

Study Guide for Assessment 2

A2.2: Prokaryote and Eukaryote Cell Structures

A2.2.5: Prokaryote Cell Structure

- **Key Features of Prokaryotic Cells:**
 - **Cell Wall:** Made of peptidoglycan in Gram-positive bacteria; provides shape and protection.
 - **Plasma Membrane:** Regulates entry and exit of substances.
 - **Cytoplasm:** Semi-fluid matrix where cellular processes occur.
 - **Naked DNA in a Loop:** DNA not bound to histones, forming a circular chromosome in the nucleoid region.
 - **70S Ribosomes:** Smaller ribosomes involved in protein synthesis.
 - **Examples:** Gram-positive eubacteria such as *Bacillus* and *Staphylococcus*.
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A2.2.6: Eukaryote Cell Structure

- **Key Features of Eukaryotic Cells:**
 - **Plasma Membrane:** Encloses the cell, regulates transport.
 - **Compartmentalized Cytoplasm:** Contains 80S ribosomes and specialized organelles.
 - **Nucleus:**
 - Enclosed by a double membrane with pores.
 - Contains DNA bound to histones, forming chromosomes.
 - **Membrane-Bound Organelles:**
 - **Mitochondria:** ATP production.
 - **Endoplasmic Reticulum (ER):**
 - **Rough ER:** Protein synthesis.
 - **Smooth ER:** Lipid synthesis.
 - **Golgi Apparatus:** Modifies and packages proteins.
 - **Lysosomes:** Enzyme storage for digestion.
 - **Vacuoles:** Storage and waste disposal.
 - **Cytoskeleton:** Made of microtubules and microfilaments for structure and transport.
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A2.2.7: Processes of Life in Unicellular Organisms

- **Key Functions:**
 - **Homeostasis:** Maintaining internal conditions.
 - **Metabolism:** Biochemical reactions, including respiration.
 - **Nutrition:** Uptake of nutrients for energy.
 - **Movement:** Using structures like flagella.
 - **Excretion:** Removing waste products.
 - **Growth:** Increase in size or mass.

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