

● Education

- **PhD in Biochemistry and Cell Biology** — Sep-2017 - Dec 2021  
Queen Mary University of London, England, UK, School of Biological and Behavioural Sciences  
**Research Project:** A novel interaction between Astrin and PP1: A biochemical analysis and study of its mitotic roles
- **Certificate of Learning and Teaching (CILT)** — Feb 2022 - Feb 2023  
Queen Mary University of London, England, UK, School of Biological and Behavioural Sciences
- **MPhil in Microbiology** — Sep-2013 - Sep 2015  
Quaid-I-Azam University, Islamabad, Pakistan Department of Biological Sciences  
**Research Project:** Production of silver nanoparticles using Fungi: study its application in a biological system.

● Summary of research skills and experience

As a PhD in cell biology, biochemistry, and molecular biology over 4 years, I have developed a broad range of research skills and experience such as Experimental design and implementation, Molecular biology techniques, Biochemical techniques, Cell biology techniques, Data analysis, Scientific writing. Overall, my six years of experience in cell biology, biochemistry, and molecular biology have equipped me with a wide range of research skills that are essential for success in academia and industry.

● Laboratory skills

<b>Cell biology:</b> Mammalian TC Cell viability assays Fluorescence microscopy, microscopy Data Analysis (Fiji Image J, INCarta) <b>Molecular Biology:</b> PCR Bacterial Cloning DNA, RNA Extraction DNA Sequencing	<b>Biochemistry:</b> Biochemical assays Protein purification Protein interaction assays Western Blot Gel electrophoresis Flow cytometry <b>Medical Microbiology:</b> Bacterial/fungal culturing All Basic Micro Lab Procedures
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Bio-informatics frameworks and programming languages

PyMOL Alpha fold Various Multiple Alignment Tools Overleaf Microsoft (all programmes)	MATLAB (beginner) PyTorch (beginner) Bio-python Python libraries e.g., NumPy, Pandas (beginner)
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Work experience

01/01/2023 – Present

- **Teaching fellow** – School of Biological and Behavioural Sciences,  
Queen Mary University of London, United Kingdom

I am working as a teaching fellow at the Queen Mary University of London. My duties include deliver high-quality teaching, assessment, and supervision of undergraduate students, and to contribute to the life of the Department and the School by participating in groups / seminars, departmental meetings, and by undertaking administrative and advisory duties.

Jan 2022 - till July 2022

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**BBSRC Postdoctoral fellowship** – School of Biological and Behavioural Sciences  
Queen Mary, University of London, United Kingdom

I worked as a post-doctoral research associate to continue my investigation on Astrin-PP1 interactions. We used Biochemistry, Molecular Biology, and Cell Biology tools to understand Astrin's biological role in cellular events including spindle movements, spindle orientation and the regulation of kinetochore-microtubule interactions.

Jan 2022 - till July 2023

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**Lecturer and Module Organizer** – Coventry University, United Kingdom

I worked at Coventry University as a university lecturer and module organizer in biology, my primary role was to design and deliver high-quality teaching and learning experiences for students. This involved variety of tasks, including. Developing course materials, delivering lectures and tutorials, assessing student performance, providing support and guidance, and conducting research labs.

Jan 2012 - Dec 2014

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**Microbiologist Officer and public communication person**– AMSON Pharma, Pakistan

In my capacity as a Microbiologist Officer and Public Communication Person at AMSON Pharma, I hold a multifaceted role that encompasses both microbiology expertise and effective communication with the public. This unique position requires me to utilize my microbiology skills to ensure quality control and safety while also fostering positive relationships through transparent and informative public engagement.

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● **Honours, awards and grants**

- Post Graduate Research Scholarship award by Islamic Development bank—2017 - 2021
- Turkey Government Scholarship —2016-2017
- Culture exchange program UGRADE USA— Fall 2009
- Merit Scholarship throughout the bachelor's degree Program— 2009 - 2011
- Working on a grant to open a virtual university in Afghanistan

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● **Selected publication**

- **Gul, Parveen,** and Jehan Bakht. "Antimicrobial activity of turmeric extract and its potential use in food industry." *Journal of food science and technology* 52 (2015): 2272-2279.
- Conti, Duccio, **Gul Parveen,** Asifa Islam, José M. Martín-Durán, Richard W. Pickersgill, and Viji M. Draviam. "Kinetochores attached to microtubule-ends are stabilised by Astrin bound PP1 to ensure proper chromosome segregation." *Elife* 8 (2019): e49325.
- Zulkipli, Ihsan, Joanna Clark, Madeleine Hart, Roshan L. Shrestha, **Gul Parveen,** David Dang, Tami Kasichiwin, Izabela Kujawiak, Nishanth Sastry, and Viji M. Draviam. "Spindle rotation in human cells is reliant on a MARK2-mediated equatorial spindle-centering mechanism." *Journal of Cell Biology* 217, no. 9 (2018): 3057-3070.
- Hart, Madeleine, Ihsan Zulkipli, Roshan Lal Shrestha, David Dang, Duccio Conti, **Gul Parveen,** Izabela Kujawiak, and Viji M. Draviam. "MARK2/Par1b kinase present at centrosomes and retraction fibres corrects spindle off-centring induced by actin disassembly." *Open Biology* 9, no. 6 (2019): 180263.