

14 Human Heredity



Information and Heredity

Q: How can we use genetics to study human inheritance?

14.1 How does studying the human genome help us to draw conclusions about the inheritance of traits?

WHAT I KNOW

Current science: Humans inherit their traits from their parents. They have genes made of DNA just as other organisms do.

WHAT I LEARNED

Current science: Inheritance in humans may follow a simple dominance pattern, or it may involve codominance of multiple alleles. Some traits are sex-linked. Pedigrees reveal patterns of inheritance.

14.2 What causes some human genetic disorders?

Current science: Mutations can cause changes in genes that lead to human disorders. Mutations can occur in single genes or in entire chromosomes.

Current science: A mutation in human DNA may change a protein by altering an amino acid sequence. That change can affect an individual's phenotype. So, can nondisjunction, which may lead to a chromosomal disorder.

14.3 How do we study the human genome and what have we learned so far?

Current science: Humans have many genes on their 46 chromosomes.

Current science: Tools that can isolate, separate, and replicate DNA allow researchers to read the base sequences in human DNA. That technology has made possible the Human Genome Project, which has identified the base pairs in all human genes.

Human Heredity Answer Key

Judd E. Hollander



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