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Daily Current Affairs Encyclopedia

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National and International News

INDIA- VIETNAM JOINT MILITARY EXERCISE VINBAX	 Context: The 5th edition of the Vietnam-India Bilateral Army Exercise (VINBAX) 2024 commenced on November 4, 2024, at Ambala, Haryana. Key points: This edition marks a significant increase in scope with Bi-Service level participation for the first time by personnel of the Army and Air Force from both countries. The exercise will be held from November 4 to 23 at Ambala and Chandimandir. The aim of VINBAX is to enhance the joint military capability of both countries.
Europe's Proba-3 mission to arrive in India for launch aboard PSLV-XL by Isro	 Europe's Proba-3 mission, comprising two satellites, is set to arrive in India for its launch aboard ISRO's PSLV-XL rocket in December 2024. The mission aims to study the Sun's corona by creating an artificial solar eclipse, allowing for continuous observation of this crucial region. This collaboration between ESA and ISRO marks a significant milestone in international space cooperation and showcases India's growing role in global space exploration. About: Proba-3 is a groundbreaking mission by the European Space Agency (ESA) aimed at demonstrating highly precise satellite formation flying. It comprises two small satellites that will separate and fly in
	 tandem, creating an artificial solar eclipse to study the Sun's faint corona. This innovative approach allows for continuous observation of the corona, which is usually only visible during brief moments of total solar eclipses. The mission will also validate advanced technologies like relative GPS navigation and autonomous formation flying, paving the way for future complex space missions
IL-35-Mediated Immunotherapy	Context: ■ Researchers have discovered a specific protein called







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	 IL-35 that can protect the immune system by lowering particular immune cells that produce inflammatory chemicals. This, in turn, reduces pancreatic cell infiltration, a key contributor in type 1 and autoimmune diabetes mellitus. IL-35 presents a novel treatment option for diabetes, offering hope for the growing global diabetes epidemic, especially among children and adolescents in developing countries.
	 IL-35: Interleukin-35 (IL-35) is a recently discovered cytokine with potent immunosuppressive properties. It plays a crucial role in maintaining immune tolerance and preventing autoimmune diseases. IL-35-mediated immunotherapy is an emerging field that aims to harness the power of this cytokine to treat various immune-related disorders.
	How it Works: IL-35 promotes the generation and function of regulatory T cells (Tregs), a specialized subset of T cells that suppress immune responses. It inhibits the activation and proliferation of inflammatory T cells. It reduces the production of pro-inflammatory cytokines.
	 Diabetes: Approximately 1 in 10 adults worldwide have diabetes, and over 90% of them have type 2 diabetes. There are two main types of diabetes: type 1 and type 2. Type 1 diabetes: It is an autoimmune disease that causes the body to attack and destroy the insulin-producing cells in the pancreas. Type 2 diabetes: It is the most common form of diabetes and is caused by a combination of genetic and environmental.
	Note: • World Diabetes Day was established in 1991 by the International Diabetes Federation (IDF) with support from the World Health Organization (WHO). • It became an official United Nations Day in 2006.
Aditya-L1	Context: • The first significant results from the Visible Emission Line Coronagraph (VELC) payload onboard India's Aditya-L1 solar mission have been unveiled. • The VELC instrument successfully captured data allowing scientists to estimate the precise onset time of a

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coronal mass ejection (CME) from the Sun.

About:

- Aditya-L1 is India's first space-based mission to study the Sun.
- It was launched by the Indian Space Research Organisation (ISRO) on September 2, 2023, and is positioned in a halo orbit around the Lagrange point 1 (L1) of the Sun-Earth system, approximately 1.5 million kilometers from Earth.

Key Objectives:

- Study of the Sun's atmosphere: Aditya-L1 carries seven payloads to observe the Sun's chromosphere and corona, focusing on solar activities and their impact on space weather.
- Real-time monitoring: Its location at L1 provides continuous viewing of the Sun without any interruptions, enabling real-time monitoring of solar activities.

Global cleantech market to grow to \$2 trillion by 2035

Context:

• The global clean technology market is set to experience significant growth, reaching a value of \$2 trillion by 2035.

Key points:

- This surge is driven by increasing global focus on sustainability and the transition towards renewable energy sources.
- Key clean technologies such as solar energy, wind power, electric vehicles, and battery storage are expected to play a major role in this growth.
- This expansion presents substantial opportunities for businesses, investors, and policymakers alike, while also posing challenges related to supply chain management, technological advancements, and policy frameworks

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