

Chandan Shringi

PhD Student, Indian Institute of Science, Bengaluru, India

Contact Information

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Education

PhD (Bioengineering)
Department of Bioengineering, IISc Bengaluru
CGPA: 8.5

Aug 2022– Present

B.Tech. (Biotechnology)
USBT, GGSIP University
CGPA: 8.62

2018–2022

Research Experience

PhD DISSERTATION
Investigating Mechanisms Behind Lung Cancer Initiation Using 3D Organotypic Models of Airway Mucosa
Supervised by Dr. Medhavi Vishwakarma

Aug 2022 - Present

UNDERGRADUATE DISSERTATION
Genome wide analysis of Arsenate Reductase and Arsenite Transporter gene family and their expression in contrasting rice genotypes.
Supervised by Prof. Ram Singh Purty

Jan 2022 – July 2022
GGSIP University

SCIENCE ACADEMIES' SUMMER RESEARCH FELLOW
Study of interactions between plants and viruses utilizing various molecular biology and tissue culture techniques
Supervised by Prof. Indranil Dasgupta

July 2021– Sept 2021,
University of Delhi

UNDERGRADUATE RESEARCHER
In silico identification and validation of miRNA and their ABI-3 specific targets in *Oryza sativa* Indica under abiotic stress

Nov 2021,
USBT, GGSIPU

SUMMER INTERN
Study of Bioremediation capability of bacteria Cellulosimicrobium sps.

June – July 2019,
USBT, GGSIPU

Publications

Pooja A. Patkulkar, Arjun SV, Ananya Sharma, Suvam K. Panda, Vinay V, Chandan Shringi, and Sanhita Sinharay, *In vivo visualization of tumor metabolic activity with a tetra glucose-conjugated Zinc-phthalocyanine photoacoustic contrast*, **JACS Au** 2025

Awards

- The Bharat Scouts and Guides Rashtrapati Scout certificate from **The President of India**.
- Department of Biotechnology (DBT) JRF Fellowship Awardee 2022
Top ~3%
- Graduate Aptitude Test in Engineering (GATE) 2022 Qualified
All India Rank – 112
- Graduate Aptitude Test of Biotechnology (GAT-B) 2022 Qualified
All India Rank – 7
- Joint Admission test for Masters (JAM) 2022 Qualified
All India Rank – 42

Conferences

43rd Annual Indian Association for Cancer Research (IACR)
Poster Presentation

Jan 2024
IISER Pune

Skills

Tissue Culture:

- Organotypic Models Culture
- Mammalian Tissue Culture
- 3D Hydrogels – Collagen; Polyacrylamide; PDMS; GelMA; Alginate
- Plant Tissue Culture
- Bacterial Culture

3D Bioprinting

Imaging:

- Confocal Microscopy
- Epi-Fluorescence Microscopy
- Traction Force Microscopy
- Atomic Force Microscopy (AFM)
- Image Analysis – FIJI/ImageJ

Lab Techniques:

- Recombinant DNA Techniques
- Molecular Bio. Lab Techniques

Computational:

- Python; R; MATLAB
- Linux/Bash
- Git/GitHub
- Web Development

Certificates

- Crash course on Python – Google
- Programming for everybody – University of Michigan
- Python Data Structures – University of Michigan
- Open-Source Software Development – The Linux Foundation
- Introduction to Git and GitHub – Google
- Technical Support Fundamentals – Google
- Guinness world record event-Online programming lesson – GUVI

Mentoring

Master's Thesis students [M.Tech – 1, M.S. – 1]

Supervised and mentored master's level research, assisting students with project design, experimental planning, data analysis, and scientific writing, resulting in successful thesis defense.

Undergraduate students – 3

Actively engaged in mentoring undergraduate interns, offering skill development, and technical guidance to facilitate their academic and professional growth.

Guided graduates in securing research positions and pursuing doctoral studies.

References

Dr. Medhavi Vishwakarma
Asst. professor, Indian Institute of Science, Bengaluru, India
medhavi@iisc.ac.in

Prof. Ram Singh Purty
Professor, University School of Biotechnology, GGSIP University, Delhi, India
rspurty@ipu.ac.in

Prof. Ranjith Kumar C.T
Professor, University School of Biotechnology, GGSIP University, Delhi, India
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