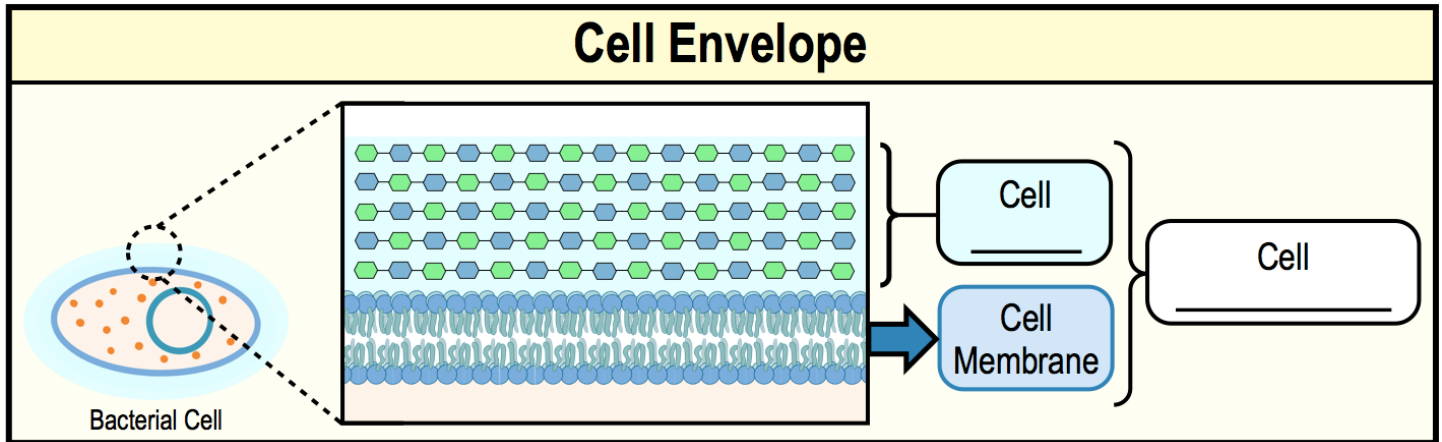


CONCEPT: CELL ENVELOPE & BIOLOGICAL MEMBRANES

- **Cell Envelope:** all of the _____ layers surrounding the cell (membranes, cell walls, etc.).
 - Structures that compose the cell envelope may _____ in different types of cells.
 - Cell membranes are _____ included in the cell envelope (all cells have cell membranes).

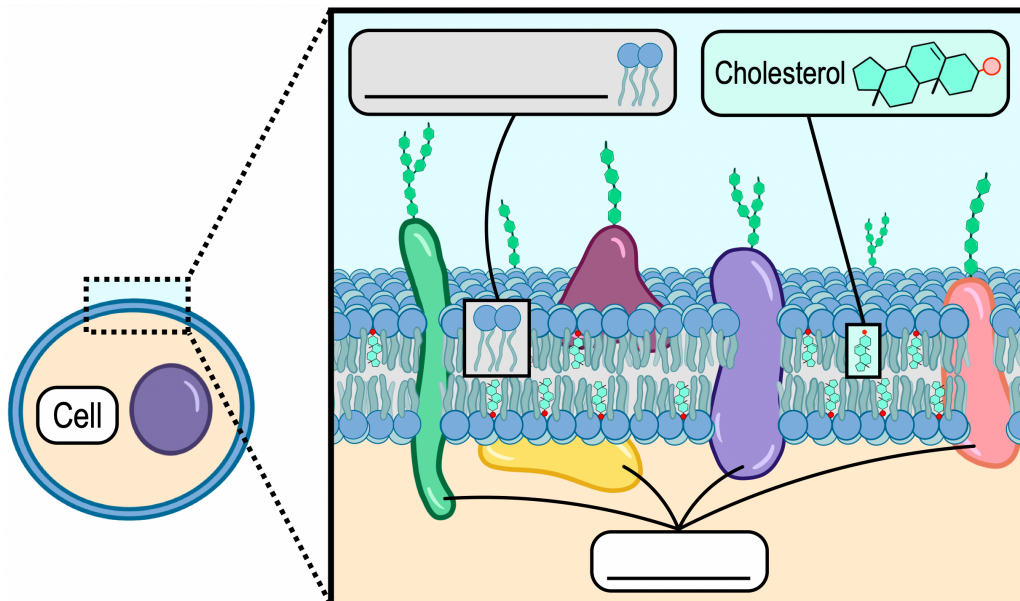


PRACTICE: Components of the cell envelope include:

- a) Cell membrane. b) Cell wall. c) Cytoplasm. d) a, b, & c. e) a & b.

Intro to Biological Membranes

- Recall: _____ are *amphipathic* molecules & are the major component of *biological membranes*.
 - **Biological Membrane:** phospholipid _____ with other embedded molecules (ex. proteins & cholesterol).
 - Also called _____ membrane or _____ membrane.
- **Fluid Mosaic Model:** *biological membranes* are _____ & a _____ of membrane-embedded *proteins*.
 - Comprised of 20-80% _____ by mass that move *laterally* within the cell membrane.



CONCEPT: CELL ENVELOPE & BIOLOGICAL MEMBRANES

EXAMPLE: Membranes are a fluid mosaic of what major components?

- a) Proteins, cholesterol, and sugar.
- b) Phospholipids, proteins, and cholesterol.
- c) Phospholipids, nucleic acids, and cholesterol.
- d) Glucose, proteins, and phospholipids.

PRACTICE: The fluid mosaic model of the membrane proposed that membranes:

- a) Consist of a single layer of phospholipids and proteins.
- b) Consist of a phospholipid bilayer composed of a variety of fatty acids.
- c) Consist of protein molecules embedded in a dynamic bilayer of phospholipids.
- d) Consist of a phospholipid bilayer between two layers of hydrophilic proteins.