

Lab 3: Cell Structure and Function

Pre-lab Questions

1. This lab helps you investigate cell structure and cell function. What do you learn studying structure, and what do you learn studying function?

- The study of cell structures and their function helps to build a better understanding of the tissues and organisms that cells make up. This can help determine abnormalities and potential diseases.

2. Based on their structure, is it likely that prokaryotic or eukaryotic cells evolved first? Why?

- It is likely that prokaryotic cells evolve first because they have no nucleus.

3. Complete the Animal Cell Structure and Plant Cell Structure activities. Both activities will require the help of your textbook. Be sure to complete the structure/function descriptions.

4. How would you expect an increased temperature to affect the speed of diffusion?

- I expect that an increase in temperature will increase the speed of diffusion.

5. Review the Solute Diffusion Across the Plasma Membrane experiment and Figure 4.6. Where do you expect each solute—iodine, glucose, and starch—to be located after 5 minutes (beaker, dialysis bag, or both). Why?

- After five minutes I believe the iodine will have dissolved into the dialysis bag because its molecules are small. The glucose will be in both the beaker and dialysis bag because the molecule is bigger which will require more time to dissolve fully into the dialysis bag. The starch will be in the beaker still after five minutes because it has the biggest molecule size.

6. In terms of osmosis, what would happen if a hospital patient was given pure water as an IV solution rather than a 0.9% sodium chloride (NaCl) solution?

- The patient would die because the cells would burst due to the differences in the salt concentrations inside and outside of the cell.

Lab Manual Questions On Cell Structure

Xiaolong Qi



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