



Sharks are Surprisingly Noisy: Debunking the Silence Myth

Description

A shark called the rig can make clicking noises, which was a surprise to scientists. The sounds were discovered by Carolin Nieder during her research on sharks' hearing in New Zealand. The rig is the first shark known to make intentional sounds that are not linked to feeding or other actions.

To confirm this discovery, Nieder and her team brought juvenile rigs to the lab and found that all of them produced clicking noises when handled. They suspect the sharks make these sounds by snapping their jaws together, possibly as a defense mechanism against predators or to help in hunting.

This finding is significant because it sheds light on a previously overlooked aspect of shark biology. If more sharks are found to produce sounds, these clicks could be used to monitor their populations more effectively. This discovery emphasizes how much we still have to learn about the underwater world.

This new information adds to our understanding of sharks and opens up possibilities for future research in marine biology.

Vocabulary List:

1. **Intended** /ɪn'tendɪd/ (adjective): Planned or designed for a specific purpose.
2. **Mechanism** /'mekənɪzəm/ (noun): A process or technique for achieving a result.
3. **Shed** /ʃed/ (verb): To cast off or remove.
4. **Significant** /sɪg'nɪfɪkənt/ (adjective): Of great importance or meaning.
5. **Juvenile** /dʒu:vənil/ (adjective): Relating to the young or immature form of an organism.
6. **Research** /rɪ'sɜ:rtʃ/ (noun): The systematic investigation into a subject to discover or revise facts.

Comprehension Questions

Multiple Choice

1. Who discovered that the rig shark can make clicking noises?

Option: Carolin Nieder

Option: David Smith

Option: Jennifer Brown



Option: Michael Johnson

2. What is unique about the rig shark's clicking noises?

Option: They are linked to feeding behaviors

Option: They are unintentional sounds

Option: They are the first known intentional sounds by a shark

Option: They are only heard during mating rituals

3. How did Nieder and her team confirm the sharks were making clicking noises?

Option: By observing them in their natural habitat

Option: By playing recorded sounds to them

Option: By bringing them to the lab and handling them

Option: By tagging them with sensors

4. Why do scientists suspect the rig sharks make clicking noises?

Option: For communication with other species

Option: As a defense mechanism or for hunting purposes

Option: To attract mates

Option: For echolocation

5. What potential application could the discovery of rig shark clicking noises have?

Option: Music production

Option: Monitoring shark populations

Option: Training sharks for entertainment

Option: Creating shark repellents

6. What does the finding about rig sharks reveal about our understanding of shark biology?

Option: Sharks are the only marine creatures that make sounds

Option: Sharks are not capable of intentional behaviors

Option: There are still unexplored aspects of shark biology

Option: Sharks are a threat to other marine species

True-False

7. Carolin Nieder conducted her research on sharks' hearing in Japan.

8. The rig shark clicking noises are primarily associated with mating rituals.



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9. The discovery of rig shark clicking noises could impact population monitoring.
 10. All sharks in the lab produced clicking noises when handled.
 11. Nieder and her team suspect the sharks make sounds by waving their fins.
 12. The rig shark is the only species of shark capable of making intentional sounds.

Gap-Fill

13. The discovery of rig shark clicking noises sheds light on a previously _____ aspect of shark biology.
14. If more sharks are found to produce sounds, these clicks could aid in monitoring their populations more _____.
15. Carolyn Nieder discovered the rig shark clicking noises during her research on sharks' _____ in New Zealand.
16. The rig shark clicking noises may serve as a defense _____ against predators.
17. The discovery of rig shark clicking sounds highlights how much we still have to learn about the underwater _____.
18. This finding about rig sharks opens up possibilities for future research in _____ biology.

Answer

Multiple Choice: 1. Carolin Nieder 2. They are the first known intentional sounds by a shark 3. By bringing them to the lab and handling them 4. As a defense mechanism or for hunting purposes 5. Monitoring shark populations 6. There are still unexplored aspects of shark biology
True-False: 7. False 8. False 9. True 10. True 11. False 12. True
Gap-Fill: 13. overlooked 14. effectively 15. hearing 16. mechanism 17. world 18. marine



Vocabulary quizzes

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

1. What term refers to the ability of an organism to resist a particular infection or toxin?
Option: Traits
Option: Resistance
Option: Potential
Option: Stable
2. What process involves mating selected organisms to produce specific desirable traits in the offspring?
Option: Chimera
Option: Graft
Option: Available
Option: Breeding
3. What term refers to the act of committing capital to an endeavor with the expectation of obtaining an additional income or profit?
Option: Shareholder
Option: Benefit
Option: Investment
Option: Revenue
4. What term refers to the process or system that is used to achieve a particular result?
Option: Delay
Option: Mechanism
Option: Shed
Option: Intended
5. What term describes someone who is dedicated and loyal to a cause activity or goal?
Option: Challenges
Option: Research
Option: Committed
Option: Bankruptcy
6. What term describes an animal that is young or not yet fully developed?
Option: Resign
Option: Sensitive
Option: Significant
Option: Juvenile
7. What term refers to a formal arrangement in which two or more parties cooperate to manage and



operate a business?

- Option: Potential
- Option: Partnership
- Option: Focus
- Option: Interest

8. What term refers to a situation when something takes longer than expected to happen or be completed?

- Option: Graft
- Option: Delay
- Option: Revenue
- Option: Available

9. What term describes something that is important or of consequence in a particular context?

- Option: Shareholder
- Option: Significant
- Option: Restructuring
- Option: Chimera

10. What term refers to the act of changing the structure or organization of something typically for better efficiency or profitability?

- Option: Stable
- Option: Research
- Option: Restructuring
- Option: Benefit

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

11. _____ in the project has been growing steadily since the announcement.

12. The company faced financial challenges and eventually went into _____ in 2019.

13. Is the new product model _____ for pre-order?

14. The company's _____ increased by 15% compared to the previous fiscal year.

15. Snakes _____ their skin periodically as they grow.

16. In Greek mythology a _____ is a creature with the head of a lion body of a goat and tail of a snake.



17. High customer demand resulted in a surge in _____ for the company.
18. The new research shows great _____ for the treatment of the disease.
19. We need to _____ on improving customer satisfaction to retain our clients.
20. The economy has been _____ for the past few quarters with steady growth.

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

21. The genetic makeup of an individual that influences specific characteristics or behaviors.
22. A horticultural technique that involves joining tissues from one plant to another.
23. A mutually beneficial business agreement between two or more parties.
24. An advantage or positive outcome obtained from a course of action or a situation.
25. The state of wanting to learn more about something or being involved in an activity.
26. An individual or institution that owns shares in a corporation entitling them to dividends.
27. The total income generated by a business through its normal operations.
28. The act of concentrating time and energy on a particular task or objective.
29. The process of reorganizing a company to make it more profitable or efficient.
30. Dedicated and devoted to a cause action or relationship.

Answer

Multiple Choice: 1. Resistance 2. Breeding 3. Investment 4. Mechanism 5. Committed 6. Juvenile 7. Partnership 8. Delay 9. Significant 10. Restructuring

Gap-Fill: 11. Interest 12. Bankruptcy 13. Available 14. Revenue 15. Shed 16. Chimera 17. Revenue 18. Potential 19. Focus 20. Stable

Matching sentence: 1. Traits 2. Graft 3. Partnership 4. Benefit 5. Interest 6. Shareholder 7. Revenue 8. Focus 9. Restructuring 10. Committed

CATEGORY

1. Sci/Tech - LEVEL2



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