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# Priya Srivastava, PhD

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## Education

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### Doctor of Philosophy (PhD) in Biochemistry | 2019-2023 | University of Manchester, UK

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**Award:** Presidents doctoral scholarship (PDS)- The PDS Award is given to outstanding students from around the world a foundation to support research training with prominent academics.

**Project:** Investigating role of Slf1 an RNA binding protein in translation control during oxidative stress in yeast under guidance of Prof. Graham Pavitt, and Dr. Martin Pool

**Publication: Srivastava P\***, Jennings MD, Kershaw CJ, Talavera D, Grant CM, Pavitt GD. Interaction of the La-related protein Slf1 with colliding ribosomes maintains translation of oxidative-stress responsive mRNAs. *Nucleic Acids Res.* 2023 Jun 23;51(11):5755-5773. doi: 10.1093/nar/gkad272.

### Integrated Bachelors and Master of Science in Biotechnology | 2019 | Gautam Buddha University, India

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**Award:** Passed with Distinction and Gold medal award

**List of modules:** Molecular Biology, Biochemistry, Cell Biology, Pharmacology, Biotechnology Techniques, Organic Chemistry, Toxicology, bioanalytical techniques.

## Experience

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### Research Intern | National Institute of Biologicals, Government of India |2016

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- Executed quality control evaluations for various types of Blood Grouping Reagents in compliance with the standards set for safe and effective blood transfusion by the Government of India.
- Contributed to the notified Central Medical Device Testing Laboratory (CMDTL) status, highlighting commitment to quality control and adherence to regulatory guidelines.

### Research Fellow | North-eastern Hill University, India | 2017

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- Performed Genetic Diversity Analysis through DNA Polymorphism in Citrus Medica at Department of Biotechnology and Bioinformatics.

### Research Scholar | The Ohio State University, USA| 2018

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- Two months summer research project on unraveling the critical role of RNA splicing endonucleases in tRNA maturation in Prof Juan Alfonzo's RNA Biology Lab.
- Mastered a diverse range of laboratory techniques, including Western blotting, northern blotting, and the Trypanosoma brucei cell culture, cell counting and growth assays.
- Conducted multiple sequence alignments of endonuclease subunit sequences in different eukaryotes and the determined of conserved amino acids for the construction of mutants.

### Research Project at Regional Centre for Biotechnology, India| 2019

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- Led a rigorous six-month research project focused on studying gene regulation mechanisms involved in biofilm formation within Pseudomonas aeruginosa in Dr. Deepti Jain's transcription lab.
- Employed protein purification methods SDS PAGE, western blot and advanced structural biology techniques, including HPLC and X-ray crystallography, to gain in-depth insights into the molecular basis of biofilm formation.

## Extracurricular Activities

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## **Graduate Teaching Assistant**

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- Developed and implemented innovative teaching methods, adapting to diverse student learning styles, resulting in improved student engagement, and understanding.
- Employed problem-solving skills to address students concerns, fostering a positive and inclusive learning environment.

## **ResLife Student Advisor Experience**

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- Acted as a primary point of contact for students facing personal, academic, or residential challenges, applying effective problem-solving skills to offer solutions and support.
- Event management and social media promotion for 8 successful events

## **Head of Postgrad students-led Team for PGR Wellbeing community**

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- Led a team of postgraduate research (PGR) students called Anything but research (AbR), providing funding for wellbeing activities at the University of Manchester.
- Collaborated with MDC and University of Manchester for funding projects, and managed social media and increased reach to up to 80%

## **LEAF Green Lab Champion and Sustainability Communication Team Member**

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- Spearheaded Laboratory Efficiency Assessment Framework (LEAF) collaboration initiatives within the Molecular and Cellular Function team, fostering cross-functional communication and teamwork.

## **Owner of LinkedIn page “Everything RNA”**

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- Decimating knowledge, resources, research related to vaccine development and delivery, latest technology, and breakthroughs.

## **Skills & Abilities**

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### **Molecular Biology Techniques**

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- Proficient in a wide range of molecular biology techniques including cell culture, cloning, PCR, qRT-PCR, gel electrophoresis, and Western blotting, immunoprecipitation, DNA and RNA extraction and quantification, polysome profiling.

### **Protein Expression and Purification**

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- Skilled in the design and execution of recombinant protein expression and purification methods, ensuring high-quality yields.

### **Assay Development**

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- Knowledgeable in the creation of robust assays for high-throughput screening and biochemical analyses, contributing to effective protocol development for DNA, RNA, ribosome, protein analysis.
- Cell proliferation assay, biochemical assay like Phosphorylation assay, ubiquitination assay, Dual luciferase assay

### **Data Analysis**

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- Proficient in data interpretation using advanced tools such as Excel, GraphPad Prism, R language enhancing accuracy and decision-making.

### **Bioinformatics Skills**

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- Proficient in utilizing bioinformatics tools for tasks such as BLAST and sequence alignments, Next-generation sequencing mapping, and protein visualization using tools like Chimera and PyMol.

### **Project Collaboration**

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- Demonstrated cross-functional collaboration skills by effectively collaborating with lab colleagues and external researchers on the development of PhD and master's projects.

### **Problem-Solving and Critical Thinking**

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- Utilized tools like Mind the Graph and applied critical thinking skills to resolve complex scientific challenges encountered during research.

## **Time Management and Organization**

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- Efficiently managed research tasks using tools such as Benchling, Evernote, Google Calendar, and Toggle, ensuring optimal time utilization and project prioritization.

## **Team Collaboration**

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Engaged in successful teamwork within the laboratory environment, contributing to the development and execution of collaborative research projects.

## **Conference presentation and Science communications**

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Effective communication skills developed through regular presentations, blogs, and scientific writing, enabling clear conveyance of complex concepts.

- Speaker at Protein quality control: From molecular mechanisms to therapeutic intervention, Croatia, EMBO workshop, 2023
- Poster presentation at Translation UK Cambridge 2023
- Published Blog on research hive University of Manchester, 2023
- Molecular and cellular function Lab meetings 2020, 2021, 2022, 2023
- Science Week Outreach program: "Women in Science" at Altrincham Grammar School for Girls, 2022
- Speaker at translation control Cold Spring Harbor Laboratories, New York, USA, 2022
- Speaker at Translation UK, Biochemical Society, 2021 and 2022
- Speaker at Young Scientist Symposium on Protein Quality Control 2021 by ETH Zurich, 2021
- 3min flash talk at School of Biological Sciences annual celebration at Manchester 2021
- Semifinalist 3MT thesis at the University of Manchester, 2021
- Participant at RNA biology cover page Art competition Special Edition, 2020
- PhD data presentation at MCF Seminar Series at the University of Manchester, 2020
- Created "The Pseudo Magazine Cover" from lab glove box, Royal Society of Biology, 2019
- Manage and curate content for "Everything RNA" LinkedIn page, "Labllamalies" Instagram page covering science updates, lab sustainability, and women in STEM.

## **Awards**

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- Associate Fellow of Advance HE against the UK Professional Standards Framework for in recognition of attainment teaching and learning support in higher education, 2023
- Travel grant from European Molecular Biology Organization (EMBO) ,2023
- Travel grant from MRC toxicology to attend Translation UK Cambridge ,2023
- RNart contest Winner at Toronto RNA Enthusiasts Day (TREN D) 2022
- Highly commended in Contribution to PGR environment at the University of Manchester, 2022
- Indian Academies Summer Research Fellowship, 2017
- Khorana Scholarship by Indo-U.S. Science and Technology Forum (IUSSTF), 2019
- Merit Scholarship and distinction in Masters, Gautam Buddha University, 2019
- MFPL, Vienna biocentre PhD scholarship award, 2019
- NSERC CREATE RNA Innovation award, Canada, 2019
- Presidents Doctoral Award at the University of Manchester, 2019

## **Trainings and Certification**

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- Workshop on Drug Target Identification and Validation | Bioinformatics Trainee at SCFbio at Indian Institute of Technology, Delhi
- Word Essential Training (Office 365/Microsoft 365)| LinkedIn Learning
- Sustainability in research labs| University of Manchester
- Project Management for Researchers | University of Manchester
- R for Biochemist| Biochemical Society
- Essentials of Leadership | University of Manchester
- Project Management for Researchers | University of Manchester
- Introduction to RNA Therapeutics Certification | CPI RNA Centre of Excellence
- Sygnature Discovery's Bioscience Workshop for outstanding PhD and postdocs