

### Student Learning Objectives

By the end of this class you should understand:

- Causes of infertility in men and women
- The different types of assisted reproductive technologies
- The primary sources of ethical issues surrounding ART
- The technique and concerns for genetic screening
- The potential for treatments such as gene therapy and cord blood
- The process and benefits of genetic counseling

Support videos:

- TED
  - <http://www.youtube.com/watch?v=Ez560GnkSrE>
- Reproductive technology
  - <http://www.youtube.com/watch?v=bONk5ReIRkg>
- One humorist's experience with IVF
  - <http://robcomplains.com/tag/ivf/>

Vocabulary:

- Infertility
- Assisted Reproductive Technology (ART)
- Artificial insemination
- In vitro fertilization
- Intracytoplasmic sperm injection (ICSI)
- Gamete intrafallopian transfer (GIFT)
- Zygote intrafallopian transfer (ZIFT)
- Genetic screening
  - Newborn screening
  - Preimplantation genetic diagnosis
- Gene therapy
  - Somatic gene therapy
  - Germ-line gene therapy
  - Enhancement gene therapy
- Placental cord blood
- Genetic counseling