

### Protists

eukaryotic - nucleus & mitochondria(ATP)

unicellular, colonial, multicellular

Autotrophs, Heterotrophs, Mixotrophs

### Excavata

asymmetrical ; has feeding groove

**Diplomonadida**      mitosomes (modified mitochondria)

*Giardia*

2 equal sized nuclei

flagella

intestinal parasites

**Parabasala**      hydrogenosomes (reduced mitochondria)

*Trichomonas*

flagella

**Euglenozoa**      Euglenophyta *Euglenozoa*

**Euglenophyta**      photosynthetic autotrophs; predatory heterotrophs

*Euglenozoa*

**Kinetoplastida**      heterotrophs

*Trypanosoma*

free-living & parasites  
(human disease sleeping sickness)

### SAR

Alveolata      alveoli - membrane bound sacs

*Dinoflagellata ceratium*



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