

# Stem Cells

- Most cells are super specialized
- Stem cells are not specialized and they can take on any job in the cell after being specialized
- They can convert after being under the right conditions
- Used to help repair tissues or organs or other things
- Useful because it helps **circumvent organ rejection**
- Organ rejection will **still happens**
- **if the stem cells are** not from yourself\*\*

## There are two types of stem cells

### Adult stem cells

- **Multipotent** stem cells
  - Cannot become everything, once a few certain things
- Stem cells from bone marrow can form cells relative to the bone marrow
- Several types
  - Bone marrow
  - Heart
  - Brain
  - etc...

### Embryonic stem cells

- Found in developing embryos (after the zygote, before the fetus)
- Are **pluripotent**
  - Not specialized at all, can be convinced to become any cell