

Milestones in Genetics

Genetics · Practice Test · 10 Questions

1. Who is credited with the first discovery of the laws of inheritance through experiments with pea plants?

- A) Gregor Mendel
- B) Charles Darwin
- C) Thomas Hunt Morgan
- D) Francis Crick

2. In which year was the double helix structure of DNA first published by James Watson and Francis Crick?

- A) 1948
- B) 1953
- C) 1960
- D) 1965

3. What was the first organism to have its complete genome sequenced in 1977?

- A) Escherichia coli
- B) Drosophila melanogaster
- C) Bacteriophage phi X174
- D) Caenorhabditis elegans

4. Who coined the term 'genetics' in a letter to Adam Sedgwick in 1905?

- A) William Bateson
- B) Hugo de Vries
- C) Walter Sutton
- D) Theodor Boveri

5. Which technique, invented by Kary Mullis in 1983, allows for the amplification of specific DNA segments?

- A) CRISPR-Cas9
- B) Southern Blotting
- C) Polymerase Chain Reaction
- D) Sanger Sequencing

6. What is the name of the first mammal to be successfully cloned from an adult somatic cell in 1996?

- A) Molly
- B) Dolly
- C) Polly
- D) Holly

7. Who first observed and described cells using a microscope in his 1665 book 'Micrographia'?

- A) Antonie van Leeuwenhoek
- B) Robert Hooke
- C) Carl Linnaeus
- D) Louis Pasteur

8. Which scientist is known for discovering the mobile genetic elements known as 'jumping genes' or transposons?

- A) Barbara McClintock
- B) Rosalind Franklin
- C) Nettie Stevens
- D) Elizabeth Blackburn

9. What was the primary experimental model used by Thomas Hunt Morgan to prove that genes are located on chromosomes?

- A) Mouse
- B) Fruit fly
- C) Yeast
- D) Zebra fish

10. The first draft of the Human Genome Project was officially announced as completed in which year?

- A) 1990
- B) 1998
- C) 2000
- D) 2003