

Biology genetics question and answers

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What is a good question about genetics? General Questions Why is understanding genetics important for scientists? Why is biodiversity valuable and what benefits does it provide for humans? How has society changed through our understanding of genetics? What societal changes could occur in the future through our understanding of genetics?

What is genetics answers? Genetics is the science of genes and how traits are passed on from one generation to the next. People who study genes are geneticists (juh-net-i-sists). Every living thing has DNA. DNA is an amazing chemical present in every cell. It contains all the information cells need to make a fish a fish, or you YOU.

How to solve genetic questions?

What is an allele mcq question? Answer: The Correct answer is Alternate forms of genes. A variable form of a gene is known as an allele. Some genes exist in several distinct versions, all of which are found at the same genetic locus on a chromosome.

What are the six big questions of biology?

What are 5 interesting facts about genetics?

What does DNA stand for? Deoxyribonucleic acid (abbreviated DNA) is the molecule that carries genetic information for the development and functioning of an organism. DNA is made of two linked strands that wind around each other to resemble a twisted ladder — a shape known as a double helix.

What does genetics do in biology? The main task of biology is the study of living matter, and in this respect the role of genetics is especially important since it covers two basic phenomena - inheritance and variability. These are related to reproduction,

which in its turn has a physiological and biochemical basis.

What are genes made of? Genes are made up of sequences of DNA and are arranged, one after another, at specific locations on chromosomes in the nucleus of cells.

What is a recessive in biology? Refers to a trait that is expressed only when genotype is homozygous; a trait that tends to be masked by other inherited traits, yet persists in a population among heterozygous genotypes. © Nature Education.

What is a phenotype in biology? Phenotype refers to an individual's observable traits, such as height, eye color and blood type. A person's phenotype is determined by both their genomic makeup (genotype) and environmental factors.

How is genetic done? The tests are usually done using a blood sample or a small amount of saliva. Genetic testing is currently only useful for a few conditions. Because the results may have repercussions for children and siblings, genetic tests may only be performed in certain situations.

Is allele a gene or trait? "Allele" is the word that we use to describe the alternative form or versions of a gene. People inherit one allele for each autosomal gene from each parent, and we tend to lump the alleles into categories. Typically, we call them either normal or wild-type alleles, or abnormal, or mutant alleles.

Why are alleles called alleles? It derives from the Greek prefix ??????-, allelo-, meaning "mutual", "reciprocal", or "each other", which itself is related to the Greek adjective ?????, allos (cognate with Latin alius), meaning "other".

What is your allele? Well, alleles are matching genes; one from our biological mother, one from our biological father. We have two copies of every gene (strings of code that drive some biological function on our chromosomes). They can be identical, but they can often have slight differences.

What is the hardest question in biology?

Where is DNA found? Most DNA is located in the cell nucleus (where it is called nuclear DNA), but a small amount of DNA can also be found in the mitochondria (where it is called mitochondrial DNA or mtDNA). Mitochondria (Figure 5) are

structures within cells that convert the energy from food into a form that cells can use.

What are DNA questions?

What shape is DNA? Double Helix Double helix, as related to genomics, is a term used to describe the physical structure of DNA. A DNA molecule is made up of two linked strands that wind around each other to resemble a twisted ladder in a helix-like shape.

Can DNA be found in blood? DNA is present in nearly every cell of our bodies, and we leave cells behind everywhere we go without even realizing it. Flakes of skin, drops of blood, hair, and saliva all contain DNA that can be used to identify us.

How much DNA is in A human? The current version of the human reference genome includes one copy of each of the autosomes plus one copy of the two sex chromosomes (X and Y). The total amount of DNA is 3.1 billion base pairs (3.1 Gb).

What sugar is found in DNA? DNA has deoxyribose sugar. The basic building block of DNA, a nucleotide, consists of phosphate ion, a deoxyribose sugar molecule and a nitrogenous base. RNA has ribose sugar.

Where is RNA found in the cell? The two places that RNA is found in the cell is the nucleus and the cytoplasm. RNA is synthesized from DNA during the process of transcription, which happens in the nucleus. From there, RNA can be exported to the cytoplasm for protein production, such as mRNA, tRNA, or rRNA.

What is RNA made of? Ribonucleic acid (RNA) is a molecule that is present in the majority of living organisms and viruses. It is made up of nucleotides, which are ribose sugars attached to nitrogenous bases and phosphate groups. The nitrogenous bases include adenine, guanine, uracil, and cytosine.

What are the essential questions for genetics? Essential Questions How is heritable information passed from one generation to the next? What are different patterns by which heritable information passed from one generation to the next? How does this unit provide evidence of the relatedness of living things in the world?

What is an ethical question about genetics? There are a few ethical dilemmas that cause people concern. Being able to actually procure the information that lies in the DNA's structure could result in people being discriminated against for a job or insurance coverage. Another issue that causes controversy is the prospect of selection of fetuses during pregnancy.

What is a good question to ask about DNA? What is "translation" of DNA? What are the four pairs of DNA bases that form in the double helix? How can A distinguish T from C? Which DNA double helix do you think would be harder to separate into two strands: DNA composed predominantly of AT base pairs, or of GC base pairs?

What can genetics tell us? Genetics helps to explain: What makes you unique, or one of a kind. Why family members look alike. Why some diseases like diabetes or cancer run in families.

What's the difference between DNA and a gene? Chromosomes carry DNA in cells. DNA is responsible for building and maintaining your human structure. Genes are segments of your DNA, which give you physical characteristics that make you unique. Together, your body has a complete instruction manual that tells your cells how to behave.

What are the three main areas of genetics? Genetics may be conveniently divided into 3 areas of study: transmission genetics, molecular genetics and population genetics.

What are the main topics of genetics?

What are some controversial topics in genetics?

What is one major ethical concern in the use of genetically? Following are the major ethical issues related to genetically modified organisms: The genetically modified organisms introduced into the ecosystem could have unpredictable results.

What are the issues with genetic research? Four general categories of ethical and social issues in genetic research studies are considered, including privacy, access and ownership of genetic information and materials, psychosocial risks of participating in genetic research studies, and potential group-related harms.

What are 5 interesting facts about DNA?

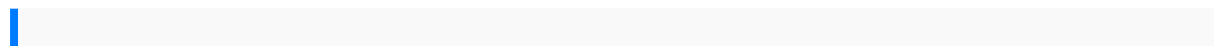
What is A strand of DNA called? A DNA molecule consists of two long polynucleotide chains composed of four types of nucleotide subunits. Each of these chains is known as a DNA chain, or a DNA strand.

What is the DNA question answer? Deoxyribonucleic acid (abbreviated DNA) is the molecule that carries genetic information for the development and functioning of an organism. DNA is made of two linked strands that wind around each other to resemble a twisted ladder — a shape known as a double helix.

What is genetics in biology? Genetics is the branch of biology concerned with the study of inheritance, including the interplay of genes, DNA variation and their interactions with environmental factors.

What genes are inherited from father only? All men inherit a Y chromosome from their father, which means all traits that are only found on the Y chromosome come from dad, not mom. The Supporting Evidence: Y-linked traits follow a clear paternal lineage.

How do genetics determine who we are? Genes influence each individual's behavioral and psychological characteristics, including intellectual ability, personality, and risk for mental illness—all of which have bearing on both parents and children within a family.



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