

# A SIMPLIFIED CLASSIFICATION OF LIFE

## KINGDOM MONERA

- Phylum Archaeobacteria (methanogens, extreme halophiles)
- Phylum Eubacteria (schizophyta) (most common bacteria)
- Phylum Cyanobacteria (cyanophyta) (blue-green algae)

## KINGDOM PROTISTA

- Phylum Sarcodina (*Amoeba*)
- Phylum Mastigophora (*Trypanosoma*)
- Phylum Ciliophora (*Paramecium*)
- Phylum Sporozoa (*Plasmodium* (malaria))
- Phylum Euglenophyta (*Euglena*)
- Phylum Chrysophyta (*diatoms*)
- Phylum Pyrrophyta (red tide dinoflagellates)

## KINGDOM FUNGI

- Division Mastigomycota (chytrids and water molds)
- Division Amastigomycota
  - Class Zygomycetes (black bread mold *Rhizopus*)
  - Class Ascomycetes (yeasts, truffles)
  - Class Basidiomycetes (mushrooms)
- Division Deuteromycota (*Penicillium*)

## KINGDOM PLANTAE

- Phylum Phaeophyta (brown algae, kelp)
- Phylum Rhodophyta (red algae, dulse)
- Phylum Chlorophyta (green algae, *Ulva*, *Spirogyra*)
- Phylum Bryophyta (mosses and liverworts)
- Phylum Tracheophyta (vascular plants)
  - Division Psilotophyta (psilopsids (whisk ferns))
  - Division Pterophyta (ferns)
  - Division Ginkgophyta (ginkgos)
  - Division Tracheophyta (seed-bearing plants)
    - Subdivision Gymnospermae (coniferous trees)
    - Subdivision Angiospermae (flowering plants)
      - Class Monocotyledonae (grasses)
      - Class Dicotyledonae (flowering plants)



## A SIMPLIFIED CLASSIFICATION OF LIFE cont'd

### KINGDOM ANIMALIA

- Phylum Porifera (sponges)
- Phylum Cnidaria (the stinging animals)
  - Class Hydrozoa (*Hydra*)
  - Class Scyphozoa (jellyfish)
  - Class Anthozoa (sea anemones)
- Phylum Ctenophora (comb jellies)
- Phylum Platyhelminthes (flatworms)
  - Class Turbellaria (*Planaria*)
  - Class Trematoda (flukes)
  - Class Cestoda (tapeworms)
- Phylum Nematoda (roundworms, *Ascaris*)
- Phylum Rotifera (rotifers)
- Phylum Annelida (segmented worms)
  - Class Polychaeta (marine worms)
  - Class Oligochaeta (earthworms)
  - Class Hirudinea (leeches)
- Phylum Mollusca (mollusks)
  - Class Polyplacophora (chitons)
  - Class Gastropoda (snails)
  - Class Bivalvia (clams)
  - Class Cephalopoda (octopus)
- Phylum Arthropoda
  - Class Chilopoda (centipedes)
  - Class Diplopoda (millipedes)
  - Class Crustacea (lobster)
  - Class Arachnida (spiders)
  - Class Insecta (insects)
- Phylum Echinodermata ("spiny-skinned" animals)
  - Class Asterozoa (star fish, sea stars)
  - Class Ophiurozoa (brittle stars)
  - Class Holothurozoa (sea cucumbers)
  - Class Crinozoa (sea feathers, sea fans)

### Phylum Chordata

- Subphylum Urochordata (tunicates, sea squirts)
- Subphylum Cephalochordata (*Amphioxus*)
- Subphylum Vertebrata (animals with backbones)
  - Class Agnatha (jawless fishes (lamprey))
  - Class Chondrichthyes (cartilaginous fishes (sharks))
  - Class Osteichthyes (bony fish)
    - Subclass Dipnoi (lungfish)
    - Subclass Crossopterygii (lobe-finned fishes, *Coelacanth* (mostly extinct))
    - Subclass Actinopterygii (ray-finned fish (salmon))
  - Class Amphibia (frogs, salamanders)
  - Class Reptilia (reptiles)
    - Subclass Anapsida (turtles)
    - Subclass Lepidosauria (lizards)
    - Subclass Archosauria (dinosaurs, crocodiles)
  - Class Aves (birds)
  - Class Mammalia (mammals)
    - Subclass Protheria (monotremes (duck-billed platypus))
    - Subclass Metatheria (marsupials (kangaroo))
    - Subclass Eutheria (placentals (humans))

