

# **Biotechnology: Status and Uses**

**Animal Science 434**

**John J. Parrish**

# Reproductive Biotechnology's

- **Artificial insemination**
- **In vitro embryo production**
- **In vivo embryo production**
- **Embryo transfer**
- **Gender selection**
- **Stem Cells**
- **Genetic engineering**
- **Cloning**

# **In Vitro Production of Embryos**

- **Oocyte isolation and maturation**
- **Sperm preparation**
- **Sperm capacitation**
- **Fertilization**
- **Embryo Development**