<u>Cell Specialization and Tissues</u>

All individuals develop from a zygote (single cell derived from a sperm and egg). During the development of the embryo cell specialization occurs - cells become differentiated

cells → cell types → tissues → organs → person

Types of Cells:

- epithelial skin
 - membranes
 - gland and some organ tissue
- muscle cell skeletal (voluntary)
 - smooth muscle
 (involuntary) digestive
 tract
 - cardiac muscle
 (involuntary)
- nervousbrain and nerves
- connective bones
 - ligaments and tendons
 - fat
 - blood

(any tissue that produces a
matrix)