

## 2. Human Reproduction:

→ NER1 - Male and Female genital sketches (captions textbook p. 3-5) & function textbook pg. 7-9

### > Structural suitability of the sperm for fertilization:



- Acrosome (G) contains lithic enzymes that cause an opening in the ovum
- Nucleus (F) in the head (H) of the male / haploid number of chromosomes
- Many mitochondria (D) in the middle part (E) release energy so that the sperm can swim
- The presence of a tail (C) makes it possible for the sperm cell to swim to the ovum
- The content of the sperm cell, such as the cytoplasm, is reduced / dense to make the sperm cell light for efficient movement
- Sperm is streamlined to allow easy movement

### > Spermatogenesis and semen formation:

- **SPERMATOGENESIS:**
  - Takes place under the influence of **TESTOSTERONE**
  - in the **SEMINAL VESICLES** / testes.
  - Diploid (germinal epithelial) cells undergo **MEIOSIS**
  - To form haploid **SPERMATOCYTES**.
- **FORMATION AND TRANSPORT OF SEMEN:**
  - Sperm are **TEMPORARILY STORED** in the **EPIDIDYMS**.
  - During **COPULATION**
  - sperm move through the **VAS DEFERENS**
  - as it moves through the seminal vesicles
  - the **PROSTATE GLAND**
  - and **COWPER'S GLANDS**
  - adds **LIQUIDS** which provide **NUTRITION**
  - and promote **MOVEMENT**.
  - It **NEUTRALIZES ACID** produced in the vagina & urethra.

- The semen passes through the **URETHRA**
- of the **PENIS**
- to the **VAGINA**
- during **COPULATION**
- and "swim" along the fallopian tube
- where it reaches the **OVUM**

### > Oogenesis:

- Under the influence v. FSH
- the diploid (germ epithelial) cells develop in the ovary by **MITOSIS**
- to form multiple follicles
- One cell enlarges in the follicle
- and divided by **MEIOSIS**
- Only **ONE** of the **SPERMATOCYTES** that are formed **SURVIVE**
- To develop into a haploid ovum.

### > Structure and function of ovum (egg cell):

- Haploid cell that
- fuses with the sperm nucleus to form a diploid zygote
- **CELLULOSE LAYER** that protects ovum
- causes ovum to become **IMPENETRABLE** as soon as **FERTILISATION** takes place.
- The **CYTOPLASM** provides **NUTRITION**.  
(must be able to draw OVUM with labels)

### > Role of hormones during the menstrual cycle (ovarian and uterine cycles)

- FSH is secreted
- by the pituitary gland / hypophysis (in the brain).
- FSH stimulates the development of a primary follicle
- in a Graafian follicle
- As the Graafian follicle develops, it secretes **ESTROGEN**
- causing the lining of the uterus / endometrium
- to thicken / becomes more vascular
- in preparation for possible implantation.
- The pituitary gland / hypophysis
- secretes LH
- which causes the Graafian follicle to break and release the ovum.
- This is called **OVULATION**.
- The empty follicle changes and forms the corpus luteum
- that start to secrete **PROGESTERONE**

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**Jiyuan Zhang**



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