

Milestones in Genetics

Genetics · Answer Key · 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