

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 Section Review 14 3

Answers

**Mark Eisenberg,Jonathan
Afilalo,Jacqueline Joza,Ravi
Karra,Patrick Lawler**

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Fundamentals of Molecular Diagnostics David E. Bruns, Edward R. Ashwood, Carl A. Burtis, 2007-05-25 This book offers an introduction to the newest fastest growing field in laboratory science Explaining and clarifying the molecular techniques used in diagnostic testing this text provides both entry level and advanced information It covers the principles of molecular biology along with genomes and nucleic acid alterations techniques and instrumentation and applications of molecular diagnostics Written by leading experts including Patrick Bossuyt Angela Caliendo Rossa W K Chiu Kojo S J Elenitoba Johnson Andrea Ferreira Gonzalez Amy Groszback Sultan Habeebu Doris Haverstick Malek Kamoun Anthony Killeen Noriko Kusukawa Y M Dennis Lo Elaine Lyon Gwendolyn McMillin Christopher Price James Versalovic Cindy Vnencak Jones Victor Weedn Peter Wilding Thomas Williams and Carl Wittwer this book includes illustrations tables and a colorful design to make information easy to find and easy to use A full color 4 page insert shows realistic images of the output for many molecular tests Learning Objectives open each chapter with an overview of what you should achieve Key Words are listed and defined at the beginning of each chapter and are bolded in the text Review Questions at the end of every chapter let you measure your comprehension Advanced Concepts are included but set apart from the rest of the text for students who want a higher level of learning Ethics boxes address ethical issues allowing you to apply your knowledge to real life scenarios A glossary of all key words may be easily accessed in the back of the book

Lewis's Medical-Surgical Nursing 6th Australia and New Zealand Edition Diane Brown, Thomas Buckley, Robyn Aitken, Helen Edwards, 2023-11-28 Lewis's Medical Surgical Nursing has long been considered a comprehensive and reliable resource for nursing students preparing for their transition into clinical practice This sixth edition has been fully updated to incorporate the latest research data current clinical practice procedures and guidelines The text addresses core skills and knowledge that students need to pass their exams and go on to provide expert clinical care It prepares nurses to assess patients understand underlying diseases and their signs and symptoms and go on to plan and deliver care The text encourages readers to develop their clinical reasoning and problem solving skills in order to apply theory to their work This edition has been produced by leading expert nursing academics and clinicians who bring a strengthened focus on inclusion and diversity Provides a person centred holistic approach to patient assessment and care Complex concepts are illustrated with figures tables summaries and reflections of best practice Case studies throughout based on real life medical surgical scenarios help students to apply theory to real life Clinical practice features offer practical guidance for students Underpinned by the nursing process framework Instructor resources on Evolve Image collection PowerPoint slides Student and Instructor resources on Evolve Answer guidelines for clinical reasoning questions in case studies Student case studies Fluids and electrolytes tutorial eNursing Care Plans Clinical Cases Case Study Review questions and answers with answer rationale Conceptual Care Map Create Refreshed and up to date evidence statistics standards and procedures Updated chapters on the deteriorating patient and advanced life support

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Review of Medical Microbiology and Immunology 14E Warren E. Levinson, 2016-04-22

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Genetics John B. Jenkins, 1979

Cardiology Board Review and Self-Assessment: A Companion Guide to Hurst's the Heart Mark Eisenberg, Jonathan Afilalo, Jacqueline Joza, Ravi Karra, Patrick Lawler, 2018-08-22

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Principles of Cell Biology George Plopper, Diana Bebek Ivankovic, 2020-02-03 Principles of Cell Biology Third Edition is an educational eye opening text with an emphasis on how evolution shapes organisms on the cellular level Students will learn the material through 14 comprehensible principles which give context to the underlying theme that make the details fit together

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Fundamental Molecular Biology Lizabeth A. Allison, 2021-07-07 Fundamental Molecular Biology Discover a focused and up to date exploration of foundational and core concepts in molecular biology The newly revised Third Edition of Fundamental Molecular Biology delivers a selective and precise treatment of essential topics in molecular biology perfect for allowing students to develop an accurate understanding of the applications of the field The book applies the process of discovery observations questions experimental designs results and conclusions with an emphasis on the language of molecular biology Readers will easily focus on the key ideas they need to succeed in any introductory molecular biology course Fundamental Molecular Biology provides students with the most up to date techniques and research used by molecular biologists today Readers of the book will have the support and resources they need to develop a concrete understanding of core and foundational concepts of molecular biology without being distracted by outdated or peripheral material Readers will also benefit from the inclusion of

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depict fungi protozoa and worms Chapters on infectious diseases from an organ system perspective **Psychology** Philip G. Zimbardo, Ann L. Weber, 1997 Psychology Third Edition builds upon the experience and reputations of Phil Zimbardo and Ann Weber with the addition of a new co author Bob Johnson who has a wealth of teaching experience at the community college level This briefer less expensive book presents psychology in a meaningful manageable format that focuses on the key questions and core concepts of psychology Introductory psychology covers such a wide range of topics and issues that it becomes difficult for readers to see the forest for the trees To make key psychological concepts more meaningful the authors found inspiration in a classic chess study This study showed that experts did no better than novices at remembering the location of pieces on a chess board when they were placed randomly Only when the patterns represented actual game situations did they make sense and therefore become more easily memorable for the experts Clearly meaningful patterns are easier to remember and understand than random arrangements and Psychology applies this by presenting the field of psychology in meaningful patterns to enhance comprehension These concepts are then applied to readers own lives study skills and the world around them Finally Psychology integrates a cross cultural and multicultural perspective to make psychology meaningful for everyone For anyone interested in Introductory Psychology *Holt People, Places, and Change* Robert J. Sager, 2003 Concepts in Biology Eldon D. Enger, Enger, Frederick C. Ross, 1997 Concepts in Biology is a short student friendly text organized in a traditional manner It has very little botany and presents a human oriented approach to the animal unit Professors and students appreciate the low cost of this title and that it is written for students who are not biology majors **Levinson's Review of Medical Microbiology and Immunology: A Guide to Clinical Infectious Disease, Eighteenth Edition** Peter Chin-Hong, Elizabeth A. Joyce, Manjiree Karandikar, Mehrdad Matloubian, Luis Alberto Rubio, Brian S. Schwartz, Warren E. Levinson, 2024-02-16 Ace your medical courses and pass the Boards with the most up to date review of medical microbiology and immunology This trusted popular guide provides a high yield review of the most important aspects of microbiology and immunology in a concise yet comprehensive style Levinson s Review of Medical Microbiology and Immunology covers both basic and clinical aspects of bacteriology virology mycology parasitology and immunology Important infectious diseases are discussed using an organ system approach The effective mix of engaging narrative text color images tables figures Q As and clinical vignettes make this an invaluable proven one stop guide to mastering the application of microbiology and immunology to infectious diseases This updated edition reflects the latest research treatment and developments new cases and more Content is valuable to any study objective or learning style Essential for USMLE review and medical microbiology coursework 650 USMLE style practice questions NEW additional clinical cases illustrate the importance of basic science information in clinical diagnosis Concise summaries of medically important organisms Chapter ending self assessment questions and answers REVISED color images that depict clinically important findings **Oregon Administrative Rules** , 1998

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Table of Contents Chapter 14 The Human Genome Section Review 14 3 Answers

1. Understanding the eBook Chapter 14 The Human Genome Section Review 14 3 Answers
 - The Rise of Digital Reading Chapter 14 The Human Genome Section Review 14 3 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 14 The Human Genome Section Review 14 3 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 14 The Human Genome Section Review 14 3 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 14 The Human Genome Section Review 14 3 Answers
 - Personalized Recommendations
 - Chapter 14 The Human Genome Section Review 14 3 Answers User Reviews and Ratings
 - Chapter 14 The Human Genome Section Review 14 3 Answers and Bestseller Lists
5. Accessing Chapter 14 The Human Genome Section Review 14 3 Answers Free and Paid eBooks
 - Chapter 14 The Human Genome Section Review 14 3 Answers Public Domain eBooks
 - Chapter 14 The Human Genome Section Review 14 3 Answers eBook Subscription Services
 - Chapter 14 The Human Genome Section Review 14 3 Answers Budget-Friendly Options

6. Navigating Chapter 14 The Human Genome Section Review 14 3 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 14 The Human Genome Section Review 14 3 Answers Compatibility with Devices
 - Chapter 14 The Human Genome Section Review 14 3 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 14 The Human Genome Section Review 14 3 Answers
 - Highlighting and Note-Taking Chapter 14 The Human Genome Section Review 14 3 Answers
 - Interactive Elements Chapter 14 The Human Genome Section Review 14 3 Answers
8. Staying Engaged with Chapter 14 The Human Genome Section Review 14 3 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 14 The Human Genome Section Review 14 3 Answers
9. Balancing eBooks and Physical Books Chapter 14 The Human Genome Section Review 14 3 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 14 The Human Genome Section Review 14 3 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 14 The Human Genome Section Review 14 3 Answers
 - Setting Reading Goals Chapter 14 The Human Genome Section Review 14 3 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 14 The Human Genome Section Review 14 3 Answers
 - Fact-Checking eBook Content of Chapter 14 The Human Genome Section Review 14 3 Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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