

Learning Objective: I can explain how the structure of biological membranes influences selective permeability.

Topic 2.5 Membrane Permeability Video Notes

The structures of the cell membrane

1. What does it mean by phospholipids being 'amphipathic'?
2. What do phospholipids do when they are in an aqueous solution?

3. What is the Fluid Mosaic Model?

4. Selective permeability is a direct consequence of

5. What things can get across the cell membrane?

6. What substances need help getting across the cell membrane?

7. What are channel proteins?

8. What are carrier proteins?

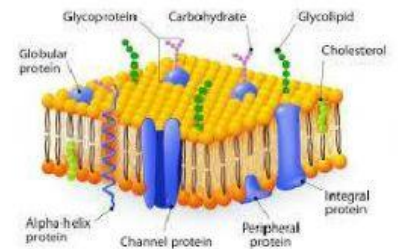
9. What is the purpose of a cell wall?

10. What are plasmodesmata and what is their function?

11. What are cell walls made up of? What will you find cell walls in?

12. What is peptidoglycan made up of?

13. Explain why the answer is A for the lesson skill focus question at the end of the video.



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What we learned:

1. How does the structure of cell membranes result in selective permeability?
2. How do cell membranes separate the internal environment of the cell from the external environment?
3. What is the direct consequence of membrane structure, as described by the fluid mosaic model?
4. What type of molecules pass freely across the membrane?
5. What type of substances move across the membrane through embedded channel and transport proteins?
6. What molecules pass through the membrane in small amounts?
7. What type of boundaries do cell walls provide?
8. What type of molecules are cell walls of plants, prokaryotes, and fungi composed of?