

Report on Three-Day Workshop on “Omics to Analytics: The Future of Life Science Research”

**Organized by Department of Zoology, Darrang College (Autonomous)
In Collaboration with Department of Molecular Biology and Biotechnology, Tezpur University**

Date: 30 October – 1 November, 2025

Venue: Darrang College (Autonomous)

The Department of Zoology, Darrang College (Autonomous), in collaboration with the Department of Molecular Biology and Biotechnology, Tezpur University, organized a Three-Day Workshop on “Omics to Analytics: The Future of Life Science Research” from 30 October to 1 November 2025. The inaugural session held on 30 October at 9:30 AM featured lamp lighting, felicitation of guests and addresses by the Principal, the Governing Body President, and Dr. Abhijit Das, Head of the Department of Zoology. Prof. Robin K. Dutta, Dean of Science, Tezpur University, delivered the inaugural speech and formally opened the workshop.

On Day 1 (30 October 2025), the first technical session was conducted from 10:45 AM to 12:00 PM by Dr. Jyoti Prasad Saikia, Assistant Professor, Department of MBBT, Tezpur University, who spoke on ‘Research Methodology: Approaches and Applications in Biological Sciences’. The afternoon session, held online from 2:30 PM to 4:00 PM, was led by Dr. Airy Sanjeev, Post-Doctoral Fellow, Linköping University, Sweden, who introduced participants to the ‘Basics of Molecular Docking and Drug Design’.

Day 2 (31 October 2025) began with Dr. Girin Saikia, Assistant Professor of Department of Statistics, Darrang College, delivering a session on ‘Introductory Statistical Analysis with R and RStudio’ from 9:30 AM to 10:45 AM, followed by a hands-on continuation from 11:00 AM to 12:15 PM. In the afternoon, from 2:00 PM to 4:00 PM, Dr. Chittaranjan Baruah, Assistant Professor of Department of Zoology, Darrang College, conducted a session on ‘From Field to Lab to Omics: Basics of Field Work, Molecular Sampling and Analysis’.

On Day 3 (1 November 2025), three consecutive sessions were conducted by Dr. Pankaj Barah, Assistant Professor, Department of MBBT, Tezpur University. He delivered an introductory lecture on ‘Big Data Analysis and Integration in Biology and Medicine’ from 9:30 AM to 12 Noon, followed by hands-on tutorials from 12:30 PM to 2:45 PM. The workshop concluded with the valedictory session from 3:00 PM to 4:00 PM, where certificates were distributed. A few Research Scholars from the Department of MBBT, Tezpur University were also present during the third day sessions.

The workshop concluded with a valedictory session and certificate distribution. The event was highly beneficial for students and scholars, providing them with essential skills and updated knowledge in data-driven biological research. The Department of Zoology expresses gratitude to all collaborators, resource persons and participants for their contribution to the success of the programme.



A few glimpses from the Three-day Workshop on ‘Omics to Analytics: The Future of Life Science Research’