

ADVANCED FORMS

III. Animals (well-organized multicellular types grouped into 20 to 25 phyla)

IV. Plants (well-organized multicellular types, usually capable of photosynthesis, placed in two phyla)

3. Synopsis of the Classification of Organisms (under the two-kingdom system)

The following is taken from Paul B. Weisz's work, *Biology* (New York: McGraw-Hill Publishing Co., 1954) Appendix A

THE PLANT KINGDOM

PHYLUM THALLOPHYTA (100,000 species)

Subphylum Schizophyta

Class Bacteria

Class Cyanophyceae -- blue-green algae

Subphylum Algae

Class Chlorophyceae -- green algae

Order Volvocales -- *Volvox*

Order Conjugales -- *Spirogyra*

Order Ulotrichales -- *Ulothrix*

Class Rhodophyceae -- red algae

Class Phaeophyceae -- brown algae

Class Bacillariaceae -- diatoms

Class Flagellata -- euglenoids

Subphylum Fungi

Class Myxomycetes -- slime molds

Class Phycomycetes -- bread mold

Class Ascomycetes -- yeasts, *Penicillium*

Class Basidiomycetes -- mushrooms, rusts, smuts

PHYLUM BRYOPHYTA (25,000 species)

Class Hepaticae -- liverworts

Class Musci -- mosses

PHYLUM PTERIDOPHYTA (15,000 species)

Class Lycopodiaceae -- clubmosses, ground pines

Class Equisetaceae -- horse tails, scouring rushes

Class Filicinae -- ferns

PHYLUM SPERMATOPHYTA (200,000 species)

Subphylum Gymnospermae

Order Cycadales -- cycads

Order Coniferales -- pine, fir, spruce

Subphylum Angiospermae

Class Dicotyledoneae -- dicots

Subclass Archichlamydeae

Order Amentiferae -- oak, birch, walnut, chestnut

Order Rosales -- rose, apple, strawberry, pear, peach, cherry, bean, pea, peanut

Order Papaverales -- mustard, cabbage, poppy, turnip

Order Malvales -- cotton, cocoa, fig, hemp, elm

Order Ranales -- avocado, camphor, laurel, magnolia, buttercup, columbine