Genetics History and Fundamentals

Genetics · Answer Key · 8 Questions

1. In which year did Gregor Mendel publish his paper 'Experiments on Plant Hybridization' describing the laws of inheritance?

A) 1855
B) 1866
C) 1872
D) 1884

2. How many pairs of autosomes do humans typically have in their somatic cells?

A) 21
B) 22
C) 23
D) 24

3. James Watson and Francis Crick published their famous paper on the double-helix structure of DNA in the journal 'Nature' in which year?

A) 1950
B) 1953
C) 1955
D) 1958

4. Who is credited with the discovery of the 'jumping gene' or transposable elements, for which they were awarded a Nobel Prize in 1983?

A) Barbara McClintock
B) Rosalind Franklin
C) Thomas Hunt Morgan
D) Hermann Muller

5. The Human Genome Project, an international research effort to determine the DNA sequence of the entire human genome, was officially completed in which year?

A) 1998
B) 2001
C) 2003
D) 2005

6. How many standard amino acids are encoded by the universal genetic code in humans?

A) 16
B) 20
C) 24
D) 28

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7. Thomas Hunt Morgan won the Nobel Prize in Physiology or Medicine in 1933 for his research on the hereditary role of which organism?

A) Drosophila melanogaster
B) Escherichia coli
C) Caenorhabditis elegans
D) Arabidopsis thaliana

8. The Hershey-Chase experiment, which confirmed that DNA is the genetic material of life, was conducted in which year?

A) 1948
B) 1952
C) 1956
D) 1960