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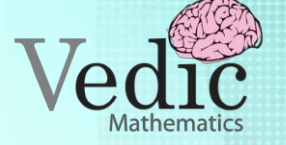
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Biotechnology & Health:

Biotechnology Innovations

Fertility Preservation for Cancer Patients: Researchers at the International Centre for Genetic Engineering and Biotechnology (ICGEB) in Trieste, Italy, announced a collaborative study on a novel strategy to preserve the fertility of pediatric cancer patients. The approach involves using integrated bioengineering and cell therapy techniques.

Microbial-based Cancer Therapy: A study on Kenyan fig trees revealed that they use microbes to turn parts of themselves into limestone-like deposits, which lock away carbon and sweeten the soil. This research hints at a potential new "weapon" in fighting climate change. While not a direct health application, this discovery showcases the potential of microbial biotechnology.

Pharmaceutical and Clinical News

Dystrophic Epidermolysis Bullosa (DEB) Treatment: Krystal Biotech announced that its drug, VYJUVEK, was approved by Japan's Ministry of Health, Labour and Welfare for treating DEB in patients from birth. This approval allows for at-home dosing and marks a significant step toward making the treatment more accessible.

HIV Research: Researchers have made a scientific breakthrough in developing an "induce and reduce" strategy to target latent HIV reservoirs. A new class of drugs called IAP inhibitors was studied, which could potentially reactivate hidden HIV and make it visible to the immune system.

Biotech Funding: The investment landscape in the biotech sector was a major topic, with a report indicating that biotech startup funding had plummeted in the second quarter of 2025. This was attributed to market trends and geopolitical factors.

Public Health and Policy

National Center for Biotechnology Information (NCBI) Updates: The NCBI announced several upcoming changes, including enhanced ClinVar search capabilities and a redesign of their gene pages to improve user experience and data access.

Importance of Maternal Diet: The National Institutes of Health (NIH) announced an upcoming trial to test whether a mother's diet, specifically the consumption of peanuts and eggs during pregnancy and breastfeeding, can prevent early signs of food allergies in babies.

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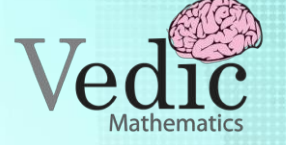
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- A. Vyjuvek
- B. Zolgensma
- C. Luxturna
- D. Strimvelis

Answer: A. Vyjuvek

Krystal Biotech's drug, VYJUVEK, received approval from Japan's Ministry of Health, Labour and Welfare for treating Dystrophic Epidermolysis Bullosa (DEB). This approval is significant as it allows for convenient at-home dosing, improving patient access to the treatment.

3. What was the focus of the upcoming trial announced by the National Institutes of Health (NIH)?
- A. The effect of exercise on preventing chronic diseases.
 - B. Testing a mother's diet to prevent food allergies in babies.
 - C. The development of a new vaccine for the flu.
 - D. A study on the impact of air pollution on respiratory health.

Answer: B. Testing a mother's diet to prevent food allergies in babies.

The National Institutes of Health (NIH) announced an upcoming trial to investigate whether a mother's diet, specifically the consumption of peanuts and eggs during pregnancy and breastfeeding, could help prevent early signs of food allergies in their babies.

MCQS

1. What new class of drugs was studied in HIV research to target latent HIV reservoirs by reactivating hidden HIV?

- A. Antiretrovirals
- B. IAP inhibitors
- C. CRISPR-Cas9
- D. Immunomodulators

Answer: B. IAP inhibitors

The news reported a scientific breakthrough in HIV research involving a new class of drugs called IAP inhibitors. These inhibitors were studied as part of an "induce and reduce" strategy to reactivate hidden HIV, making it visible and susceptible to the immune system.

2. Which drug was approved by Japan's Ministry of Health, Labour and Welfare for treating Dystrophic Epidermolysis Bullosa (DEB)?





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