

Cell Cycle

- G₁:** Make mRNA and proteins to prep for mitosis.
- G₀:** A cell will enter G₀ if it **DOES NOT** need to divide.
- G₁ Checkpoint:** Cell decides if it should divide. p53 in charge.
- S:** DNA replicated.
- G₂:** Cell growth. Make organelles.
- G₂ Checkpoint:** Check cell size & organelles.
- M:** Mitosis and cytokinesis.



Growth Signals

- Positive Growth Signals:**
- 1) CDK + Cyclin create a complex
 - 2) Phosphorylate Rb to Rb + P
 - 3) Rb changes shape, releases E2F
 - 4) Cell division continues
- Negative Growth Signals:**
- 1) CDK inhibitors block phosphorylation of Rb
 - 2) So, E2F stays attached
 - 3) Cell cycle halts

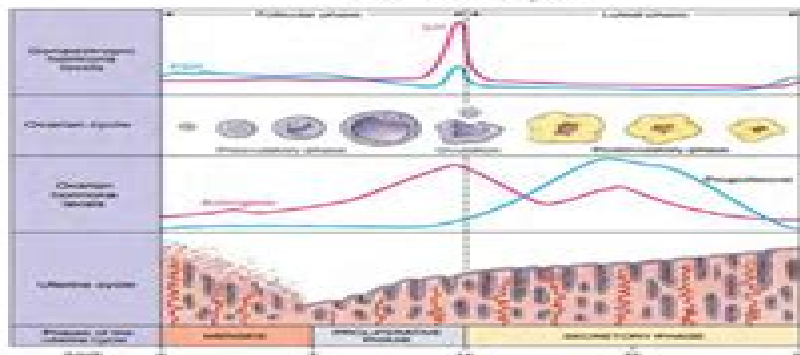
Sex Chromosomes

- Sex determined by 23rd pair of chromosomes. **XX = female**, **XY = male**.
- X-Linked Disorders:** Males express, females can be carriers.
- Y-Chromosome:** Little genetic info. SRY gene = "Sorry you're a male"

Male Reproductive System

- Semen:** Sperm + seminal fluid.
- Bulbourethral Glands:** Makes viscous fluid to clean out urethra.
- Seminal Vesicles & Prostate Gland:** Make alkaline fluid to help sperm survive acidic environment of female reproductive tract.
- SEVEN UP:** sperm pathway mnemonic
- Seminiferous tubules:** Site of spermatogenesis. Nourished by Sertoli Cells.
- Epididymis:** Stores sperm. Sperm gain motility.
- Vas deferens:** Raise / lower testes.
- Ejaculatory duct:**
- Urethra:**
- Penis:**

The Menstrual Cycle



Mitosis

- PMAT
- Ploidy of 2n throughout

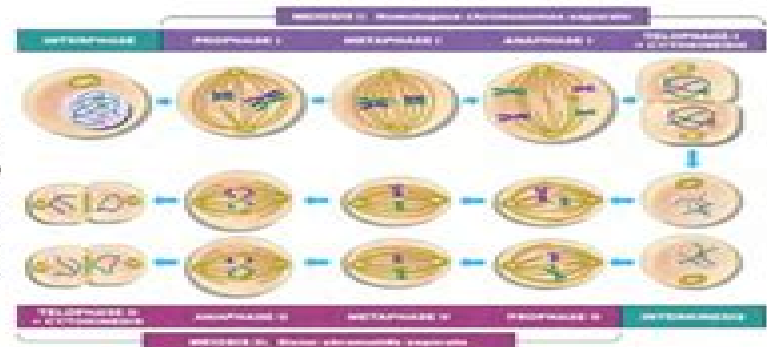
- Prophase:** DNA condenses. Centrioles migrate to opposite poles and microtubules form. Nuclear envelope disappears.
- Metaphase:** "Meet in the middle". Chromosomes meet in middle.
- Anaphase:** "Apart". Sister chromatids separate and move to opposite poles.
- Telophase:** Chromosomes decondense. Nuclear membrane forms. Cytokinesis occurs.

Meiosis

- PMAT x 2
- Nondisjunction:** When sister chromatids don't separate properly during **anaphase**. Results in **aneuploidy**.

- Prophase I:** Chromosomes condense, nuclear membrane dissolves, homologous chromosomes form bivalents, **crossing over occurs**.
- Metaphase I:** Spindle fibers from opposing centrosomes connect to bivalents (at centromeres) and align them along the middle of the cell.
- Anaphase I:** Homologous pairs move to opposite poles of the cell. This is **disjunction** and it accounts for the **Law of Segregation**.
- Telophase I:** Chromosomes decondense, nuclear membrane MAY reform, cell divides (cytokinesis), forms two haploid daughter cells of **unequal sizes**.
- Prophase II:** Chromosomes condense, nuclear membrane dissolves, centrosomes move to opposite poles (perpendicular to before).
- Metaphase II:** Spindle fibers from opposing centrosomes attach to chromosomes (at centromere) and align them along the cell equator.
- Anaphase II:** Spindle fibers contract and separate the sister chromatids, chromatids (now called chromosomes) move to opposite poles.
- Telophase II:** Chromosomes decondense, nuclear membrane reforms, cells divide (cytokinesis) to form four haploid daughter cells.

Meiosis Diagram



Female Reproductive System

- Ovaries:** Have follicles that produce ova. Controlled by FSH and LH.
- Oogenesis:** Production of female gametes.
- Estrogen:** Response to FSH. Develops rep tract, thickens uterine wall.
- Progesterone:** Response to LH. Maintains / protects endometrium. "Estrogen establishes; progesterone protects the endometrium".
- Pathway:** Egg → peritoneal sac → fallopian tube / oviduct

Gonadotropin-Releasing Hormone (GnRH)

- FSH:** Follicle Stimulating Hormone.
Males: Triggers spermatogenesis, stimulates Sertoli Cells.
Females: Stimulates development of ovarian follicles.
- LH:** Luteinizing Hormone.
Males: Causes interstitial cells to make testosterone.
Females: **Induces ovulation**.

Mcat Bio Sheet

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