

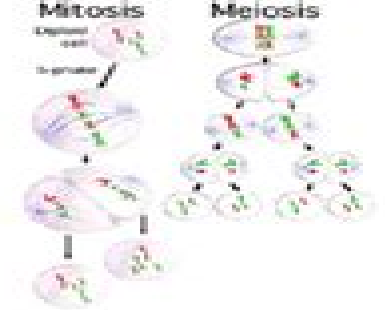
Biology 120- Lab Exam Review

Labs 5-7

Worth 15%

90 minutes

55 marks- spot test (10), short answer (45)



Lab 5: Intro to Genetics

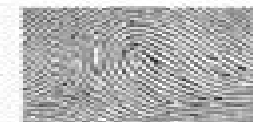
- Mendel's First Law- Alleles of one gene separate from each other in the formation of gametes
- Mendel's Second Law- Genes for different traits assort independently of one another in the formation of gametes.
- Test cross- mating between an individual of unknown genotype for a particular characteristic and an individual that is homozygous recessive for that characteristic.
- Independent assortment- Mendel's Second Law, genes assort independently
- Gene linkage- genes that are located less than 50 map units apart on the same chromosome and are inherited together.
- Frequency- range between 0 and 1, and always add up to 1. Ex. 0.5 Dd, 0.25 DD, 0.25 dd (genotypic frequency), 0.75 green seeds, 0.25 white seeds (phenotypic frequency)
- Ratio- in lowest quantity. Ex. 1 DD:2Dd:1dd (geno), 3 green seeds:1 white seed (pheno)
- Monohybrid cross- is between two organisms that differ with respect to one characteristic
- Dihybrid- differ in respect to two characteristics

Lab 6: Human Genetics and Gene Linkage

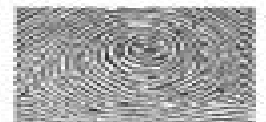
- Autosomes- The non-sex chromosomes (22 pairs in humans)
- Autosomal- Refers to genes that are located on autosomes (not sex-linked)
- Karyotype- Photographic representation of the chromosomes of an actively dividing cell, showing the specifics of the chromosomes.
- Turner Syndrome- Only one sex chromosome X
Symptoms- Short stature, non-functioning ovaries & webbed neck
- Down Syndrome- three chromosomes on the 21st pair (trisomy 21)
Symptoms- Almond-shaped eyes, mild to moderate mental deficiency & shorter limbs and neck
- Klinefelter Syndrome- Two X sex chromosomes and one Y sex chromosome (XXY)
Symptoms- possible learning disabilities, sterile with small testes & low testosterone levels
- PTC- Taster or non-taster, paper test
- X-linked (sex-linked)- Genes that are passed down from parental sex chromosomes, males are more likely to exhibit sex-linked recessive traits as they only have one X chromosome. Ex. Red-green colour blindness, total colour blindness & hemophilia.
- Polygenic- Phenotypic traits that involve contributions from the alleles of several or many genes at multiple locations on the chromosomes
- Pedigree chart- diagram that shows the occurrence of phenotypic traits or genetic diseases in successive generations, show how traits are passed along.
- Tri-radius- Y formation on fingerprints
- Fingerprints- Arch, loop, whorl, and double loop



Arch



Loop



Whorl

Study Guide For Biology 120 Lab

Léo Pomar



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