

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 3 The Human Genome Project Answer Key

Jacquelyn G. Black



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New Career Profiles written by biotech professionals highlight potential jobs in the biotech industry The chapter on biotechnology regulations has been revised to include regulations involving international bodies *Exploring the Invisible* Lynn Gamwell,2020-03-17 How science changed the way artists understand reality Exploring the Invisible shows how modern art expresses the first secular scientific worldview in human history Now fully revised and expanded this richly illustrated book describes two hundred years of scientific discoveries that inspired French Impressionist painters and Art Nouveau architects as well as Surrealists in Europe Latin America and Japan Lynn Gamwell describes how the microscope and telescope expanded the artist s vision into realms unseen by the naked eye In the nineteenth century a strange and exciting world came into focus one of microorganisms in a drop of water and spiral nebulas in the night sky The world is also filled with forces that are truly unobservable known only indirectly by their effects radio waves X rays and sound waves Gamwell shows how artists developed the pivotal style of modernism abstract non objective art to symbolize these unseen worlds Starting in Germany with Romanticism and ending with international contemporary art she traces the development of the visual arts as an expression of the scientific worldview in which humankind is part of a natural web of dynamic forces without predetermined purpose or meaning Gamwell reveals how artists give nature meaning by portraying it as mysterious dangerous or beautiful With a foreword by Neil deGrasse Tyson and a wealth of stunning images this expanded edition of Exploring the Invisible draws on the latest scholarship to provide a global perspective on the scientists and artists who explore life on Earth human consciousness and the space time universe Study Guide for Maternity & Women's Health Care E-Book Deitra Leonard Lowdermilk,Kitty Cashion,Kathryn Rhodes Alden,Shannon E. Perry,2019-08-06 NEW Chapter organization and content updated and revised to match changes to main text **Irm-Soc** Brym,Lie,2004-03 *Holt Biology: Principles and Explorations* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1997-03 Essentials of Genomic and Personalized Medicine Geoffrey S. Ginsburg,Huntington F Willard,2009-10-02 Derived from the comprehensive two volume set Genomic and Personalized Medicine also edited by Drs Willard and Ginsburg this work serves the needs of the evolving population of scientists researchers practitioners and students that are embracing one of the most promising avenues for advances in diagnosis prevention and treatment of human disease From principles methodology and translational approaches to genome discoveries and clinical applications Essentials of Genomic and Personalized Medicine will be a valuable resource for various professionals and students across medical disciplines including human genetics and genomics oncology neuroscience gene therapy molecular medicine pharmacology and biomedical sciences Updates with regard to diagnostic testing pharmacogenetics predicting disease susceptibility and other important research components as well as chapters dedicated to cardiovascular disease oncology inflammatory disease metabolic disease neuropsychiatric disease and infectious disease present this book as an essential tool for a variety of professionals and students who are endeavouring into the developing the diverse and practical field of genomic and personalized medicine Full color throughout Includes

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