

## 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 Human Genome Answer Key

**Sebastian Brünink**



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**Introduction to Genetics: A Molecular Approach** T A Brown, 2012-03-22 Introduction to Genetics A Molecular Approach is a new textbook for first and second year undergraduates It first presents molecular structures and mechanisms before introducing the more challenging concepts and terminology associated with transmission genetics *Introduction to Genetics* Terry A. Brown, 2025-02-18 Nowadays genetics focuses on DNA Just like the first edition the theme of this new edition Introduction to Genetics A Molecular Approach is therefore the progression from molecules DNA and genes to processes gene expression and DNA replication to systems cells organisms and populations This progression reflects both the basic logic of life and the way in which modern biological research is structured The molecular approach is particularly suitable for students for whom genetics is part of a broader program in biology biochemistry the biomedical sciences or biotechnology This book presents the basic facts and concepts with enough depth of knowledge to stimulate students to move on to more advanced aspects of the subject This second edition has been thoroughly updated to cover new discoveries and developments in genetics from the last ten years There are new chapters that introduce important techniques such as DNA sequencing and gene editing and the applications of genetics in our modern world are covered in chapters describing topics as diverse as gene therapy and the use of ancient DNA to study prehistoric ecosystems Key Features This book provides a molecular approach to the study of genetics It is a highly accessible and well structured book with chapters organized into four parts to aid navigation It presents high quality illustrations to elucidate the various concepts and mechanisms Each chapter ends with a Key Concepts section which serves to summarize the most essential points Self study questions enable the reader to assess their comprehension of chapter content and discussion topics facilitate a deeper understanding of the material by encouraging conversation and critical evaluation Key terms are emboldened throughout the text and are listed at the end of each chapter and definitions can be found in the Glossary For instructors who adopt the book an affiliated question bank is free to download

**Immunology & Serology in Laboratory Medicine** Mary Louise Turgeon, 2013-02-15 The 5th edition of this classic text sets the standard for comprehensive coverage of immunology Building from a solid foundation of knowledge and skills trusted author Mary Louise Turgeon takes you from basic immunologic mechanisms and serologic concepts to the theory behind the procedures you ll perform in the lab Immunology Serology in Laboratory Medicine Fifth Edition is the go to resource for everything from mastering automated techniques to understanding immunoassay instrumentation and disorders of infectious and immunologic origin Packed with learning objectives review questions step by step procedures and case studies this text is your key to succeeding in today s modern laboratory environment Full color six page insert of photomicrographs provide a better picture of what you ll see in the laboratory Learning objectives at the beginning of each chapter offer a measurable outcome you can achieve by completing the material Chapter highlights at the end of each chapter provide a summary of the most important information covered in each chapter Review questions at the

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**General Studies Paper 1 & 2 IAS Prelims 9 Year-wise Solved Papers (2019 - 11)** Disha Experts,2019-09-02

**DNA and Biotechnology** Molly Fitzgerald-Hayes,Frieda Reichsman,2009-09-08 Appropriate for a wide range of disciplines from biology to non biology law and nursing majors DNA and Biotechnology uses a straightforward and comprehensive writing style that gives the educated layperson a survey of DNA by presenting a brief history of genetics a clear outline of techniques that are in use and highlights of breakthroughs in hot topic scientific discoveries Engaging and straightforward scientific writing style Comprehensive forensics chapter Parallel Pedagogic material designed to help both readers and teachers Highlights in the latest scientific discoveries Outstanding full color illustration that walk reader through complex concepts

**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

**Chapter Resource 11 Gene Technology**  
**Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **UPSC IAS Prelims Paper 1 & 2 General Studies 10 Year-wise Solved Papers (2020 - 11) 2nd Edition** Disha Experts, **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 **Holt Biology** Rob DeSalle,Holt Rinehart and Winston,2008 Holt Biology Student Edition 2008 **Biology: How Life Works (Volume 1)** James Morris,2013-01-04 Ordinarily textbooks are developed by first writing chapters then making decisions about art and images and finally once the book is complete assembling a test bank and ancillary media This process dramatically limits the integration across resources and reduces art media and assessments to ancillary material rather than essential resources for student learning Biology How Life Works is the first project to develop three pillars the text the visual program and the assessment at the same time All three pillars were developed in parallel to make sure that each idea is addressed in the most appropriate medium and to ensure authentic integration These three pillars are all tied to the same set of core concepts share a common language and use the same visual palette In this way the text visual program and assessments are integral parts of student learning rather than just accessories to the text **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

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**Medical Genetics** Lynn B. Jorde,2006 Medical Genetics offers up to date information on modern genetics This comprehensive study includes the latest findings from genetic research and how that knowledge can be used in clinical practice **Biology** Burton S. Guttman,Johns W. Hopkins,1999 This fresh new approach to general biology integrates new research in genetics ecology evolution and molecular biology through four unifying conceptual themes Concepts are covered when appropriate in sufficient but not overwhelming detail The process of scientific discovery is emphasized and active learning is promoted through problem solving exercises in every chapter **Human Condition Telecourse Study Guide** Intelecom,Wendy Schiff,2000-08 *Human Heredity* Michael R. Cummings,Nancy Shontz,1997 This introduction to human heredity genetics for the non science major requires no previous exposure to biology chemistry or mathematics It covers the latest research and technological advances in human genetics and the implications of this knowledge on the human condition social cultural and ethical Now full color throughout the Fourth Edition includes significant content revision and features chapter opening prologues more clinical material woven throughout the text and less technical jargon Short case studies and Internet activities end many chapters and end of chapter exercise sets are new

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