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Membrane structure packet answer key

Page ID2398 Plasma Membrane Worksheet AnswersContributors and Attributions 1. The two most important functions of the plasma membrane are two of: 1. The plasma membrane defines and encloses the cell; 2. It is the boundary between intra and extracellular fluid; 3. It is selectively permeable, i.e. it maintains homeostasis. 2. The best definition of homeostasis is: a) Maintain a constant temperature inside a cell or organism despite external changes. b) Maintain constant conditions within a cell or organism despite external changes. c) Maintain a constant pH within a cell or organism despite external changes. (d) Maintaining constant conditions outside a cell or organism despite internal changes. 3. The two most abundant molecules in the plasma membrane are: 1. Proteins 2. Phospholipids (or fats or lipids) 4. This is true for the structure of the plasma membrane: a) It is a double layer of protein molecules with phospholipid molecules randomly dotted through it b) It is a single layer of phospholipid molecules c) It is a double layer of phospholipid molecules with protein molecules dotted in it. d) It is a single layer of protein molecules with phospholipids dotted in it. 5. Add the following labels to the plasma membrane diagram shown below. protein molecules; protein channel; double layer of phospholipid molecules Contributors and Attributions Ruth Lawson (Polytechnic of Otago; Dunedin, New Zealand) Page ID2398 Plasma Membrane Answers WorksheetContributors and Attributions 1. The two most important functions of the plasma membrane are two of: 1. The plasma membrane defines and encloses the cell; 2. It is the boundary between intra and extracellular fluid; 3. It is selectively permeable, i.e. it maintains homeostasis. 2. The best definition of homeostasis is: a) Maintain a constant temperature inside a cell or organism despite external changes. b) Maintain constant conditions within a cell or organism despite external changes. c) Maintain a constant pH within a cell or organism despite external changes. (d) Maintaining constant conditions outside a cell or organism despite internal changes. 3. The two most abundant molecules in the plasma membrane are: 1. Proteins 2. Phospholipids (or fats or lipids) 4. This is true for the structure of the plasma membrane: a) It is a double layer of protein molecules with phospholipid molecules randomly dotted through it b) It is a single layer of phospholipid molecules c) It is a double layer of phospholipid molecules with protein molecules dotted in it. d) It is a single layer of protein molecules with phospholipids dotted in it. 5. Add the following labels to the plasma membrane diagram shown to protein molecules; protein channel; double layer of phospholipid molecules Contributors and Attributions Ruth Lawson (Polytechnic of Otago; Dunedin, New Zealand) This worksheet allows A-level biology students to explore the structure of the fluid mosaic model of the plasma membrane of cells. Students identify key components plasma membrane and identify the role of each key component in the membrane. This worksheet would do well to look at how substances move through the membrane to get in and out of the cell. Great to use as a worksheet for teaching this topic or as a review or evaluation tab at the end of the topic. Answer card provided; good to project on the board when you go through the sheet with your students. Loading This worksheet allows A-level biology students to explore the structure of the fluid mosaic model of the plasma membrane of cells. Students will identify the key components of the plasma membrane and identify the role of each key component in the membrane. This worksheet would do well to look at how substances move through the membrane to get in and out of the cell. Great to use as a worksheet for teaching this topic or as a review or evaluation tab at the end of the topic. Answer card provided; good to project on the board when you go through the sheet with your students. Load loading