



# Ancient Human Species Unearthed: A Scientific Breakthrough

## Description

A new study in *Nature* talks about a group of ancient humans called the Juluren. They lived in eastern Asia more than 100,000 years ago and are relatives of the Denisovans and Neanderthals.

The Juluren had bigger brains than any other human species at that time, including modern humans. They likely hunted small groups of horses.

Scientists Xiujie Wu and Christopher Bae discovered these new fossils in China. They found that the Juluren, known as *Homo juluensis*, are different from known species like *Homo erectus* and Denisovans.

Wu and Bae explained that the different fossils show a mix of features from many ancient human groups. This discovery shows that many types of humans lived in Asia between 300,000 and 50,000 years ago.

Anthropologist John Hawks thinks this study is important. He believes it shows we need to learn more about human history in Asia. The research helps us understand how complex human evolution really is.

The study was published in *Nature Communications*.

## Vocabulary List:

1. **Ancient** /'eɪn.fənt/ (adjective): Belonging to the very distant past and no longer in existence.
2. **Discovery** /dɪs'kʌv.ər.i/ (noun): The process of finding or learning something for the first time.
3. **Fossils** /'fɒs.əl/ (noun): The remains or impression of a prehistoric organism preserved in petrified form or as a mold or cast in rock.
4. **Relatives** /'rel.ə.tɪv/ (noun): A person connected by blood or marriage.
5. **Evolution** /,iː.və'lʊː.ʃən/ (noun): The gradual development of something especially from a simple to a more complex form.
6. **Features** /'fiː.tʃər/ (noun): A distinctive attribute or aspect of something.

## Comprehension Questions

### Multiple Choice

1. Where did the Juluren ancient humans live more than 100,000 years ago?



- Option: Eastern Asia
- Option: Western Europe
- Option: South America
- Option: Northern Africa

2. Which two human species are the Juluren related to?

- Option: Denisovans and Neanderthals
- Option: Homo sapiens and Homo habilis
- Option: Cro-Magnons and Homo erectus
- Option: Neanderthals and Homo floresiensis

3. What did the Juluren likely hunt according to the study?

- Option: Small groups of horses
- Option: Large mammals
- Option: Fish
- Option: Birds

4. Who discovered the new fossils of the Juluren in China?

- Option: Xiujie Wu and Christopher Bae
- Option: Mary Leakey
- Option: Louis Leakey
- Option: Richard Leakey

5. What is the name of the ancient humans referred to as Juluren?

- Option: Homo juluensis
- Option: Homo sapiens
- Option: Homo habilis
- Option: Homo erectus

6. According to the study, which time period saw many types of humans living in Asia?

- Option: Between 300,000 and 50,000 years ago
- Option: Less than 10,000 years ago
- Option: More than 500,000 years ago
- Option: Between 50,000 and 10,000 years ago

### **True-False**

7. The Juluren had smaller brains compared to modern humans.



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8. Xijie Wu and Christopher Bae are paleontologists who discovered the Juluren fossils.
  9. Homo juluensis is similar to Homo erectus and Denisovans.
  10. John Hawks believes this study on Juluren ancient humans is not significant for understanding human evolution.
  11. The study on Juluren ancient humans was published in Nature Communications.
  12. The Juluren are believed to have lived in Europe.

### Gap-Fill

14. The different fossils found by Wu and Bae show a mix of features from many \_\_\_\_\_ human groups.
15. According to John Hawks, the study on Juluren ancient humans helps us understand how complex human evolution really \_\_\_\_\_.
16. The Juluren, known as Homo juluensis, are different from known species like Homo \_\_\_\_\_ and Denisovans.
17. The Juluren fossils were discovered in \_\_\_\_\_ by Xijie Wu and Christopher Bae.
18. The Juluren are relatives of the \_\_\_\_\_ and Neanderthals.

### Answer

**Multiple Choice:** 1. Eastern Asia 2. Denisovans and Neanderthals 3. Small groups of horses 4. Xijie Wu and Christopher Bae 5. Homo juluensis 6. Between 300,000 and 50,000 years ago

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

**Gap-Fill:** 14. ancient 15. is 16. erectus 17. China 18. Denisovans

### Vocabulary quizzes



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

1. What are the primary cells of the nervous system responsible for transmitting information?

- Option: Axons
- Option: Neurons
- Option: Cognitive
- Option: Matter

2. Which neurological disorder is characterized by recurrent seizures?

- Option: Fossils
- Option: Alzheimer's
- Option: Epilepsy
- Option: Gravity

3. Which disease is associated with memory loss and cognitive decline?

- Option: Research
- Option: Alzheimer's
- Option: Challenges
- Option: Interactions

4. Which type of cancer is primarily focused on the cervical region?

- Option: Vaccination
- Option: Evolution
- Option: Cervical
- Option: Approved

5. What is the study of the beginnings of the universe and life called?

- Option: Gravity
- Option: Significant
- Option: Origins
- Option: Particles

6. What are the remains or impressions of ancient organisms preserved in rock?

- Option: Complex
- Option: Relatives
- Option: Discovery
- Option: Fossils

7. Which part of a neuron carries signals away from the cell body?

- Option: Challenges
- Option: Study
- Option: Axons



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Option: Connect

8. Which term refers to processes related to thinking understanding and remembering?

- Option: Neurons
- Option: Cognitive
- Option: Treatments
- Option: Ancient

9. What force attracts objects toward each other?

- Option: Interactions
- Option: Matter
- Option: Origins
- Option: Gravity

10. Which activity involves systematic investigation to establish facts and reach new conclusions?

- Option: Research
- Option: Particles
- Option: Approved
- Option: Significant

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. Advancing medical science poses numerous \_\_\_\_\_ that researchers strive to overcome.

12. In a neuron dendrites receive signals the cell body processes information and axons \_\_\_\_\_ with other neurons.

13. Studying \_\_\_\_\_ civilizations provides insights into historical cultures and societies.

14. In the field of physics understanding the \_\_\_\_\_ between particles is crucial to explaining the behavior of matter.

15. The theory of \_\_\_\_\_ explains the gradual development of organisms over generations.

16. The results of the recent experiments have led to \_\_\_\_\_ advancements in the field of



chemistry.

17. Regular \_\_\_\_\_ can prevent certain diseases by stimulating the body's immune response.

18. After rigorous testing the new drug was \_\_\_\_\_ for use in medical treatment.

19. Subatomic \_\_\_\_\_ are the building blocks of all matter in the universe.

20. Advancements in medical science have led to more effective \_\_\_\_\_ for various illnesses.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. Dedicated time and effort enhance the quality of learning and acquiring knowledge.
22. Exploration and research often lead to the uncovering of new findings and breakthroughs.
23. Anything that occupies space and has mass is considered as this fundamental substance in physics.
24. Examining genetic connections and lineages can reveal family ties and ancestry.
25. Intricate systems or problems often require detailed analysis and solutions.
26. These specialized cells play a vital role in transmitting electrical signals within the nervous system.
27. Obstacles and difficulties present opportunities for growth and innovation.
28. Long slender projections of neurons that conduct impulses away from the cell body.
29. Preserved remains of ancient organisms provide valuable insights into past life forms.
30. Tiny units of matter that exhibit unique properties and interactions in various fields of science.

## Answer

**Multiple Choice:** 1. Neurons 2. Epilepsy 3. Alzheimer's 4. Cervical 5. Origins 6. Fossils 7. Axons 8. Cognitive 9. Gravity 10. Research

**Gap-Fill:** 11. Challenges 12. Connect 13. Ancient 14. Interactions 15. Evolution 16. Significant 17. Vaccination



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18. Approved 19. Particles 20. Treatments

**Matching sentence:** 1. Study 2. Discovery 3. Matter 4. Relatives 5. Complex 6. Neurons 7. Challenges 8. Axons  
9. Fossils 10. Particles

## **CATEGORY**

1. Health - LEVEL1

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