

AP BIOLOGY

UNIT 2: Cells, Membranes, and Transport

REVIEW

- Describe the function of the following organelles: lysosome, smooth ER, rough ER, Golgi apparatus, ribosomes, and mitochondrion.
 - Lysosomes: Recycle cell waste, and break down
 - Smooth ER: regulates calcium ions and processes toxins
 - Rough ER: produces proteins with the ribosomes on it
 - Ribosomes: produces proteins
 - Mitochondrion: generates chemical energy
- Compare and contrast eukaryotic and prokaryotic cells. Be sure to include all structures that each has.
 - Eukaryotic is membrane bound structures with a nucleus. Structures are Rough and Smooth ER, mitochondrion, Golgi apparatus.
 - Prokaryotic has no definitive membrane bound structure and lacks a membrane bound nucleus.
- If the following organelles were not working properly what might be the result to the individual: lysosome, smooth ER, rough ER, Golgi apparatus, ribosomes, and mitochondrion?
 - Lysosomes: We can't digest food, build up of waste
 - Smooth ER: can't synthesize lipids
 - Rough ER: We can't break down things as fast as we consume and absorb.
 - Mitochondrion: lack of ATP
 - Golgi apparatus: lysosomes production stops.
- If a dialysis bag is filled with a 2% albumin solution, what type of solution would it need to be placed in to be in the following situations: isotonic, hypotonic, and hypertonic?
 - Isotonic: another solution with 2% albumin solution
 - Hypotonic: 100% water without any albumin
 - Hypertonic: 8% albumin solution
- Compare and contrast simple diffusion and facilitated diffusion.
 - Simple diffusion
 - High to low, does not need channels or proteins to move
 - Facilitated diffusion
 - High to low, substance needs of a transport molecule
 - Both move substances, but simple does not need energy but facilitated does.
- Diagram the cell membrane labeling all parts and explaining the hydrophobic and hydrophilic parts. Below your diagram, explain the function of each part.

Summer Study Guide Answers

Brian W. Stewart



Summer Study Guide Answers:

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