



# BALA MURALI

Bioscience(Hons.) Graduate



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[Bala Murali](#)

## EDUCATION

**Sri Sathya Sai Institute of Higher Learning**

**B.Sc. (Hons) Bioscience**  
2022 - 2025

### Relevant coursework :

Molecular Biology, Genetics, Biostatistics, Immunology, Biochemistry, Organic Chemistry.

## TECHNICAL & LAB SKILLS

### Computational

- Python, R
- Git/GitHub,
- Rosalind platform,
- NCBI BLAST,
- GALAXY.

### Wet Lab

- SDS-PAGE
- Gel Electrophoresis
- DNA & RNA Extraction
- Microbial Culture

## ATHLETICS & LEADERSHIP

- State-Level Netball Player
- U-15 District Basketball Runner-Up Captain
- Intra-University Basketball Championship Team

## PROFILE

- Bioscience graduate focused on computational biology and mitochondrial gene retention research.
- Adept at integrating bioinformatics tools with classical biology training to pursue independent research.
- Also skilled in music, sport, and structured curiosity.

## RESEARCH PROJECTS

### Independent Research – Mitochondrial Gene Retention

2025 – Present

- Exploring gene retention mechanisms in mitochondrial genomes using computational methods.
- Self-directed work incorporating Python scripting, database mining, and comparative genomic analysis.
- Repository: GitHub.

### Rosalind Bioinformatics Challenges

2025 – Present

- Solving algorithmic biology problems with Python.
- Documenting and versioning solutions via GitHub as a personal study log and skill showcase.

### Poster Presentation – "The Zombie Fungus"

2024

- International Microbial Day, Dept. of Bioscience, SSSIHL.

## CERTIFICATIONS & COURSEWORK

- Molecular Cloning – NPTEL, IIT Madras (2024)
- Python for Biologists – Udemy (2024)
- R for Researchers – Udemy (2024)
- Genomic Data Science Track – DataCamp (Ongoing)
- Bioinformatics – Coursera (Ongoing)
- Computational Biology – MIT OCW (Ongoing)

## ACADEMIC ACTIVITIES & CONFERENCES

### BIOASIA Global Conference 2025 – Hyderabad

Attended sessions on AI in drug discovery, synthetic biology, and biotech innovation pipelines.