

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 3

Answers

**Christopher Still, David B.
Sarwer, Jeanne Blankenship**



Chapter 14 The Human Genome Section Review 3 Answers:

Genetics John B. Jenkins, 1979 **Principles of Genetics** D. Peter Snustad, Michael J. Simmons, 2000 The cover shows many facets of genetics Top row Left The DNA double helix here imaged in a scanning tunneling micrograph is central to all genetics research Right Experimentation has shown that some social behaviors such as nest cleaning by honeybees is under genetic control Second row Left Inherited disorders such as albinism manifested here in a bullfrog have provided many insights about the genetic control of metabolism Right Gregor Mendel's 19th century work with pea plants elucidated the basic principles of inheritance Third row Left Efforts to combat HIV the virus that causes AIDS depend on knowing how the virus expresses its genes inside the cells of the immune system Right The fruit fly is ideally suited for studies on the genetic control of embryonic development and organ formation Fourth row Left The identification of mutations that cause unregulated cell division facilitates the diagnosis treatment and prevention of breast cancer Right HeLa cells derived in 1951 from Henrietta Lacks a woman who died of cervical cancer thrive in the laboratory and are used in research worldwide Bottom row The replication of chromosomes left is a prerequisite for cell division right *The ASMBS Textbook of Bariatric Surgery* Christopher Still, David B. Sarwer, Jeanne Blankenship, 2014-09-17 Developed by the American Society for Metabolic and Bariatric Surgery ASMBS The ASMBS Textbook of Bariatric Surgery provides a comprehensive guide of information dealing with the ever evolving field of bariatric surgery Volume II Integrated Health is divided into 3 sections bariatric medicine psychosocial and nutritional aspects of bariatric surgery The first section deals with the psychosocial issues associated with morbid obesity The second section deals with the role of bariatric physicians in preoperative and postoperative support of the bariatric patients The nutritional section discusses the preoperative and postoperative nutritional support for the bariatric patient The ASMBS Textbook of Bariatric Surgery will be of great value to surgeons residents and fellows bariatric physicians psychologists psychiatrists and integrated health members that manage the morbidly obese **Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information *Principles of Cell*

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