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# Lab-Grown Chicken Nuggets Made Possible by Fake Blood Vessels

## Description

Scientists are getting closer to making chicken nuggets in a lab. They are using tiny tubes that act like blood vessels. Up until now, lab-grown meat has only been thin strips. Making thicker pieces has been hard.

Researchers from The University of Tokyo found a way to solve this problem. They used hollow fibers to help the tissue grow better. These fibers make sure every cell gets what it needs.

The team created a 10-gram chicken nugget using this method. Tests showed that it had more protein, meaning it tasted better. This kind of meat is good for the environment and animal welfare.

However, there are still challenges to make lab-grown chicken nuggets available for everyone. Despite this, the research could lead to better ways of healing and even making new organs.

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## Vocabulary List:

1. **Nuggets** /'nʌɡɪts/ (noun): Small pieces or chunks of food often breaded and fried typically made from meat.
2. **Researchers** /rɪ'sɜːr.tʃərs/ (noun): Individuals who investigate or study a subject in detail to uncover new knowledge.
3. **Tissue** /'tɪʃ.uː/ (noun): A group of cells that work together to perform a specific function in an organism.
4. **Protein** /'prəʊ.tiːn/ (noun): A vital nutrient made up of amino acids essential for growth and repair in the body.
5. **Environment** /ɪn'vaɪ.rən.mənt/ (noun): The surroundings or conditions in which a person animal or plant lives or operates.
6. **Welfare** /'wɛl.fɛr/ (noun): The health happiness and fortunes of a person or group often referring to animal welfare.

## Comprehension Questions

### Multiple Choice

1. What type of tubes are scientists using to make chicken nuggets in a lab?

- Option: Tiny tubes like blood vessels
- Option: Plastic tubes
- Option: Metal tubes



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Option: Silicone tubes

2. What did researchers from The University of Tokyo use to improve tissue growth for lab-grown meat?

- Option: Hollow fibers
- Option: Metal rods
- Option: Plastic sheets
- Option: Silicone molds

3. How much did the chicken nugget created by the team weigh?

- Option: 10 grams
- Option: 20 grams
- Option: 5 grams
- Option: 15 grams

4. What benefit does the lab-grown chicken nugget have compared to conventional meat according to tests?

- Option: Higher protein content
- Option: Lower fat content
- Option: More carbs
- Option: Richer flavor

5. What could the research on lab-grown meat potentially lead to?

- Option: Better ways of healing
- Option: Increased cholesterol levels
- Option: Higher greenhouse gas emissions
- Option: Decreased food production

6. Which scientific journal published the study on lab-grown chicken nuggets?

- Option: Trends in Biotechnology
- Option: Science Daily
- Option: Nature Communications
- Option: Journal of Food Science

### True-False

7. Lab-grown meat has only been in thin strips before this new development.

8. The use of hollow fibers in tissue growth for lab-grown meat ensures each cell receives necessary



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nutrients.

9. Lab-grown meat is detrimental to the environment and animal welfare.
10. The creation of lab-grown chicken nuggets poses no challenges to making them available to the public.
11. Research on lab-grown meat has no potential applications beyond food production.
12. Making lab-grown meat involves no ethical considerations.

### Gap-Fill

13. The lab-grown chicken nugget created by the team weighed \_\_\_\_\_ grams.
14. According to tests, the lab-grown chicken nugget had more \_\_\_\_\_ content compared to conventional meat.
15. Despite challenges, the research on lab-grown meat could lead to better ways of \_\_\_\_\_.
16. Using hollow fibers in tissue growth for lab-grown meat ensures every cell receives necessary \_\_\_\_\_.
17. Lab-grown meat is considered good for the \_\_\_\_\_ and animal welfare.
18. The scientific journal \_\_\_\_\_ published the study on lab-grown chicken nuggets.

### Answer

**Multiple Choice:** 1. Tiny tubes like blood vessels 2. Hollow fibers 3. 10 grams 4. Higher protein content 5. Better ways of healing 6. Trends in Biotechnology

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

**Gap-Fill:** 13. 10 14. protein 15. healing and even making new organs 16. nutrients 17. environment 18. Trends in Biotechnology



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## Vocabulary quizzes

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

1. Who is involved in conducting advanced studies?  
Option: Geologists  
Option: Medical professionals  
Option: Engineers  
Option: Researchers
2. What are the components that make up a particular substance?  
Option: Ingredients  
Option: Experiences  
Option: Textures  
Option: Environment
3. What type of cells have the potential to develop into different cell types in the body?  
Option: Streaks  
Option: Tissue  
Option: Protein  
Option: Stem cells
4. What are difficulties or obstacles that need to be overcome?  
Option: Welfare  
Option: Immunity  
Option: Challenges  
Option: Neurons
5. What is the main ingredient in chocolate production?  
Option: Amplifying  
Option: Cocoa  
Option: Researchers  
Option: Disorders
6. What medical condition involves the growth of endometrial-like tissue outside the uterus?  
Option: Environment  
Option: Endometriosis  
Option: Stigma  
Option: Disorders
7. Which cells transmit information in the nervous system?



- Option: Cracks
- Option: Texture
- Option: Protein
- Option: Neurons

8. What activity involves the systematic investigation to establish facts or principles?

- Option: Research
- Option: Tissue
- Option: Protein
- Option: Environment

9. What are small chunks of valuable information or insights?

- Option: Influence
- Option: Nuggets
- Option: Signals
- Option: Disorders

10. What is the practice of avoiding extremes?

- Option: Amplifying
- Option: Moderation
- Option: Stigma
- Option: Ingredients

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

11. \_\_\_\_\_ plays a vital role in advancing knowledge and understanding in various fields.
12. People with mental health issues often face social \_\_\_\_\_.
13. Cells are organized into organs and \_\_\_\_\_ in the body.
14. Dietary sources of \_\_\_\_\_ are essential for muscle building and repair.
15. Vaccinations help strengthen the body's \_\_\_\_\_ against diseases.
16. Human activities can have a significant impact on the \_\_\_\_\_.
17. Peer pressure can have a powerful \_\_\_\_\_ on individual decision-making.
18. Genetic mutations can lead to various health \_\_\_\_\_.



19. \_\_\_\_\_ in the foundation of a building can indicate structural issues.
20. \_\_\_\_\_ gained through practical involvement is valuable in many professions.
21. The \_\_\_\_\_ of a product can determine its quality and appeal.

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

22. Scientists working on cutting-edge technology are often involved in research projects.
23. Some individuals experience discomfort and pain during their cycle.
24. The government introduced programs to ensure the _____ of its citizens.
25. Communication systems rely on the transmission of electronic _____.
26. Using a microphone helps _____ in sound for a large audience to hear.
27. The _____ of a fabric can determine its comfort and usability.
28. Overcoming a difficult obstacle can be seen as a personal _____.
29. Some minerals exhibit unique color under specific lighting conditions.
30. Medical professionals work to diagnose and treat various health _____.
31. The protection of the natural _____ is crucial for biodiversity conservation.

**Answer**

**Multiple Choice:** 1. Researchers 2. Ingredients 3. Stem cells 4. Challenges 5. Cocoa 6. Endometriosis 7. Neurons 8. Research 9. Nuggets 10. Moderation

**Gap-Fill:** 11. Research 12. Stigma 13. Tissue 14. Protein 15. Immunity 16. Environment 17. Influence 18. Disorders 19. Cracks 20. Experience 21. Content

**Matching sentence:** 1. Advanced 2. Menstrual 3. Welfare 4. Signals 5. Amplifying 6. Texture 7. Challenge 8. Streaks 9. Disorders 10. Environment

**CATEGORY**

- 1. Health - LEVEL2

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