

Chapter 27: Reproductive System

Reproductive System

- **Reproductive System:** To produce offspring
 1. **Gametes:** Form specialised cells for sexual reproduction
 2. **Sexual Intercourse:** Bring gametes from the male and female together
 3. **Fertilisation:** Combine the genetic information contained within the male and female gametes
 4. **Gestation:** Support development of foetus
 5. **Parturition:** Birth of the baby
- Male vs. Female
 - **Gonads:** Homologous structure. Primary sex organs → produce gametes + sex hormones
 - **Sex Hormones:** Steroid hormones play vital roles in the development and function of reproductive organs + sexual behaviour
 - Testosterone in males
 - Estrogens and progesterone in females
 - **Homologous structures:** Share common origin during development
 - Reproductive Hormone Secretion
 - **HPG (Hypothalamic-pituitary-gonadal) Axis**
 - **Gonadotropin-Releasing Hormone (GnRH):** Stimulates testes or ovaries via effect on FSH and LH release
 - Released from hypothalamus
 - **Follicle-Stimulating Hormone (FSH) + Luteinising Hormone (LH):** Gonadotropins
 - Released from anterior pituitary
 - Act in both sexes
 - Stimulate gamete production and sex hormone secretion
 - **Sex Hormones**
 - **Puberty:** Period of life when the reproductive organs grow to adult size and become functional
 - Before puberty steroidal sex hormone levels are low → low levels suppress secretion of GnRH by the hypothalamus
 - During puberty → release of GnRH is rhythmic and pulse like → releases FSH and LH → stimulates release of more sex hormones from gonads
 - **Meiosis:** Basis of gamete production
 - Sequence
 - **Meiosis I:** homologous pairs of chromosomes separate from each other (reduction division) $2n \rightarrow n$
 - **Prophase I:** Replicated chromosomes pair up with homologous partners
 - **Synapsis:** Alignment of homologous pairs along the length of cell

Chapter 27 The Reproductive System

Roman Wölfel



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