

An Overview of Protistan Diversity

Domain Eukarya		
Major Clade (Kingdom?)	Characteristics	Example
I. Diplomonadida	2 nuclei, modified mitochondria	<i>Giardia</i>
II. Parabasala	Undulating membrane, modified mitochondria	<i>Trichomas</i>
III. Eugleozoa	Flagellates	<i>Euglena, Trypanosoma</i>
IV. Aveolata A. Dinoflagellates B. Apicomplexans C. Ciliates	III. Subsurface alveoli A. Armor of cellulose plates B. Parasitic & spore forming C. Cilia for moving & feeding	A. <i>Pfiesteria</i> B. <i>Plasmodium</i> C. <i>Paramecium</i>
V. Stramenopila A. Oomycetes-water molds B. Heterokont Algae 1. diatoms 2. golden algae 3. brown algae	IV. "Hairy" flagella A. Hyphae to absorb nutrients B. Photosynthetic 1. glassy walls 2. xanthophylls 3. brown color	A. water molds, rusts, downy mildews B. Algae 1. diatoms 2. golden algae 3. brown algae
VI. Cercozoa and Radiolaria A. Foraminifera B. Radiolarians	Pseudopods for moving & feeding A. Lobe-like pseudopods B. Ray-like pseudopods C. Porous shells	A. <i>Amoeba</i> B. Heliozoans C. <i>Globigerina</i>
VII. Amoebozoa 1. Amoebas 2. Slime molds	Lobe-shaped pseudopods, Decomposers	<i>Physarum, Dictyostelium</i>
VIII. Rhodophyta- red algae	No flagellated stages, red pigments	<i>Porphyra</i>
IX. Chlorophyta- green algae	Plant-type chloroplasts	<i>Chlamydomonas, Ulva, Volvox</i>

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