

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.

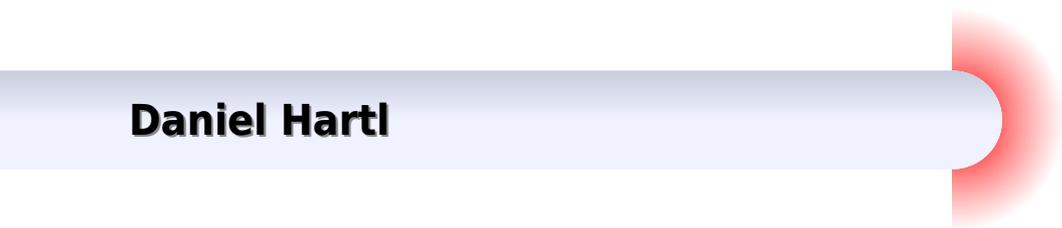
- ▶ **Restriction enzymes** cut DNA into smaller pieces, called restriction fragments, which are several hundred bases in length. Each restriction enzyme cuts DNA at a different sequence of bases.
- ▶ **Gel electrophoresis** separates different-sized DNA fragments by placing them at one end of a porous 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 1 Traits Answer Key

Daniel Hartl



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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 **Study Guide for Psychology, Seventh Edition** Richard O. Straub, David G. Myers, 2003-06-20 This new edition continues the story of psychology with added research and enhanced content from the most dynamic areas of the field cognition gender and diversity studies neuroscience and more while at the same time using the most effective teaching approaches and learning tools **Learning about Psychology** Michael W. Passer, Ronald Edward Smith, 1993 Retinal Pharmacotherapy E-Book Quan Dong Nguyen, Eduardo Buchele Rodrigues, Michel Eid Farah, William F. Mieler, 2010-02-26 Retinal Pharmacotherapy is the first comprehensive book devoted to pharmacologic agents and their rationale and mechanisms of action in selected retinal and uveitic diseases Drs Quan Dong Nguyen Eduardo Buchele Rodrigues Michel Eid Farah and William F Mieler lead an international team of expert contributors to present up to date knowledge of new drugs on the market the science behind the drugs evidence of how the drugs work and the reasons why they are effective or not This user friendly all in one reference provides you with easy access to practical information on the effective and appropriate use of pharmacologic agents in the management of retinal diseases Covers all new and existing retinal drugs to keep you current in this expanding area of the treatment of retinal diseases Discusses the background behind retinal drugs and the various pathways of how they work so you can make thoroughly informed clinical decisions Presents 400 color photographs and line drawings that illustrate disease appearance before and after treatment and clarify difficult key concepts Features contributors from Europe North America South America the Middle East Asia and Australia for an international approach Identifies and emphasizes key points clearly in each chapter to improve comprehension and make finding information easier **Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human Biology, Third Edition** Jane B. Taylor, John D. Jackson, 1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions *Prentice Hall Exploring Life Science* Anthea Maton, 1997 **Psychology: Themes and Variations** Wayne Weiten, 2006 **Fundamentals of Molecular Diagnostics** David E. Bruns, Edward R. Ashwood, Carl A. Burtis, 2007-05-25 This book

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