



Cell Theory

- All living things are composed of cells
- Cells are the basic organizational unit of life
- All cells arise from pre-existing cells

Traits Common to all cells

- Plasma membrane encloses cell
 - Cytoplasm: the compartment within the plasma membrane
- Four major classes of Biomolecules
- DNA as genetic material with same genetic code
- Ribosomes synthesize proteins
- Energy and Nutrients from environment

Prokaryotic Vs Eukaryotic Cells Prokaryotes **Eukaryotes** No Nucleus Membrane Bond Nucleus • • Lacks membrane bound Numerous Membrane organelles **Bond Organelles** Typically 1-10µM Typically 10-100 µM Circular DNA Genome Linear DNA ٠ chromosomes Both possess plasma membranes, ribosomes, all four classes of macromolecules, have DNA as genetic material and use the

same genetic code.





























