



Society of Biotechnology of India

Why in News

Recently, the **Society of Biotechnology of India (SBPI)** was launched by former biotechnologists and technocrats of the **Union Department of Biotechnology, Ministry of Science and Technology**.

Key Points

- It is a **non-profit organisation**.
- It would **promote transformation changes** and approaches towards **core research in modern biotechnology** so that the outcome could lead to more products and technologies for economic and social gain.
- It would complement India's efforts towards **enhancing research funding of "gap areas"** in infrastructure, human resources, regulatory frameworks and converting research and development leads into applications.
- **Members** of the SBPI have experience in promoting biotechnology in areas such as **BT cotton**, introduction of recombinant therapeutic proteins and vaccines and fostering international collaborations.

Recombinant Therapeutic Proteins

- These are **produced from recombinant DNA** using **biomolecular engineering**, which involves inserting the gene encoding of a protein into expression systems such as bacteria, yeast or mammalian cells cultures.
- Recombinant therapeutic proteins have gained importance for clinical applications and they have replaced the original animal-derived version used in medicine.
- Therapeutic proteins are quite **diverse in the application treatments** such as human insulin for diabetes, erythropoietin for anemia and chronic renal failure, vaccines for Hepatitis B etc.

Source: TH

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