



Scientists Explore Genes of Woman Who Lacked Pain Sensation

Description

Jo Cameron from Scotland lives without feeling pain. Most of her life, she thought this was normal for her. Even after surgeries, she felt no pain. Doctors began to study her after they saw this unusual situation.

In 2019, researchers found a gene called FAAH-OUT. This gene is very special. Jo is one of only two people in the world with changes in this gene. Now in her late 70s, scientists continue to learn from her case.

Jo told reporters she did not know her lack of pain was strange. She only realised something was different when she was 65. She felt happy but did not know her body worked differently.

Before studying Jo, scientists thought the FAAH-OUT gene was useless. Now, they see it helps control pain and mood. A new study showed that this gene could help with healing wounds and mood disorders.

Scientists want to use this knowledge to create better medicines. They hope their work will help many patients in the future.

Vocabulary List:

1. **gene** //dʒiːn// (noun): part of cells that tells how you grow
2. **surgeries** //ˈsɜːdʒərɪz// (noun): medical operations to fix or remove problems
3. **unusual** //ənˈjuːʒuəl// (adjective): not normal and different from most things
4. **researchers** //rɪˈsɜːtʃərz// (noun): people who study subjects to find new facts
5. **control** //kənˈtrɒl// (verb): to make something happen or not happen
6. **healing** //ˈhiːlɪŋ// (noun): making a body part become healthy again

Comprehension Questions

Multiple Choice

1. What is the name of the special gene that Jo Cameron has?

Option: FAAH-OUT

Option: GENE-X

Option: PAIN-LESS



Option: MUT-1

2. At what age did Jo Cameron realize her lack of pain was unusual?

- Option: 55
- Option: 60
- Option: 65
- Option: 70

3. How many people in the world are known to have changes in the FAAH-OUT gene?

- Option: 1
- Option: 2
- Option: 3
- Option: 4

4. What did researchers initially think of the FAAH-OUT gene?

- Option: Useful
- Option: Useless
- Option: Harmful
- Option: Dangerous

5. What is one of the potential benefits of the FAAH-OUT gene discovered by scientists?

- Option: Memory enhancement
- Option: Better pain control
- Option: Increased risk of diseases
- Option: Weight loss

6. In which country does Jo Cameron live?

- Option: England
- Option: Scotland
- Option: Wales
- Option: Northern Ireland

True-False

7. Jo Cameron has felt pain after surgeries.

8. FAAH-OUT gene was previously thought to be useless.



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9. Jo Cameron is in her 50s.
 10. Researchers want to use the knowledge gained from Jo Cameron to improve medicine.
 11. Jo only realized her body worked differently after turning 70.
 12. Jo Cameron is one of three people with changes in the FAAH-OUT gene.

Gap-Fill

13. Jo Cameron lives without feeling _____ pain.
14. The FAAH-OUT gene is said to help control pain and _____.
15. Jo Cameron was studied by doctors after they noticed her _____ situation.
16. She only realized something was different about her body when she was _____.
17. Scientists hope their work will lead to better _____ for patients.
18. Jo Cameron was born in _____ and still continues to share her story.

Answer

Multiple Choice: 1. FAAH-OUT 2. 65 3. 2 4. Useless 5. Better pain control 6. Scotland

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

Gap-Fill: 13. any 14. mood 15. unusual 16. 65 17. medicines 18. Scotland

CATEGORY

1. Health - LEVEL1

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