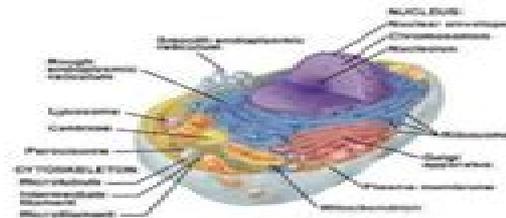
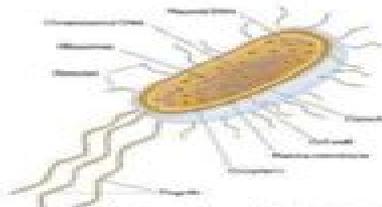


Unit 2: Cell Biology Study Guide

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

Cell Biology Unit Study Guide

Roman Wölfel



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In a digitally-driven earth wherever screens reign great and immediate communication drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within phrases often move unheard. However, located within the pages of **Cell Biology Unit Study Guide** a interesting literary value blinking with organic thoughts, lies a fantastic journey waiting to be undertaken. Composed by a talented wordsmith, that charming opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the psychological depths with this moving review, we can embark upon a genuine exploration of the book is key themes, dissect their captivating publishing design, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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