



Hornets are the ultimate alcohol-tolerant creatures

Description

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An unusual hornet can drink alcohol without getting drunk. It eats fruits that ferment into alcohol, which is usually intoxicating. Other animals can't handle more than 4% ethanol, but these hornets can even survive on 80% ethanol solutions. Scientists believe that a gene in the hornets helps break down alcohol easily. This ability gives them an advantage when feeding on highly fermented foods. The hornets' relationship with brewer's yeast might also play a role in their tolerance for alcohol. This discovery shows that animals, like humans, can also enjoy alcohol.

Vocabulary List:

1. **Intoxicating** /ɪn'tɔːk.sɪ.keɪ.tɪŋ/ (adjective): Capable of causing impairment of physical and mental capabilities.
2. **Ethanol** /'iː.θə.nɒl/ (noun): A volatile flammable colorless liquid that is the active ingredient in alcoholic beverages.
3. **Survive** /sər'vaɪv/ (verb): To continue to live or exist especially in spite of danger or hardship.
4. **Fermented** /fər'men.tɪd/ (adjective): Having undergone fermentation a metabolic process that produces chemical changes in organic substrates often resulting in alcohol.
5. **Tolerance** /'tɒl.ər.əns/ (noun): The ability to endure continued exposure to something especially a drug or substance.
6. **Advantage** /əd'væŋ.tɪdʒ/ (noun): A condition or circumstance that puts one in a favorable or superior position.

Comprehension Questions

Multiple Choice

1. What is the name of the unusual hornet mentioned in the text?
Option: Asian giant hornet
Option: European hornet
Option: Oriental hornet
Option: Yellowjacket hornet
2. What type of foods do these hornets consume that lead to their alcohol tolerance?
Option: Vegetables
Option: Meat
Option: Fruits
Option: Nectar



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3. What percentage of ethanol solutions can the hornets survive on?
- Option: 20%
 - Option: 40%
 - Option: 60%
 - Option: 80%
4. What is believed to contribute to the hornets' tolerance for alcohol?
- Option: A specific gene
 - Option: Brewer's yeast
 - Option: Their color
 - Option: The type of fruits they eat
5. Which animal cannot handle more than 4% ethanol?
- Option: Oriental hornet
 - Option: Humans
 - Option: Yellowjackets
 - Option: Other animals
6. What advantage do these hornets have when consuming highly fermented foods?
- Option: Increased speed
 - Option: Extra energy
 - Option: Alcohol tolerance
 - Option: Resistance to diseases

True-False

7. The oriental hornet can drink alcohol without getting drunk.
8. The hornets' relationship with brewer's yeast does not affect their tolerance for alcohol.
9. Animals, like humans, cannot enjoy alcohol.
10. The gene in the hornets helps break down alcohol easily.
11. The ability of the hornets to handle high ethanol concentrations gives them an advantage.
12. Fermentation of fruits into alcohol is what makes these hornets unique.



Gap-Fill

13. The unusual hornet can even survive on _____ ethanol solutions.
14. The hornets' tolerance for alcohol may be attributed to a gene that helps break down alcohol _____.
15. The hornets' special relationship with brewer's yeast might play a role in their tolerance for alcohol. This yeast might also provide them with additional _____ for alcohol.
16. Animals, like humans, can also enjoy _____.
17. Other animals cannot handle more than 4% _____.
18. The discovery mentioned in the text implies that animals can possess a capacity for _____.

Answer

Multiple Choice: 1. Oriental hornet 2. Fruits 3. 80% 4. A specific gene 5. Other animals 6. Alcohol tolerance

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

Gap-Fill: 13. 80% 14. easily 15. tolerance 16. alcohol 17. ethanol 18. alcohol tolerance

Vocabulary quizzes

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

1. What is defined as false or inaccurate information?
Option: Unrest
Option: Influence
Option: Misinformation
Option: Intoxicating
2. What refers to the act of conducting criminal proceedings against someone?
Option: Advantages



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- Option: Fined
Option: Prosecutions
Option: Tumor
3. Which term relates to progressive damage or degradation of the nervous system?
Option: Translucent
Option: Vascular
Option: Fermented
Option: Neurodegenerative
4. What does the term "wrongdoing" refer to?
Option: Industry
Option: Competition
Option: Wrongdoing
Option: Advantage
5. What is the ability to withstand or endure something?
Option: Survive
Option: Tolerance
Option: Intoxicating
Option: Accusing
6. Which term means to express disapproval of someone or something?
Option: Advantages
Option: Criticize
Option: Harmful
Option: Taxation
7. What term relates to blood vessels or a system of vessels?
Option: Fined
Option: Legal
Option: Vascular
Option: Microstructure
8. What term refers to the exclusive possession or control of the supply of a product or service?
Option: Worries
Option: Competition
Option: Monopoly
Option: Operating
9. What term describes a process involving the chemical breakdown of a substance by bacteria yeasts or other microorganisms?
Option: Ethanol



- Option: Survive
- Option: Fermented
- Option: Advantages

10. What refers to something typically money awarded to someone in recognition of loss suffering or injury?

- Option: Competition
- Option: Compensation
- Option: Advantage
- Option: Taxation

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

- 11. _____ refers to a state of dissatisfaction disturbance and agitation in a community.
- 12. If an action complies with the law it is considered _____.
- 13. Having superior resources or position puts one at an _____ over competitors.
- 14. The system of imposing taxes is known as _____.
- 15. When someone blames or charges another person with a fault or crime they are _____ that person.
- 16. _____ effects can cause damage or negative consequences to individuals or society.
- 17. A monetary penalty imposed for breaking the law is known as a _____.
- 18. An abnormal mass of tissue can be classified as a _____.
- 19. A type of alcohol found in alcoholic beverages is _____.
- 20. The arrangement of small units such as cells or grains within a material defines its _____.

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

21. Rivalry between individuals or groups for a common objective or prize defines the term "competition."



22. The alcoholic beverage was so strong and that it immediately affected anyone who consumed it.
23. Power to affect others or events; the ability to have an impact is known as .
24. The explorers had to battle harsh conditions in order to in the wilderness.
25. Having multiple resources and capabilities is one of the of being well-prepared.
26. Persistent concerns or anxieties about potential problems are known as .
27. The company is currently in a highly competitive market striving to increase its market share.
28. The sector of the economy concerned with the production of goods and services is referred to as the .
29. The frosted glass was allowing some light to pass through but obscuring the view.
30. The mushroom's body emerged from the ground signaling its reproductive phase.

Answer

Multiple Choice: 1. Misinformation 2. Prosecutions 3. Neurodegenerative 4. Wrongdoing 5. Tolerance 6. Criticize 7. Vascular 8. Monopoly 9. Fermented 10. Compensation

Gap-Fill: 11. Unrest 12. Legal 13. Advantage 14. Taxation 15. Accusing 16. Harmful 17. Fine 18. Tumor 19. Ethanol 20. Microstructure

Matching sentence: 1. competition 2. intoxicating 3. influence 4. survive 5. advantages 6. worries 7. operating 8. industry 9. translucent 10. fruiting

CATEGORY

1. Sci/Tech - LEVEL1

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Author

aimeeyoung99