

Student Essay on Inside the Cell

Inside the Cell

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Essay

Eukaryotes- cells that contain nuclei

Found in single celled organisms, plants, and animals

Prokaryotes- cells that do not contain nuclei

Found in bacteria

Major Parts of a Cell

1. Nucleus- control center of the cell
2. Chromosomes- plans or blueprints of the cell. Found in nucleus
3. Nucleolus- where ribosomes are made. Found in nucleus
4. Nuclear Envelope- surrounds and protects the nucleus
5. Cytoplasm- fluid that holds organelles. Found outside nucleus
6. Ribosomes- make proteins
7. Endoplasmic Reticulum- process and transport proteins
8. Golgi Apparatus- package and ship proteins
9. Lysosomes- cleanup crew
10. Cytoskeleton- supportive frame work & transport system
 - Microtubules- make up cilia and flagella....used to move cell
 - Microfilaments
1. Vacuoles- storage of materials
2. Mitochondrion- produces energy from chemicals for the cell
3. Chloroplast- produces energy from the sun for the cell