

Animals, Science and Society

Chapter 10 **Biotechnology**



Learning Objectives

After studying this chapter, you should be able to:

- define *biotechnology* and explain how genetic engineering is a part of biotechnology.
- describe the recombinant DNA technology.
- describe current and future uses of genetic engineering as it applies to livestock production.
- identify some of society's concerns about genetic engineering.

Introduction

- ✓ **Biotechnology** is the development of products by a biological process.
- ✓ A variety of biological processes are used, ranging from traditional fermentation using yeast to modern **transgenic** mammals.
 - *transgenic* means contains genes of two different organisms
- ✓ The products of biotechnology may be used in disease research, food production, waste management, or a myriad of other areas of need.