

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 /nn'kpn[əs/ (adjective): Not awake and aware of and responding to one's environment.
- 3. **Hormones** /'hɔ:rmoʊnz/ (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 /rɪˈspɒnsɪv/ (adjective): Reacting quickly and positively to a stimulus.
- 6. Automatic /, o:tə'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

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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 he	lping	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, t	the awake mice pulled the tongues of their unresponsive
friends to help them.	
15. This study shows that many animals, included the study shows the study	ding 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 incre	eased during the behavior of the
mice.	
18. Mice did not help when their friends were j	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? ESL-NEWS

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 mechanism	ms 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	
	ability to react quickly and positively to something?
Gap-Fill (Fill in the blank	s 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.
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17. The cell membrane acts a	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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