

Agenda for Monday, October 12th 2015

Agenda	Homework
1. Plant Cell Discussion (IBI H19) 2. Observing Spirogyra (IBI H20)	- No homework

Why are we doing this?

We have finished data collection for handout 19. Now we need to analyze what we have observed: what do onion bulb and elodea cells have in common, how are they different, how are their shape, arrangement, and parts connected to their function? After we complete this discussion, we will observe an organism called spirogyra. The purpose of this is to apply what you have learned from lesson 5 to this new organism: what type of cell does it have, is it more plantlike or animal-like, is it eukaryotic or prokaryotic, is it unicellular or multicellular?

Today's Procedure

Part 1: Plant Cell Discussion (IBI H19)

1. Let's discuss the definition box and the questions on the second page. Please update your answers; use a different color when you do this.
2. Let's share answers to three questions you had to answer on the back of the drawing sheets:
 - a. How do you know where the vacuole is in a plant cell?
 - b. Why are chloroplasts not visible in onion bulb cells?
 - c. How can you identify a plant cell from an animal cell?

Part 2: Spirogyra (IBI H20)

1. Visit 7bscience.com and download IBI Handout 20.
2. Open your IBI textbook to page 67. Follow steps 2-7. Use the well slide for this observation. Cover slips and the specimen sample are in the front of the room.
3. Clean up:
 - a. Throw away the cover slip.
 - b. Rinse and dry the slide.
 - c. Shut down your microscope but do not place the dust cover on. Raise your hand to be checked.
 - d. Organize the materials on your table.

4. Answer the questions on the second page of IBI Handout 20. Be detailed in your answers: write in complete sentences and use formal language.

I finished early, now what? (Any order!)

1. Visit <http://futurism.com/thisweekinscience> for the latest science news. Pick an article or two to read.
2. Relax and color! Grab a paper copy of the animal and plant cell color sheetings. Fill in the blank information and color the correct parts.