

• Reproductive System

- The Reproductive System allows the production of offspring
 - The reproductive system produces specialized cells→the female produces **eggs**; the male produces **sperm**. These specialized cells contain genetic material.
 - The female reproductive system→has two functions: to produce **eggs** and to protect and nourish the **offspring** until birth
 - The **pituitary** gland stimulates eggs in the ovary to grow
 - An egg is release into the **fallopian** tube, where it may be fertilized, by a **sperm** cell
 - The egg moves to the **uterus**, where, if fertilized, it implants in the uterine wall
 - If not fertilized, the egg and the uterine lining exit the body through the vagina in a process called→**Menstruation**
 - The male reproductive system→contains the **testes**, which produce sperm, and the **urethra**, which is a canal through the **penis**. Sperm move through the urethra and exit the penis.

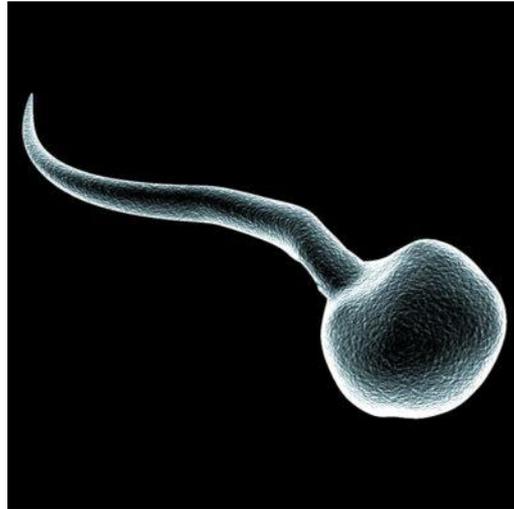


Reproduction Continued

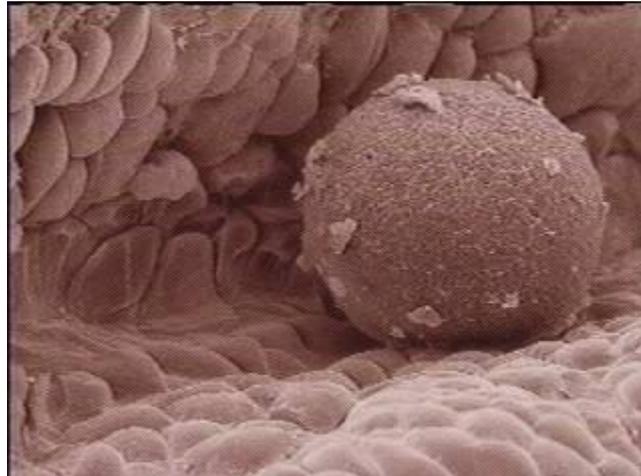


- The production of offspring include fertilization, pregnancy, and birth
 - **Fertilization**→is the joining of one egg cell and one sperm cell
 - Once fertilized the egg divides, producing an **embryo**. Cells in the embryo continue dividing
 - The embryo implants in the spongy lining of the uterus
 - During the nine months of Pregnancy→the embryo grows and develops, fed through the **placenta**
 - Labor and delivery→
 - The first stage of birth begins with muscular **contractions** of the uterus
 - In the second stage, the **cervix** is fully dilated and the baby leaves the mother
 - In the third stage, the **umbilical** cord is cut and the placenta exits the body
 - Multiple births
 - single fertilized cell=**identical** twins
 - two fertilized eggs=**fraternal** twins

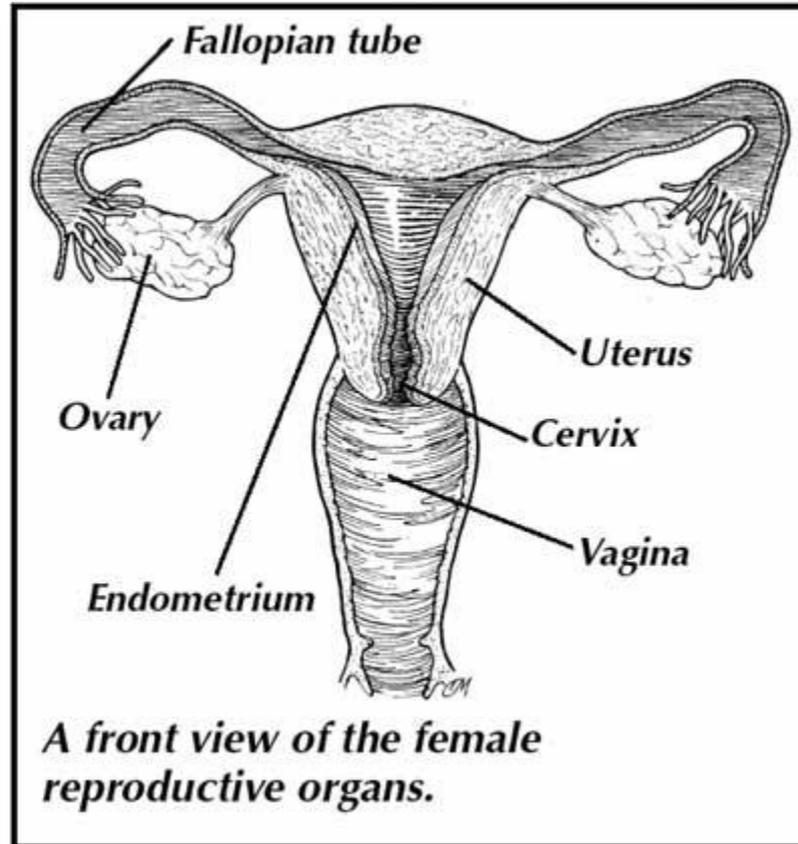
Sperm



Egg Cell

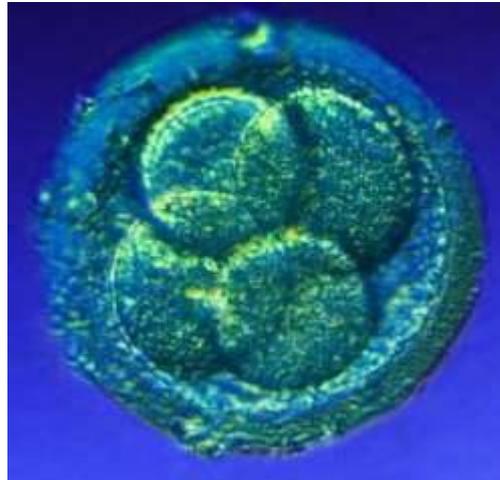


Female Reproductive System



Zygote

1st day until 4th day

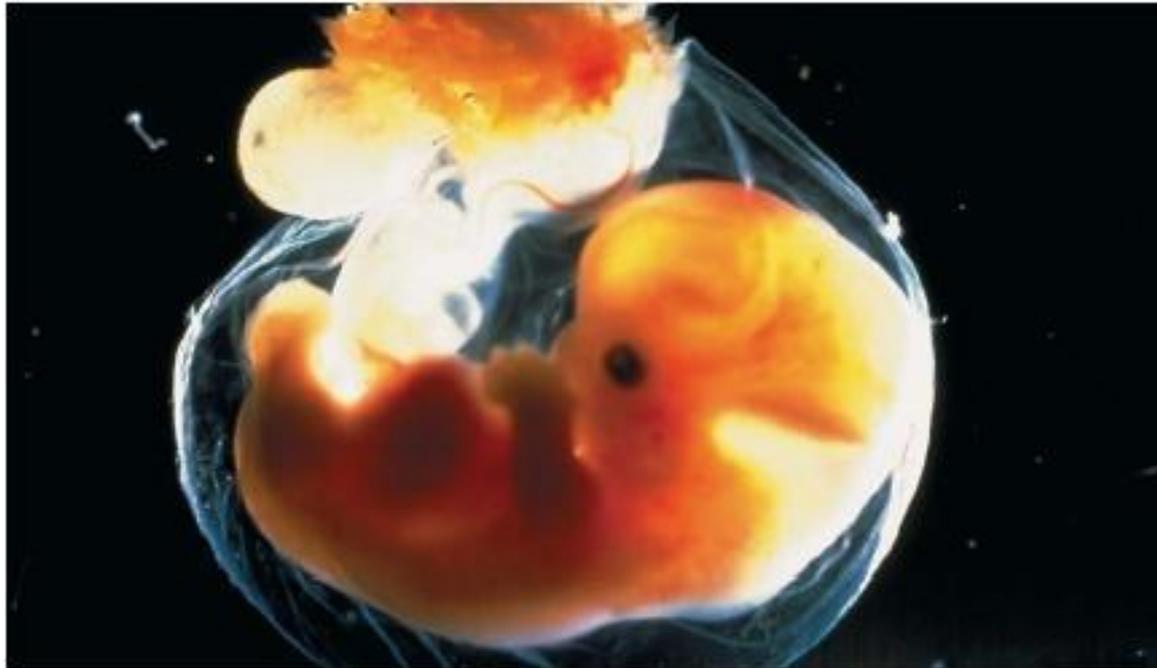


Embryo

4th day until 8th week



Embryo at 5 weeks



Fetus 9th week until birth



Fetus at Birth



Birth
(stage 1)