

MITOSIS - MEIOSIS

MCAT CHEAT SHEET STUDY GUIDE

Interphase → duplication of DNA + organelles

PMAT = Prophase Metaphase Anaphase Telophase

Mitosis - asexual nuclear division

Prophase



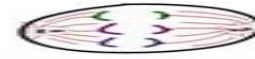
Nuclear envelope breaks, chromatin condense, centrosomes separate, formation of mitotic spindle

Metaphase



DNA lines up at Metaphase plate due to mitotic spindle pulling on sister chromatids via kinetochores

Anaphase



Centrosomes push out, microtubules shorten, sister chromatids separate

Telophase



Nuc envelope reforms, chromosomes decondense, mitotic spindle breaks
cytokinesis simultaneous

Cytokinesis - cell division → 2 identical daughter cells

homologs: equivalent chromosome from mother + father
diploid - DNA from both parents
haploid - from 1 parent chromatid

Meiosis - Sexual Nuclear Division → 4 haploid gametes

Prophase I



Nuc envelope breaks, centrosomes separate, spindle fibers form
crossing over between homologs

Metaphase I



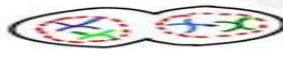
Homologs line up at metaphase plate. Spindle fibers attached to kinetochores

Anaphase I



Homologs pulled apart but sister chromatids are still attached

Telophase I



Nuc envelope reforms around sister chromatids. Cytokinesis happens at the same time

Meiosis I Product: 2 haploid daughter cells with duplicate DNA. (double mothers or fathers DNA)

Prophase II



Nuc envelope breaks, centrosomes separate, spindle fibers form
No crossing over

Metaphase II



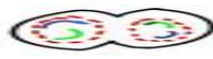
Sister chromatids line up at metaphase plate (90° plate turn)

Anaphase II



Cohesin breaks, sister chromatids pulled apart

Telophase II



Nuc envelope reforms around haploid chromatids which decondense to chromatin
cytokinesis at same time

Product Meiosis II: 4 haploid gametes

Spermatogenesis → 4 spermatozoa
oogenesis → 1 ootid + 2 (or 3) polar bodies

Mitosis vs
somatic cells
1 round
2 diploids
no crossing over

Meiosis
germ cells
2 rounds
4 haploids
crossing over

cohesin - binds sister chromatids
sister chromatids - copy of haploid (1-parent) DNA

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David Baud



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