**Microscope**

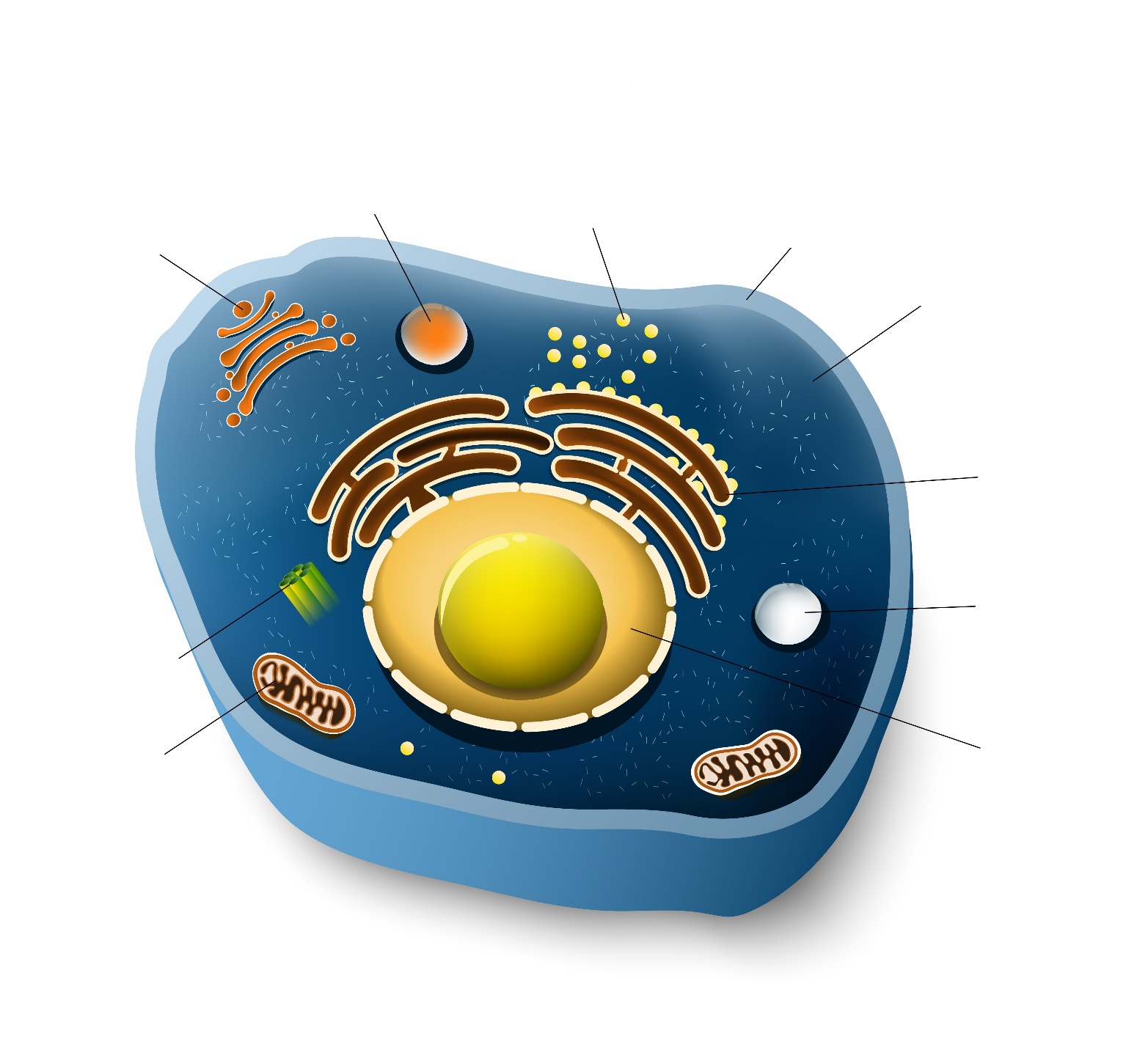
**Laboratory**



The Compound Microscope



The Animal Cell



Parts of the Animal Cell

\_\_\_\_Nucleus

\_\_\_\_Membrane

\_\_\_\_Cytoplasm

\_\_\_\_Rough Endoplasmic Reticulum

\_\_\_\_Ribosomes

\_\_\_\_Golgi Apparatus

\_\_\_\_Centriole

\_\_\_\_Mitochondrion

\_\_\_\_Peroxisome

\_\_\_\_Lysosome

1. the site of biological protein synthesis (translation)
2. provides the main source of energy- ATP
3. contains most of the genetic material of the cell
4. organelle that breaks down long chain fatty acids
5. packages proteins into membrane-bound vesicles
6. synthesizes and exports proteins and membrane lipids
7. the gel-like substance enclosed within the cell membrane
8. contains enzymes that break down biomolecules
9. structure that aid in the organization of cell division
10. separates cell from the extracellular environment

Select Cell Functions

­­\_\_\_Goblet Cell

\_\_\_Chief Cell

\_\_\_Parietal Cell

\_\_\_Type I Alveolar Cell

\_\_\_Type II Alveolar Cell

\_\_\_Macrophage

\_\_\_Neuron

\_\_\_Red Blood Cell

\_\_\_Platelet

\_\_\_Neutrophils

1. transmits information by electrical and chemical signals
2. first-responders of immune defense that create pus
3. involved in gas exchange
4. stops bleeding by clumping and clotting
5. engulfs and digests cellular debris
6. secretes hydrochloric acid
7. delivers oxygen to body tissues
8. secretes pulmonary surfactant
9. secretes the digestive enzyme pepsinogen
10. secretes mucin