

Bronze-Age Sheep Uncover Ancestor of Black Death

Description

Scientists have discovered an ancient bacteria in a sheep's tooth from a Bronze Age settlement. This bacteria is related to the one that caused deadly plagues like the Black Death. Studying diseases like plague involves looking at both ancient humans and animals. Many diseases, including plague, originated in settlements where people and animals lived close together.

The bacteria that causes the plague, Yersinia pestis, has been studied in human remains, but not much in other species. The bacteria likely originated in Eurasia around 3,800 years ago due to the close interactions between humans and animals. Evidence suggests that early outbreaks of plague occurred without fleas spreading it.

Researchers found traces of this ancient plague in a sheep, which is a unique discovery. This helps us understand how the disease spread in ancient times. Studying ancient diseases can provide insight into their evolution and potential threats to public health today. The study has not yet been reviewed by other scientists but is available for further research.

Vocabulary List:

- Bacteria /bæk'tɪə.ri.ə/ (noun): Single-celled microorganisms that can exist either as independent organisms or as parasites.
- 2. Settlement /'sɛtəlmənt/ (noun): A community or group of people living in a new area.
- 3. Outbreak /'aʊt,breɪk/ (noun): A sudden occurrence of a disease in a particular time and place.
- 4. **Evolution** /,i:vəˈluːʃən/ (noun): The process of gradual development in living organisms.
- 5. Plague /pleɪg/ (noun): An infectious bacterial disease characterized by high mortality.
- 6. Insight /'ɪn.saɪt/ (noun): The capacity to gain an accurate understanding of someone or something.

Comprehension Questions

Multiple Choice

1. Where did scientists discover an ancient bacteria related to the one that caused deadly plagues like the Black Death?

Option: In a sheep's tooth from a Bronze Age settlement



Option: In a human skull from a medieval village

Option: In a modern laboratory
Option: In a fossilized tree trunk

2. What is the name of the bacteria that causes the plague?

Option: Yersinia pestis

Option: E. coli

Option: Streptococcus
Option: Salmonella typhi

3. When did the bacteria likely originate in Eurasia?

Option: Around 3,800 years ago Option: Around 1,000 years ago Option: Around 10,000 years ago Option: Around 500 years ago

4. What is the significance of the discovery of ancient plague traces in a sheep?

Option: Understanding the spread of the disease in ancient times

Option: Proving theories about modern diseases

Option: Demonstrating the immunity of animals to the plague

Option: No significance

5. Why is studying ancient diseases important?

Option: To provide insight into their evolution and potential threats to public health today

Option: To understand animal behavior better

Option: To prove a connection between humans and animals

Option: To explore the history of plague doctors

6. Was the study of the ancient plague in the sheep reviewed by other scientists?

Option: Not reviewed yet

Option: Reviewed and rejected Option: Reviewed and accepted Option: No study conducted

True-False

7. Studying diseases like the plague only involves looking at ancient humans.



- 8. Early outbreaks of plague were spread by fleas.
- 9. The bacteria responsible for the plague has only been studied in human remains.
- 10. The ancient plague traces were found in a cow instead of a sheep.
- 11. Ancient diseases can provide insights into their potential threats to public health today.
- 12. The interaction between humans and animals likely led to the origin of the plague bacteria.

Gap-Fill

13. The bacteria that causes the plague likely originated in Eurasia around years
ago.
15. Studying ancient diseases can offer into their evolution and potential threats
to public health today.
16. The study of the ancient plague in the sheep has not yet been by other
scientists.
17. Many diseases, including plague, originated in settlements where people and animals lived
together.
18. The ancient bacteria related to deadly plagues was discovered in a sheep's

Answer

from a Bronze Age settlement.

Multiple Choice: 1. In a sheep's tooth from a Bronze Age settlement 2. Yersinia pestis 3. Around 3,800 years ago 4. Understanding the spread of the disease in ancient times 5. To provide insight into their evolution and potential threats to public health today 6. Not reviewed yet

True-False: 7. False 8. False 9. False 10. False 11. True 12. True

Gap-Fill: 13. 3,800 15. insight 16. reviewed 17. close 18. tooth



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which of the following is a respiratory condition characterized by narrowing of the airways?

Option: Asthma Option: ADHD Option: Seizures Option: Pre-diabetes

2. Animals that hunt and prey on other animals for survival are known as:

Option: Predators Option: Bacteria Option: Settlement Option: Outbreak

3. Systematic investigative activities to discover and interpret facts is known as: ESL-NEWS

Option: Flexibility Option: Research

Option: Chromatophores

Option: Pigment

4. An event or occurrence that provokes a specific reaction or response is called a:

Option: Increase Option: Healthcare Option: Stimulus Option: Crucial

5. The process by which different kinds of living organisms are believed to have developed and diversified from earlier forms is called:

Option: Athletes Option: Soreness Option: Evolution Option: Plague

6. The quality state or capability of being connected or interconnected is known as:

Option: Insight

Option: Connectivity Option: Cognitive Option: Enrich



Option: Boost
Option: Soreness
Option: Flexibility
Option: Recovery
8. Brief disturbances in the electrical activity of the brain that may be associated with epilepsy are known
as:
Option: Investigation
Option: Seizures
Option: Pre-diabetes
Option: Increase
9. Cells containing pigment granules that change color in response to stimuli are called:
Option: Boost
Option: Chromatophores
Option: Granules
Option: Electricity
10. The invasion of an organism's body tissues by disease-causing agents is called:
Option: Connectivity Option: Cognitive Option: Enrich
Option: Cognitive
Option: Enrich
Option: Infection
Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.) 11. Attention-Deficit/Hyperactivity Disorder commonly known as
is a neurodevelopmental disorder.
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12. The provision of medical services to individuals or communities to maintain or improve their health is
known as
13. Technological have revolutionized various industries and aspects of human
life.
14. The process of establishing a community or society in a specific area is called
15. A widespread occurrence of a harmful infectious disease often resulting in many deaths is referred to a

7. The state of being tender sensitive or painful due to injury or overuse is known as:



a		
16. Gaining deep understanding or intuitive	into a specific subject can lead to	
valuable discoveries.		
17. Microscopic organisms that can cause infections and often play e	ssential roles in various ecosystems	
are known as		
18. The abilities of the human brain are cru	ucial for processing information and	
making decisions.		
19. To boost economic growth countries aim to	their production and innovation	
capacities.		
20. Education plays a vital role in helping individuals Matching Septences (Match each definition to the correct w	their knowledge and skills.	
Matching Sentences (Match each definition to the correct w	ord from the vocabulary list.)	
21. Yoga and stretching exercises can improve one's physical and r	range of motion.	
22. Adequate rest and proper nutrition are essential for effective m	uscle after intense workouts.	
23. Energy drinks claim to provide a quick of energy due to their ca	affeine content.	
24. The color-changing ability of chameleons is due to specialized skin cells called that contain pigment.		
25. Some deep-sea creatures produce light through a process called bioluminescence using specialized cells that generate .		
26. Scientists conduct to explore new medical treatments and tech	nologies.	
27. The in plant leaves is responsible for capturing sunlight during photosynthesis.		
28. The rapid in artificial intelligence have led to innovations in various industries.		
29. Effective communication skills are in building strong relationships and collaboration.		



30. Police detectives are involved in the of crime scenes and gathering evidence.

Answer

Multiple Choice: 1. Asthma 2. Predators 3. Research 4. Stimulus 5. Evolution 6. Connectivity 7. Soreness 8. Seizures 9. Chromatophores 10. Infection

Gap-Fill: 11. ADHD 12. Healthcare 13. Advancements 14. Settlement 15. Plague 16. Insight 17. Bacteria 18. Cognitive 19. Increase 20. Enrich

Matching sentence: 1. Flexibility 2. Recovery 3. Boost 4. Granules 5. Electricity 6. Research 7. Pigment 8. Advancements 9. Crucial 10. Investigation

CATEGORY

1. Health - LEVEL2

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