

Biology Lesson 164

Protist Survey Lab Activity Answers

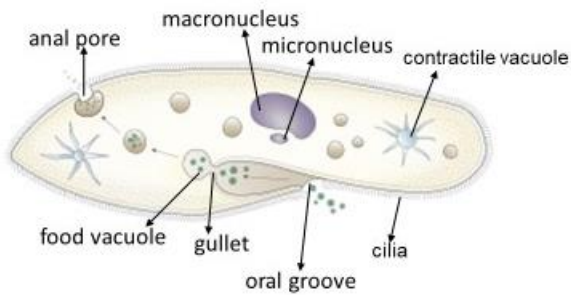
STATION 1

- Eukaryote. There is the presence of a membrane.
- We know this is a protist with the presence of the well-defined and has membrane-bound organelles, like a membrane-bound nucleus and the means for locomotion.
- The pseudopods are for a) locomotion b) surrounding and engulfing preys.
- The food vacuole is formed when the amoeba has engulfed its prey completely and is digesting it.
- Phylum Sarcodina
- Animal-like

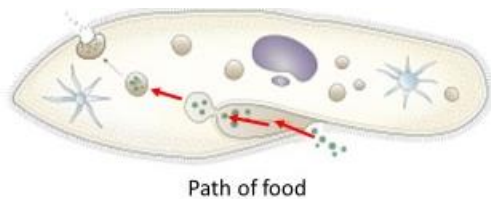
Microscope Video Questions

- The amoeba is engulfing its prey. It surrounds (encircles) and absorbs it.
- heterotrophic

STATION 2



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- Phylum Ciliophora
- Purposes of cilia:
 - locomotion
 - ingestion of food (those near the gullet)



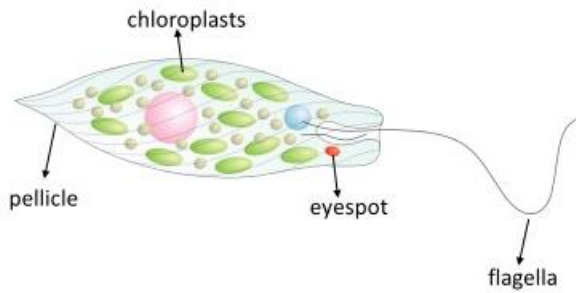
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- heterotroph. It consumes food.
- Regulate the amount of water in the cell

Microscope Video Questions:

g. Phylum Chlorophyta

h. Get food from them since they are autotrophic

STATION 3



a.

b. Phylum Mastigophora

c. To detect light

Microscope Video Questions:

d. flagella

e. Cell wall

f. Both. Actually more like autotrophic and saprophytic (feeds on dead organisms)

g. Because it's unicellular

STATION 4

a. Yes? according to [here](#) (but no, according to [here](#))

b. Phylum Amoebozoa

c. heterotroph

d. It brings about decomposition of organic materials on and in the soil.

Interesting to note:

Physarum used to be classified as a fungi (under Phylum Myxomycota) now they are more classified as in the Kingdom Protista. More reading [here](#) but many sources still label them under Kingdom fungi due to different difficulty.