus australiensis</i>	<i>Bipolaris australiensis</i>		2	P
<i>Blastomyces dermatitidis</i>	<i>Ajellomyces dermatitidis</i>	<i>Blastomyces dermatitidis</i>		3	A
<i>Blastomyces parvus</i>		<i>Emmonsia parva</i> var. <i>parva</i>		2	A
<i>Candida africana</i>		<i>Candida africana</i>	causes allergic reaction in human	2	
<i>Candida albicans</i>		<i>Candida albicans</i>	= <i>Candida stellatoidea</i> ; causes allergic reaction in human	2	
<i>Candida bracarensis</i>		<i>Candida bracarensis</i>	= <i>Nakaseomyces bracarensis</i>	2	
<i>Candida dubliniensis</i>		<i>Candida dubliniensis</i>		2	
<i>Candida glabrata</i>		<i>Candida glabrata</i>	= <i>Torulopsis glabrata</i> , <i>Nakaseomyces glabrata</i>	2	A
<i>Candida metapsilosis</i>		<i>Candida metapsilosis</i>		2	
<i>Candida nivariensis</i>		<i>Candida nivariensis</i>	= <i>Nakaseomyces nivariensis</i>	2	
<i>Candida orthopsilosis</i>		<i>Candida orthopsilosis</i>		2	
<i>Candida parapsilosis</i>		<i>Candida parapsilosis</i>		2	
<i>Candida pseudotropicalis</i>		<i>Candida pseudotropicalis</i>		2	
<i>Candida tropicalis</i>		<i>Candida tropicalis</i>		2	A
<i>Chrysosporium tropicum</i>		<i>Chrysosporium tropicum</i>		2	
<i>Cladophialophora arxii</i>		<i>Cladophialophora arxii</i>		2	
<i>Cladophialophora bantiana</i>		<i>Cladophialophora bantiana</i>		3	A
<i>Cladophialophora boppii</i>		<i>Cladophialophora boppii</i>		2	
<i>Cladophialophora carrionii</i>		<i>Cladophialophora carrionii</i>		2	
<i>Cladophialophora devriesii</i>		<i>Cladophialophora devriesii</i>		2	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Cladophialophora emmonsii</i>		<i>Cladophialophora emmonsii</i>		2	
<i>Cladophialophora immunda</i>		<i>Cladophialophora immunda</i>		2	
<i>Cladophialophora modesta</i>		<i>Cladophialophora modesta</i>		3	
<i>Cladophialophora mycetomatis</i>		<i>Cladophialophora mycetomatis</i>		2	
<i>Cladophialophora samoënsis</i>		<i>Cladophialophora samoënsis</i>		2	
<i>Cladosporium herbarum</i>	<i>Mycosphaerella tassiana</i>	<i>Cladosporium herbarum</i>		2	P
<i>Clonostachys rosea</i>		<i>Clonostachys rosea</i>	= <i>Gliocladium catenulatum</i>	2	P; A
<i>Clavispora lusitaniae</i>	<i>Clavispora lusitaniae</i>	<i>Candida lusitaniae</i>		2	
<i>Coccidioides immitis</i>		<i>Coccidioides immitis</i>		3	A
<i>Coccidioides posadasii</i>		<i>Coccidioides posadasii</i>		3	
	<i>Cochliobolus spiciferus</i>	<i>Curvularia spicifera</i>	before <i>Bipolaris spicifera</i>	2	P
<i>Colletotrichum coccodes</i>		<i>Colletotrichum coccodes</i>		2	P
<i>Colletotrichum dematium</i>		<i>Colletotrichum dematium</i>		2	P
<i>Colletotrichum gloeosporioides</i>	<i>Glomerella cingulata</i>	<i>Colletotrichum gloeosporioides</i>		2	P
<i>Colletotrichum graminicola</i>	<i>Glomerella tucumanensis</i>	<i>Colletotrichum graminicola</i>		2	P
<i>Conidiobolus coronatus</i>	<i>Conidiobolus coronatus</i>		= <i>Delacroixia coronata</i>	2	
<i>Conidiobolus incongruus</i>	<i>Conidiobolus incongruus</i>			2	
<i>Coniothyrium glycines</i>		<i>Phoma glycinicola</i>		2	P
	<i>Cordiceps bassiana</i>	<i>Beauveria bassiana</i>	known to produce toxin	2	A
	<i>Cordiceps brongniartii</i>	<i>Beauveria brongniartii</i>	known to produce toxin	2	A
<i>Cryphonectria parasitica</i>	<i>Cryphonectria parasitica</i>		= <i>Endothia parasitica</i>	2	P
<i>Cryptococcus gattii</i>	<i>Filobasidiella bacillispora</i>	<i>Cryptococcus gattii</i>		2	A
<i>Cryptococcus deneoformans</i>	<i>Filobasidiella neoformans</i>	<i>Cryptococcus deneoformans</i>	causes allergic reaction in human	2	A
<i>Cryptococcus neoformans</i>	<i>Filobasidiella neoformans</i>	<i>Cryptococcus neoformans</i>	causes allergic reaction in human	2	A
<i>Cunninghamella bertholletiae</i>	<i>Cunninghamella bertholletiae</i>			2	
<i>Curvularia australiensis</i>		<i>Drechslera australiensis</i>		2	P

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Curvularia clavata</i>		<i>Curvularia clavata</i>		2	P
<i>Curvularia geniculata</i>	<i>Cochliobolus geniculatus</i>	<i>Curvularia geniculata</i>		2	P
<i>Curvularia hawaiiensis</i>		<i>Drechslera hawaiiensis</i>		2	P
<i>Curvularia lunata</i>	<i>Cochliobolus lunatus</i>	<i>Curvularia lunata</i>		2	P
<i>Curvularia pallescens</i>	<i>Cochliobolus pallescens</i>	<i>Curvularia pallescens</i>		2	P
<i>Curvularia spicifera</i>		<i>Drechslera spicifera</i>		2	P
<i>Curvularia verruculosa</i>	<i>Cochliobolus verruculosus</i>	<i>Curvularia verruculosa</i>		2	P
<i>Cutaneotrichosporon cutaneum</i>		<i>Trichosporon cutaneum</i>		2	
<i>Cutaneotrichosporon mucoides</i>		<i>Trichosporon mucoides</i>		2	
<i>Cyphellophora europaea</i>		<i>Phialophora europaea</i>		2	
<i>Cyphellophora suttonii</i>		<i>Pseudomicrodochium suttonii</i>		2	
<i>Dichotomophthora portulacae</i>		<i>Dichotomophthora portulacae</i>		2	P
<i>Dissitimurus exedruss</i>		<i>Dissitimurus exedruss</i>		2	
<i>Emergomyces pasteurianus</i>		<i>Emmonsia pasteuriana</i>		2	
<i>Epicoccum sorghinum</i>		<i>Phoma sorghina</i>	known to produce toxin	2	P
<i>Epidermophyton floccosum</i>		<i>Epidermophyton floccosum</i>	causes allergic reaction in human	2	
	<i>Eremomyces langeronii</i>	<i>Arthrographis kalrae</i>		2	
<i>Eremothecium cymbalariae</i>				2	P
<i>Exophiala asiatica</i>		<i>Exophiala asiatica</i>		2	
<i>Exophiala attenuata</i>		<i>Exophiala attenuata</i>		2	
<i>Exophiala bergeri</i>		<i>Exophiala bergeri</i>		2	
<i>Exophiala castellanii</i>		<i>Exophiala castellanii</i>		2	
<i>Exophiala dermatitidis</i>		<i>Exophiala dermatitidis</i>		2	A
<i>Exophiala jeanselmei</i>		<i>Exophiala jeanselmei</i>		2	A
<i>Exophiala lecanii-corni</i>		<i>Exophiala lecanii-corni</i>		2	
<i>Exophiala mansonii</i>		<i>Exophiala mansonii</i>		2	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Exophiala moniliae</i>		<i>Exophiala moniliae</i>		2	
<i>Exophiala oligosperma</i>		<i>Exophiala oligosperma</i>		2	
<i>Exophiala phaeomuriformis</i>		<i>Exophiala phaeomuriformis</i>	= <i>Sarcinomyces phaeomuriformis</i>	2	
<i>Exophiala pisciphila</i>		<i>Exophiala pisciphila</i>		2	A
<i>Exophiala salmonis</i>		<i>Exophiala salmonis</i>		2	A
<i>Exophiala spinifera</i>		<i>Exophiala spinifera</i>	= <i>Rhinoctadiella spinifera</i>	2	
<i>Falciformispora senegalensis</i>	<i>Leptosphaeria senegalensis</i>			2	
<i>Falciformispora tompkinsii</i>	<i>Leptosphaeria thompkinsii</i>			2	
<i>Fomitopsis pinicola</i>	<i>Fomitopsis pinicola</i>			2	P
<i>Fonsecaea monophora</i>		<i>Fonsecaea monophora</i>		2	
<i>Fonsecaea pedrosoi</i>		<i>Fonsecaea compacta</i>	= <i>Rhinoctadiella compacta</i> , <i>Rhinoctadiella pedrosoi</i>	2	
<i>Fusarium falciforme</i>		<i>Acremonium falciforme</i>	= <i>Fusarium falciforme</i>	2	
<i>Fusarium oxysporum</i>		<i>Fusarium oxysporum</i>	known to produce toxin	2	P
<i>Fusarium proliferatum</i>	<i>Gibberella fujikuroi</i>	<i>Fusarium proliferatum</i>	known to produce toxin	2	P
<i>Fusarium sacchari</i>		<i>Fusarium sacchari</i>		2	P
<i>Fusarium subglutinans</i>	<i>Gibberella fujikuroi</i> var. <i>subglutinans</i>	<i>Fusarium subglutinans</i>	known to produce toxin	2	P
<i>Fusarium verticillioides</i>	<i>Gibberella moniliformis</i>	<i>Fusarium verticillioides</i>	known to produce toxin	2	P
<i>Ganoderma australe</i>	<i>Ganoderma australe</i>		<i>G. austral</i> = <i>Ganoderma adpersum</i> (before <i>G. europaeum</i>)	2	P
<i>Geotrichum candidum</i>	<i>Galactomyces geotrichum</i>	<i>Geotrichum candidum</i>		2	P
<i>Gymnoascus dankaliensis</i>	<i>Gymnoascus dankaliensis</i>			2	
<i>Histoplasma capsulatum</i>	<i>Ajellomyces capsulatus</i>	<i>Histoplasma capsulatum</i>	<i>A. capsulatus</i> = <i>Emmonsiella capsulata</i>	3	A
<i>Histoplasma capsulata</i> var. <i>duboisii</i>		<i>Histoplasma duboisii</i>	= <i>Histoplasma capsulata</i> var. <i>Duboisii</i>	3	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Histoplasma capsulata</i> var. <i>farciminosum</i>		<i>Histoplasma farciminosum</i>	= <i>Histoplasma capsulata</i> var. <i>Farciminosum</i>	2	A
	<i>Hypocrea koningii</i>	<i>Trichoderma koningii</i>		2	F
	<i>Hypocrea rufa</i>	<i>Trichoderma viride</i>		2	F; A
<i>Ilyonectria destructans</i>	<i>Nectria radicola</i>	<i>Cylindrocarpon destructans</i>		2	P
<i>Keratinomyces ajelloi</i>		<i>Keratinomyces ajelloi</i>		2	
<i>Lacazia loboi</i>		<i>Loboa loboi</i>	= <i>Lacazia loboi</i>	2	A
<i>Lasiodiplodia theobromae</i>	<i>Botryosphaeria rhodina</i>	<i>Lasiopodia theobromae</i>		2	P
<i>Lecanicillium fungicola</i>		<i>Lecanicillium fungicola</i>	= <i>Verticillium fungicola</i>	2	F
<i>Lichtheimia corymbifera</i>	<i>Lichtheimia corymbifera</i>		= <i>Mycocladus corymbifera</i> = <i>Absidia corymbifera</i>	2	A
<i>Lichtheimia ornata</i>	<i>Absidia ornata</i>		= <i>Lichtheimia ornata</i>	2	
<i>Lichtheimia ramosa</i>	<i>Lichtheimia ramosa</i>		= <i>Mycocladus lutetiensis</i>	2	
<i>Lomentospora prolificans</i>		<i>Scedosporium prolificans</i>		2	
<i>Lophophyton gallinae</i>	<i>Arthroderma grubyi</i>	<i>Microsporum gallinae</i>		2	A
<i>Madurella mycetomatis</i>		<i>Madurella mycetomatis</i>		2	
<i>Magnusiomyces capitatus</i>	<i>Magnusiomyces capitatus</i>	<i>Saprochaete capitata</i>	<i>M. capitatus</i> = <i>Dipodascus capitatus</i> ; <i>S. capitata</i> = <i>Geotrichum capitatum</i> = <i>Blastoschizomyces capitatus</i>	2	
<i>Magnusiomyces clavatus</i>		<i>Saprochaete clavata</i>		2	
<i>Malassezia furfur</i>		<i>Malassezia furfur</i>		2	
<i>Malassezia globosa</i>		<i>Malassezia globosa</i>	= <i>Pityrosporum orbiculara</i>	2	
<i>Malassezia obtusa</i>		<i>Malassezia obtusa</i>		2	
<i>Malassezia pachydermatis</i>		<i>Malassezia pachydermatis</i>		2	A
<i>Malassezia restricta</i>		<i>Malassezia restricta</i>		2	
<i>Malassezia slooffiae</i>		<i>Malassezia slooffiae</i>		2	
<i>Malassezia sympodialis</i>		<i>Malassezia sympodialis</i>		2	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Medicopsis romeroi</i>		<i>Pyrenochaeta romeroi</i>		2	
<i>Metarhizium anisopliae</i>		<i>Metarhizium anisopliae</i>		2	A
<i>Microascus paisii</i>		<i>Scopulariopsis brumptii</i>		2	
<i>Microsporium audouinii</i>		<i>Microsporium audouinii</i>	= <i>Microsporium langeronii</i> = <i>Microsporium rivalieri</i>	2	
<i>Microsporium canis</i>	<i>Arthroderma otae</i>	<i>Microsporium canis</i>	<i>A. otae</i> = <i>Nannizzia otae</i>	2	A
<i>Microsporium canis</i>	<i>Microsporium canis</i>	<i>Microsporium distortum</i>	= <i>Microsporium canis</i> var. <i>Distortum</i>	2	
<i>Microsporium duboisii</i>		<i>Microsporium duboisii</i>		2	
<i>Microsporium equinum</i>		<i>Microsporium equinum</i>	= <i>Microsporium canis</i> var. <i>Distortum</i>	2	
<i>Microsporium ferrugineum</i>		<i>Microsporium ferrugineum</i>		2	
<i>Mortierella wolfii</i>	<i>Mortierella wolfii</i>			2	A
<i>Mucor amphibiorum</i>	<i>Mucor amphibiorum</i>			2	
<i>Mucor circinelloides</i>			before <i>Mucor circinelloides</i> f. <i>circinelloides</i>	2	A
<i>Mucor griseocyanus</i>			before <i>Mucor circinelloides</i> f. <i>griseocyanu</i>	2	A
<i>Mucor hiemalis</i>	<i>Mucor hiemalis</i>			2	P
<i>Mucor irregularis</i>	<i>Rhizomucor variabilis</i>			2	
<i>Mucor janssenii</i>			before <i>Mucor circinelloides</i> f. <i>janssenii</i>	2	A
<i>Mucor racemosus</i>	<i>Mucor racemosus</i>			2	P
<i>Mycocentrospora acerina</i>		<i>Mycocentrospora acerina</i>		2	P
<i>Nannizzia fulva</i>	<i>Arthroderma fulvum</i>	<i>Microsporium fulvum</i>	<i>A. fulvum</i> = <i>Nannizzia fulva</i> , <i>M.</i> <i>fulvum</i> = <i>Microsporium</i> <i>boullardii</i> = <i>Trichophyton</i> <i>longifusum</i>	2	
<i>Nannizzia fulva</i>	<i>Arthroderma incurvatum</i>	<i>Microsporium gypseum</i>		2	A
<i>Nannizzia nana</i>	<i>Arthroderma obtusum</i>	<i>Microsporium nanum</i>	<i>A. obtusum</i> = <i>Nannizzia obtusa</i>	2	A

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Nannizzia persicolor</i>	<i>Arthroderma persicolor</i>	<i>Microsporium persicolor</i>	<i>A. persicolor</i> = <i>Nannizzia persicolor</i>	2	A
<i>Nannizzia praecox</i>		<i>Microsporium praecox</i>		2	
<i>Neocosmospora cyanescens</i>		<i>Cylindrocarpon cyanescens</i>		2	
<i>Neocosmospora solani</i>	<i>Nectria haematococca</i> var. <i>breviconia</i>	<i>Fusarium solani</i>	known to produce toxin	2	P
<i>Neocucurbitaria unguis-hominis</i>		<i>Pyrenochaeta unguishominis</i>		2	
<i>Neoscytalidium dimidiatum</i>		<i>Scytalidium dimidiatum</i>	= <i>Neoscytalidium dimidiatum</i> , <i>Scytalidium hyalinum</i> en <i>Natrassia mangiferae</i>	2	
<i>Neotestudina rosatii</i>	<i>Neotestudina rosatii</i>			2	
<i>Nigrograna mackinnonii</i>		<i>Pyrenochaeta mackinnonii</i>		2	
<i>Nigrospora sphaerica</i>		<i>Nigrospora sphaerica</i>		2	P
<i>Ochroconis humicola</i>		<i>Ochroconis humicola</i>		2	
<i>Ochroconis tshawytschae</i>		<i>Ochroconis tshawytschae</i>		2	
<i>Ophiostoma roboris</i>	<i>Ophiostoma roboris</i>			2	
<i>Ophiostoma ulmi</i>	<i>Ophiostoma ulmi</i>		before <i>Graphium ulmi</i>	2	P
<i>Ovulinia azalea</i>	<i>Ovulinia azalea</i>			2	P
<i>Paecilomyces variotii</i>		<i>Paecilomyces variotii</i>	known to produce toxin	2	
<i>Paracoccidioides brasiliensis</i>		<i>Paracoccidioides brasiliensis</i>		3	
<i>Paracoccidioides lutzii</i>		<i>Paracoccidioides lutzii</i>		3	
<i>Paraconiothyrium fuckelii</i>	<i>Leptosphaeria coniothyrium</i>	<i>Coniothyrium fuckelii</i>		2	P
<i>Peronosclerospora philippinensis</i>	<i>Peronosclerospora philippinensis</i>			2	P
<i>Phaeoacremonium krajdienii</i>		<i>Phaeoacremonium krajdienii</i>		2	
<i>Phaeoacremonium parasiticum</i>	<i>Togninia parasitica</i>	<i>Phaeoacremonium parasiticum</i>	= <i>Phialophora parasitica</i>	2	P
<i>Phellinus pini</i>	<i>Phellinus pini</i>			2	P
<i>Phialemonium curvatum</i>		<i>Phialemonium curvatum</i>		2	
<i>Phialemonium dimorphosporum</i>		<i>Phialemonium dimorphosporum</i>		2	

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<i>Phialemonium obovatum</i>		<i>Phialemonium obovatum</i>		2	
<i>Phialophora americana</i>	<i>Capronia semiimmersa</i>	<i>Phialophora americana</i>		2	
<i>Phialophora verrucosa</i>		<i>Phialophora verrucosa</i>		2	
<i>Phoma crurishominis</i>		<i>Phoma crurishominis</i>		2	
<i>Phoma eupyrena</i>		<i>Phoma eupyrena</i>		2	P
<i>Phoma glomerata</i>		<i>Phoma glomerata</i>		2	P
<i>Phoma herbarum</i>		<i>Phoma herbarum</i>		2	P
<i>Pichia kudriavzevii</i>	<i>Pichia kudriavzevii</i>	<i>Candida krusei</i>	<i>P. kudriavzevii</i> = <i>Issatchenkia orientalis</i>	2	A
	<i>Plectosphaerella cucumerina</i>	<i>Plectosporium tabacinum</i>		2	P
<i>Pleurostoma richardsiae</i>		<i>Pleurostoma richardsiae</i>	= <i>Phialophora richardsiae</i> , <i>Pleurostomophora richardsiae</i>	2	
<i>Pneumocystis jirovecii</i>	<i>Pneumocystis jirovecii</i>			2	
<i>Pseudochaetosphaeronema larense</i>		<i>Pseudochaetosphaeronema larense</i>		2	
<i>Pseudogymnoascus destructans</i>		<i>Geomyces destructans</i>	<i>Pseudogymnoascus destructans</i>	2	A
<i>Pyrenophora biseptata</i>		<i>Drechslera biseptata</i>		2	P
<i>Pythium insidiosum</i>	<i>Pythium insidiosum</i>			2	A
<i>Quambalaria cyanescens</i>		<i>Cerinosterus cyanescens</i>	= <i>Fugomyces cyanescens</i>	2	
<i>Redaellia elegans</i>		<i>Redaellia elegans</i>		2	
<i>Rhinocladiella aquaspersa</i>		<i>Rhinocladiella aquaspersa</i>		2	
<i>Rhinocladiella mackenziei</i>		<i>Ramichloridium mackenziei</i>	= <i>Rhinocladiella mackenziei</i>	3	
<i>Rhinocladiella similis</i>		<i>Rhinocladiella similis</i>		2	
<i>Rhinosporidium seeberi</i>	<i>Rhinosporidium seeberi</i>			2	
<i>Rhizomucor pusillus</i>	<i>Rhizomucor pusillus</i>			2	
<i>Rhizopus azygosporus</i>	<i>Rhizopus azygosporus</i>			2	
<i>Rhizopus microsporus</i>	<i>Rhizopus microsporus</i>			2	
<i>Rhizopus oryzae</i>	<i>Rhizopus oryzae</i>		= <i>Rhizopus arrhizus</i>	2	P

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<i>Rhizopus schipperae</i>	<i>Rhizopus schipperae</i>			2	
<i>Rhizopus stolonifer</i>	<i>Rhizopus stolonifer</i>			2	P
<i>Saksenaea vasiformis</i>	<i>Saksenaea vasiformis</i>			2	
<i>Saprochaete clavatum</i>		<i>Geotrichum clavatum</i>		2	
<i>Sarocladium kiliense</i>		<i>Acremonium kiliense</i>	= <i>Sarocladium kiliense</i>	2	
<i>Sarocladium strictum</i>		<i>Sarocladium strictum</i>	= <i>Acremonium strictum</i>	2	P
<i>Scedosporium apiospermum</i>		<i>Polycytella hominis</i>	= <i>Monosporium apiospermum</i> = <i>Scedosporium apiospermum</i> = <i>Polycytella hominis</i> = <i>Pseudallescheria apiosperma</i>	2	A
<i>Scedosporium apiospermum</i>	<i>Pseudallescheria fusoidea</i>	<i>Scedosporium apiospermum</i>		2	
<i>Scedosporium aurantiacum</i>		<i>Scedosporium aurantiacum</i>		2	
<i>Scedosporium boydii</i>	<i>Pseudallescheria boydii</i>	<i>Scedosporium boydii</i>	<i>S. boydii</i> = <i>Graphium eumorphum</i>	2	A
<i>Schizophyllum commune</i>	<i>Schizophyllum commune</i>			2	P
<i>Sclerophtora rayssiae</i> var. <i>zeaea</i>	<i>Sclerophtora rayssiae</i> var. <i>zeaea</i>			2	P
<i>Scopulariopsis brevicaulis</i>	<i>Microascus brevicaulis</i>	<i>Scopulariopsis brevicaulis</i>		2	
	<i>Setosphaeria rostrata</i>	<i>Exerohilum rostratum</i>		2	P
<i>Sporothrix brasiliensis</i>		<i>Sporothrix brasiliensis</i>		2	
<i>Sporothrix globosa</i>		<i>Sporothrix globosa</i>		2	
<i>Sporothrix luriei</i>		<i>Sporothrix luriei</i>		2	
<i>Sporothrix pallida</i>		<i>Sporothrix pallida</i>		2	
<i>Sporothrix schenckii</i>		<i>Sporothrix schenckii</i>		2	A
<i>Stagonosporopsis oculo-hominis</i>		<i>Phoma demissii</i> v. <i>oculohominis</i>		2	
<i>Stenella araguata</i>		<i>Stenella araguata</i>		2	
	<i>Sydowia polyspora</i>	<i>Hormonema dematioides</i>		2	P
<i>Syncephalastrum racemosum</i>	<i>Syncephalastrum racemosum</i>			2	
<i>Talaromyces marneffeii</i>		<i>Penicillium marneffeii</i>	causes allergic reaction in human	2	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Trematosphaeria grisea</i>		<i>Madurella grisea</i>		2	
<i>Trichoderma aggressivum</i>		<i>Trichoderma aggressivum</i>	known to produce toxin	2	F
<i>Trichomonascus ciferrii</i>	<i>Trichomonascus ciferrii</i>	<i>Candida ciferrii</i>	<i>T. ciferrii</i> = <i>Stephanoascus ciferrii</i>	2	
<i>Trichophyton concentricum</i>		<i>Trichophyton concentricum</i>		2	
<i>Trichophyton equinum</i>		<i>Trichophyton equinum</i>		2	A
<i>Trichophyton interdigitale</i>	<i>Arthroderma vanbreuseghemii</i>	<i>Trichophyton krajenii</i>	= <i>Trichophyton interdigitale</i>	2	
<i>Trichophyton mentagrophytes</i>	<i>Arthroderma vanbreuseghemii</i>	<i>Trichophyton mentagrophytes</i>	known to produce toxin	2	
<i>Trichophyton phaseoliforme</i>		<i>Trichophyton phaseoliforme</i>		2	
<i>Trichophyton rubrum</i>		<i>Trichophyton fischeri</i>	= <i>Trichophyton rubrum</i>	2	
<i>Trichophyton rubrum</i>		<i>Trichophyton gourvilii</i> var. <i>intermedium</i>	= <i>Trichophyton rubrum</i>	2	A
<i>Trichophyton rubrum</i>		<i>Trichophyton kanei</i>	= <i>Trichophyton rubrum</i>	2	
<i>Trichophyton rubrum</i>		<i>Trichophyton raubitschekii</i>	= <i>Trichophyton rubrum</i>	2	
<i>Trichophyton rubrum</i>		<i>Trichophyton rubrum</i>	= <i>Trichophyton fischeri</i> = <i>Trichophyton gourvilii</i> var. <i>intermedium</i> = <i>Trichophyton kanei</i> = <i>Trichophyton raubitschekii</i> ; known to produce toxin	2	A
<i>Trichophyton schoenleinii</i>		<i>Trichophyton schoenleinii</i>		2	
<i>Trichophyton simii</i>	<i>Arthroderma simii</i>	<i>Trichophyton simii</i>		2	A
<i>Trichophyton tonsurans</i>		<i>Trichophyton tonsurans</i>		2	
<i>Trichophyton verrucosum</i>		<i>Trichophyton verrucosum</i>		2	A
<i>Trichophyton violaceum</i>		<i>Trichophyton violaceum</i>	= <i>Trichophyton soudanense</i> , <i>Trichophyton yaoundei</i> ; known to produce toxin	2	
<i>Trichosporon asahii</i>		<i>Trichosporon asahii</i>		2	
<i>Trichosporon asteroides</i>		<i>Trichosporon asteroides</i>		2	

Name	Teleomorph (= sexual) name	Anamorph (= asexual) name	Remarks	Class	Pathogenic for plants (P), animals (A), fungi (F)
<i>Trichosporon beigelii</i>		<i>Trichosporon beigelii</i>		2	
<i>Trichosporon dohaense</i>		<i>Trichosporon dohaense</i>		2	
<i>Trichosporon inkin</i>		<i>Trichosporon inkin</i>		2	
<i>Trichosporon ovoides</i>		<i>Trichosporon ovoides</i>		2	
<i>Tritirachium oryzae</i>		<i>Tritirachium oryzae</i>		2	P
<i>Verruconis gallopava</i>		<i>Ochroconis gallopava</i>		2	A
<i>Verticillium alboatrum</i>		<i>Verticillium alboatrum</i>		2	P
<i>Verticillium dahliae</i>		<i>Verticillium dahliae</i>		2	P
<i>Verticillium lecanii</i>			before <i>Lecanicillium muscarium</i>	2	A

=: is also known under the name