

Daily Science Trivia

Topic

1

Who is known as the
Father of Genetics?

- A. Gregor Mendel
- B. Francis Crick
- C. James Watson

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What type of letter is used to
represent a dominant trait in a genotype?

- A. Capital
- B. Lower case

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Which type of pollination occurs when
pollen from the stamen of one flower
pollinates a flower on the same plant?

- A. Self pollination
- B. Cross pollination

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What type of plants did Mendel
use for his genetic experiments?

- A. Corn plants
- B. Bean plants
- C. Pea plants

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What controls the traits of an organism?

- A. Genes
- B. Blood
- C. Hair color

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What term is used for an organism with
genes that are different for a specific trait, such
as one dominant allele and one recessive?

- A. Purebred
- B. Hybrid

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Which law states that the parent's genes will separate so one gene from each parent goes to a sex cell?

- A. Law of Independent Assortment
- B. Law of Segregation
- C. Law of Mendel

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If a purebred black rabbit is crossed with a hybrid black rabbit, what are the chances of the offspring having white hair?

- A. 100%
- B. 75%
- C. 50%
- D. 0%

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Which term refers to the physical appearance of a trait?

- A. Phenotype
- B. Genotype
- C. Punnett

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What is the study of heredity?

- A. Geology
- B. Genealogy
- C. Genetics

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Which sex cells would be found in the cells of a normal male fruit fly?

- A. XX
- B. YY
- C. XY

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What term is used for a member of a gene pair that determines a specific trait?

- A. Genotype
- B. Plasmid
- C. Allele

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Which trait seems to “disappear” when two different genes for the trait are present?

- A. Dominant
- B. Recessive

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Which term refers to the actual gene makeup of an organism?

- A. Genotype
- B. Phenotype

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Where do organisms get their genes?

- A. Their parents
- B. They are created in their bodies as they grow
- C. Walmart

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If you cross two heterozygous tall pea plants, what percentage of the offspring would be tall?
(Tall is the dominant trait, short is recessive)

- A. 100%
- B. 75%
- C. 50%
- D. 25%

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Which gene pair would a hybrid tall pea plant have?

- A. TT
- B. tt
- C. Tt
- D. None of these

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True or False?

The pistil of a plant produces pollen.

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What term is used for the offspring from the P generation?

- A. Parental generation
- B. First filial generation
- C. Second filial generation

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Which of the following genotypes would represent a true-breeding short pea plant?

- A. TT
- B. Tt
- C. tt
- D. None of these

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Which of the following is NOT a base in RNA?

- A. adenine
- B. guanine
- C. thymine
- D. cytosine

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True or False?

You have all the hereditary traits you are going to have at birth.

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Who is credited with the discovery of chromosomes?

- A. Flemming
- B. Sutton
- C. Morgan

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How many pairs of chromosomes does a human have?

- A. 12
- B. 23
- C. 46
- D. 92

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What term refers to a factor that causes a change in a gene or chromosome?

- A. mutation B. mutagen C. mutant

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How are the nitrogen bases of DNA paired?

- A. A with T and C with G
B. A with C and T with G
C. A with G and T with C

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What is the name of the process by which a DNA molecules form exact duplicates?

- A. DNA Replication
B. Protein Synthesis
C. Exact Duplication

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In which cell part is DNA found?

- A. Cytoplasm
B. Ribosomes
C. Nucleus

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Which of the following part of a cell is called the “protein factory”?

- A. Cytoplasm
B. Endoplasmic Reticulum
C. Ribosomes

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Which type of RNA is responsible for bringing messages from the DNA inside the nucleus to structures in the cytoplasm outside the nucleus?

- A. tRNA B. mRNA C. cRNA