

Principles of Biology II – Lab 3: Protista

Introduction:

All single-celled Eukaryotic organisms are placed in the Kingdom Protista. Think of this kingdom as the link between the single-celled prokaryotic organisms in the Domains Bacteria and Archaea to the multicellular Eukaryotes, which all derived from Protista. In lab today, you will be exploring the anatomy and distinguishing characteristics of different groups in the Protista kingdom. You will be asked to highlight the connection between structure and function and then finally describe how these groups have evolved.

Table 1: Required slides you need to look at and the questions associated with each slide. Be sure to recognize that some groups have more than one for you to choose to complete. You are not required to do both unless it says "AND". This table is organized in taxonomical order from most inclusive to least inclusive green algae.

Major Group	Minor Group	Specimen	Number of Slides (pg 2)
Excavata	Euglenozoans	Euglena <i>Maril</i>	1
S.A.R. - Stramenopiles	Diatoms <i>Alga</i>	Diatom Strew <i>Maril</i>	2
	Brown Algae	Fucus <i>Monocell on envelope</i>	
S.A.R. - Alveolates	Ciliates	Paramecium caudatum OR Stentor Strew <i>Maril</i>	3
S.A.R. - Rhizarians	Radiolarians	Radiolaria Strew <i>Maril</i>	4
	Forams	Globigerina	5
Archaeplastidia <i>Maril</i>	Rhodophytas	Batrachospermum <i>Maril</i>	
	Chlorophytes	Pediastrum - Stellateplate <i>Maril</i>	6-7
	Charophytes	Desmids Mix Spp <i>Maril</i>	
Eubacteria	Cyanobacteria	Blue-Green Algae <i>green blue</i>	8
Unikonta	Amoebozoans	Amoeba proteus <i>green plate</i>	

Procedure:

- 1) List the name of the Species on the slide
- 2) Describe its taxonomy to the lowest level possible. See Figure 1.
- 3) List the distinguishing characteristics of the major group and minor group that it is in (as seen listed in Table 1).
- 4) Draw and label each specimen. Record notes on each specimen and a drawing that includes aspects such as: magnification, size, shape of cell, impressions, and anything else that is relevant. Be sure while you are doing this, to pay close attention to the trait(s) that help to define that group and to look at multiple levels of magnification.
- 5) Then you will be addressing the questions asked. See Table 1 under the section corresponding questions.

General Note: Make sure you consider your organization. I should see the taxonomical order reflected in your notebook for all 5 of these points.

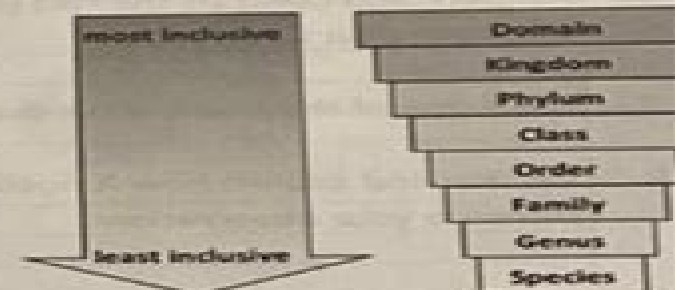


Figure 1. The modified Linnaean hierarchy of life.

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Arturo Cuomo



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