

Milestones in Life Science

Life Science · Answer Key · 20 Questions

1. Who is credited with discovering the structure of DNA in 1953?

A) Watson and Crick

B) Charles Darwin

C) Louis Pasteur

D) Gregor Mendel

2. Who is known as the father of genetics for his work with pea plants?

A) Isaac Newton

B) Gregor Mendel

C) Robert Hooke

D) Alexander Fleming

3. Which scientist is famous for proposing the theory of evolution by natural selection?

A) Carl Linnaeus

B) Marie Curie

C) Charles Darwin

D) Galileo Galilei

4. What was the first living organism to be successfully cloned from an adult cell in 1996?

A) A mouse

B) A sheep

C) A dog

D) A frog

5. Who invented the microscope, allowing scientists to see cells for the first time?

A) Zacharias Janssen

B) Thomas Edison

C) Albert Einstein

D) Nikola Tesla

6. Which scientist discovered penicillin, the first true antibiotic?

A) Edward Jenner

B) Louis Pasteur

C) Alexander Fleming

D) Joseph Lister

7. What was the first vaccine ever developed, created by Edward Jenner in 1796?

- A) Polio vaccine
- B) Smallpox vaccine**
- C) Flu vaccine
- D) Measles vaccine

8. Who is considered the father of microbiology for his work with pasteurization?

- A) Louis Pasteur**
- B) Robert Koch
- C) Antonie van Leeuwenhoek
- D) John Snow

9. Who coined the term 'cell' after looking at cork under a microscope?

- A) Robert Hooke**
- B) James Watson
- C) Linus Pauling
- D) Francis Crick

10. Which scientist is known for developing the system of binomial nomenclature to classify living things?

- A) Charles Darwin
- B) Carl Linnaeus**
- C) Gregor Mendel
- D) Rachel Carson

11. What was the name of the first human successfully vaccinated against smallpox?

- A) James Phipps**
- B) Isaac Newton
- C) Edward Jenner
- D) John Smith

12. Which explorer and scientist first described 'animalcules' (bacteria) using a simple microscope?

- A) Antonie van Leeuwenhoek**
- B) Charles Darwin
- C) Louis Pasteur
- D) Robert Hooke

13. In which decade was the Human Genome Project officially launched to map all human genes?

- A) 1970s
- B) 1980s
- C) 1990s**
- D) 2000s

14. Who discovered the blood circulation system in the human body?

- A) William Harvey**
- B) Andreas Vesalius
- C) Hippocrates
- D) Galen

15. Which researcher was instrumental in discovering the structure of DNA using X-ray diffraction, though often historically overlooked?

- A) Rosalind Franklin**
- B) Marie Curie
- C) Ada Lovelace
- D) Florence Nightingale

16. What major discovery did Rachel Carson popularize in her 1962 book 'Silent Spring'?

- A) Environmental damage from pesticides**
- B) The structure of cells
- C) The process of photosynthesis
- D) The migration of birds

17. Who was the first person to visualize and describe sperm cells under a microscope?

- A) Antonie van Leeuwenhoek**
- B) Robert Hooke
- C) Louis Pasteur
- D) Gregor Mendel

18. Which scientist is credited with developing the theory of endosymbiosis regarding mitochondria and chloroplasts?

- A) Lynn Margulis**
- B) Charles Darwin
- C) Carl Linnaeus
- D) Gregor Mendel

19. What was the primary method used by Louis Pasteur to prove that germs cause disease?

A) The swan-neck flask experiment

- B) The use of X-rays
- C) Cross-pollination
- D) Genetic sequencing

20. In 1865, what fundamental biological process did Gregor Mendel describe?

A) Inheritance of traits

- B) Cell division
- C) Blood clotting
- D) Photosynthesis