

Unit 2: Cell Biology Study Guide

prokaryotic vs eukaryotic cells

- prokaryotic cells
 - bacteria and archaea
 - have a nucleoid but no nucleus and no true organelles
- eukaryotic cells
 - membrane-bound nucleus and organelles



compartmentalization in eukaryotes

- why are eukaryotic cells so large?
 - compartmentalization: the ability to section off/compartmentalize functions
 - membrane-separated spaces are known as organelles
- why is it important?
 - efficiency: multiple parts of the cell aren't doing the same thing and each part is doing a function they are specialized in
- how did it occur?
 - eukaryotic cells first appeared 2.5 billion years ago
 - internal membranes allow for the compartmentalization of functions
 - endosymbiont theory
 - a prokaryotic cell was engulfed by a larger cell → organelles
 - evidence: mitochondria have their own DNA, and it resembles bacterial DNA; mitochondria undergo binary fission (cell division) to reproduce; mitochondria and chloroplasts have a double membrane indicating one membrane engulfed another
- difference between animal and plant cells
 - lysosomes are not found in plant cells
 - plant cells have cell walls, chloroplasts, and a central vacuole

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