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this introduction to genetics takes you through the basic components of genetics such as dna genes chromosomes and genetic inheritance genetics is built around molecules called dna dna molecules hold all the genetic information for an organism

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introduction to genetics 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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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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introduction to genetics genetics is the study of how genes bring about characteristics or traits in living things and how those characteristics are inherited genes are specific sequences of nucleotides that code for particular proteins through the processes of meiosis and sexual reproduction genes are transmitted from one generation to

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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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for a more accessible and less technical introduction to this topic see introduction to genetics 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

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molecular basis of genetics mendel s heritable factors which we now call genes are actually regions of dna found on chromosomes learn how a gene can specify a protein through the processes of transcription and translation and how alleles are versions of a gene that have different dna sequences

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introduction to genetics genetics is the study of how traits are inherited a trait is defined as a variation in the physical appearance of a heritable characteristic it seeks to understand how traits are passed from generation to generation

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about transcript genetic engineering although a recent concept has roots in ancient human practices like selective breeding of animals and plants today recombinant dna technology enables precise gene manipulation creating genetically modified organisms gmos with enhanced traits

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2009 helicos genetic analysis 21 28gbp per run o while costs and speed have gone down dramatically for sequencing the costs for analysis are still very high variation and disease everyone has 5 50 significant genetic flaws all diseases have some genetic component susceptibility o down up regulate expression

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anthony j f

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