

Animals, Science and Society

Chapters 8 and 9: Genetics and Animal Breeding



Learning Objectives

- explain the role that genetics plays in animal production.
- describe the location of genes within a cell.
- explain the process of cellular division that ultimately produces cells containing only half of the genetic information.
- describe how variation in traits is passed from parent to offspring.

Learning Objectives

- define *heritability*
- explain how to use EPDs in beef cattle breeding
- describe the DHI system and explain its use in dairy cattle selection
- list the ways in which swine genetic improvement is similar to and different from the other major species
- describe the general principles of animal breeding as it applies to sheep