

Eukaryotic Orgs.

Chapter 4b

I. Background

II. Fungi

1. mycology
- A. Energy source
- B. Structural
 1. chitin
- C. Yeast
- D. Molds
 1. hyphae
 - a. septa
 2. mycelium
- E. Reproduction
 1. asexual
 - a. fragmentation
 - b. spore
 2. sexual

III. Lichens

IV. Algae

- A. Characteristics
 - B. Examples
 1. brown algae
 2. red algae
 3. green algae
 4. diatoms
 5. dinoflagellates
 6. water molds
- C. Phytophthora infestans*

V. Protozoa

- A. Characteristics
 1. reproduction
 2. cyst
 3. trophozoites
- B. Feeding grooves (Excavata)
 1. *Giardia intestinalis*
 2. *Trichomonas vaginalis*
- C. Euglenozoa
 1. euglenoids
 2. hemoflagellates
 - a. *Trypanosoma brucei*
 - b. *Trypanosoma cruzi*
- D. Amebae
 1. *Entamoeba histolytica*
- E. Apicomplexa
 1. *Plasmodium*
 2. *Toxoplasma gondii*
- F. Ciliates

VI. Slime molds

- A. Cellular
- B. Plasmodial

VII. Helminths

A. Overview

B. Flatworms (platyhelminths)

1. flukes - (trematodes)

2. tapeworms - (cestodes)

C. Roundworms

1. ex. = *Trichinella spiralis*