#1 Cell Membrane



Location - Surrounding the outside of an animal cell

Function - Controls what gets in and what goes out, allows cell to have different chemical environment than its surrondings.

#2 Cytoplasm



Location - The substance that fills the cell.

Function - Move materials around the cell a dissolves cellular waste

#3 Nucleus



Location - In the cytoplasm, sometimes in the center of the cell.

Function - Serves as control center for the cell. Keeps the chromosomes protected.

#4 Nucleolus



Location - Inside the nucleus

Function - To make ribosomes.

#5 Chromosomes and Chormatin



Location - Inside the nucleus

Function - Contain the gentice information to make everything for the cell.

#6 Vacuole



Location - Cytoplasm

Function - Storage of food, water and minerals. Remove excess water from a paramecium.

#7 Lysosomes



Location - Cytoplasm

Function - Break down dying cells, organelles, even toxins and food particles.

#8 Mitochondria



Location - In cytoplasm - 300 to 800 per cell.

Function - Provide energy for cell - ATP.

#9 Ribosomes



Location - Attached to the rough ER or free floating in the cytoplasm.

Function - Protein synthesis occurs here.

 #10 Rough Endoplasmic Reticulum (Rough ER)



Location - In the cytoplasm, outiside of nuclear envelope.

Function - Site of protein synthesis. Attach things to proteins and transportation device for proteins.

# 11 Golgi Apparatus



Location - Found in the cytoplasm

Function - Processing, packaging and storage center for the products to be released from the cell.

#12 Nuclear Envelope



Location - Outside membrane of nucleus

Function - Controls what exits and enters the nucleus.

#13 Centrioles (animals)



Location - In cytoplasm, near nucleus.

Function - Help the cell divide

#14 Cell Wall



Location - Outside the cell membrane (plants only)

Function - Gives cell its shape and provides protection.

#15 Chloroplasts (plants)



Location - Cytoplasm of plant cell

Structure - Green due to chlorophyll.

Function - To produce glucose and absorb sunlight.

#16 Smooth Endoplasmic Reticulum (Smooth ER)



Location - Outside the rough ER.

Function - Lipid synthesis, modifies proteins and breaks down toxins.

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