

Tasaduq Hussain Wani

Email: th961@snu.edu.in

Research Experience:

Guest Faculty in Applied Biochemistry

Islamic University of Science and Technology (IUST)

Aug. 2023 - Oct. 2023

Post-doctoral Researcher

University of North Carolina at Charlotte

Nov. 2021 - Apr. 2023

- Investigated chaperone roles in DNA damage response using advanced techniques like CRISPR-X and mass spectrometry.

Post-doctoral Researcher

University of Oxford, Department of Oncology

Sept. 2020 - Sept. 2021

- Investigated functional significance of post-translational modifications in repair proteins.

PhD Research Scholar

Shiv Nadar University

2014 - 2019

- Focused on DNA damage by quinone-based anti-tumor agents.
- Received award of appreciation from Cancer Research Foundation India for thesis work.

Junior Research Fellow

Jamia Hamdard Institute of Molecular Medicine

2012 - 2014

- Studied genetic diversity of *Leishmania donovani* in Sri Lanka, India, and Nepal.

Project Assistant

The Center for Genomic Applications

2011 - 2012

- Contributed to Mycobacterium tuberculosis clone repository development.
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Education

- **Ph.D. in Life Sciences**
Shiv Nadar University, India (2014 – 2019)
 - **M.Sc. in Biochemistry**
University of Kashmir, India (2009 – 2011)
 - **B.Sc. in Biochemistry**
Sri Pratap College, Jammu and Kashmir, India (2005 – 2007)
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Technical Skills

- Mammalian Cell Culture | Gene Cloning | CRISPR/Cas9 | Gene KO/KD
 - Confocal Microscopy | Real-Time PCR | Immunoprecipitation/Co-IP
 - Western Blotting | Flow Cytometry/FACS | Mass Spectrometry
 - ImageStream | Comet Assay | Cell Migration/Invasion Assays
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Publications

- Vats, K., Tandon, R., Wani, T.H. et al. "Interaction of novel proteins in *Leishmania*." *BBA-Molecular Cell Research*, 2023.
 - Wani, T.H., Chowdhury, G., Chakrabarty, A. "Reactive oxygen species generation by YM155." *RSC Medicinal Chemistry*, 2021.
 - Wani, T.H., et al. "Sepantronium Bromide Causes Redox-Activated Oxidative DNA Damage." *Chem. Res. Toxicol.*, 2018.
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Book Chapters

- Wani, T.H., et al. "Oral Cancer and Prospects of Precision Medicine," *Precision Medicine and Human Health*, 2023.
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Awards & Recognition

- Appreciation Award for PhD Thesis from Cancer Research Foundation India (2020).
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Professional Memberships

- Associate Member, American Association for Cancer Research (AACR)