



BIOCODING Workshop

Biocoding for Research Methodology

*Practical Applications of Biopython and R Programming
in Biological Research*

One Day Workshop

A hands-on workshop designed to build practical skills in
biological data analysis, using Python and R.

Data Analysis • Coding • Visualization • Research Application



DATE
15 SEPTEMBER, 2026
(TUESDAY)



VENUE
**e Library, Ballygunge Science
college Campus, 8th floor**

EXCLUSIVELY FOR RUSA CAT 2 SCHOLARS,
UNIVERSITY OF CALCUTTA

KEY SESSIONS



Python & R for
biological research



Sequence analysis &
GC content



Data retrieval using
Biopython (NCBI, GenBank, RefSeq)



Comparative sequence analysis
& case studies



Automate research workflows
& export results

WORKSHOP HIGHLIGHTS



Hands-on with
Python and R



Data analysis &
visualization



Real research datasets
& practical examples



Expert guidance &
interactive sessions



Build a reproducible
research workflow

Last Date of registration

12th Sep 2026

Fee: Rs 100

Only 50 seats available



LEARNING OUTCOMES

- ✓ Use Python and Biopython to analyze biological sequences and retrieve data programmatically.
- ✓ Use R for data analysis, statistics and visualization.
- ✓ Select appropriate statistical methods based on research questions.
- ✓ Interpret computational results in a biological context.
- ✓ Build a reproducible research workflow using Python and R.

*The emphasis is on using
programming as a research
methodology rather than
teaching programming syntax
in isolation.*



Organized by
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