

Biotechnology & Health:

Vaccines & Immunotherapies

Russian Cancer Vaccine: A new mRNA-based cancer vaccine, Enteromix, developed in Russia, has reportedly shown 100% efficacy and safety in preclinical trials. The vaccine, which is personalized to each patient's RNA, is now ready for clinical use and initially targets colorectal cancer.

Indian Vaccine Development: At the India MedTech Expo 2025, the Indian Council of Medical Research (ICMR) licensed nine health technologies, including a multistage malaria vaccine and diagnostic kits for infectious diseases like Japanese Encephalitis, Dengue, and Chikungunya. These agreements aim to make homegrown medical technologies more accessible and affordable.

Atopic Dermatitis Therapy: Amgen and Kyowa Kirin announced preliminary top-line results from the Phase 3 ASCEND study for rocatinlimab, a T-cell rebalancing therapy for moderate to severe atopic dermatitis. The drug showed sustained therapeutic benefits for up to one year, with potential for maintenance dosing every eight weeks.

India's Measles-Rubella Campaign: A special measles-rubella vaccination campaign is set to be implemented in India's Nagpur district from September 15-30. The campaign is part of the government's goal to eliminate measles and rubella from the country by 2026.

Biotechnology & Clinical Research

Bone Health Treatment: BioMarin shared new data on its drug VOXZOGO, which treats

achondroplasia, a form of dwarfism. The data from clinical studies showed that the drug positively impacts spinal morphology and bone density, potentially reducing complications like spinal stenosis.

Exoplanet Atmosphere Study: The James Webb Space Telescope (JWST) has begun examining the atmosphere of the exoplanet TRAPPIST-1e. Early observations suggest the planet may not have retained its original atmosphere due to powerful flaring from its star.

New Health & Tech Innovations: The Healthark RWEsearch & Health Innovation Summit 2025 is underway, focusing on the integration of artificial intelligence (AI) and real-world evidence (RWE) in healthcare. Discussions are centered on topics like diversity in clinical trials and validating AI-driven data.

Lung Cancer Immunotherapy: MAIA Biotechnology announced a poster presentation for their abstract on ateganosine (THIO), a targeted immunotherapy for non-small cell lung cancer (NSCLC). The abstract highlights the drug's durability and efficacy in patients who have not responded to previous treatments.

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MCQS

1: What type of cancer does the new Russian mRNA-based vaccine, Enteromix, initially target?

- A) Lung cancer
- B) Colorectal cancer
- C) Breast cancer
- D) Skin cancer

Answer: B) Colorectal cancer

The news states, "The vaccine... is now ready for clinical use and initially targets colorectal cancer."

2: What is the name of the drug from Amgen and Kyowa Kirin that showed sustained benefits for atopic dermatitis in a Phase 3 study?

- A) VOXZOGO
- B) Enteromix
- C) ateganosine
- D) rocatinlimab

Answer: D) rocatinlimab

The summary mentions that Amgen and Kyowa Kirin announced results for "rocatinlimab, a T-cell rebalancing therapy for moderate to severe atopic dermatitis."

3: What is the main goal of India's special measles-rubella vaccination campaign in the Nagpur district?

- A) To treat existing cases of measles and rubella.
- B) To test a new vaccine for the diseases.
- C) To eliminate measles and rubella from the country by 2026.
- D) To vaccinate all children under the age of five in the district.

Answer: C) To eliminate measles and rubella from the country by 2026.

The news states that the campaign is part of the government's goal to "eliminate measles and rubella from the country by 2026."

4: The drug VOXZOGO, from BioMarin, is a treatment for which medical condition?

- A) Atopic dermatitis
- B) Achondroplasia (a form of dwarfism)
- C) Lung cancer
- D) Malaria

Answer: B) Achondroplasia (a form of dwarfism)

The summary states that BioMarin's drug VOXZOGO "treats achondroplasia, a form of dwarfism."

5: What new topic is the Healthark RWEsearch & Health Innovation Summit 2025 focusing on?





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- A) The use of gene editing in medicine.
B) The integration of AI and real-world evidence (RWE) in healthcare.
C) The development of new surgical tools.
D) The impact of climate change on public health.

Answer: B) The integration of AI and real-world evidence (RWE) in healthcare.

The news reports that the summit is "focusing on the integration of artificial intelligence (AI) and real-world evidence (RWE) in healthcare."

6: What type of cancer does the immunotherapy drug ateganosine (THIO) target?

- A) Colorectal cancer
B) Non-small cell lung cancer (NSCLC)
C) Leukemia
D) Breast cancer

Answer: B) Non-small cell lung cancer (NSCLC)
Explanation: The summary notes that ateganosine (THIO) is a "targeted immunotherapy for non-small cell lung cancer (NSCLC)."



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