

Biology Chapter 14 *The Human Genome*

14.1 Human Heredity

I. Human Chromosomes

A. Looking at chromosomes

1. During mitosis, scientists look at chromosomes; photo; cut; paste in pairs
 - a. called karyotype (Fig 14-1; pg 341)
 - b. 23 pairs; 46 total
2. 2 Chromosomes are known as sex chromosomes
 - a. they determine an individual's sex
 - b. females = XX (larger)
 - c. males = XY (large, small)
3. Other 44 chromosomes are called autosomes
4. To quickly summarize total # of chromosomes in a human cell, scientists write 46XX (female) or 46XY (male)
5. Punnett Square explains why there is a 50:50 ratio of males:females (Fig 14-2; pg 342)

II. Human Traits

A. Human traits are not always controlled by a single gene; sometimes the environment may "create" a trait

1. Pedigree (Fig 14-3; pg 242)
 - a. chart that shows the relationships within a family
2. Example shows how a trait is transmitted through three generations
 - a. females who have one allele for the trait are only carriers; males who have only one express the trait
 - b. female carrier marries male who doesn't carry the trait
 - c. they have four children:
 - i. female carrier, female non-carrier, male w/trait, male w/o
 - d. female carrier marries male w/o trait; have 3 children
 - i. male w/trait; male w/o; female non-carrier
3. Polygenic
 - a. traits that are controlled by many genes
4. Nature v. Nurture
 - a. genotype is only partly responsible for phenotype
 - i. environment/nutrition/exercise
 - b. nutrition allowed average heights to increase 10 cm since 1800s

III. Human Genes

A. Blood Group Genes (Fig 14-4; pg 344)

1. Human blood comes in a variety of genetically determined blood types
 - a. a number of genes are responsible for blood type
 - i. best known are ABO blood groups and Rh blood groups
 - b. Rh is determined by a single gene with 2 alleles
 - i. positive and negative
 - ii. Rh = rhesus monkey; animal where it was discovered
 - iii. positive is dominant
 - c. ABO is more complicated; three alleles for this gene

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**Wistar Institute of Anatomy and
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