

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 Answer Key

Patrick Vollmar



Chapter 14 The Human Genome Section 1 Answer Key:

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Chapter 14 The Human Genome Section 1 Answer Key**

In some sort of inundated with monitors and the cacophony of immediate communication, the profound power and psychological resonance of verbal art often disappear into obscurity, eclipsed by the constant onslaught of sound and distractions. However, situated within the lyrical pages of **Chapter 14 The Human Genome Section 1 Answer Key**, a interesting work of fictional elegance that impulses with organic thoughts, lies an unforgettable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this exciting opus manuals viewers on a psychological odyssey, lightly exposing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect their captivating writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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