Chapter 20 Protists

20-1

Key Concepts

What are protists?

https://www.youtube.com/watch?v=Ln69k7LyTsU (20 Minutes)

Protist

any organism that is NOT a plant, animal, fungi, prokaryote

include more than 200,000 species

grouping for organisms that don't fit into other kingdoms

Kingdom name = Protista

One way protists are classified is by how they eat.

Animal-like

heterotrophs

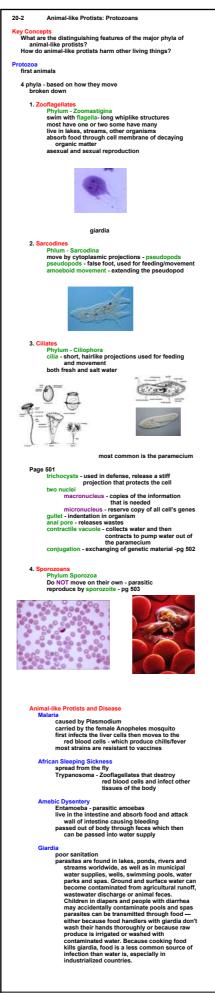
eat other organisms

Plantlike

make own food

Funguslike

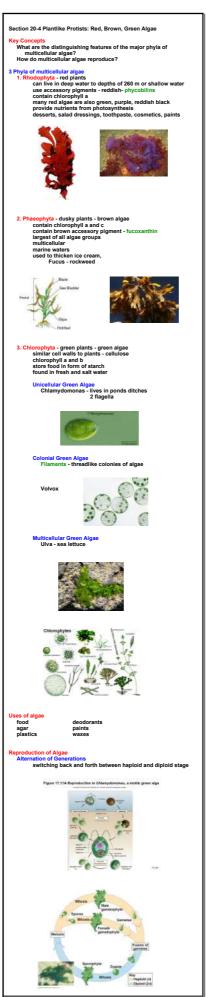
external digestion-decomposer or parasite



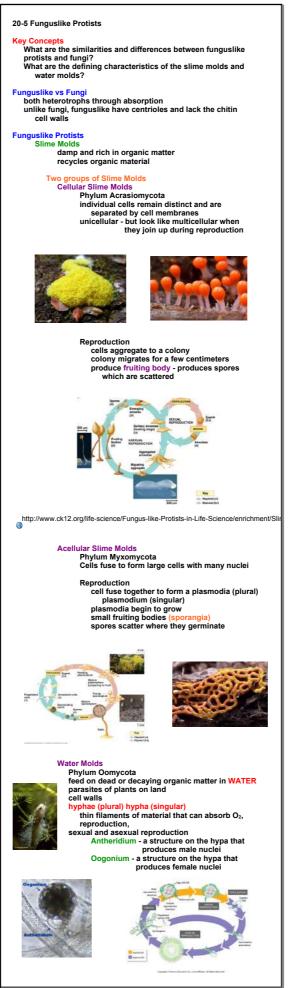
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20-3 Plantlike Protists Unicellular Algae Key Concepts What is the function of chlorophyll and accessory pigments in algae? What are the distinguishing features of the major phyla of unicellular algae? Traits used to classify algae is the type of pigments in algae. Accessory Pigments absorb light at different wavelengths and pass energy along for photosynthesis gives algae a wide range of colors due to the reflection of different wavelengths different wavelengths 7 Phyla - This section includes 4 1. Euglenophytes two flagella for swimming no cell wall contain chloroplasts - similar to zooflagellates Euglena common organism found in ponds and lakes worldwide eyespot (stigma) - used to locate sunlight if no sunlight will absorb decaying matter to become a heterotroph pellicle - cell membrane, ridges made of microtubules but flexible they can crawl through mud when there is not enough water to swim reproduce asexually Chrysophytes Chrysophyta - golden plants yellow-green and golden-brown algae gold colored chloroplasts store food in the form of oil instead of starch providers assizually and sexually most abundant diatoms most are unicellular freshwater, saltwater, and damp soil autotrophs and heterotrophs used in polishing products toothpaste insecticide - sharp cell walls puncture the bodies of insects centric - radially symmetrical pennate - bilaterally symmetrical Freshwater Diatoms Pyrrophyta - fire plants freshwater, saltwater, rivers Dinoflagellates photosynthetic and heterotrophs reproduce asexually defense - flagella find grooves in the thick plates that surround the cell give off light Why are Plantlike Protists Important? opiankton photosynthetic organisms found near surface of the ocean base of food chain which helps with diversity Protists help with the recycling of sewage. If a lot of sewage is being released this causes an increase in population of algae that grow in blooms. These blooms will decrease the water nutrients which decreases the oxygen level and causing fish and invertebrates to die.

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