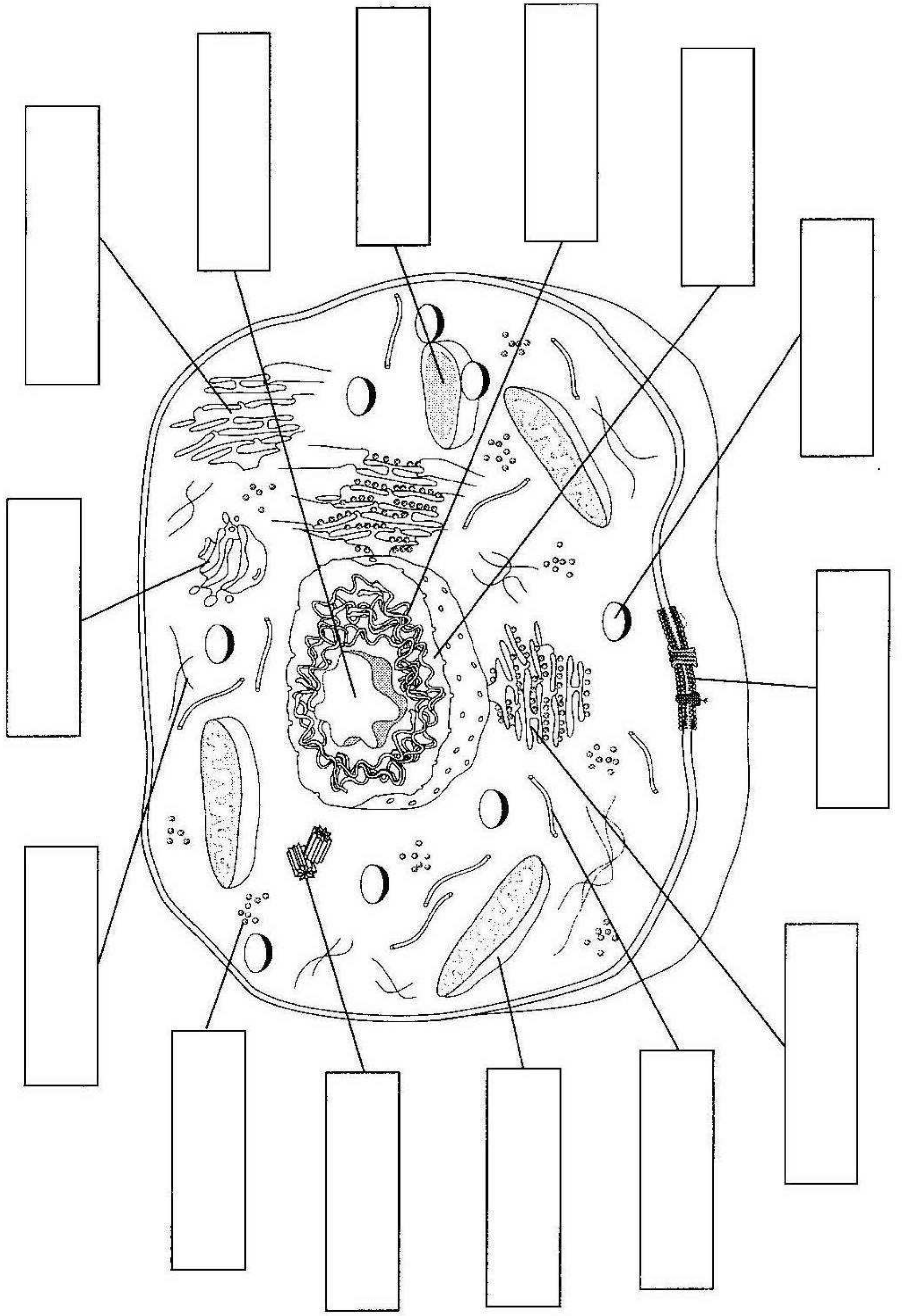


|  |  |  |  |
| --- | --- | --- | --- |
| **Organelles** | **Appearance Location Function** | | |
|  | -Egg shaped membrane bound structures -Produced by the Golgi apparatus | - ONLY found in *animal* cells | -Contain digestive enzymes that break down molecules  -Aid in the digestion of nutrients  -Break down destructive  cells (bacteria) |
|  | -Network of thin, fibrous proteins (microtubules & microfilaments) | -Entire cell | -Acts as a sort of scaffold to provide support for organelles  -Helps maintain cells shape |
|  | -Long, threadlike proteins | -A part of cytoskeleton | -Associated with muscle contractions in larger organisms -Associated with cell movement |
|  | -Thin, hollow cylinders of protein | -A part of cytoskeleton | -Provide shape and rigidity to the cell  -Assist organelles to move from place to place within the cell |
|  | -thin hair-like projections | Formed from specialized microtubules  - Attached to outside of cell | -Aid in movement and locomotion  (intestinal cells) |
|  | -Whip-like tails | -Formed from specialized microtubules  - Attached to outside of cell | -Aid in movement and locomotion  (sperm) |
|  | -Strings of  “spaghetti” | - Inside nucleus | -Uncoiled DNA  -Involved in duplicating the cell  - Coils into chromosomes  during cell division |
|  | -Coiled chromatin | -Inside nucleus | -Contains genetic information  (DNA) |
|  | -Two small structures | -Found inside the centrosome  (only in *animal* cells) | -Moves chromosomes during cell division |
|  | -varies  -Have own DNA | - Only in plants | -Based on type: leucoplast (store starch), chromoplasts (store pigment), chloroplasts |
|  | -Small, circular, green (contains chlorophyll (green pigment) | -Only in plants | -Site of photosynthesis |
|  | -made of cellulose -rigid, strong, stiff structure | -surrounds cell membrane  (only in plants) | -Support & protection  -Allows H2O, O2, CO2 to pass into and out of cell |

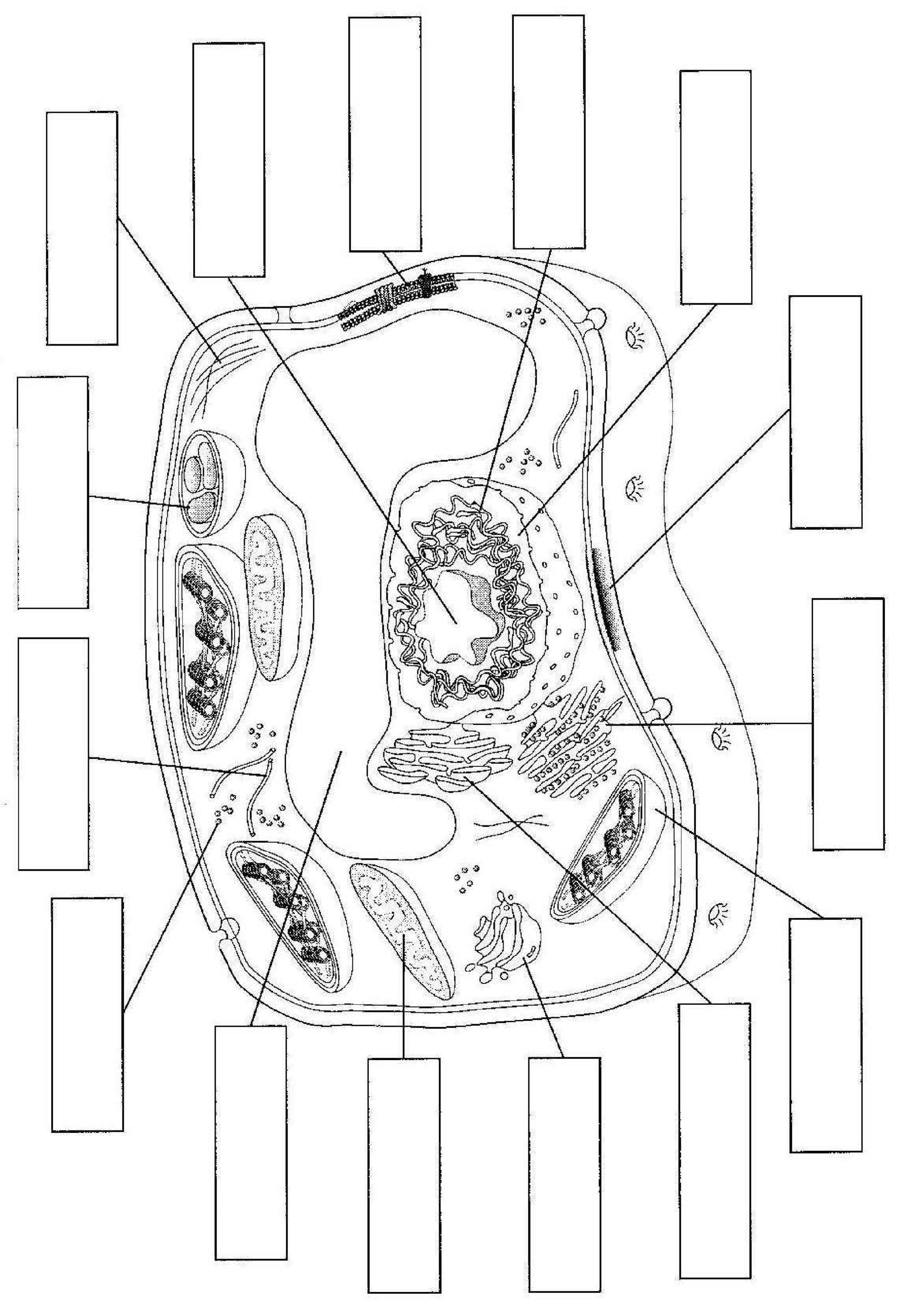
**NOTE:**

All the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_work together!

o For example, after some proteins are made by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the rough ER transports these proteins to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, then the Golgi makes vesicles that can fuse with the cell’s plasma membrane to release proteins to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ outside the cell or used within the cell.



Animal Cell



Plant

Cell

