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genetics definition genetics is the study of genes and inheritance in living organisms this branch of science has a fascinating history stretching from the 19 th century when scientists began to study how organisms inherited traits from their parents to the present day when we can read the source code of living things letter by letter

genetics wikipedia

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genetics is the study of genes genetic variation and heredity in organisms 1 2 3 it is an important branch in biology because heredity is vital to organisms evolution gregor mendel a moravian augustinian friar working in the 19th century in brno was the first to study genetics scientifically

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genes are pieces of hereditary material that are passed from parents to offspring genes are part of cell structures called chromosomes in multicellular organisms chromosomes are found in the nucleus of the cell each of these chromosomes contains one long molecule of dna or d eoxyribo n ucleic a cid

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an organism has many different genes and so can produce many different proteins these proteins have functions that affect the organism s traits proteins are made up of amino acids the order of amino acids in a protein is determined by the order of nucleotides in its corresponding gene

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genetics study of heredity in general and of genes in particular genetics forms one of the central pillars of biology and overlaps with many other areas such as agriculture medicine and biotechnology learn more about the history biology areas of study and methods of genetics

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introduction how is genetic information passed between organisms learn science at scitable drosophila melanogaster inheritance is the passing of traits from parents to offspring our

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key points evolution is the change in inherited traits that occurs in a group of organisms over multiple generations inherited traits are those that are passed from parents to offspring via genes evolution is made possible by genetic variation or gene differences in a population

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vocabulary genetics is the study of genes the units of heredity and how the traits for which they carry coded information are transmitted from one generation to the next genes are found inside the cells of all living things they get passed on from parents to offspring

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genetics of organisms the genetics of organisms deals with the physical expression of gene at the organismal level and the organization and transfer of genetic material as it passes from generation to generation during reproduction alleles genotype and phenotype

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genetics is the study of genes and tries to explain what they are and how they work genes are how living organisms inherit features or traits from their ancestors for example children usually look like their parents because they have inherited their parents genes

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the observable traits expressed by an organism are referred to as its phenotype an organism s underlying genetic makeup consisting of both physically visible and non expressed alleles is called its genotype mendel s hybridization experiments demonstrate the difference between phenotype and genotype

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about the book genetics otherwise known as the science of heredity is the study of biological information and how this information is stored replicated transmitted and used by subsequent generations the study of genetics can be sub divided into three main areas transmission genetics molecular genetics and population genetics

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in a broad sense the term genotype refers to the genetic makeup of an organism in other words it describes an organism s complete set of genes in a more narrow sense the term can

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a genome is the complete set of genetic information in an organism it provides all of the information the organism requires to function in living organisms the genome is

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genetic diseases can be categorized into three major groups single gene chromosomal and multifactorial changes in the dna sequence of single genes also known as mutations cause thousands of diseases

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dna organic chemical of complex molecular structure that is found in all prokaryotic and eukaryotic cells and in many viruses dna codes genetic information for the transmission of inherited traits genetically modified humans crispr and genetically modified humans see all videos for this article

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genes achieve their effects by directing the synthesis of proteins in eukaryotes such as animals plants and fungi genes are contained within the cell nucleus the mitochondria in animals and the chloroplasts in plants also contain small subsets of genes distinct from the genes found in the nucleus

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dna or deoxyribonucleic acid is the molecule that makes up an organism s genome in the nucleus of every cell it consists of genes which are the molecular codes for proteins the building blocks of our tissues and their functions

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key terms mendelian inheritance gregor mendel s principles of heredity observed through patterns of inheritance in pea plants form the basis of modern genetics mendel proposed that traits were specified by heritable elements called genes

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genes are strands of dna that contain the biological instructions for life each gene contains sequences that determine physical and biological traits medical illustration by bailey mariner

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