Milestones in Biological Science

Advanced Biology · Practice Test · 8 Questions

1. Which scientist is credited with the 1865 publication of 'Experiments on Plant Hybridization', laying the foundation for modern genetics?

A) Gregor Mendel
B) Charles Darwin
C) Thomas Hunt Morgan
D) Hugo de Vries

2. In 1953, who utilized X-ray diffraction images to help determine the double helix structure of DNA?

A) Barbara McClintock
B) Rosalind Franklin
C) Erwin Chargaff
D) Alfred Hershey

3. What 1928 experiment by Frederick Griffith demonstrated the phenomenon of bacterial transformation?

A) The Meselson-Stahl experiment
B) The Hershey-Chase experiment
C) The Streptococcus pneumoniae experiment
D) The Miller-Urey experiment

4. Which biologist coined the term 'cell' in his 1665 publication 'Micrographia' after observing cork tissue?

A) Anton van Leeuwenhoek
B) Theodor Schwann
C) Robert Hooke
D) Matthias Schleiden

5. In 1977, which team developed the chain-termination method for DNA sequencing, revolutionizing molecular biology?

A) Frederick Sanger et al.
B) James Watson and Francis Crick
C) Kary Mullis
D) Francis Collins

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6. Who proposed the theory of 'endosymbiosis' in 1967 to explain the origin of eukaryotic organelles?

A) Lynn Margulis
B) Carl Woese
C) George Gamow
D) Stanley Miller

7. What is the name of the 1952 experiment that proved DNA, not protein, is the genetic material of bacteriophages?

A) The Avery-MacLeod-McCarty experiment
B) The Hershey-Chase experiment
C) The Beadle-Tatum experiment
D) The Luria-Delbrück experiment

8. Which scientist discovered the existence of 'jumping genes' or transposons while studying maize in the 1940s?

A) Barbara McClintock
B) Ronald Fisher
C) Sewall Wright
D) August Weismann

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