|  |  |  |  |
| --- | --- | --- | --- |
| **Nucleus** | **Nuclear envelope** | **Nuclear lamina** | **Chromosomes** |
| **Chromatin** | **Nucleolus** | **Free ribosomes** | **Bound ribosomes** |
| **Nuclear pores** | **Smooth ER** | **Rough ER** | **Transport vesicles** |
| **Golgi apparatus** | **Lysosome** | **Food vacuole** | **Central vacuole** |
| **Mitochondrion** | **Chloroplast** | **Peroxisome** | **Cytoskeleton** |
| **Motor protein** | **Microtubules** | **Centrosome** | **Centrioles** |
| **Flagella** | **Cilia** | **Microfilaments** | **Intermediate filaments** |
| **Tight junctions** | **Desmosomes** | **Gap junctions** | **Cell wall** |
| **Plasmodesmata** | **Extracellular matrix** | **Collagen** | **Elastin** |
| **DNA** | **RNA** | **Protein** | **Protein** |
| **Transport vesicle** | **Transport vesicle** | **Transport vesicle** | **RNA** |
| **Amino acids** | **Dehydration synthesis** | **Hydrolysis** | **Glucose** |
| **ATP** | **Cell Membrane** | **Membrane protein** | **Phospholipids** |