

## Human Inheritance Patterns

### Objectives

- Explain the role of sex chromosomes in sex determination
- Describe how sex linkage affects the inheritance of traits
- Explain the inheritance of ABO blood groups
- Show how pedigree analysis can be used to illustrate the inheritance of traits

### Sex Determination

- In mammals and most insects:

- \_\_\_\_\_
- \_\_\_\_\_

- Gametes produced by males can be X or Y, while gametes produced by females are always X

### Sex Linkage

- \_\_\_\_\_
- Genes found on the X chromosome are called X-linked genes
- Genes found on the Y chromosome are called Y-linked chromosomes

### Pedigree Analysis

- \_\_\_\_\_
- \_\_\_\_\_
- Squares represent males
- Circles represent females
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

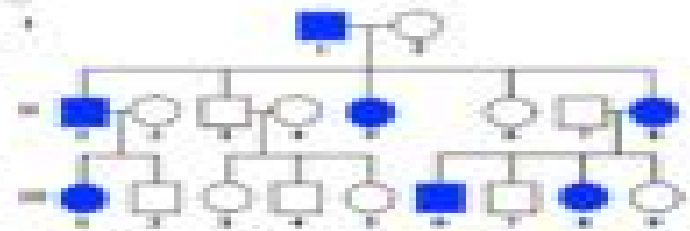
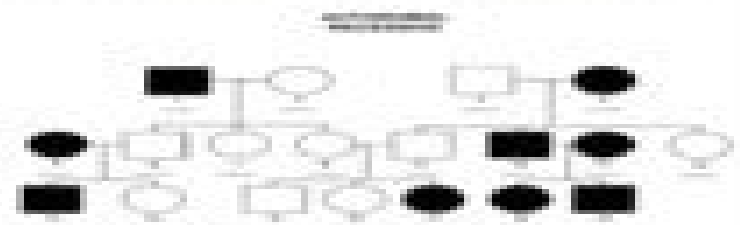


Figure 1: Pedigree chart showing a family with a trait that is inherited as an autosomal recessive trait.

### Autosomal Recessive Pedigree

- This pedigree shows a trait that is inherited as an autosomal recessive trait:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



# Human Inheritance Guided And Study Answers

**JA Banks**



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