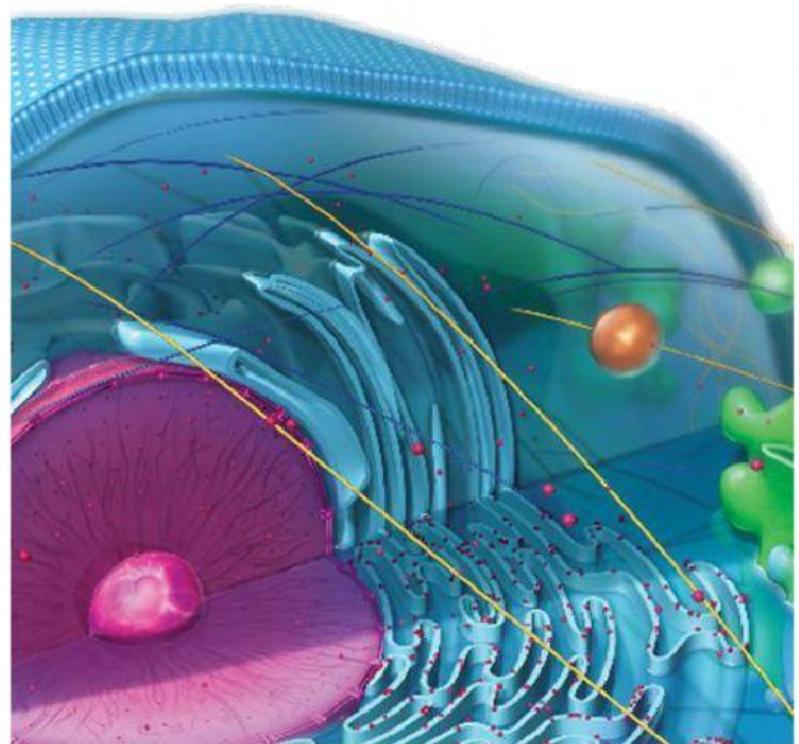
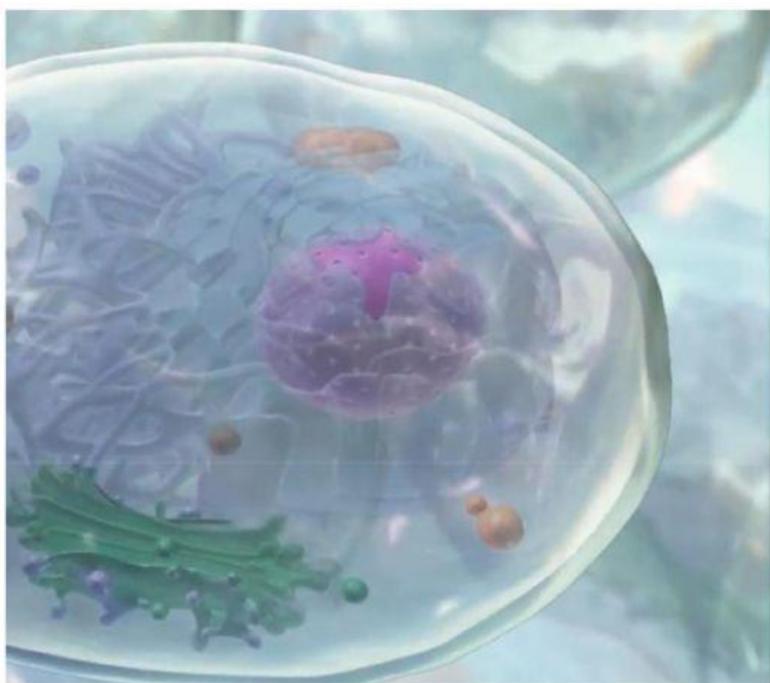


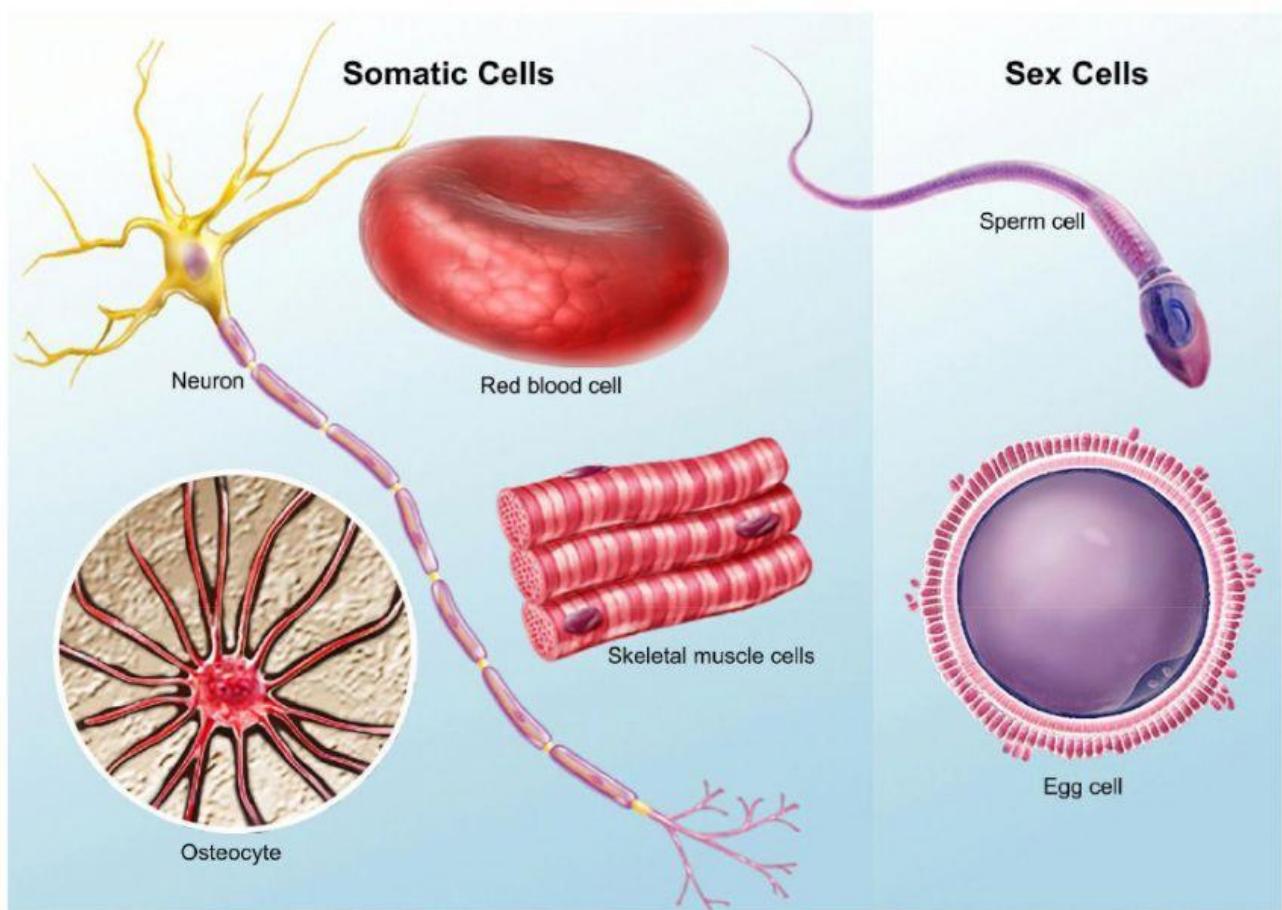
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Cells and Tissue Overview



Cell Types



1. All living things are composed of one or more cells. Adult humans are composed of trillions of cells that have a stunning array of forms and functions. How many different types of cells are there in the human body?

2. What are six examples of human cell types and their essential functions?

Example	Essential function

3. In Cell Types, examine the illustrations of six specific cells: **a neuron, red blood cell, osteocyte, skeletal muscle cell, sperm cell, and egg cell.**

a. What observations can you make on how these cells are similar?

b. What observations can you make on how these cells are different?

c. What is a difference between a **somatic cell** and a **sex cell**?

4. Think about a living organism (e.g. bacterium, fern, fruit fly, or mouse) and consider what characteristics it has that make it alive. What do all living things require and what do they do? Because all living things are composed of one or more cells, cells share some of these characteristics. Write down some characteristics of living things.

Keep these characteristics in mind as you learn about organelles and metabolism in the following in-lab exercises.