

Protists

Name _____
Date _____
Block _____

What is a Protist?

- The kingdom Protista is a diverse group that may include more than _____ species
- Biologists have argued for years over the best way to classify protists, and the issue may never be settled
- In fact, protists are defined _____

- _____ that are not members of the kingdoms

- Most protists are _____, but some are _____

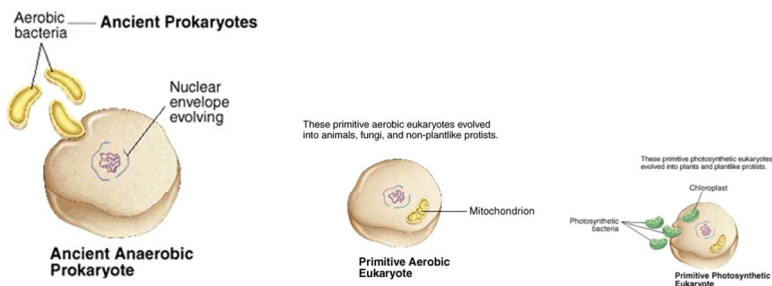
Endosymbiotic theory

- Theory that eukaryotic cells formed from a symbiosis among several different

Evolution of Protists

- The kingdom "Protista" means "_____ " which is appropriate because they were the first eukaryotic organism on Earth

● It is hypothesized that the first Protists evolved from a _____



Classification of Protists

- Protists are so _____ that biologists suggest that they should be broken up into _____ -

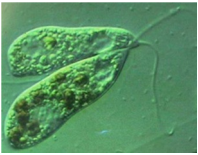
- Currently biologists don't agree how this should be done
- Therefore we will look at Protists as if they belong in the same kingdom and classify them by _____

Heterotrophs

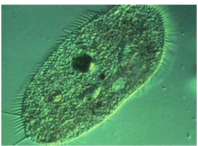
- Can't make their own _____
- Many are capable of _____.

Animal-like Protists

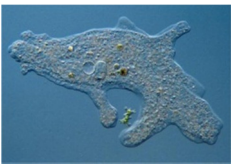
- Flagellates



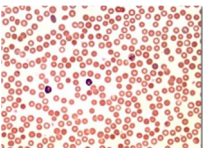
- Ciliates



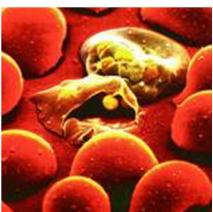
- Sarcodines



- Sporozoans



- Malaria

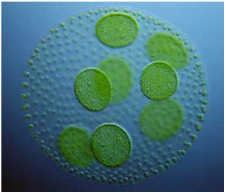


Plant-like Protists

- Many protists contain the green pigment _____ and carry out _____
- _____
- However, they are not classified as _____, they are _____
- Euglena



- Volvox



- Diatoms



- Dinoflagellates

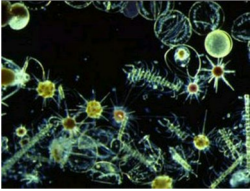


Ecology of Unicellular Algae

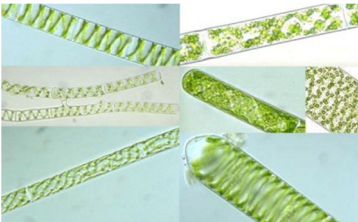
- Plant-like protists play a major ecological role on earth
- They make up a large part of the _____

Phytoplankton

- _____
- About _____ of photosynthesis on earth occurs in phytoplankton
- Phytoplankton



- Green algae



- Red Algae



Algal Blooms

- Sometimes populations of algae grows in enormous masses called _____
- These algal blooms deplete the water of _____ and can release _____ into the water
- Ex.) _____

Red tide



Fungus-like Protist

- Like fungi, the fungus-like protist are _____ that absorb nutrients from _____
- But unlike true fungi, fungus-like protists have _____
- They also lack the _____ of true fungi

Slime molds

- Slime molds are _____ that play a key role in recycling organic material
- Found in places that are _____ and _____



Water Molds

- Fungus-like protists that thrive on _____ in water and some are _____

Ecology of Fungus-like Protists

- They are important as _____
- They can cause _____ however
- Mildews and blights
- Potato famine 1845 and 1851

