

14.1 Human Chromosomes

Lesson Objectives

- Identify the types of human chromosomes in a karyotype.
- Describe the patterns of the inheritance of human traits.
- Explain how pedigrees are used to study human traits.

Lesson Summary

Karyotypes A genome is the full set of all the genetic information that an organism carries in its DNA. Chromosomes are bundles of DNA and protein found in the nucleus of a eukaryotic cell. A karyotype is a picture that shows the complete diploid set of human chromosomes, grouped in pairs and arranged in order of decreasing size. A typical human diploid cell contains 46 chromosomes, or 23 pairs:

- ▶ Two of the 46 are the sex chromosomes that determine an individual's sex: XX = female and XY = male. The X chromosome carries nearly 10 times the number of genes as the Y chromosome.
- ▶ The other 44 are autosomes, or autosomal chromosomes.

Transmission of Human Traits Human genes follow the same Mendelian patterns of inheritance as the genes of other organisms:

- ▶ Many human traits follow a pattern of simple dominance.
- ▶ The alleles for many human genes display codominant inheritance.
- ▶ Many human genes, including the genes for blood group, have multiple alleles.
- ▶ A gene located on a sex chromosome is a sex-linked gene. The genes on sex chromosomes show a sex-linked pattern of inheritance, since females have two copies of many genes (located on X chromosomes) while males have just one.
- ▶ In females, most of the genes in one of the X chromosomes are inactivated in each cell.

Human Pedigrees A chart used to analyze the pattern of inheritance that shows the relationships in a family is a pedigree. Pedigrees can be used to determine the nature of genes and alleles associated with inherited human traits.

Karyotypes

1. **THINK VISUALLY** Make a sketch of a human karyotype. Number the chromosome pairs. Label autosomes and sex chromosomes.

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