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# New technology prepares ready-to-use cancer immunotherapy for clinical use

## Description

### New Technology to Revolutionize Cancer Treatment

Immunotherapy has transformed cancer treatment by utilizing the body's immune system to combat cancer cells. However, the personalized nature of these therapies leads to high costs and delays in treatment. To address these challenges, UCLA researchers have developed a new method to enhance immune cells known as iNKT cells for a universal cancer treatment. This breakthrough technology, detailed in a recent study published in Nature Biotechnology, aims to make cell therapies more affordable and accessible. Senior author Lili Yang highlights the significance of this advancement and the potential for a clinical trial. The research team successfully engineered iNKT cells to target various cancers, showcasing their effectiveness. With plans to progress to human trials for multiple myeloma and ovarian cancer, this innovation could pave the way for more widespread and affordable cancer immunotherapy.

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## Vocabulary List:

1. **Immunotherapy** // (noun): Treatment that uses the body's own immune system to fight diseases like cancer.
2. **Personalized** // (adjective): Tailored to fit or conform to an individual's preferences or needs.
3. **Universal** // (adjective): Applicable to all cases or instances.
4. **Breakthrough** // (noun): An important discovery or development that leads to significant progress.
5. **Affordable** // (adjective): Priced reasonably within one's financial means.
6. **Accessible** // (adjective): Capable of being easily obtained or reached.

## Vocabulary quizzes

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

1. Which term is used to describe the new product launch?  
Option: Unveiled  
Option: Enhances  
Option: Biomedical  
Option: Revolutionizing
2. What type of treatment boosts the body's natural defenses to fight cancer?  
Option: Affordable  
Option: Immunotherapy  
Option: Sustainability  
Option: Predicting
3. Which term describes the ongoing progress in the field?  
Option: Funded  
Option: Universal  
Option: Advancing  
Option: Sustainability
4. Which term signifies a significant innovation?  
Option: Tracing  
Option: Breakthrough  
Option: Universal  
Option: Groundbreaking
5. What characteristic makes the product accessible to a wide range of consumers?  
Option: Recognition



- Option: Advancing
- Option: Affordable
- Option: Innovative

6. Which term describes the approach as fresh and creative?

- Option: Implants
- Option: Recognition
- Option: Innovative
- Option: Sustainability

7. What have the accomplishments led to in the industry?

- Option: Inspire
- Option: Recognition
- Option: Embarked
- Option: Immunotherapy

8. Which term best describes the impact of the new technology?

- Option: Revolutionizing
- Option: Predicting
- Option: Operational
- Option: Immunotherapy

9. Which term relates to the field of science integrating biology and medicine?

- Option: Biomedical
- Option: Perseverance
- Option: Revolutionizing
- Option: Recognition

10. Which term denotes long-term viability and ecological balance?

- Option: Operational
- Option: Sustainability
- Option: Ultrasonic
- Option: Accomplishments

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

11. The newly funded project will enhance research \_\_\_\_\_.

12. The advancement in technology allows for \_\_\_\_\_ treatment plans for patients.

13. The company has \_\_\_\_\_ since the new CEO took over.



14. The study focuses on the impact of human activities on the \_\_\_\_\_ ecosystem.
15. The research team \_\_\_\_\_ on a journey to discover new treatments.
16. The \_\_\_\_\_ of the scientists led to significant breakthroughs.
17. The team's hard work and dedication resulted in remarkable \_\_\_\_\_.
18. The model is capable of accurately \_\_\_\_\_ future trends in the market.
19. The new software \_\_\_\_\_ user experience and productivity.
20. The industry has become more \_\_\_\_\_ due to recent innovations.

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

21. The medical device uses waves to detect abnormalities in tissues.
22. The new drug was termed a major in cancer treatment.
23. The technology enables precise of the origin of contaminated products.
24. The company aims to provide a solution accessible to all users.
25. The scientist's led to a successful outcome after years of research.
26. The team's innovation is expected to others in the industry.
27. The new funding will go towards upgrading research .
28. The latest software update significantly productivity.
29. The company is known for its approach to product development.
30. The goal is to improve the of healthcare services to all communities.

**Answer**

**Multiple Choice:** 1. Unveiled 2. Immunotherapy 3. Advancing 4. Groundbreaking 5. Affordable 6. Innovative 7. Recognition 8. Revolutionizing 9. Biomedical 10. Sustainability

**Gap-Fill:** 11. Facilities 12. Personalized 13. Operational 14. Bioenvironmental 15. Embarked 16. Determination



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17. Accomplishments 18. Predicting 19. Enhances 20. Competitive

**Matching sentence:** 1. Ultrasonic 2. Breakthrough 3. Tracing 4. Universal 5. Perseverance 6. Inspire 7. Facilities 8. Enhances 9. Innovative 10. Accessibility

**CATEGORY**

1. Sci/Tech - LEVEL1

**Date Created**

2024/05/16

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