#### The Different Jobs of Cells

2.2

# I. Special Cells for Special Jobs

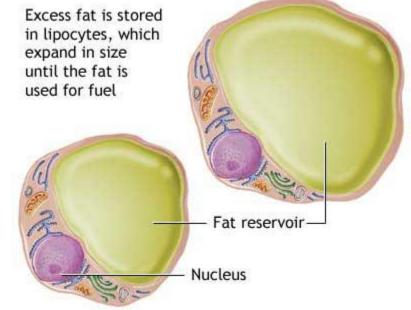
Cells that make up many-celled organisms are specialized

 Bacteria cells are single celled, all other cells are "many celled" organisms

# A. Types of Human cells

A cell's shape and size can be related to its function

 FAT CELLS – can store so much fat that the nucleus gets pushed against the cell membrane



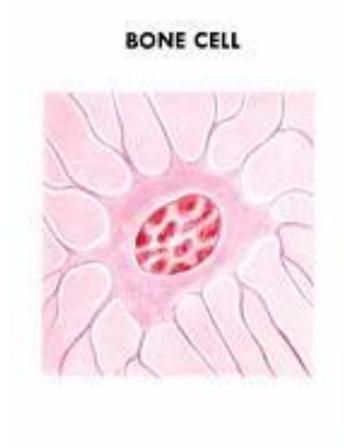
# Skin Cells

 Are mostly flat and close together. They form a protective layer for your body

# Structure of the Epidermis um OLD um um um YOUNG sale mis

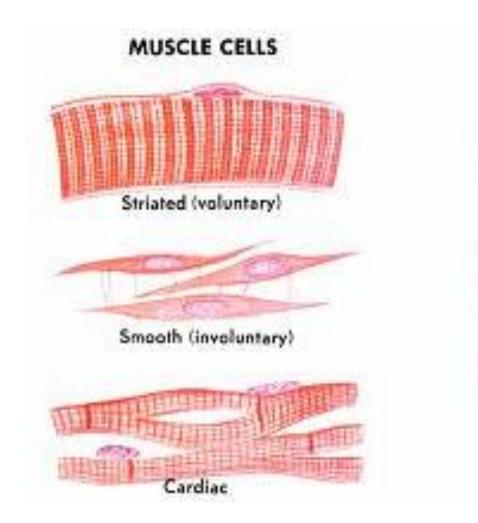
#### Bone Cells

 Bone cell is surrounded by a hard substance made of calcium and phosphorus



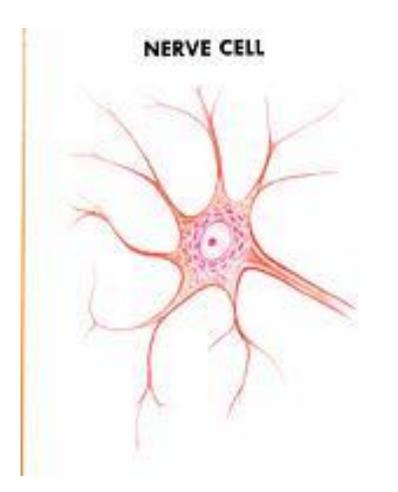
# Muscle Cell

 Muscle cells are usually long and have many fibers that can contract and relax



### Nerve Cell

 Nerve cells are long and have many branches. This allows them to receive and deliver messages



### B. Types of Plant Cells

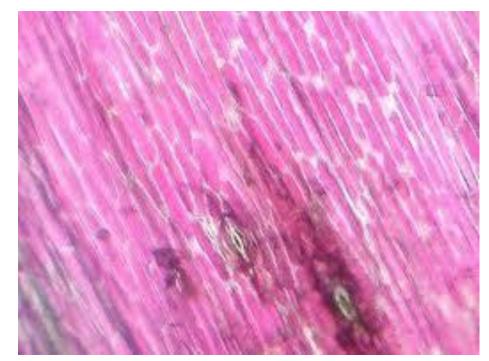
Plants have different type of cells in their leaves, roots, and stems

Root Cells are block shaped and do not contain chloroplasts



#### Plant Stem Cells

 Stem Cells - Many of the cells in stems are long and tubshaped. They move water and other materials through the plant



# II. Cell Organization

 Cells are organized into systems that perform functions that keep the organism healthy and alive

#### A. Tissues and Organs

- Cells that are alike are organized into tissues
  - <u>Tissues</u> are groups of similar cells that all do the same sort of work

 Different types of tissues working together can form an <u>organ</u>

### B. Organ Systems

- A group of organs that work together to do a certain job is an organ system
- Organ systems in the human body include:
  - Digestive system, respiratory system, circulatory system, reproductive system and nervous system