**Cell Part Location Function Cell Type Picture**

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| Plasma/Cell Membrane | Lipid bi-layer found at the exterior of Cell | Selectively allows material in or out of the cell | Plant, Animal, Bacteria | Plasma membrane |
| Cell Wall | Rigid Protein that surrounds plasma membrane | Give structure and protection to cell | Plant and some bacteria | Cell wall |
| DNA | Compound that Chromosomes are made of in the Nucleus | Pass on genetic information which controls all cell processes | Plant, Animal, Bacteria | Chromosomes |
| Cytoplasm | Jelly like material that fills interior of cell | Gives support and structure, allows movement of materials throughout cell | Plant, Animal, Bacteria | Picture not available – goo inside cell! |
| Endoplasmic Reticulum | Folded Membrane throughout the cell with or without small bumps | Smooth and Rough versions help facilitate movement of proteins through the cell and out of it | Plant and Animal | Endoplasmic reticulum |
| Chloroplast | Round bean shaped structure in cytoplasm | Photosynthesis takes place here due to energy harnessing chlorophyll pigment in these structures | Plant | Chloroplasts |
| Mitochondrion | Sausage shaped/Kidney bean shaped structure in cytoplasm | Energy-producing chemical reactions take place here Controls level of water and other materials in cell Recycles and decomposes proteins, fats, and carbohydrates, and forms urea | Plant and Animal | Mitochondria |
| Flagella | Extension of cell membrane | One or two tail–like projections that aid in movement of the cell | Bacteria | Prokaryotic Cell Structure |
| Golgi Apparatus | Sack like membrane found throughout cell | Sac like membrane packages protein for shipping in the cell and out of the cell | Plant and Animal | Golgi apparatus |
| Ribosome | Floating in cytoplasm or the Endoplasmic Reticulum | Sites for Protein Production and distribution | Plant, Animal, Bacteria | Ribosomes |
| Cilia | External part of cell | Senses cell signals and allows cell to move | Animal | paramecium stained.jpg (7691 bytes) |
| Nucleus | Large membrane bound sphere that contains genetic material | Controls all cell processes | Plant and Animal | Nuclear membrane |
| Vacuole | One large sac in Plants or several small in animals | Membrane-bound sacs for storage, digestion, and waste removal Contains water solution | Plant (very Large) and Animal (small) | Vacuoles |
| Capsule | Exterior of Cell | Used to protect cell from phagocytosis and infection by viruses | Bacteria | Bacterial Cell |
| Centrioles | Tubule structures found in Cytoplasm | Aid in cell division | Animal | Centrioles |
| Nucleolus | Ball of material inside of Nucleus | Contains RNA for protein manufacture | Plant and Animal | Nucleolus |
| Lysosome | Small packets found throughout cytoplasm | Digests proteins, lipids, and carbohydrates Transports undigested material to cell membrane for removal | Plant and Animal | Lysosome |