



Mice Attempting to Revive Fallen Friends: A Remarkable Finding

Description

A new study shows that mice help their friends who are unconscious. This suggests that helping others is part of our animal nature.

The scientists saw brain activity in areas that control automatic functions. They also noticed that hormones increased during this helping behavior.

Mice use a method called tongue-pulling to help. This action opens the airway of their unconscious friend, helping them wake up faster. The researchers found that familiar mice were more likely to help each other than unknown mice.

In 50% of the cases, the awake mice pulled the tongues of their unresponsive friends to help them. These mice woke up and moved around quicker than those left alone.

In most cases, the helper mice also removed objects from the mouths of their unconscious friends. However, they did not help when the friends were just sleeping or when other objects were placed in different areas.

This study shows that many animals, including mice, have a natural instinct to help others in trouble.

Vocabulary List:

1. **Instinct** /'ɪn.stɪŋkt/ (noun): An innate typically fixed pattern of behavior in animals in response to certain stimuli.
2. **Unconscious** /ʌn'kɒŋfəs/ (adjective): Not awake and aware of and responding to one's environment.
3. **Hormones** /'hɔːrməʊnz/ (noun): Chemical substances produced in the body that regulate the activity of cells or organs.
4. **Behavior** /bɪ'heɪvjər/ (noun): The way in which one acts or conducts oneself especially towards others.
5. **Responsive** /rɪ'spɒnsɪv/ (adjective): Reacting quickly and positively to a stimulus.
6. **Automatic** /ˌɔːtə'mætɪk/ (adjective): Working by itself with little or no direct human control.

Comprehension Questions

Multiple Choice

1. What behavior did mice exhibit towards their unconscious friends as shown in the study?



- Option: Ignoring them completely
- Option: Pulling their tongues to help
- Option: Eating food together
- Option: Fighting with them

2. According to the study, which type of mice were more likely to help each other?

- Option: Familiar mice
- Option: Unknown mice
- Option: Young mice
- Option: Female mice

3. What did the researchers observe in areas controlling automatic functions in the mice's brains?

- Option: Decreased brain activity
- Option: Increased brain activity
- Option: No changes in brain activity
- Option: Brain damage

4. What did the helper mice do besides pulling the tongues of their unconscious friends?

- Option: Ignored them completely
- Option: Removed objects from their mouths
- Option: Covered them with a blanket
- Option: Took naps next to them

5. How did the unconscious friends of the mice respond after receiving help?

- Option: They became aggressive
- Option: They slept longer
- Option: They woke up and moved quicker
- Option: They ignored the helper mice

6. What did the study suggest about the animal nature of mice?

- Option: They are incapable of helping others
- Option: They have a natural instinct to help
- Option: They are selfish creatures
- Option: They only help known mice

True-False

7. The study shows that mice help their friends when they are unconscious.



8. The brain activity in the mice decreased during the helping behavior.
9. Familiar mice were less likely to help each other than unknown mice.
10. The helper mice only removed objects from the mouths of their unconscious friends.
11. The study concluded that helping behavior is not a part of animal nature.
12. The awake mice always ignored their unresponsive friends in the study.

Gap-Fill

13. Mice use a method called _____ to help their unconscious friends.
14. In _____ of the cases, the awake mice pulled the tongues of their unresponsive friends to help them.
15. This study shows that many animals, including mice, have a natural instinct to help others in _____.
16. Helper mice were more likely to help their _____ friends.
17. The researchers found that hormones increased during the _____ behavior of the mice.
18. Mice did not help when their friends were just _____ or when other objects were placed elsewhere.

Answer

Multiple Choice: 1. Pulling their tongues to help 2. Familiar mice 3. Increased brain activity 4. Removed objects from their mouths 5. They woke up and moved quicker 6. They have a natural instinct to help

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

Gap-Fill: 13. tongue-pulling 14. 50% 15. trouble 16. familiar 17. helping 18. sleeping



Vocabulary quizzes

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

1. What are known to be the most resilient animals on Earth?
Option: Tardigrades
Option: Radiation
Option: DNA
Option: Hormones
2. What drives animals to perform certain behaviors without prior experience?
Option: Behavior
Option: Automatic
Option: Instinct
Option: Responsive
3. What can lead to harmful effects when one is in contact with chemicals or radiation?
Option: Exposure
Option: Preference
Option: Leak
Option: Tumor
4. Which field of physics deals with the behavior of subatomic particles?
Option: Mechanics
Option: Quantum
Option: Chemicals
Option: Research
5. What state is characterized by illness or poor health?
Option: Response
Option: Recovery
Option: Oxygen
Option: Sick
6. Which term describes items designed to be thrown away after use?
Option: Hormones
Option: Disposable
Option: Microwaving
Option: DNA
7. What system regulates oxygen levels in tissues to maintain homeostasis?



- Option: Tumor
- Option: HypoxyStat
- Option: Chemicals
- Option: Messenger

8. What activity involves the systematic investigation to discover new knowledge?

- Option: Tissues
- Option: Research
- Option: Expand
- Option: Messenger

9. What do certain mechanisms in the body do to ensure the safety of cells?

- Option: Protect
- Option: Expand
- Option: Container
- Option: Chemicals

10. What term describes the ability to react quickly and positively to something?

- Option: Sick
- Option: Responsive
- Option: Recovery
- Option: Radiation

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

11. The process of breathing is mostly controlled by the _____ nervous system.
12. A _____ is an abnormal growth of cells that serves no purpose.
13. Humans need _____ to survive as it is vital for cellular respiration.
14. The study of how _____ react with each other is important in chemistry.
15. Hormones act as _____ molecules in the body to signal various responses.
16. Cells _____ in size as they absorb nutrients and grow.
17. The cell membrane acts as a _____ holding the cell together and keeping its contents within.



18. A _____ in the blood-brain barrier can have serious consequences.

19. Animals may show a _____ for certain food types over others.

20. Excessive sun exposure can be _____ to the skin.

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

21. Genetic information is stored in molecules within the cell.
22. The way an individual acts or conducts oneself is termed .
23. Activities controlled by the brain without awareness are considered .
24. The group of scientists conducting a study are called .
25. When an individual is unwell or diseased they are said to be .
26. The period of returning to a normal state of health after an illness is known as .
27. The process of cooking or heating food rapidly using a microwave oven is called .
28. Being reactive or quick to respond describes a individual.
29. Substances with a specific chemical composition are termed .
30. Having a greater liking for one thing over another is known as a .

Answer

Multiple Choice: 1. Tardigrades 2. Instinct 3. Exposure 4. Quantum 5. Sick 6. Disposable 7. HypoxyStat 8. Research 9. Protect 10. Responsive

Gap-Fill: 11. Automatic 12. Tumor 13. Oxygen 14. Chemicals 15. Messenger 16. Expand 17. Container 18. Leak 19. Preference 20. Harmful

Matching sentence: 1. DNA 2. Behavior 3. Unconscious 4. Researchers 5. Sick 6. Recovery 7. Microwaving 8. Responsive 9. Chemicals 10. Preference

CATEGORY

1. Health - LEVEL1

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