

Chapter 11: Introduction to Genetics

State Standards

Central Concept: Genes allow for the storage and transmission of genetic information. There are a set of instructions encoded in the nucleotide sequence of each organism. Genes code for the specific sequences of amino acids that comprise the proteins characteristic to that organism.

- 3.1 Describe the basic structure (double helix, sugar-phosphate backbone, linked by complementary nucleotide pairs) of DNA, and describe its function in genetic inheritance.
- 3.2 Explain how mutations in the DNA sequence of a gene may or may not result in phenotypic change in an organism. Explain how mutations in gametes may result in phenotypic changes in offspring.
- 3.4 Distinguish among observed inheritance patterns caused by several types of genetic traits (dominant, recessive, co-dominant, sex-linked, polygenic, incomplete dominance, multiple alleles).
- 3.5 Describe how Mendel's laws of segregation and independent assortment can be observed through patterns of inheritance (e.g., dihybrid crosses).
- 3.6 Use a Punnett Square to determine the probabilities for genotype and phenotype combinations in monohybrid crosses.

Key Terms

Genetics	Diploid	Genotype
Trait	Hybrid	Phenotype
Heredity	Miosis	P, F ₁ , F ₂
Gene	Homozygous	Monohybrid Cross
Locus	Heterozygous	Test Cross
Allele	Mendel's Law of Dominance	Homologous Chromosomes
Pure-bred	Dominant Allele	Probability
Hybrid	Recessive Allele	Punnett-Square Method
Self-Fertilize	Homozygous Dominant	Law of Segregation
Dominant	Homozygous Recessive	D ₁ -hybrid Crosses
Recessive	Gene Expression	Independent Assortment

You should be able to:

1. Describe why Mendel chose to study garden peas
2. Summarize Mendel's experimental design, including what traits he was observing
3. Summarize the results of Mendel's experiments
4. Analyze genotypic and phenotypic data obtained by Mendel
5. Summarize Mendel's Theory of Heredity
6. Explain the Laws of Heredity: Law of Dominance, Law of Segregation and Law of Independent Assortment (and how they relate to meiosis/sexual reproduction)
7. Solve Monohybrid and Dihybrid word problems using Punnett squares
8. Describe the role of probability in genetics

Chapter 11 Introduction To Genetics Workbook

**Alan G. Atherly, Jack R. Girton, John
Francis McDonald**



Chapter 11 Introduction To Genetics Workbook:

Thompson & Thompson Genetics in Medicine E-Book Robert L. Nussbaum, Roderick R. McInnes, Huntington F Willard, 2007-08-01 Through six editions Thompson's Genetics in Medicine has been a well established favorite textbook on this fascinating and rapidly evolving field integrating the classic principles of human genetics with modern molecular genetics to help you understand a wide range of genetic disorders The 7th edition incorporates the latest advances in molecular diagnostics the Human Genome Project and much more More than 240 dynamic illustrations and high quality photos help you grasp complex concepts more easily This title includes additional digital media when purchased in print format For this digital book edition media content is not included Acquire the state of the art knowledge you need on the latest advances in molecular diagnostics the Human Genome Project pharmacogenetics and bio informatics Better understand the relationship between basic genetics and clinical medicine with a variety of clinical case studies Recognize a wide range of genetic disorders with visual guidance from more than 240 dynamic illustrations and high quality photos This title includes additional digital media when purchased in print format For this digital book edition media content is not included

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Landscape Genetics
Niko Balkenhol, Samuel Cushman, Andrew Storfer, Lisette Waits, 2015-11-09 LANDSCAPE GENETICS CONCEPTS METHODS APPLICATIONS LANDSCAPE GENETICS CONCEPTS METHODS APPLICATIONS Edited by Niko Balkenhol Samuel A Cushman Andrew T Storfer Lisette P Waits Landscape genetics is an exciting and rapidly growing field melding methods and theory from landscape ecology and population genetics to address some of the most challenging and urgent ecological and evolutionary topics of our time Landscape genetic approaches now enable researchers to study in detail how environmental

complexity in space and time affect gene flow genetic drift and local adaptation However learning about the concepts and methods underlying the field remains challenging due to the highly interdisciplinary nature of the field which relies on topics that have traditionally been treated separately in classes and textbooks In this edited volume some of the leading experts in landscape genetics provide the first comprehensive introduction to underlying concepts commonly used methods and current and future applications of landscape genetics Consistent with the interdisciplinary nature of the field the book includes textbook like chapters that synthesize fundamental concepts and methods underlying landscape genetics Part 1 chapters on advanced topics that deserve a more in depth treatment Part 2 and chapters illustrating the use of concepts and methods in empirical applications Part 3 Aimed at beginning landscape geneticists and experienced researchers alike this book will be helpful for all scientists and practitioners interested in learning teaching and applying landscape genetics **Microbiology**

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Basic Genetics Robert F. Weaver, Philip W. Hedrick, 1995 This text provides a balanced coverage of clinical and molecular genetics Experimental highlights and extensive use of learning aids are used throughout After a broad

introduction to the topic the book is divided into 3 parts Part one explores Mendelian genetics including chromosomes and genetic linkage Part two looks at molecular genetics covering chemistry of a gene repluation and recombination of genes and transcription and its control in prokaryotes The final part introduces population genetics and discusses some of their extensions and applications *EBOOK: Molecular Biology* Robert Weaver,2011-03-16 Molecular Biology 4 e by Robert Weaver is designed for an introductory course in molecular biology Molecular Biology 5 e focuses on the fundamental concepts of molecular biology emphasizing experimentation In particular author Rob Weaver focuses on the study of genes and their activities at the molecular level Through the combination of excellent illustrations and clear succinct writing students are presented fundamental molecular biology concepts [National Library Service Cumulative Book Review Index, 1905-1974: Titles. \[A-Z National Library Service Corporation,1975](#) **Introduction to Population Genetics** Richard Halliburton,2004 Making the theory of population genetics relevant to readers this book explains the related mathematics with a logical organization It presents the quantitative aspects of population genetics and employs examples of human genetics medical evolution human evolution and endangered species For an introduction to and understanding of population genetics [Genetics for the Clinician](#) Cyril Astley Clarke,1964 *Basic Genetics* Robert Franklin Weaver,Philip W. Hedrick,1991 **African Zoology** ,2003 *Lewin's GENES X* Benjamin Lewin,Jocelyn Krebs,Stephen T. Kilpatrick,Elliott S. Goldstein,2011 Jacket **The Nature-study Review** ,1913 **Cell Biology and Genetics** Cecie Starr,Ralph Taggart,1998 Cell Biology and Genetics covers Chapter 1 Unit I The Cellular Basis of Life and Unit II Principles of Inheritance and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life The Cell Biology Genetics volume includes characteristics of life scientific methods basic chemistry cell biology metabolism mitosis and meiosis classical genetics human genetics molecular genetics recombinant DNA and genetic engineering **The Science of Genetics** Alan G. Atherly,Jack R. Girton,John Francis McDonald,1999 Iowa State Univ Ames Textbook for undergraduate biological science students Very colorful and user friendly format Includes chapter end questions boxed essays tables summaries key terms and suggested readings **Biological Abstracts** Jacob Richard Schramm,1927 **Book Review Digest** ,1919 **Science** ,1922 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting

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