



25 September 2024

National and International News

<p>India's Comprehensive Cancer Data Portal</p>	<p>Context:</p> <ul style="list-style-type: none"> The Indian Cancer Genome Atlas (ICGA) has introduced India's first comprehensive cancer multi-omics data portal. <p>Key Features of the Portal:</p> <ul style="list-style-type: none"> India's First Cancer Multi-Omics Data Portal: The platform provides detailed multi-omics data (DNA, RNA, and protein profiles) for breast cancer patients, integrated with clinical outcomes. Initial Dataset: Currently, the portal hosts data from 50 breast cancer patients, with plans to expand to over 500 in the next year. Free Access under PRIDE Guidelines: The portal adheres to ethical data-sharing practices and is freely accessible to the global scientific community. Based on cBioPortal: Derived from the internationally recognized cBioPortal, this ensures seamless integration with global cancer research. Step Toward Precision Oncology: The initiative supports the development of personalized cancer treatments tailored specifically to Indian patients. <p>ICGA:</p> <ul style="list-style-type: none"> The ICGA was launched in 2020-21, inspired by the success of the U.S.-based The Cancer Genome Atlas (TCGA), which has molecularly characterized thousands of cancer samples.
<p>Integrated Development of Wildlife Habitats</p>	<p>Context:</p> <ul style="list-style-type: none"> On September 11, 2024, the Cabinet approved the continuation of the Centrally Sponsored Scheme for Integrated Development of Wildlife Habitats. <p>Key points:</p> <ul style="list-style-type: none"> This scheme is allocated a total outlay of ₹2,602.98 crores for the 15th Finance Commission cycle. Key components of the scheme include Project Tiger, Project Elephant, and the Development of Wildlife Habitat, all of which are integral to the government's 100-day action plan. <p>About:</p> <ul style="list-style-type: none"> The Integrated Development of Wildlife Habitats (IDWH) is a



Daily Current Affairs Encyclopedia

	<p>Centrally Sponsored Scheme introduced by the Government of India during the 11th Plan period.</p> <ul style="list-style-type: none"> • Its primary objective is to provide technical and financial assistance to States/UTs for the conservation of natural wildlife habitats.
<p>Hilsa Fish</p>	<p>Context:</p> <ul style="list-style-type: none"> • Bangladesh has decided to lift its export ban on hilsa fish, allowing the shipment of 3,000 tonnes to India in time for Durga Puja, which will be held from October 9 to 13. <p>Key points:</p> <ul style="list-style-type: none"> • Hilsa holds special cultural importance among Bengalis, especially during Durga Puja. • Bangladesh traditionally restricts hilsa exports but has made exceptions for India during this festival as a goodwill gesture. • Bangladesh is the leading global producer of hilsa fish. <p>About:</p> <ul style="list-style-type: none"> • Hilsa fish, also known as ilish or hilsa herring (Tenualosa ilisha), is a highly prized species of fish in the Indian subcontinent, particularly in Bangladesh and India. • Scientific Classification: Hilsa belongs to the family Clupeidae and is classified under the genus Tenualosa. It is recognized for its silvery body, distinctive flavor, and oily texture. • Habitat: Hilsa is an anadromous fish, meaning it migrates from the ocean to freshwater rivers for spawning. It is primarily found in the Bay of Bengal and the river systems of the Ganges, Brahmaputra, and Meghna. • Conservation status <ul style="list-style-type: none"> ○ IUCN: Least Concern
<p>Pashima Shawl</p>	<p>Context:</p> <ul style="list-style-type: none"> • Prime Minister Narendra Modi, after the Quad Leaders' Summit during his US visit, presented symbolic gifts to US President Joe Biden and First Lady Jill Biden. <p>About:</p> <ul style="list-style-type: none"> • PM Modi presented a traditional pashmina shawl to First Lady Jill Biden. • This exquisite shawl, produced in Jammu and Kashmir, is made from the fine fiber of the Changthangi goat, native to Ladakh. • The wool, known as 'Pashm', is hand-combed and spun into yarn using age-old techniques passed down through generations. • The shawl is dyed with natural colors derived from local plants and minerals, showcasing the region's rich artisanal heritage. • The shawl was presented in a papier-mâché box, also crafted by artisans from Jammu and Kashmir, emphasizing the beauty



Daily Current Affairs Encyclopedia

	<p>and functionality of traditional Indian crafts.</p> <p>Antique Silver Train Model:</p> <ul style="list-style-type: none"> • PM Modi gifted a rare silver train model to President Joe Biden. • The model was handcrafted by artisans from Maharashtra, showcasing intricate repoussé (hammering) techniques and filigree work. • Made of 92.5% silver, the model highlights the steam locomotive era and the artistry of Indian craftsmen. • The train bears the inscription "Delhi-Delaware," symbolizing the connection between the two regions and honoring Biden's hometown, where the Quad summit took place. • The gift signifies the importance of India-US relations, referred to as the "defining partnership of the 21st century."
<p>Vancomycin</p>	<p>Context:</p> <ul style="list-style-type: none"> • Vancomycin has been the preferred treatment for MRSA for the past 40 years, with rare cases of resistance (only 16 reported in India). • Recent research indicates that MRSA(Methicillin-resistant Staphylococcus aureus) may develop resistance to this antibiotic, raising concerns about the long-term viability of vancomycin as a treatment option. <p>AMR:</p> <ul style="list-style-type: none"> • Antimicrobial resistance (AMR) is a significant challenge in modern medicine, with Staphylococcus aureus being a key player. • Methicillin-resistant Staphylococcus aureus (MRSA) caused over 100,000 deaths in 2019 and is known for resisting multiple antibiotics. <p>Staphylococcus aureus (S. aureus):</p> <ul style="list-style-type: none"> • Common bacterium found on human and animal skin and mucous membranes • Can cause a wide range of infections, from minor skin issues to severe diseases • Possesses various virulence factors that contribute to its pathogenicity <p>Characteristics:</p> <ul style="list-style-type: none"> • Gram-positive, spherical (cocci) bacteria in grape-like clusters • Non-motile, non-spore forming • Facultatively anaerobic (can grow in both aerobic and anaerobic conditions) • Catalase-positive and coagulase-positive



മലയാളം

ADDAPEDIA

To get free Live Classes,
Materials Scan this QR Code &
Download our Adda247 App



Daily Current Affairs Encyclopedia

Copyright © by Adda247

All rights are reserved. No part of this document may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior permission of Adda247.