

## Biotechnology & Health:

### Indian Biotechnology & Health

On the legislative front, the Rajasthan Assembly has passed the Rajasthan University of Health Sciences (Amendment) Bill, 2025. This bill aims to establish the Rajasthan Institute of Medical Sciences (RIMS) in Jaipur, which will offer super-specialty medical services and serve as an autonomous institution similar to AIIMS in New Delhi. The new institute is expected to be fully operational in two years.

In research and development, the National Agri-Food Biotechnology Institute (NABI) in Mohali celebrated the first anniversary of a national initiative with key officials from the Department of Biotechnology and the Department of Science, Technology, and Environment. Researchers at NABI showcased a new mobile-based device capable of detecting food-poisoning bacteria in just two hours and highlighted progress in developing climate-resilient crops using gene editing tools like CRISPR.

### Global Biotechnology & Health

Several companies are presenting at the Cantor Global Healthcare Conference 2025 on September 4. Among them are Biogen and Krystal Biotech, with Krystal Biotech showcasing its genetic medicines and commercial product, VYJUVEK®, the first-ever redosable gene therapy.

A new version of the BIOSECURE Act has been reintroduced in the U.S. Congress. This amended bill aims to prohibit federal agencies from contracting with or using biotechnology equipment or services from "biotechnology

companies of concern," primarily those on the U.S. Department of Defense's "List of Chinese Military Companies." The bill, if passed, would include a five-year grandfathering window for existing contracts and a new waiver program for national security interests.

In Australia, the Monash University biotech company xCystence Bio received top-up funding from the CUREator incubator to advance therapeutics for Polycystic Kidney Disease (PKD). The funding will help the company progress its new drug family toward clinical development.

### Conferences and Events

Today, September 4, 2025, marks the official opening of Thailand LAB INTERNATIONAL 2025 in Bangkok. The three-day event, which also includes BioAP INTERNATIONAL, FutureCHEM INTERNATIONAL, and Health & Innovation Asia, focuses on fostering a dynamic ecosystem for laboratory technology, biotechnology, chemicals, and healthcare. The conference is a key platform for showcasing innovations and promoting collaboration in the ASEAN region.

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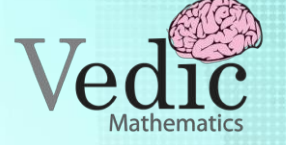
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### MCQS

1.What is the primary purpose of the Rajasthan University of Health Sciences (Amendment) Bill, 2025?

- a) To increase funding for existing medical colleges in Rajasthan.
- b) To establish a new university focused on health sciences.
- c) To create the Rajasthan Institute of Medical Sciences (RIMS) as a super-specialty, autonomous institution.
- d) To regulate private medical practices in the state.

**Answer:** c) To create the Rajasthan Institute of Medical Sciences (RIMS) as a super-specialty, autonomous institution.

The bill specifically aims to establish RIMS in Jaipur. This new institute will offer super-specialty medical services and operate as an autonomous body, similar to AIIMS in New Delhi, as stated in the text.

2.Which of the following is an achievement highlighted by researchers at the National Agri-Food Biotechnology Institute (NABI)?

- a) The development of a new vaccine for food poisoning.
- b) A mobile device that detects food-poisoning bacteria in two hours.
- c) A new method for purifying water in rural areas.
- d) The creation of a genetically modified food that is immune to all diseases.

**Answer:** b) A mobile device that detects food poisoning bacteria in two hours.

The text mentions that NABI researchers showcased a new mobile-based device capable of detecting food-poisoning bacteria quickly. They also highlighted progress in developing climate-resilient crops using gene-editing tools.

3.What is a key feature of the recently reintroduced BIOSECURE Act in the U.S. Congress?

- a) It provides new funding for biotechnology companies in the U.S.
- b) It prohibits federal agencies from contracting with "biotechnology companies of concern."
- c) It mandates that all federal contracts be awarded to U.S.-based companies.
- d) It imposes a 10-year grandfathering window for existing contracts.







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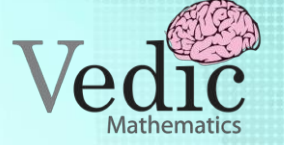
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**Answer:** b) It prohibits federal agencies from contracting with "biotechnology companies of concern."

The amended bill aims to prohibit federal agencies from using biotechnology equipment or services from certain companies, specifically those on the U.S. Department of Defense's "List of Chinese Military Companies," which are categorized as "biotechnology companies of concern."

**4. What is the purpose of the funding received by xCystence Bio from the CUREator incubator?**

- a) To purchase new laboratory equipment.
- b) To hire additional researchers.
- c) To advance therapeutics for Polycystic Kidney Disease (PKD) toward clinical development.
- d) To expand their operations into new countries.

**Answer:** c) To advance therapeutics for Polycystic Kidney Disease (PKD) toward clinical development.

The funding is intended to help the company progress its new drug family for PKD toward clinical development, as mentioned in the text.

**5. Which of the following events is NOT part of the Thailand LAB INTERNATIONAL 2025 conference?**

- a) BioAP INTERNATIONAL
- b) FutureCHEM INTERNATIONAL
- c) Health & Innovation Asia
- d) The Cantor Global Healthcare Conference

**Answer:** d) The Cantor Global Healthcare Conference

The text states that Thailand LAB INTERNATIONAL 2025 includes BioAP INTERNATIONAL, FutureCHEM INTERNATIONAL, and Health & Innovation

Asia. The Cantor Global Healthcare Conference is a separate event mentioned in the "Global Biotechnology & Health" section.

**6. What is a key focus of the Thailand LAB INTERNATIONAL 2025 conference?**

- a) Promoting tourism in Bangkok.
- b) Showcasing innovations in laboratory technology, biotechnology, and healthcare.
- c) Negotiating international trade agreements.
- d) Discussing global climate change initiatives.

**Answer:** b) Showcasing innovations in laboratory technology, biotechnology, and healthcare.

The conference is described as a "key platform for showcasing innovations and promoting collaboration" in the fields of laboratory technology, biotechnology, chemicals, and healthcare.

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