

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 1the Human Genome Section Review Answer Key

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Chapter Resource 1 Biology and You Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

Scientific American Reader Third Edition for Myers David G. Myers,Richard O. Straub,2010-07-27 Longtime Myers collaborator Richard Straub provides an updated study guide for the new edition *The Pharmacy Technician Workbook*

and Certification Review, 7e Perspective Press,2020-01-15 The Pharmacy Technician Workbook and Certification Review 7e is a valuable tool to prepare for the national PCTE and ExCPT certification exams It corresponds with The Pharmacy Technician 7e textbook This edition has been updated to align with the Fifth Edition of the American Society of Health System Pharmacists ASHP Model Curriculum for Pharmacy Technician Education and Training Programs and the 2020 content outline for the Pharmacy Technician Certification Examination PTCE **Medical-Surgical Nursing - E-Book**

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highlight specific genetic issues related to body system assessments and disorders *Study Guide for Psychology* David G. Myers, Richard O. Straub, 2009-04-03 Longtime Myers collaborator Richard Straub provides an updated study guide for the new edition *Child Development* Laura E. Levine, Joyce Munsch, 2020-10-15 In the topically organized *Child Development An Active Learning Approach Fourth Edition* authors Laura E Levine and Joyce Munsch take students on an active journey toward understanding children and their development Active Learning activities integrated throughout the text capture student interest and turn reading into an engaged learning process Through the authors active learning philosophy students are challenged to test their knowledge confront common misconceptions relate the material to their own experiences and participate in real world activities independently and with children Because consuming research is equally important in the study of child development Journey of Research features provide both historical context and its links to today s cutting edge research studies Students will discover the excitement of studying child development while gaining skills they can use long after course completion This title is accompanied by a complete teaching and learning package **Chapter Resource 11**

Geme Technology Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *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 *Modern Genetic Analysis* Anthony J.F. Griffiths, 2002-02-22 *Modern Genetic Analysis Second Edition* the second introductory genetics textbook W H Freeman has published by the Griffiths author team implements an innovative approach to teaching genetics Rather than presenting material in historical order *Modern Genetic Analysis Second Edition* integrates molecular genetics with classical genetics The integrated approach provides students with a concrete foundation in molecules while simultaneously building an understanding of the more abstract elements of transmission genetics *Modern Genetic Analysis Second Edition* also incorporates new pedagogy improved chapter organization enhanced art and an appealing overall design

Medical-Surgical Nursing Sharon L. Lewis, RN, PhD, FAAN, Linda Bucher, Margaret M. Heitkemper, RN, PhD, FAAN, Shannon Ruff Dirksen, RN, PhD, 2013-12-02 Over the past three decades more and more nursing educators have turned to *Lewis Medical Surgical Nursing* for its accurate and up to date coverage of the latest trends hot topics and clinical developments in the field of medical surgical nursing and the new ninth edition is no exception Written by a dedicated team of expert authors led by Sharon Lewis *Medical Surgical Nursing 9th Edition* offers the same easy to read style that students have come to love along with the timely and thoroughly accurate content that educators have come to trust Completely revised and updated content explores patient care in various clinical settings and focuses on key topics such as prioritization critical thinking patient safety and NCLEX exam preparation Best of all a complete collection of interactive student resources

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High-Yield Q&A Review for USMLE Step 1: Biochemistry and Genetics Michael W. King, 2022-11-18 Essential for USMLE Step 1 review A rigorous full color review for any biochemistry or medical biochemistry examination This full color review offers a fast and effective way for you to prepare for regular course examinations in biochemistry and medical biochemistry as well as medical board exams and the USMLE Step 1 A unique feature of this review is the integration of medical biochemistry with physiology pathophysiology pathology and anatomy making it perfect for today s rapidly changing medical school curriculum Important related topics such as carbohydrate lipid protein metabolism and associated disease pathologies are incorporated into a concise focused review of biochemistry High Yield Q A Review for USMLE Step 1 is packed with learning aids 1 100 multiple choice questions and thorough explanations for each answer 350 full color illustrations Detailed clinical boxes with high yield information concerning diseases and disorders related to defects in the pathways being discussed Every chapter includes An outline listing the major topics covered A list of high yield terms related to the content Numerous explanatory figures and tables designed to increase your understanding of must know material A checklist that recaps important and high yield concepts

Prentice Hall

Exploring Life Science Anthea Maton,1997

An Introduction to Genetic Analysis Anthony J.F. Griffiths,2015-01-12

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Review of Medical Microbiology and Immunology, Twelfth Edition Warren Levinson,2012-06-06 The most concise easy to use and frequently updated review of the medically important aspects microbiology and immunology Essential for USMLE and medical microbiology course exam preparation Review of Medical Microbiology 12e provides a high yield review of the basic and clinical aspects of bacteriology virology mycology parasitology and immunology The book emphasizes the real world clinical application of microbiology and immunology to infectious diseases and offers a unique mix of narrative text color images tables and figures Q A and clinical cases Everything you need to put your USMLE and course exam preparation on the fast track 654 USMLE style practice questions test your knowledge and understanding 50 clinical cases illustrate the importance of basic science information in clinical diagnosis A complete USMLE style practice exam consisting of 80 questions Pearls for the USMLE impart important basic science information helpful in answering questions on the USMLE Self assessment questions with answers appear at the end of each chapter 50 color images show classic clinical lesions to aid in the diagnosis of infectious diseases 18 color images depict the life cycles of important protozoa and worms Concise summaries of medically important microorganisms are presented together in a separate to facilitate comparison of organisms Numerous tables and figures encapsulate important information

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the end of each chapter 50 color images show classic clinical lesions to aid in the diagnosis of infectious diseases 18 color images depict the life cycles of important protozoa and worms Concise summaries of medically important microorganisms are presented together in a separate to facilitate comparison of organisms Numerous tables and figures encapsulate important information *Katzung & Trevor's Pharmacology Examination and Board Review, 12th Edition* Anthony J. Trevor, Bertram G. Katzung, Marieke Knudering-Hall, 2018-10-19 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product SCORE YOUR HIGHEST ON MEDICAL PHARMACOLOGY COURSE AND BOARD EXAMS WITH THE WORLD'S BESTSELLING PHARMACOLOGY REVIEW BOOK From the authors of the field's most trusted textbook Katzung Trevor's Basic Clinical Pharmacology this full color resource delivers a clear concise review of fundamental concepts backed by more than 800 questions and answers The chapter based approach facilitates use with course notes or larger texts EVERYTHING YOU NEED TO EXCEL Concise discussion of the major concepts that underlie basic principles or specific drug groups in every chapter Full color tables and figures many new to this edition Review questions followed by answers and explanations Two comprehensive 100 question practice exams followed by answer keys and explanations for correct answers Diagrams that visually organize drug groups and concepts A list of high yield terms and definitions you must know Skill Keeper Questions that prompt you to go back and review previous material to understand the link between topics A checklist of tasks you should be able to perform upon completion of the chapter Summary Tables that list the important drugs and include key information about their mechanism of action and effects clinical uses pharmacokinetics drug interactions and toxicities An Appendix of test taking strategies for the highest score possible **Psychology** Carole Wade, 1997-09 **Science Insights**, 1999 *Principles of Genetics* D. Peter Snustad, Michael J. Simmons, John B. Jenkins, 1997-02-05 One of the fundamentals behind this text is that genetics is not a static body of knowledge Historical and contemporary examples are therefore used throughout and concepts are presented in an evolutionary context whenever possible

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