



Chirag

1st Year BSMS Student at IISER Tirupati

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About Me

Motivated research student at IISER Tirupati with a strong interest in biology, disease microbiology, genetics, pathology and interdisciplinary scientific problem-solving. I enjoy working in collaborative environments, learning new tools quickly, and taking initiative in both academic and organisational tasks. I am committed to delivering high-quality work, communicating clearly, and continually expanding my research skills.



Relevant Courses

- Cell Biology & Biochemistry
- Molecular Biology & Genetics
- Cell Biology Lab
- Microbiology Lab
- Classical Mechanics
- Wave Mechanics
- Calculus
- Stereochemistry
- General Organic Chemistry
- Organic Chemical Reactions

Education

● Foundation Academy, IIT Patna Secondary Education

2016 - 2025

I completed my secondary education at Foundation Academy, IIT Patna, scoring **92% in Class 10** and **88% in Class 12 (PCB)**. My time there helped me build a genuine interest in science and biology, with opportunities to visit **IIT Patna labs** and experience real **research** environments. I also participated in several **Olympiads**, which strengthened my **critical thinking** and deepened my curiosity beyond the classroom.

● Indian Institute of Science Education & Research, Tirupati Bachelor of Science & Master of Science

2025 - 2030

Currently pursuing **BS-MS at IISER Tirupati**, where I study a broad range of interdisciplinary science subjects and progressively **specialise in biology**. My coursework is complemented by hands-on **laboratory training**, regular experiments, and exposure to new **research techniques**. I actively attend **seminars, talks, and workshops** that deepen my understanding of modern biology and help develop strong analytical and **lab-based skills**.



Skills & Experiences

● Microscopy & Staining IISER Tirupati UG Lab

Through the BIO12 course, I gained practical experience in microscopy and staining, learning techniques like Gram staining, fungal staining, and preparing microbial samples. Working regularly with the microscope helped me understand microbial structures more clearly and become comfortable handling samples and slides with accuracy.

● Structural Biology Tools IISER Tirupati

Attended an on-campus seminar/workshop on AlphaFold and protein analysis, where I learned how tools like PyMOL and AutoDock can be used for protein structure prediction, visualization, and basic docking insights. This session gave me an introductory understanding of computational approaches in structural biology.

● Culturing and Inoculation IISER Tirupati UG Lab

Gained hands-on experience in basic culturing and inoculation techniques, including preparing media, streaking plates, and maintaining microbial cultures. Regular lab sessions and related seminars helped me understand good microbiological practices and the reasoning behind sterile handling and culture growth.

● Scientific Event Management NCURB 25, EGS 25, BioBlitz IIT Tirupati etc.

Served as a member of the organising team for NCURB 2025 (National Conference for Undergraduate Research in Biology), the Eastern Ghats Symposium (EGS) 2025, and BioBlitz at IIT Tirupati. Contributed to coordination, logistics, participant support, and smooth on-ground execution, strengthening my teamwork and communication skills.

Interests

● Academic Interests

Interested in developing strong practical skills across microbiology and molecular biology. Focus areas include microbial culturing, microscopy, staining techniques, PCR, agarose gel electrophoresis, and basic molecular cloning. Also aiming to gain proficiency in protein-level assays such as Western blotting, ELISA, and immunostaining. Actively building accuracy in sterile technique, sample handling, and experimental data collection to support future work in disease biology and modern laboratory research. Additionally, I am interested in interdisciplinary approaches that combine biology with chemistry and basic computational tools to understand complex scientific problems more effectively.

● Extracurriculars / Hobbies

Outside academics, I enjoy music, holding a 5-year Senior Diploma in Hindustani Classical Music, along with singing and playing multiple instruments. I am also interested in fitness and actively follow sports, especially football. These activities help me stay balanced, focused, and motivated alongside my academic work.

References

Dr. Shantanu Paul

Professor, Biology

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Dr. Ponneri C Ravikumar

Professor, Chemistry

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