Cheatography

Bio Finals Cheat Sheet by corn via cheatography.com/81210/cs/19478/

Cell Division

Genome - entire DNA Chromatin - Fiber Dna Chromosome - Condense single DNA cycle cycle = cell growth + cell division G1 phase: increase cell mass, 2x proteins, organelles, cytoplasm. DNA: chromatin (10h) S phase: 2x DNA content (cell is still 2N). DNA: Sister chromatids (9h) G2 phase: enzymes required for mitosis, complete growth (4h) M phase: Mitosis + cytokinesis (1h) Prophase: Chromosomes condense (appear as 2 sister chromatids) Centrosomes move apart, mitotic spindle forms Prometaphase: Nuclear envelope fragments and disappears spindle microtubules attach to kinetochore at centromere Metaphase: Chromosomes lined at the equator of the cell (metaphase plate) Anaphase: Kinetochore microtubule shorten; spindle poles move apart Sister chromatids separated and move to opposite poles of the cell Telophase: Nuclear envelope reform, chromosome less condensed contractile ring form, spindle microtubules depolymerised Cytokinesis: Contractile ring pinches cell into 2, each with a nucleus cytoplasm divided into 2 chi test: (o -e)^2/e df = phases - 1

Meiosis

2n -> 4 daughter cells with n Genetic variation: -independent assortment of homologous chromosome at metaphase I -Crossing over between homologous chromosome at prophase I -Random fertilisation Non-disjunction: spindle fibres fail to separate sister chromatids or homologous chromosomes monosomy: 2n -1 trisomy : 2n + 1 ds = trisomy 21 turner = Xtriplex = XXX klinefelter = XXY Jacob = XYY

Mode of inheritance

Locus: Location of a specific gene in a chromosome Allele: alternative version of the same gene Determines contrasting traits of the same character Character: heritable features that varies among individuals Trait: variant for each character Reciprocal Cross: To test the role of parental sex on a given inheritance pattern Parent organism must be true breeding c1: wt f x m m c2: m f x wt m

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