



# The Oxford College of Science

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Supported by DST GoI under FIST program, Supported by DBT GoI under DBT-STAR College

## DBT-STAR Scheme 2025

### REPORT

DEPARTMENT: ZOOLOGY AND GENETICS

<b>TITLE</b>	<b>PHYLOGENETIC TREE CONSTRUCTION USING BIO INFORMATICS</b>
<b>ACTIVITY TYPE</b>	Workshop
<b>YEAR/SEMESTER</b>	2026 IV Semester
<b>DATE OF EVENT</b>	Monday, 18/03/2026
<b>VENUE</b>	Computer Lab: Room No. 208
<b>ORGANISED BY</b>	Department of Zoology and Genetics
<b>RESOURCE PERSON (with designation and affiliation)</b>	<b>Dr. Nimmi Haridas</b> Application Scientist CIRIST Ecosystem, Kochi, Kerala
<b>FACULTY INCHARGE/EVENT COORDINATOR</b>	Dr Deepa Gopinath
<b>TARGET AUDIENCE</b>	IV Semester, 2026
<b>NUMBER OF BENEFICIARIES</b>	<b>UG IV Semester -Genetics</b>

#### The objectives of the Programme:

The workshop aimed to introduce students to fundamental concepts of phylogenetics and bioinformatics tools used for evolutionary analysis. It focused on developing practical skills in sequence alignment, tree construction, and interpretation of phylogenetic relationships.

#### Highlights of the Programme:

The hands-on sessions enabled participants to work with real biological datasets using bioinformatics

software. Experts demonstrated sequence retrieval, alignment techniques, and tree-building methods such as Neighbor-Joining and Maximum Likelihood.

**The outcome of the programme:**

Participants gained practical exposure to bioinformatics tools and improved their analytical skills in evolutionary biology, enhancing their research aptitude and interdisciplinary understanding.

**PHOTOS**

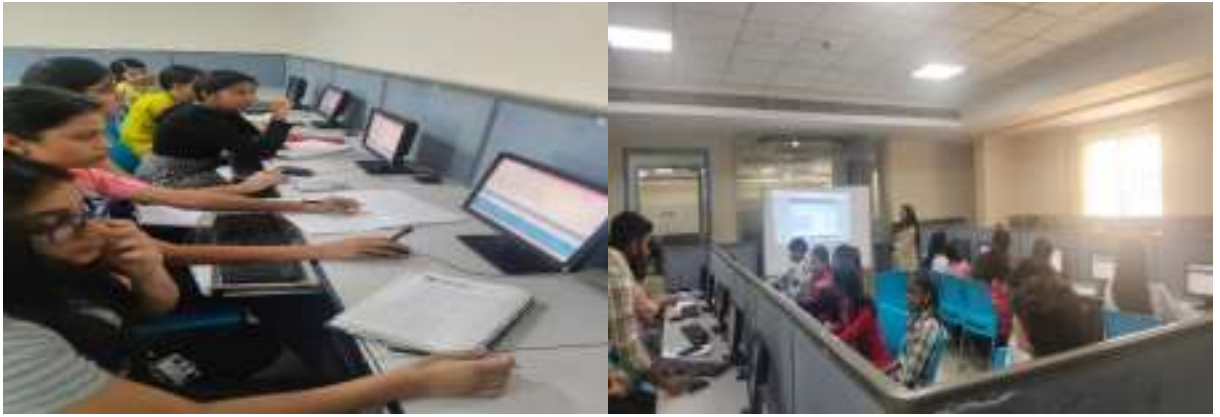


**Dr Nimmi Haridas, Resource Person, being introduced to the participants by Ms Divya (IV Semester)**

**Dr Nimmi Haridas, introducing the topic to the students**



**Resource Person, Dr Nimmi Haridas, demonstrating Bioinformatics Tools**



**Hands-on Training Session in progress, participants working on real-time datasets**

**Head of the Department DBT-STAR Coordinator Vice Principal Principal**