# Natural history of microorganisms, fungi, algae

Standard subdivisions are added for microorganisms, fungi, algae together; for microorganisms alone

Class here Protista, Thallobionta (Thallophyta)

Class here microbiology, protophytes; descriptive biology of microorganisms, fungi, algae; taxonomic biology of microorganisms, fungi, algae; comprehensive works on biology of microorganisms, fungi, algae; interdisciplinary works on microorganisms, fungi, algae

For internal biological processes of microorganisms, fungi, algae, see 571.29. For a specific aspect of microorganisms, fungi, algae, see the aspect, e.g., cooking mushrooms 641.658

See Manual at 577.3–577.7 vs. 579–590; also at 579–590; also at 579–590 vs. 571–575; also at 630 vs. 579–590, 641.3

.244 5 \*Papovaviridae

Including Papillomavirus, Polyomavirus, Simian virus 40

## .3 \*Prokaryotes

Variant names: Monera, Schizomycetes, Schizophyta

Class here Eubacteriales

Class here bacteria, bacteriology, comprehensive works on bacteria and viruses

Class bacteria culture for biological research in 571.638293

For viruses, see 579.2

See Manual at 579.3

#### .32 Minor kinds of bacteria

Not provided for elsewhere

Including Myxobacteria, Spirochetes

Including chemolithotrophic bacteria, colorless sulfur bacteria

Class comprehensive works on minor kinds of bacteria in 579.3

See Manual at 579.3

#### .321 \*Archaeobacteria

Including Halobacteriaceae

Including halophilic bacteria, methanogenic bacteria

<sup>\*</sup>Add as instructed under 579.2-579.8

#### .39 \*Cyanobacteria and Prochlorales

Oxygenic photosynthetic bacteria

Variant name for Cyanobacteria: Cyanophyta

Including Chroococcales, Nostocales, Oscillatoriales

Class here blue-green algae

Subdivisions are added for Cyanobacteria and Prochlorales together, for Cyanobacteria alone

## .42 \*Zoomastigophorea

Class here zooflagellates

Class phytoflagellates, comprehensive works on flagellates in 579.82

#### .432 \*Amoebida

Class here amoebas

## .49 \*Ciliophora

Class here Ciliatea

Class here ciliates

## .5 \*Fungi

Class here Eumycophyta

Class here mycology; filamentous fungi, true fungi

Class comprehensive works on molds, on mildew in 579.53

For lichens, see 579.7; for comprehensive works on mushrooms, on macrofungi, see 579.6

## .52 \*Myxomycotina

Variant names: Mycetozoa, Myxomycetes, Myxomycophyta, Myxomycota

Including Acrasia, Physarales, Stemonitales, Trichiales

Including cellular slime molds

Class here Myxogastromycetidae

Class here slime molds

For Plasmodiophoromycetes, see 579.53

## > 579.53–579.59 Eumycophyta

Class comprehensive works in 579.5

<sup>\*</sup>Add as instructed under 579.2-579.8

### .53 \*Miscellaneous fungi

Not provided for elsewhere

Including Chytridiomycetes, Hyphochytridiomycetes, Plasmodiophoromycetes, Rhizopus, Trichomycetes, Zygomycetes

Including bread molds, uniflagellate molds

Class here Mastigomycotina, Phycomycetes

Class here comprehensive works on molds, on mildew

Class slime molds in 579.52

For Oomycetes, see 579.54; for ascomycete molds and mildew, see 579.56

## .546 \*Peronosporales

Including Phytophthora

Class here downy mildew

## .55 \*Deuteromycotina

Variant name: Deuteromycetes, Fungi Imperfecti

Including Coelomycetes, Hyphomycetes, Melanconiales, Moniliales, Mycelia Sterilia, Sphaeropsidales

Including sterile fungi

Class here imperfect fungi

When sexual reproduction of some members of a specific genus of imperfect fungi has been established with a specific kind of sexually reproducing fungi, class the genus with the kind of the sexually reproducing fungi, e.g., Penicillium 579.5654, Fusarium 579.5677. If, however, members of the genus are assigned to different families of fungi, class them here, e.g., Septoria 579.55

#### .56 \*Ascomycotina

Class here Ascomycetes

For Discomycetes, see 579.57

#### .562 \*Hemiascomycetes

Including Protomycetales, Taphrinales; comprehensive works on Saccharomycetaceae

Including comprehensive works on yeasts

Class here Endomycetales

For Saccharomyces, see 579.563. For a specific kind of yeasts not in family Saccharomycetaceae, see the kind, e.g., basidiomycete yeasts 579.59

<sup>\*</sup>Add as instructed under 579.2-579.8

.563 \*Saccharomyces

Class here common yeasts

Subdivisions are added for the genus as a whole and for individual species

Class comprehensive works on Saccharomycetaceae in 579.562

.57 \*Discomycetes

Including Helotiales, Ostropales, Phacidiales, Tuberales

Including truffles

Class here cup fungi

.578 \*Pezizales

Including Ascobolus

Including morels, saddle fungi

.59 \*Basidiomycotina

Including Exobasidiales, Tremellales

Including basidiomycete yeasts, jelly fungi

Class here Basidiomycetes, Heterobasidiomycetes, Homobasidiomycetes

For Agaricales, comprehensive works on mushrooms, see 579.6

.592 \*Uredinales

Class here rusts

.593 \*Ustilaginales

Class here smuts

.597 \*Polyporales

Variant name: Aphyllophorales

Including bracket fungi, club fungi, coral fungi, pore fungi, shelf fungi

.599 \*Gasteromycetes

Including Lycoperdales, Nidulariales, Phallales

Including bird's-nest fungi, puffballs, stinkhorns

<sup>\*</sup>Add as instructed under 579.2-579.8

579

#### .6 \*Mushrooms

Including Boletaceae, Hydnaceae, Thelephoraceae

Including boletes, leather fungi, spine fungi

Class here Agaricales, Agaricaceae

Class here gill fungi, macrofungi, toadstools

Class comprehensive works on Basidiomycotina in 579.59

For mushrooms, macrofungi of a specific order other than Agaricales, see the order in 579.5, e.g., morels 579.578

## .82 \*Minor divisions of algae

Including Chloromonadophyta, Cryptophyta, Xanthophyta

Including yellow-green algae

Class here Phytomastigophorea

Class here phytoflagellates; comprehensive works on flagellates, on organisms that may be regarded as either protozoa or algae

For a specific kind of flagellate, see the kind, e.g., Zoomastigophorea 579.42, Oomycetes 579.54, dinoflagellates 579.87; for a specific organism that may be regarded as either protozoa or algae, see the kind in 579.8, e.g., euglenoids 579.84

## .83 \*Chlorophyta

Including Chaetophorales, Prasinophyceae, Siphonocladales

Class here Chlorophyceae

Class here green algae, green seaweeds

## .837 \*Zygnematales

Variant name: Conjugales

Including Desmidiaceae

Including desmids

#### .839 \*Charophyceae

Class here Charales

Class here stoneworts

## .84 \*Euglenophyta

Variant name: Euglenida

Class here euglenoids

#### .85 \*Bacillariophyceae

Class here diatoms

<sup>\*</sup>Add as instructed under 579.2-579.8

## .86 \*Chrysophyta

Including Haptophyceae

Class here Chrysophyceae

Class here golden algae

# .87 \*Pyrrophyta

Including Desmophyceae, Pfiesteriaceae

Including red tide

Class here Dinophyceae

Class here dinoflagellates

## .88 \*Phaeophyta

Class here Phaeophyceae

Class here brown algae, comprehensive works on seaweeds

For green seaweeds, see 579.83; for red seaweeds, see 579.89

## .89 \*Rhodophyta

Including Bangiophycideae

Including red seaweeds

Class here Florideophycideae, Rhodophyceae

Class here red algae

Class red tide in 579.87

<sup>\*</sup>Add as instructed under 579.2-579.8