**A.**
- **Donor Organ**
- **Dissociation**
- **Single cell**
- **Sort with FACS**
- **Add stromal cells**
- **Transplantation into the recipient**

**B.**
- **Donor species**
- **Blastocyst**
- **Inner cell mass**
- **Microinjection**
- **Implantation into recipient embryo of another species**

**C.**
- **Remove blastocyst**
- **Decellularization**
- **Scaffold**
- **Parenchymal cell**
- **Vascular cell**
- **Supportive cell**
- **Recellularization in a bioreactor**
- **Engineered organ**
- **Transplantation**

**D.**
- **Polyglycolic acid-polyactic acid**
- **Form a polymer template in the shape of a human organ**
- **Polymer scaffold**
- **Seed stem cells and implant under the skin of animal**
- **Engineered organ**
- **Transplantation**

**Plastic and reconstructive surgery**

**The recipient animals**