

Study Guide – Chapter 3

Cell Structure and Function

1. Describe the roles of cells in organisms

Cell: Smallest living unit of living things. Cells are the building block of multicellular life.

2. Summarize the Cell Theory

All organisms are composed of one or more cells.

Cells are the smallest living things.

Cells arise only by the division of previously existing cells.

3. Name examples of prokaryotic and eukaryotic organisms

Examples of prokaryotes are bacteria and archaea.

Examples of eukaryotes are protists, fungi, plants, and animals.

4. Compare and contrast prokaryotic and eukaryotic cell structure. What can be found in both eukaryotes and prokaryotes? What is found only in eukaryotes?

They both have plasma(cell) membrane- composed of a phospholipid bilayer.

Cytoplasm- jellylike consistency DNA-the genetic code.

Ribosomes- particles that synthesize proteins.

Eukaryotic: cells: Have a nucleus, a membrane-bound nucleus.

Prokaryotic cells: no nucleus, no organelles. have a cell wall- protective barrier outside the cell membrane. Have plasma membranes, cytoplasm, DNA, and ribosomes. Some may also have: Capsule outside that helps in protection and attaching Flagella for locomotion.

Pili used for DNA exchange.

Fimbriae used to attach to other cells and surfaces

5. Describe the relative size of prokaryotic and eukaryotic cells

Eukaryotic: cells are more complex and larger (10-100µm).

Prokaryotic cells are small simpler cells (0.1 to 5 µm).

Cell Structure Function Study Guide Answers

Kerry L. Hull, Barbara Janson Cohen



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