

## **Kingdom Protista**

### **General Characteristics**

- first group with a membrane bound nucleus
- called eukaryotes
- first group with discrete cytoplasmic organelles
- microscopic, unicellular,

### **Three distinct groups**

- plantlike, animal like, fungi like

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### **Plantlike Protists**

<b>Phylum</b>	<b>Representative</b>	<b>Characteristic</b>
<b>Euglenophyta</b>	<b>Euglena</b>	-abundant in stagnant, fresh water -some photosynthetic -asexual reproduction
<b>Chrysophyta</b>	<b>Diatoms</b>	-fresh/salt water -autotrophic -many flagellated -many in silica shells
<b>Pyrrophyta</b>	<b>Dinoflagellates</b>	-autotrophs -important plant plankton

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<b>Animal like Protists</b>		
<b>Phylum</b>	<b>Representative</b>	<b>Characteristic</b>
<b>Sarcodina</b>	<b>Amoeba, Radiolaria</b>	-most free living, some parasitic -pseudopods -cytoplasmic streaming for motility and food gathering
<b>Mastigophera</b>	<b>Flagellated protozoans</b>	-move with flagella -parasitic -asexual reproduction -also form cysts
<b>Ciliophora</b>	<b>Ciliated protozoans</b>	-cilia for motility and food gathering -typically asexual reproduction -binary fission though some conjugation
<b>Sporozoa</b>	<b>Plasmodium</b>	-exclusively parasitic -depend entirely on host body fluid -very complex life cycles

**Fungi Like Protozoa**  
Slime molds

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