# 14-3 Human Molecular Genetics

Watson and Crick took the first step in making genetics a molecular science when they discovered the double-helical structure of DNA in 1953. Today, the transformation they started is complete. The exploration of human genes is now a major scientific undertaking. Biologists can now read, analyze, and even change the molecular code of genes.

#### **Human DNA Analysis**

The roughly 6 billion base pairs you carry in your DNA are a bit like an encyclopedia with thousands of volumes. In principle, biologists would like to know everything the volumes contain, but as a practical matter there isn't enough time to read all of them. Nonetheless, if you've used an encyclopedia you've already learned one of the ways to handle huge amounts of information—you find a way to look up only what you need. In an encyclopedia, you can use an index or an alphabetical list of articles. As you might suspect, biologists search the volumes of the human genome using sequences of DNA bases.

Testing for Alleies If two prospective parents suspect they might be carrying recessive alleles for a genetic disorder such as cystic fibrosis (CF) or Tay-Sachs disease, how could they find out for sure? Because the Tay-Sachs and CF affeles have slightly different DNA sequences from their normal counterparts, a variety of genetic tests have been developed that can soot those differences. Sometimes these genetic tests use labeled DNA probes. These are specific DNA base sequences that detect the complementary base sequences found in disease-causing alleles. Other tests search for changes in restriction enzyme cutting sites. Tests also detect differences between the lengths of normal and abnormal affelies.

Genetic tests are now available for hundreds of disorders, making it possible to determine whether prospective parents risk passing such alleles to their children. In an increasing number of such cases. DNA testing can pinpoint the exact genetic basis of a disorder. making it possible to develop more effective treatment for individuals affected by genetic disease.

Figure 14-17 This laboratory worker is preparing a report on DNA evidence. The inset shows vials of DNA lying on a printend of a DNA analysis chart.

#### Guide for Reading



#### May Concepts

- . What is the goal of the Human Corrognee Project?
- What is gone therapy?

# DINA Singerprinting

Reading Strategy: Finding Main Ideas Acyon read, find evidence to support. the following statement: The influence of human molecular. genetics on society is growing suppositly.





#### SECTION RESOURCES

- . Teaching Resources, Section Review 14-3, Chapter 14 Real-World Lab
- . Reading and Study Workbook A. Section 14-3.
- Adapted Reading and Study Workbook B. Section 14-3.
- · Issues and Decision Making, Issues and Decisions 9, 10, 11, 12
- . Biotechnology Manual, Labs 2, 11, 12; Concepts 2, 3, 4, 6

#### Legion Plans, Section 14-3.

#### Technology:

- Ffext, Section 14-3.
- Animated Biological Concepts Videotope Library, 30
- Transparencies Plus, Section 14–3.

#### Section 14-3

#### 1 FOCUS\_

#### Objectives

- 14.3.1 Summarize mothods of human DNA analysis.
- 14.3.2 State the goal of the Human Genome Project.
- 14.3.3 Describe how researchers are attempting to cure genetic disorders.

#### Guide for Reading

#### Vocabulary Preview

levite student volunteers to describe what a fingerprint is and what it is used for. Then, challenge them tomake inferences about what DNA fingerprinting is. List the inferences on the board, and narrow them down to two or three. Revisit this list throughout the section, if necessary, until the class correctly defines the term.

#### Reading Strategy

Instruct students to write the statement from the text onto a sheet of paper. As they read, students should list under the statement the evidence that supports it.

#### 2 INSTRUCT

# **Human DNA Analysis**

#### Build Science Skills

Designing Experiments Challenge students to write the steps in a protocol in which they test for the allele of a gene that causes a genetic disorder using restriction enzymes and gelelectrophoresis. Students who need an extra challenge can list the steps. to testing for alleles using a labeled DNA probe. Encourage students to use what they learned in Chapter 13. They might also wish to use the Internet to find additional resources.

# **Answers For 14 3 Human Molecular Genetics**

**KJ Lindholm-Leary** 

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