

3.6 Prokaryotic cells and viruses

Structure of bacterial cell

10-1000 µm

Microbiology

Cell wall ... A rigid outer cellular layer (cell envelope) that is critical (essential) to survival of the microorganism in its environment.

periplasmic space ... the fluid space between the bacterial outer, cell envelope and inner cytoplasmic membrane.

capsule ... thick, structured layer(s) of the microorganism's surface, primary role is to be virulent (pathogenic).

ribon ... dense network of associated ribosomes, as well as associated components.

cytoplasm ... the aqueous medium surrounding the macromolecules etc.

chromosome ... contains the genetic code of the microorganism. Bacteria typically have one closed, circular chromosome.

extracellular matrix ... the area around a microbe or group and their genetic material composed of extracellular matrix.

membrane ... refers to the cellular layer(s) between the cytoplasm and extracellular space, typically composed of phospholipids and their associated proteins.

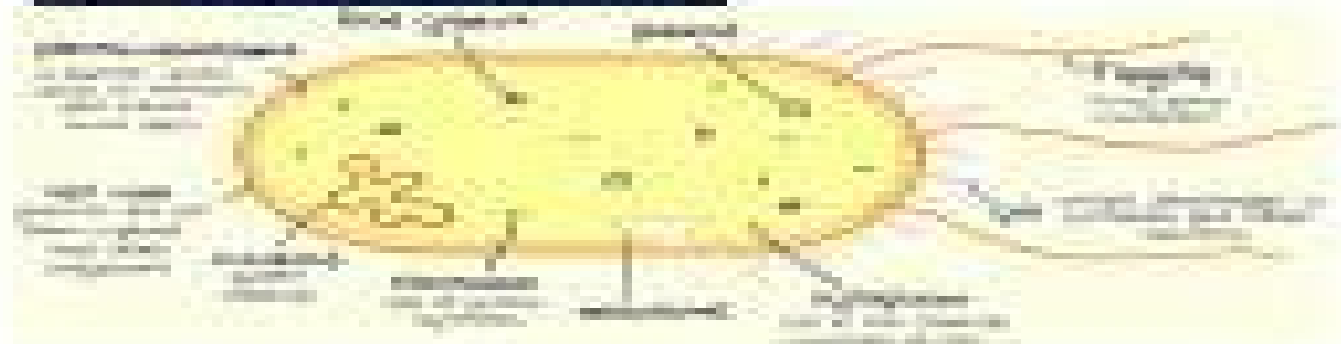
ribosome ... cellular structures that are involved in synthesis of proteins independently (free) or on special structures that attach to cytoplasmic organelles (e.g. rough ER) etc.

cellular capsule ... the outermost layer that bacteria have a characteristic property of - protection and resistance (e.g. stress factors in different environments).

Bacterial cells are divided into several groups based on shape.

Microbes can be either prokaryotic (eukaryotic) or eukaryotic.

Structure of a prokaryotic cell



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