

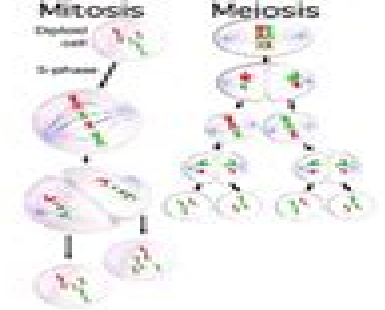
Biology 120- Lab Exam Review

Labs 5-7

Worth 15%

90 minutes

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



Lab 5: Intro to Genetics

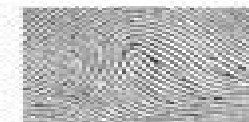
- Mendel's First Law- Alleles of one gene separate from each other in the formation of gametes
- Mendel's Second Law- Genes for different traits assort independently of one another in the formation of gametes.
- Test cross- mating between an individual of unknown genotype for a particular characteristic 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

Albert Kaskel



Study Guide For Biology 120 Lab:

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Undergraduate Science National Science Foundation (U.S.). Office of Experimental Projects and Programs, 1974

Handbook of Laboratory Animal Science, Volume III, Third Edition Jann Hau, Steven J. Schapiro, 2013-12-26 While replacing and reducing the use of laboratory animals are integral parts of the 3Rs replace reduce refine which form the cornerstones of laboratory animal science biomedical research involving animals remains absolutely essential for the advancement of the medical veterinary agricultural and biological sciences Building upon the bestselling previous edition the *Handbook of Laboratory Animal Science Volume III Third Edition* Animal Models complements volumes I and II of the third edition by completing the task of providing a comprehensive overview of animal models in all biomedical disciplines The three Rs have been integrated throughout this handbook to promote efficient and humane experimental work with animals Written by international experts each chapter focuses on an important subdiscipline of laboratory animal science and can be used as a stand alone text This volume contains new chapters for six additional disease animal models spinal cord injury cardiovascular diseases sudden infant death syndrome developmental disorders eye diseases and human cancer It also presents a new chapter on applying reduction and refinement to animal models This handbook can be used for undergraduate and postgraduate laboratory animal science courses and as a handbook for scientists who work with animals in their research for university veterinarians for regulators and for other specialists in laboratory animal science

Undergraduate Catalog University of Michigan--Dearborn, 2009 **Handbook of Laboratory Animal Science, Volume III** Jann Hau, Steven J. Schapiro, 2013-12-26 While replacing and reducing the use of laboratory animals are integral parts of the 3Rs replace reduce refine which form the cornerstones of laboratory animal science biomedical research involving animals remains absolutely essential for the advancement of the medical veterinary agricultural and biological sciences Building upon the bestsel Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1968 **Guide for the Care and Use of Laboratory Animals** National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Committee for the Update of the Guide for the Care and Use of Laboratory Animals, 2011-01-27 A respected resource for decades the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts taking into consideration input from the scientific and laboratory animal communities and the public at large The Guide incorporates new scientific information on common laboratory animals including aquatic species and includes extensive references It is organized around major components of

animal use Key concepts of animal care and use The Guide sets the framework for the humane care and use of laboratory animals Animal care and use program The Guide discusses the concept of a broad Program of Animal Care and Use including roles and responsibilities of the Institutional Official Attending Veterinarian and the Institutional Animal Care and Use Committee Animal environment husbandry and management A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment husbandry behavioral and population management and more Veterinary care The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian It includes recommendations on animal procurement and transportation preventive medicine including animal biosecurity and clinical care and management The Guide addresses distress and pain recognition and relief and issues surrounding euthanasia Physical plant The Guide identifies design issues providing construction guidelines for functional areas considerations such as drainage vibration and noise control and environmental monitoring and specialized facilities for animal housing and research needs The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities This updated and expanded resource of proven value will be important to scientists and researchers veterinarians animal care personnel facilities managers institutional administrators policy makers involved in research issues and animal welfare advocates

The Publishers' Trade List Annual ,1985 **Health Research Laboratory Design** National Institutes of Health (U.S.). Office of Architecture and Engineering,1968 **The Virginia Teacher** ,1920 The Human Body Henry Newell Martin,1906 Catalog Southwestern Indian Polytechnic Institute, **Readers' Guide to Periodical Literature** ,1920 **International Journal of Microscopy & Natural Science** ,1895 *Host Bibliographic Record for Boundwith Item Barcode 30112118404638 and Others* ,1895 **The Journal of Microscopy and Natural Science** ,1895

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