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| Organelle Name | Plant, Animal or Both? | Function | Structure |
| Cell/Plasma Membrane |  | Controls what enters & exits the cell. |  |
| Nucleus |  |  | Contains DNA/chromosomes  Enclosed by a porous double membrane called the nuclear membrane. |
| Nucleolus |  | Takes RNA and makes ribosomes |  |
| Ribosomes |  |  | Tiny organelles made of proteins & RNA. (Found on Rough ER or free floating in cytoplasm) |
| Rough Endoplasmic Reticulum (RER) |  | Transport, "intracellular highway“. Site of protein synthesis; makes more ER |  |
| Smooth Endoplasmic Reticulum (SER) |  |  | Thin folded membranes that are connected together. |
| Vesicle |  | carry substances throughout the cell |  |
| Golgi Body/  Apparatus/Complex |  |  | Closely layered stacks of membrane enclosed discs |
| Lysosomes |  | Breaks down food, waste & damaged cell parts all within the cell; also destroys invaders (bacteria, viruses) |  |
| Organelle Name | Plant, Animal or Both? | Function | Structure |
| Vacuole |  |  | fluid filled sacs; small in animal cells; large in plant cells |
| Chloroplasts |  | Uses sunlight to create food, photosynthesis (only found in green plants & algae) |  |
| Mitochondria |  |  | Bean shaped; 2 membranes; has own DNA & ribosomes |
| Cytoplasm/Cytosol |  | Hold organelles in place & site for chemical reactions |  |
| Cytoskeleton |  |  | A network of protein filaments (microtubules, microfilaments) |
| Centrosome/Centrioles |  | Helps the cell divide |  |
| Flagella |  |  | Made of microtubules |
| Cilia |  | For movement and gathering food |  |
| Cell Wall |  |  | tough, flexible and sometimes rigid, consisting of cellulose |