

14.3 Studying the Human Genome

Lesson Objectives

- ☑ Summarize the methods of DNA analysis.
- ☑ State the goals of the Human Genome Project and explain what we have learned so far.

Lesson Summary

Manipulating DNA Since the 1970s, techniques have been developed that allow scientists to cut, separate, and replicate DNA base-by-base. Using these tools, scientists can read the base sequences in DNA from any cell.

- ▶ **Restriction enzymes** cut DNA into smaller pieces, called restriction fragments, which are several hundred bases in length. Each restriction enzyme cuts DNA at a different sequence of bases.
- ▶ **Gel electrophoresis** separates different-sized DNA fragments by placing them at one end of a porous gel, then applying an electrical voltage. The electrical charge moves the DNA.
- ▶ Using dye-labeled nucleotides, scientists can stop replication at any point along a single DNA strand. The fragments can then be separated by size using gel electrophoresis and “read,” base-by-base.

The Human Genome Project was a 13-year international effort to sequence all 3 billion base pairs in human DNA and identify all human genes. The project was completed in 2003.

- ▶ The researchers identified markers in widely separated strands of DNA.
- ▶ They used “shotgun sequencing,” which uses a computer to match DNA base sequences.
- ▶ To identify genes, they found promoters, exons, and other sites on the DNA molecule.
- ▶ To locate and identify as many haplotypes (collections of linked single-base differences) in the human population as possible, the International HapMap Project began in 2002.
- ▶ The Human Genome Project identified genes associated with many diseases and disorders. From the project came the new science of **bioinformatics**, the creation and use of databases and other computing tools to manage data. Bioinformatics launched **genomics**, the study of whole genomes.
- ▶ The human genome project pinpointed genes and associated particular sequences in those genes with numerous diseases and disorders. It also found that the DNA of all humans matches base-for-base at most sites, but can vary at 3 million sites.
- ▶ The 1000 Genomes Project, launched in 2008, will catalogue the variation among 1000 people.

Chapter 14 The Human Genome Answers

**Freeman, Scott Freeman, Warren W.
Burggren**



Chapter 14 The Human Genome Answers:

Genomes 4 T. A. Brown, 2018-12-07 Genomes 4 has been completely revised and updated It is a thoroughly modern textbook about genomes and how they are investigated As with Genomes 3 techniques come first then genome anatomies followed by genome function and finally genome evolution The genomes of all types of organism are covered viruses bacteria fungi plants and animals including humans and other hominids Genome sequencing and assembly methods have been thoroughly revised including a survey of four genome projects human Neanderthal giant panda and barley Coverage of genome annotation emphasizes genome wide RNA mapping with CRISPR Cas 9 and GWAS methods of determining gene function covered The knowledge gained from these techniques forms the basis of the three chapters that describe the three main types of genomes eukaryotic prokaryotic including eukaryotic organelles and viral including mobile genetic elements Coverage of genome expression and replication is truly genomic concentrating on the genome wide implications of DNA packaging epigenome modifications DNA binding proteins non coding RNAs regulatory genome sequences and protein protein interactions Also included are applications of transcriptome analysis metabolomics and systems biology The final chapter is on genome evolution focusing on the evolution of the epigenome using genomics to study human evolution and using population genomics to advance plant breeding Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still important Each chapter has a set of short answer questions in depth problems and annotated further reading There is also an extensive glossary Genomes 4 is the ideal text for upper level courses focused on genomes and genomics

Genomes 5 Terry A. Brown, 2023-04-28 Genomes 5 has been completely revised and updated It is a thoroughly modern textbook about genomes and how they are investigated As with previous Genomes editions techniques come first then genome anatomies followed by genome function and finally genome evolution The genomes of all types of organism are covered viruses bacteria fungi plants and animals including humans and other hominids Genome sequencing and assembly methods have been thoroughly revised to include new developments in long read DNA sequencing Coverage of genome annotation emphasizes genome wide RNA mapping with CRISPR Cas 9 and GWAS methods of determining gene function covered The knowledge gained from these techniques forms the basis of the chapters that describe the three main types of genomes eukaryotic prokaryotic including eukaryotic organelles and viral including mobile genetic elements Coverage of genome expression and replication is truly genomic concentrating on the genome wide implications of DNA packaging epigenome modifications DNA binding proteins non coding RNAs regulatory genome sequences and protein protein interactions Also included are examples of the applications of metabolomics and systems biology The final chapter is on genome evolution including the evolution of the epigenome using genomics to study human evolution and using population genomics to advance plant breeding Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still

important Genomes 5 is the ideal text for upper level courses focused on genomes and genomics Key Features A highly accessible and well structured book with chapters organized into four parts to aid navigation Superb artwork illustrates the key concepts and mechanisms Each chapter has a set of short answer questions and in depth problems to test the reader s understanding of the material Thoroughly up to date with references to the latest research from the 2020s **Essential Genetics** , **Human Molecular Genetics** Tom Strachan,Andrew Read,2018-03-29 Human Molecular Genetics is an established and class proven textbook for upper level undergraduates and graduate students which provides an authoritative and integrated approach to the molecular aspects of human genetics While maintaining the hallmark features of previous editions the Fourth Edition has been completely updated It includes new Key Concepts at the beginning of each chapter and annotated further reading at the conclusion of each chapter to help readers navigate the wealth of information in this subject The text has been restructured so genomic technologies are integrated throughout and next generation sequencing is included Genetic testing screening approaches to therapy personalized medicine and disease models have been brought together in one section Coverage of cell biology including stem cells and cell therapy studying gene function and structure comparative genomics model organisms noncoding RNAs and their functions and epigenetics have all been expanded

Principles of Genetics D. Peter Snustad,Michael J. Simmons,2015-10-26 Principles of Genetics is one of the most popular texts in use for the introductory course It opens a window on the rapidly advancing science of genetics by showing exactly how genetics is done Throughout the authors incorporate a human emphasis and highlight the role of geneticists to keep students interested and motivated The seventh edition has been completely updated to reflect the latest developments in the field of genetics Principles of Genetics continues to educate today s students for tomorrows science by focusing on features that aid in content comprehension and application This text is an unbound three hole punched version **Essential Genetics** Daniel Hartl,2011 Updated to reflect the latest discoveries in the field the Fifth Edition of Hartl s classic text provides an accessible student friendly introduction to contemporary genetics Designed for the shorter less comprehensive introductory course Essential Genetics A Genomic Perspective Fifth Edition includes carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation expression and regulation New and updated sections on genetic analysis molecular genetics probability in genetics and pathogenicity islands ensure that students are kept up to date on current key topics The text also provides students with a sense of the social and historical context in which genetics has developed The updated companion web site provides numerous study tools such as animated flashcards crosswords practice quizzes and more New and expanded end of chapter material allows for a mastery of key genetics concepts and is ideal for homework assignments and in class discussion **Growth and Development Through the Lifespan** Kathleen M. Thies,John F. Travers,2005 **Prentice Hall Biology, 2002** Irvine Welsh,Prentice-Hall Staff,2001-04 One program that ensures success for all students **Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c** Prentice Hall Direct

Education Staff,2001-04 One program that ensures success for all students **Human Genetics** Ricki Lewis,2008 Human Genetics Eighth Edition is a non science majors human genetics text that clearly explains what genes are how they function how they interact with the environment and how our understanding of genetics has changed since completion of the human genome project It is a clear modern and exciting book for citizens who will be responsible for evaluating new medical options new foods and new technologies in the age of genomics *Prentice Hall Miller Levine Biology Laboratory Manual a for Students Second Edition 2004* Kenneth Raymond Miller,Joseph S. Levine,Prentice-Hall Staff,2003-02 Authors Kenneth Miller and Joseph Levine continue to set the standard for clear accessible writing and up to date content that engages student interest Prentice Hall Biology utilizes a student friendly approach that provides a powerful framework for connecting the key concepts a biology Students explore concepts through engaging narrative frequent use of analogies familiar examples and clear and instructional graphics Whether using the text alone or in tandem with exceptional ancillaries and technology teachers can meet the needs of every student at every learning level Review for Surgery Lazar J. Greenfield,1997

Student Companion Guide to Accompany Principles of Genetics, 4th Edition D. Peter Snustad,H. James Price,Michael J. Simmons,2005-12-23 In the rapidly advancing science of genetics currency and accuracy are critical This book presents the most up to date developments in genetics as well as the fundamental principles It stresses how genetics is done and provides historical and biographical insights to the people and events that have made genetics a pre eminent science *Plain Talk about the Human Genome Project* Edward Jude Smith,Walter James Sapp,1997 **Practice Makes Perfect Advanced ESL Reading and Comprehension (EBOOK)** Diane Engelhardt,2013-07-24 The challenging exercises and critical vocabulary you need to advance your English skills Created by ESL instructor Diane Engelhardt Practice Makes Perfect Advanced English Reading and Comprehension features lengthy complex passages to help you develop essential English reading and critical thinking skills Inside are 15 readings on topics such as DNA evidence sustainable urban communities the human genome project and more subjects that will keep you engaged as you take your English to the next level You will get plenty of practice practice practice on understanding and comprehending high level vocabulary through enlightening exercises You ll master how to organize information you read summarize text and more Before you know it your reading skills will be stronger and your comprehension will grow enabling you to get more out of English language texts Practice Makes Perfect Advanced English Reading and Comprehension will help you Build your academic and technical vocabulary Boost your comprehension skills to an advanced level Create reading strategies to use with any difficult text Develop critical thinking skills Genetics of Hypertension Anna F. Dominiczak,J. M. C. Connell,2007 Classic and modern tools of genetics have been applied to hypertension research for some 20 years This volume in the Handbook of Hypertension series aims to go beyond a simple summary of discoveries and provides a critical commentary on many controversial issues It will be particularly useful for clinician scientists at all stages of their careers graduate students and post doctoral scientists

as well as all those interested in cardiovascular medicine and research throughout the entire spectrum from bench to bedside. As in every relatively young area of research the initial excitement over the early positive observations has not always been confirmed by subsequent larger studies with greater statistical power. Issues related to current recommendations on design of studies and their analysis are therefore included. Pharmacogenetics and pharmacogenomics have been the subjects of many debates in recent years and are of particular importance in hypertension as life long treatments frequently with multiple drugs are given to millions of people world wide. A critical appraisal of this controversial topic is provided. Several chapters on experimental genetics of hypertension with a special focus on physiological genomics are also included.

Biological Science Freeman, Scott Freeman, Warren W. Burggren, 2002-03 By Warren Burggren University of North Texas Jay Brewster Pepperdine University Laurel Hester South Carolina Governor s School for Science and Mathematics Rather than repeat what is covered in the textbook the Student Study Guide will help students study biology and think like a scientist. Introductory chapters on Data Interpretation Looking for Relationships Experimentation and Writing will be illustrated and developed for the student. Each text chapter will then be covered with the goal of reinforcing the ideas mentioned in introductory chapters and to tie them to appropriate topics within a chapter. *Breast Cancer Sourcebook* Sandra J. Judd, 2004 Basic Consumer Health Information about Breast Cancer Including Facts about Risk Factors Prevention Screening and Diagnostic Methods Treatment Options Complementary and Alternative Therapies Post Treatment Concerns Clinical Trials Special Risk Populations and New Developments in Breast Cancer Research Along with Breast Cancer Statistics a Glossary of Related Terms and a Directory of Resources for Additional Help and Information Life Ricki Lewis, 2002 Modules McDougal Littell Incorporated, 2005

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