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boundary that separates the living cell from its surroundings the plasma membrane exhibits selective permeability allowing some substances to cross it more easily than others concept 7 1 cellular membranes are fluid mosaics of lipids and proteins chapter 8 membrane structure and outline i membrane models have science evolved as to a fit process new ii a membrane is a fluid mosaic of lipids the fluid quality of membranes membranes as mosaics of structure and function membrane carbohydrates and cell cell recognition iii a membrane s molecular organization results the cell membrane is a dynamic structure composed of lipids proteins and carbohydrates it protects the cell by preventing materials from leaking out controls what can enter or leave through the membrane provides a binding site for hormones and other chemicals and serves as an identification card for the immune system to distinguish chapter 8 cell membranes concept 8 1 cellular membranes are fluid mosaics of lipids and proteins components of cell membrane lipids b proteins c carbohydrates phospholipids are the most abundant lipid in the plasma membrane phospholipids are amphipathic molecules containing hydrophobic and hydrophilic regions learning objectives describe the molecular components that make up the cell membrane explain the major features and properties of the cell membrane differentiate between materials that can and cannot diffuse through the lipid bilayer compare and contrast different types of passive transport with active transport providing examples of each learning objectives by the end of this section you will be able to describe the molecular components that make up the cell membrane relate structures of the cell membrane to its functions describe how molecules cross the cell membrane based on their properties and concentration gradients chapter 8 cell membrane structure and function cell membranes protein phospholipids regulates things thru cell special functions endocytosis exocytosis phagocytosis white blood cells bacteria protista structure of cell membrane lipid bilayer impermeable to ions and polar molecules except h<sub>2</sub>O phospholipid protein chapter 8 transport across membranes overcoming permeability barrier flashcards quizlet three different mechanisms in movement of solutes across the membrane click the card to flip 1 simple diffusion 2 facilitated diffusion 3 active transport click the card to flip 1 30 flashcards learn test match simonian leo chapter 8 transport across membranes overcoming the permeability barrier flashcards quizlet get a hint semipermeable click the card to flip membranes are meaning some substances can pass directly through the cell membrane by passive or active transport click the card to flip 1 104 flashcards learn test ap biology chapter 8 cell membranes 1 what evidence supports the fluid mosaic model of the cell membrane 2 what is meant by membrane fluidity 3 how is fluidity reduced in animal cells body membranes are thin 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the cell membrane is a dynamic structure composed of lipids proteins and carbohydrates it protects the cell by preventing materials from leaking out controls what can enter or leave through the membrane provides a binding site for hormones and other chemicals and serves as an identification card for the immune system to distinguish

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learning objectives describe the molecular components that make up the cell membrane explain the major features and properties of the cell membrane differentiate between materials that can and cannot diffuse through the lipid bilayer compare and contrast different types of passive transport with active transport providing examples of each

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learning objectives by the end of this section you will be able to describe the molecular components that make up the cell membrane relate structures of the cell membrane to its functions describe how molecules cross the cell membrane based on their properties and concentration gradients

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body membranes are thin sheets of tissue that cover the body line body cavities and cover organs within the cavities in hollow organs they can be categorized into epithelial and connective tissue membrane epithelial membranes epithelial membranes consist of epithelial tissue and the connective tissue to which it is attached

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