

Biotechnology & Health:

1. New Center for Precision Healthcare in India

An advanced Center of Excellence in precision and personalized healthcare has been inaugurated at the IIT Delhi research and innovation park. This new center is a major boost to India's medical innovation ecosystem. It will focus on accelerating the translation of high-impact research into market-ready solutions and will use AI to drive breakthroughs.

The initial focus areas for the center include:

Personalized medicine and AI diagnostics.

Assistive technology for the elderly and differently-abled.

Affordable and personalized implants and wearables.

New diagnostic solutions.

The goal is to create a collaborative ecosystem between academia, industry, and government agencies to improve patient outcomes and position India as a global leader in healthcare innovation.

2. Potential Link Between Viruses and Cancer Relapse

A new study has revealed that common respiratory viruses can awaken dormant breast cancer cells in the lungs, increasing the risk of relapse. The research, published in Nature, indicates that these viral infections create an immune-driven pathway that reactivates the cancer cells. This discovery could lead to new strategies for preventing cancer recurrence.

3. Advancements in CAR T-cell Therapies

CARsgen Therapeutics has announced positive interim results for its 2025 financial year, highlighting significant progress in CAR T-cell therapies. The company's new drug application for satri-cel, a CAR T-cell therapy targeting solid tumors, has been accepted for review in China. Additionally, the company is advancing multiple allogeneic CAR T-cell products to treat hematologic malignancies, solid tumors, and autoimmune diseases.

4. New Oral Drug for Cancer Treatment

Bayer has entered into a major collaboration with Kumquat Biosciences, committing up to \$1.3 billion for the rights to an experimental cancer therapy. The therapy targets the KRAS^{G12D} mutation, which is found in about 38% of pancreatic cancers. This mutation was once considered "undruggable," and this partnership underscores the high stakes and potential of this next wave of oncology research.

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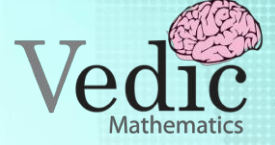
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1. Where has the new Center of Excellence in precision and personalized healthcare been inaugurated?

- A) IIT Bombay
- B) IIT Delhi
- C) AIIMS Delhi
- D) IISc Bangalore

Answer: B) IIT Delhi

The news states that an advanced Center of Excellence in precision and personalized healthcare has been inaugurated at the IIT Delhi research and innovation park.

2. Which of the following is NOT an initial focus area for the new Center of Excellence?

- A) Personalized medicine and AI diagnostics
- B) Space exploration and satellite technology

- C) Assistive technology for the elderly and differently-abled
- D) Affordable and personalized implants and wearables

Answer: B) Space exploration and satellite technology

The news lists personalized medicine, assistive technology, and implants/wearables as initial focus areas. Space exploration is not mentioned.

3. According to a new study, what can awaken dormant breast cancer cells in the lungs and increase the risk of relapse?

- A) A poor diet
- B) Common respiratory viruses
- C) Lack of exercise
- D) Genetic mutations

Answer: B) Common respiratory viruses

The news states that a study revealed that common respiratory viruses can awaken dormant breast cancer cells in the lungs, increasing the risk of relapse.

4. What is the name of the CAR T-cell therapy targeting solid tumors that has been accepted for review in China?

- A) satri-cel
- B) Kumquat-cel
- C) Bayer-cel
- D) CARsgen-cel

Answer: A) satri-cel

The news mentions that CARsgen Therapeutics' new drug application for satri-cel, a CAR T-cell therapy targeting solid tumors, has been accepted for review in China.

5. The new experimental cancer therapy from Bayer and Kumquat Biosciences is targeting which specific mutation?

- A) KRAS^{G12D}





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- B) HER2
- C) BRCA1
- D) EGFR

Answer: A) KRAS^{G12D}

The news states that the experimental cancer therapy targets the KRAS^{G12D} mutation, which is found in about 38% of pancreatic cancers.

6. What is the main goal of the new Center of Excellence in India?

- A) To develop new satellites
- B) To create a collaborative ecosystem for healthcare innovation
- C) To focus exclusively on government-funded research
- D) To manufacture pharmaceuticals for global export

Answer: B) To create a collaborative ecosystem for healthcare innovation

The news says the goal is to create a collaborative ecosystem between academia, industry, and government agencies to improve patient outcomes and position India as a global leader in healthcare innovation.



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