

THE BASICS OF GENETICS



WHAT IS GENETICS?

Genetics is the study of genes and inheritance. Genetics influences how we look and why certain traits and diseases run in families. The study of genetics allows us to understand how our genes are involved in the development of disease. To understand genetics, you need to know a bit about DNA, genes and chromosomes.

DNA (deoxyribonucleic acid) is a long molecule with a twisting ladder-like structure, called a double helix, that carries the instructions for making the human body. DNA is made of a chain of molecules called bases. There are four types of bases represented by the letters A, T, C and G and the order in which they occur is called the DNA sequence.

Genes are sections of DNA with a unique code (specific base sequence) and most genes contain the instructions to produce proteins in our bodies which carry out specific functions in the cell.



Genes are packaged inside chromosomes, which are found inside the nucleus of our cells.



HUMAN CELLS CONTAIN 46 CHROMOSOMES CONSISTING OF TWO SETS OF 23

We inherit one copy of all genes from each parent, 22 chromosomes called autosomes that are the same in males and females and a single sex chromosome, X or Y. Following fertilization, we end up with 46 chromosomes with two copies of each gene found on autosomes and two sex chromosomes. Females are XX and males are XY.



Sex chromosome X inherited from his mother



Sex chromosome X inherited from her mother

Sex chromosome Y inherited from his father



Sex chromosome X inherited from her father



Inheritance is the passing down of genetic material (DNA) from parent to child and is responsible for some of the traits that make us who we are, like hair color or eye color.

HUMAN GENOME

All the genetic material within our cells makes up the human genome. Each chromosome contains many genes and the human genome is estimated to contain 20,000 to 25,000 genes.



GENETIC VARIATION

Overall, our DNA sequences are very similar. However, there are small differences between the DNA sequences of individual genomes and this is called genetic variation. These variations make us unique.



Genetic variations can be caused by differences in a single base (single nucleotide polymorphisms), a common cause of natural variations in the DNA sequence

OR

by mutations which alter the sequence of larger sections of DNA. Mutations within genes are also known as variants. Variants can lead to changes in genes that affect the production or function of proteins. In turn this can have a negative impact on your body and cause disease.



Basic Genetics

Anthony J.F. Griffiths



Basic Genetics:

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Basic Genetics, 1998-04-13 *Basic Genetics* Daniel L. Hartl, David Freifelder, Leon A. Snyder, 1988 **Aquacultural Genetics and Breeding**, 1988 *Basic Genetics* Gurbachan S. Miglani, 2000 An exploration of basic genetics. It features discussion of cell division and its significance, chromosomes, multiple alleles, gene-gene interactions, genetic analysis in diploid and haploid eukaryotes, mutations, quantitative inheritance, sex determination and genetic engineering.

Basic Genetics Robert Franklin Weaver, Philip W. Hedrick, 1991 *An Introduction to Genetic Analysis* Anthony J.F. Griffiths, 2015-01-12 With each edition *An Introduction to Genetic Analysis* IGA evolves discovery by discovery with the world of genetic research, taking students from the foundations of Mendelian genetics to the latest findings and applications by focusing on the landmark experiments that define the field. With its author team of prominent scientists who are also highly accomplished educators, IGA again combines exceptional currency, expansive updating of its acclaimed problem sets, and a variety of new ways to learn genetics.

Learning Basic Genetics with Interactive Computer Programs Charles C. Tseng, Xiaoli Yang, 2014-07-08 Traditionally, genetics laboratory exercises at the university level focus on mono and dihybrid crosses and phenotypic analysis exercises under traditional time, materials, and process constraints. Lately, molecular techniques such as gene cloning, polymerase chain reactions (PCR), and bioinformatics are being included in many teaching laboratories where affordable. Human chromosome analysis, when present at all, has often been restricted to simple identification of chromosomes by number through the usual cut and paste method. Although several online karyotyping chromosome identification programs have become available, they are not meaningful for studying the dynamics of the chromosome system, nor do they help students understand genetics as a discipline. The software that accompanies this book has been shown to be an ideal tool for learning about genetics, which requires a combination of understanding, conceptualization, and practical experience.

Genetics George Harrison Shull, Donald Forsha Jones, Leslie Clarence Dunn, Curt Stern, Royal Alexander Brink, 1921 **Basic Genetics** Ahmed Abouelmagd, Hussein M. Ageely, 2009

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