



Sristi Raj Rai

Doctoral student 2024 - Present

Biomolecular sciences and Biotechnology

Department of Biology and Biotechnology, University of Pavia & IUSS Pavia

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About Me

I am a highly motivated individual, an avid multitasker, with the ability to demonstrate creativity at work, and have the capability to comply with strong work ethics.

A person who is honest, hardworking, a quick learner, and who tries to manage time efficiently. I am flexible at working independently as well as in a team.

Languages

English ★★★★★
Hindi ★★★★★
Bengali ★★★★★
German ★
Italian ★

Hobbies

Fine Arts

Sports

Education

- Molecular Biology and Genetics, Master of Science**
University of Pavia, Italy 2021 - 2023
Final grade 108/110 | Thesis: In-vitro structure-based molecular characterization of a recombinant human collagen $\beta(1-O)$ Galactosyltransferase, GLT25D1
- Biotechnology, Bachelor of Technology**
Amity University Kolkata, India 2017 - 2021
Final Grade 8.26/10 CGPA | Projects involved in:
S-denitrosylation of DJ-1-SNO, a Parkinson's-related protein;
GSH-related enzymes;
Comparative study of past, present, and future treatments of a bleeding disorder – Haemophilia;
Fascinating facts about Tardigrades;
Photometric studies on Zn-based complexes;
Dual-release kinetics in single dosage from core-shell hydrogels;
Ethical decision-making
- Science, Higher Secondary School**
St. Joan's School, India 2015 - 2017
Final Grade 86%

Experience

- Erasmus Trainee** 2024 - 2024
Center for Medical Genetics, Ghent University, Belgium
Acquired several techniques in the context of studying the molecular genetics and pathogenetic consequences of heritable connective tissue disorders under the supervision of **Prof. Fransiska Malfait**.
- Pre-doctoral Research Fellow** 2023 - 2024
Armenise Harvard Laboratory of Structural Biology, Department of Biology and Biotechnology, University of Pavia, Italy
Recombinant expression and purification of enzymes involved in post-translational modification of collagen proteins under the supervision of **Prof. Federico Forneris**.
- Summer Intern** 2021 - 2021
Phxy44 Labs Pvt. Ltd., Atal Incubation Center, Center of Cellular and Molecular Biology, CSIR, Hyderabad, India
An industrial project aimed at replicating nature's recipe from bovine genes and expressing them in the microbial systems to produce alternatives to milk sustainably under the supervision of **Bharath Bakaraju & Dr. Vanita Uppada**.
- Author, Editor & PR** 2020 - 2021
Bioxone Biosciences Pvt. Ltd.
Involved in scientific content writing to spread awareness among the society members on recent discoveries/inventions that the biological field was undergoing.

Skills acquired

Protein production | Protein purification | Molecular biology techniques (Basic) | Biochemical assays | Microscopy (Basic) | Biophysical methods | Crystallography (learning) | Bioinformatic tools (Basic) | Basic level programming (C, C++, Java, Python, R)