



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.

Vocabulary List:

1. **Nuggets** /ˈnʌɡɪts/ (noun): Small pieces or chunks of food often breaded and fried typically made from meat.
2. **Researchers** /rɪˈsɜːr.tʃərs/ (noun): Individuals who investigate or study a subject in detail to uncover new knowledge.
3. **Tissue** /ˈtɪʃ.uː/ (noun): A group of cells that work together to perform a specific function in an organism.
4. **Protein** /ˈprəʊ.tiːn/ (noun): A vital nutrient made up of amino acids essential for growth and repair in the body.
5. **Environment** /ɪnˈvaɪ.rən.mənt/ (noun): The surroundings or conditions in which a person animal or plant lives or operates.
6. **Welfare** /ˈwel.fər/ (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



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



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

CATEGORY

1. Health - LEVEL2



Date Created

2025/04/18

Author

aimeeyoung99

ESL-NEWS.COM