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what exactly is its job the plasma membrane not only defines the borders of the cell but also allows the cell to interact with its environment in a controlled way cells must be able to exclude take in and excrete various substances all in specific amounts the cell membrane also known as the plasma membrane or cytoplasmic membrane and historically referred to as the plasmalemma is a biological membrane that separates and protects the interior of a cell from the outside environment the extracellular space cell membrane thin membrane that surrounds every living cell the cell membrane functions as a barrier keeping cell constituents in and unwanted substances out and as a gate allowing transport into the cell of essential nutrients and movement from the cell of waste products the cell membrane also known as the plasma membrane is a double layer of lipids and proteins that surrounds a cell it separates the cytoplasm the contents of the cell from the external environment it is a feature of all cells both prokaryotic and eukaryotic a 3d diagram of the cell membrane the plasma membrane is composed of a bilayer of phospholipids with their hydrophobic fatty acid tails in contact with each other the landscape of the membrane is studded with proteins some of which span the membrane some of these proteins serve to transport materials into or out of the cell the cell membrane is an extremely pliable structure composed primarily of back to back phospholipids a bilayer cholesterol is also present which contributes to the fluidity of the membrane and there are various proteins embedded within the membrane that have a variety of functions learning objectives by the end of this section you will be able to 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 thumbnail the cell membrane also called the plasma membrane or plasmalemma is a semipermeable lipid bilayer common to all living cells it contains a variety of biological molecules primarily proteins and lipids which are involved in a vast array of cellular processes the plasma membrane of a cell is a network of lipids and proteins that forms the boundary between a cell s contents and the outside of the cell it is also simply called the

cell membrane the main function of the plasma membrane is to protect the cell from its surrounding environment a cell's plasma membrane defines the boundary of the cell and determines the nature of its contact with the environment cells exclude some substances take in others and excrete still others all in controlled quantities cell membranes are an essential component of the cell providing separation between the intracellular and extracellular environment they are composed of lipids proteins and carbohydrates 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 a cell's plasma membrane defines the boundary of the cell and determines the nature of its contact with the environment cells exclude some substances take in others and excrete still others all in controlled quantities plasma membranes enclose the borders of cells but rather than being a static bag they are dynamic and constantly in flux regina bailey updated on october 07 2019 the cell membrane plasma membrane is a thin semi permeable membrane that surrounds the cytoplasm of a cell its function is to protect the integrity of the interior of the cell by allowing certain substances into the cell while keeping other substances out cell membrane make up of a eukaryote cell membrane the cell membrane is a thin flexible layer around the cells of all living things it is sometimes called the plasma membrane or cytoplasmic membrane its basic job is to separate the inside of cells from the outside the membranes of all cells have a fundamentally similar structure but membrane function varies tremendously from one organism to another and even from one cell to another within a single organism this diversity arises mainly from the presence of different proteins and lipids in the membrane the cell membrane also called the plasma membrane is found in all cells and separates the interior of the cell from the outside environment the cell membrane consists of a lipid bilayer that is semipermeable the cell membrane regulates the transport of materials entering and exiting the cell cell membrane 3 d preview study with quizlet and memorize flashcards containing terms like cell membrane phospholipid fluid mosaic model and more 10 841 8 532 table of contents cell wall cell membrane diagram difference between cell wall and cell membrane conclusion important questions for cell wall and cell membrane cell wall the cell wall is present only in plants fungi and bacteria the image above represents a plant cell wall

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