

Organization of the Body

- **Neurons**: specialized for generating electrical signals in the brain; conducts signals through electrical impulses
- **Muscle Fibers**: contracts to generate force → controlled on both voluntary (skeletal muscle) and involuntary (cardiac-muscle, smooth muscle) levels
- **Epithelia Cells**: sheet-like layer of cells, found where body fluids separate from external environment
 - basement membrane: non-cellular material
 - lumen: interior compartment of a narrow organ/vessel → epithelia tissue lines lumens
 - Glands: organs specialized in synthesis + secretion of a product
 - exocrine glands: secrete a product to external environment (sweat/salivary)