

Zoology Highlights

THE DISCOVERY OF 866 NEW MARINE SPECIES

The Nippon Foundation-Nekton Ocean Census, the world's largest collaborative effort to accelerate the discovery of marine life, today announced the discovery of 866 new marine species. This is a significant step in advancing our understanding of ocean biodiversity, with discoveries expected to grow as the programme continues.

The identification and official registration of a new species can take up to 13.5 years—meaning some species may go extinct before they are even documented. To address this, The Nippon Foundation and Nekton jointly launched the Ocean Census in April 2023 to transform species discovery, accelerating the identification of marine life to close critical knowledge gaps before it's too late.

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TURRIDRUPA MAGNIFICA – GASTROPOD

A marine gastropod discovered at 200–500m depths off New Caledonia and Vanuatu by Dr. Peter Stahlschmidt (University of Landau, Germany).

NEW OCTOCORAL

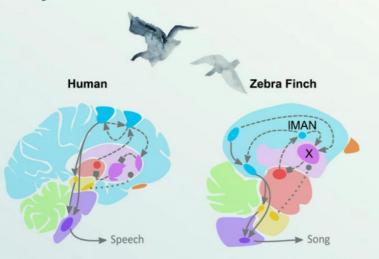
Found in the Maldives by Aishath Sarah Hashim & Aminath Nasath Shanaan (Maldives Marine Research Institute) and Asako K Matsumoto (Chiba Institute of Technology; The University Museum, the University of Tokyo). There are only 5 known species of this genus.

RIDHIMA KASHYAP BSC III YR

Vocal changes in birds may predict agerelated disorders in people

University of Arizona neuroscientists studying the brains of songbirds have found that aging alters the gene expressions that control the birds' song. The finding could lead to earlier diagnoses and better treatments for human neurodegenerative disorders such as Parkinson's disease and Alzheimer's disease which are known to hinder vocal production in their early stages.

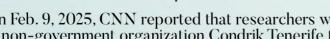




Zebra finches, native to Australia, have a strikingly similar-looking brain to humans', particularly the area known as the basal ganglia, which is used for motor function, including speech, Miller said. The finches also develop their birdsong by mimicking their parents and other birds around them -- the same way humans learn to speak



The Melanocetus johnsonii, or black seadevil angler fish, was captured in photos during a rare sighting.



On Feb. 9, 2025, CNN reported that researchers with the non-government organization Condrik Tenerife took photographs of an adult black seadevil angler fish near the surface. The researchers had been on a shark research expedition when the good fortune struck. Typically, these fish appear between 1,000 and 2,000 meters below the surface, making their appearance in clear blue water a surprise.





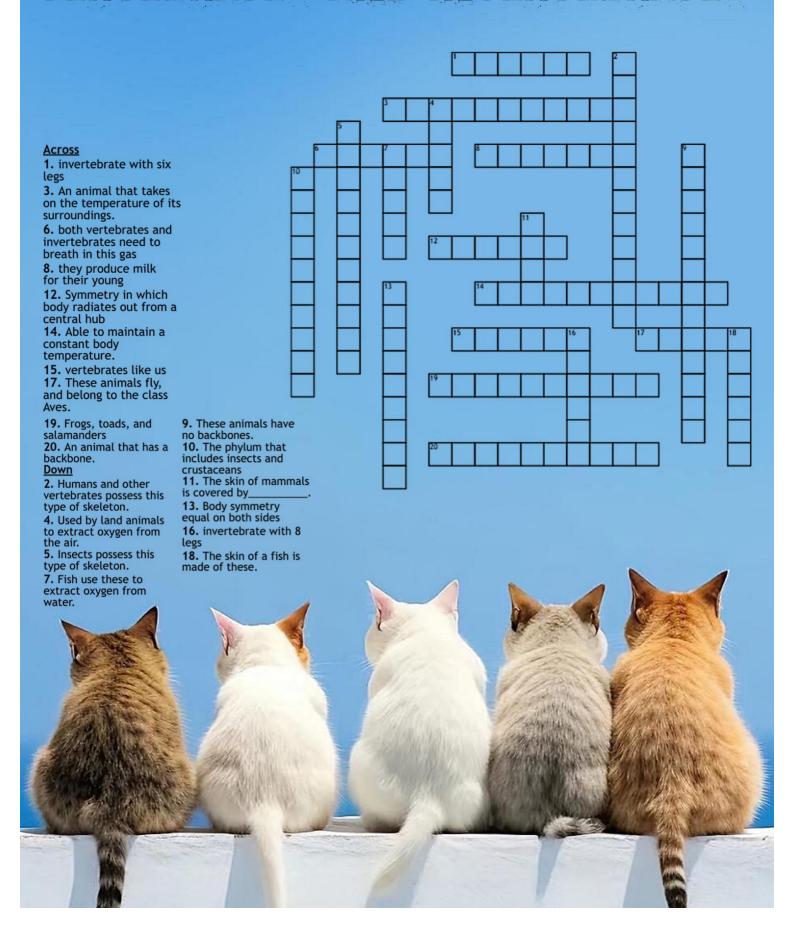


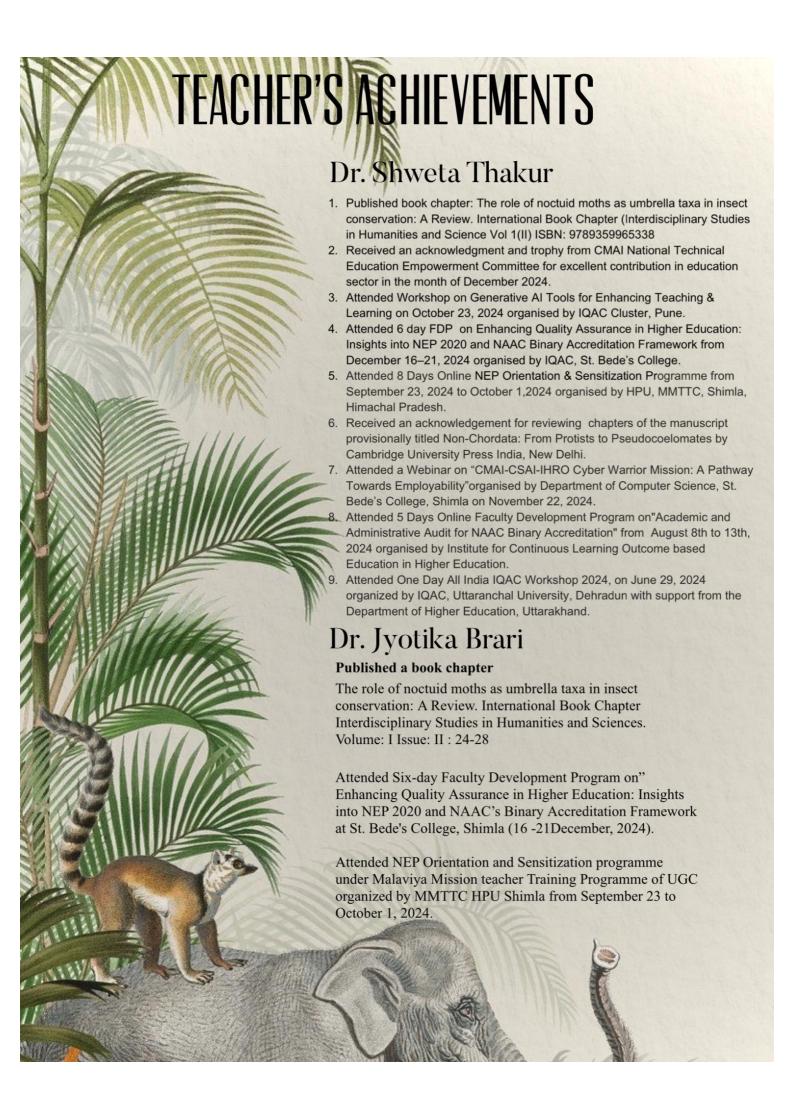
Cancer, a disease marked by uncontrolled cell growth, affects millions worldwide. Despite medical advancements, it remains a leading cause of death globally. However, growing awareness and research are changing the narrative. Early detection, targeted therapies, and immunotherapy have improved treatment outcomes. Lifestyle modifications like a balanced diet, regular exercise, and avoiding tobacco can significantly reduce cancer risk.

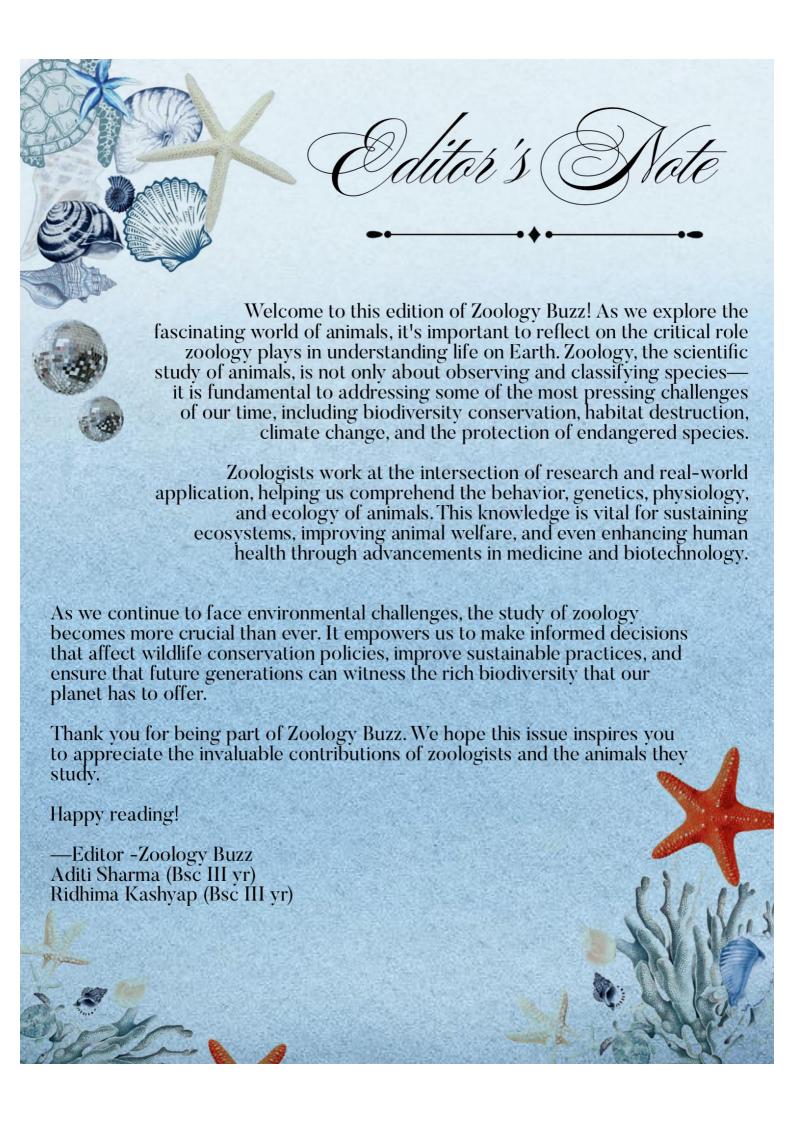
As we strive for a cancer-free future, promoting awareness and supporting research are crucial. Individuals can take proactive steps towards a healthier tomorrow. By understanding risk factors, adopting healthy habits, and encouraging others to do the same, we can work together to combat cancer. Let's unite in the fight against this disease and create a brighter, healthier future for all.

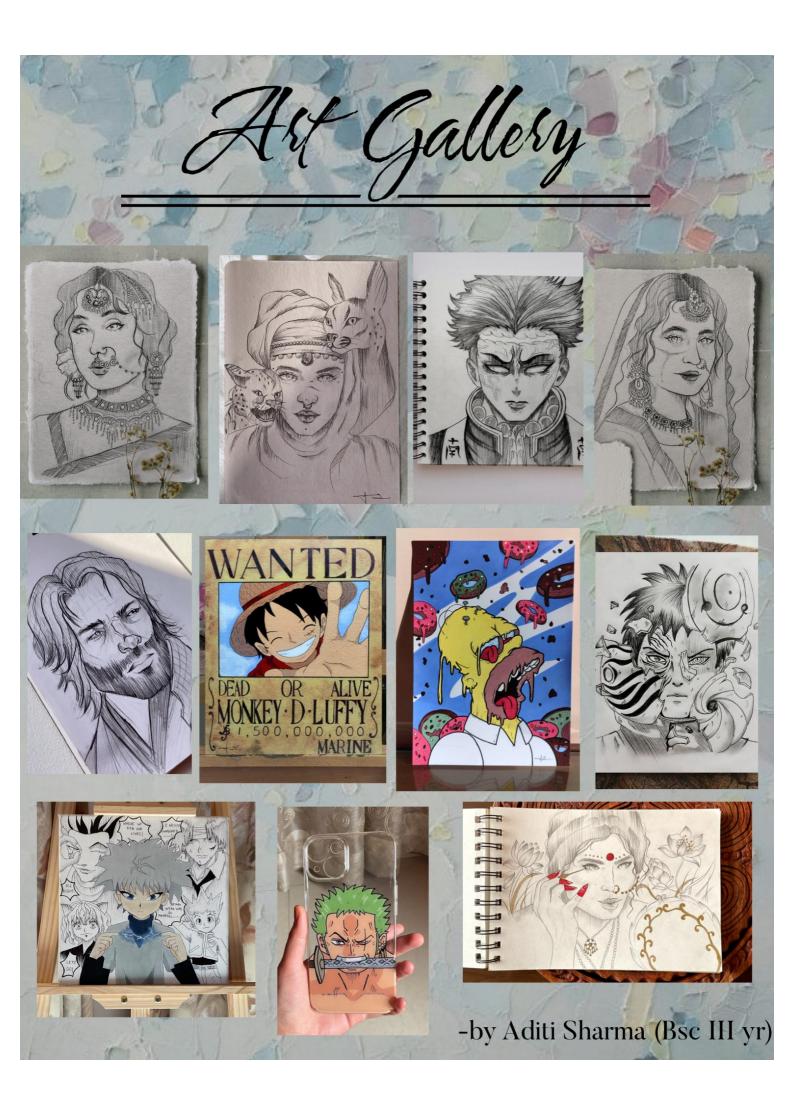
> Pranjal Thakur BSC III YR

VERTEBRATES AND INVERTEBRATES









Academic Achievements



Pranjal Azad

BSC third year student, Pranjal Azad secured the first position in zoology BSC second year.



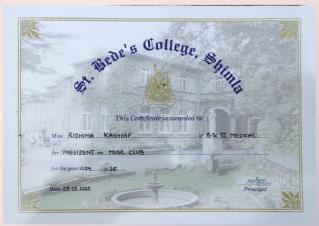
Lakshya Sharma

BSC third year student, Lakshya Sharma secured the second position in zoology BSC second year.



Pranjal Thakur

Certificate of recognition was awarded to Pranjal Thakur for being in the student council as the secretary of Hackathon cell



Ridhima Kashyap

Student of BSC third year Ridhima Kashyap was awarded with the certificate of recognition of being in the student council as the President of the music club.



She was also awarded with Sir Pascal memorial scholarship for academic excellence in zoology.



Aditi Sharma

Student of BSC third year, Aditi Sharma was awarded with the certificate of recognition for being in the student council as the President of society.



She was also awarded with PTA award for all rounder in zoology department.

Departmental Activities

VISIT TO HIMALAYAN FOREST RESEARCH INSTITUTE PANTHAGHATI SHIMLA

On September 3, 2024 the students of B.Sc. - III, Department of Zoology, St. Bede's College visited Himalayan Forest Research Institute, Panthaghati Shimla. The visit was organized to provide students with practical exposure to real-world research activities. The visit was designed to deepen students understanding of the challenges and solutions in forest conservation, management, and biodiversity, equipping them with both knowledge and practical skills essential for their academic and professional growth. The visit to the Himalayan Forest Research Institute was highly educational and impactful, providing them with valuable insights, practical skills, and enhanced knowledge. This fostered a greater appreciation for the role of scientific research in protecting forests and ecosystems, while equipping students with hands-on experience and knowledge that will benefit their future studies and careers.







HANDS ON TRAINING IN BEEKEEPING AT Y. S. PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY NAUNI

On October 23, 2024 the SEC students of B.Sc. III and B.Sc. II Department of Zoology, St. Bede's College visited Y. S. Parmar University of Horticulture and Forestry Nauni, Solan for hands on training in beekeeping. The training introduced students to the fundamentals of beekeeping, focusing on two bee species:

Apis melifera and Apis cerana

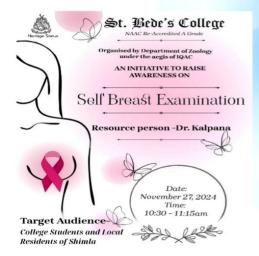
This session provided a unique blend of theoretical knowledge and practical skills, bridging classroom learning with real-world applications. The training provided students with hands-on skills in hive management, understanding bee behaviour, and recognizing diseases. They learned about honey, pollen, and wax production, emphasizing ethical harvesting and bee welfare. The program highlighted bees crucial role in pollination and biodiversity, linking it to ecosystem health. Students left with a foundation in sustainable beekeeping and potential career pathways in apiculture and conservation.

RAISING AWARENESS ON BIODIVERSITY CONSERVATION

On October 23, 2024, students from the Zoology Department conducted an awareness activity through PowerPoint presentation on biodiversity conservation at Frontline Public School in Thanedar, Shimla. This initiative was aimed at raising awareness among school students about the critical importance of preserving our planet's biodiversity. The event was organized to engage young minds in discussions about environmental issues and to inspire them to act in their communities. The awareness program successfully increased students awareness of the significance of biodiversity and the urgent need for its conservation. The presentation provided practical conservation strategies, encouraging students to consider their contributions to environmental efforts. The event inspired students to become advocates for biodiversity conservation and take part in stewardship activities.









RAISING AWARENESS ON SELF-BREAST EXAMINATION

On November 27, 2024, the Department of Zoology, under the aegis of the IQAC, organized an impactful awareness session on Self-Breast Examination to promote early detection and prevention of breast cancer. The program saw active participation from students of Shimla Nursing College, Bhattakuffar, and local residents from the Shimla region, ensuring a broad outreach. The primary objective of the initiative was to educate and inform the community about breast cancer, empowering individuals to take charge of their health through awareness and proactive practices. Dr. Kalpana, a renowned social worker and a supporter for breast cancer awareness, graced the occasion as the resource person. The awareness program on self-breast examination was a significant step toward fostering a proactive approach to women's health. It provided participants with vital knowledge and practical skills, emphasizing the importance of early detection and prevention. The Department of Zoology, along with IQAC, reaffirmed its commitment to organizing similar programs that address pressing health concerns and contribute to the well-being of the community.

NATIONAL SCIENCE DAY

On February 28, 2025, the Department of Science at St. Bede's College celebrated National Science Day under the theme "Empowering Indian youth for global leadership in science and innovation for viksit bharat". The event featured a diverse range of activities. Students gained valuable insights into career opportunities in science and technology while developing research, presentation, and problem-solving skills through hands-on activities. The integration of science with mathematics, technology, and real-life applications enhanced their appreciation for scientific advancements. Idea-pitching sessions and creative competitions encouraged innovation and practical application of scientific concepts, while group activities fostered teamwork and collaboration among participants.







