

Smriti Priya, Ph.D.
Senior Scientist
Systems Toxicology Group
CSIR-Indian Institute of Toxicology Research,
Lucknow-226001 UP, India

Employment

Sr. No.	Period	Place of Employment	Designation
1.	July 2018 - Present	CSIR-Indian Institute of Toxicology Research, Lucknow-India	Senior Scientist
2.	July 2014 -July 2018	CSIR-Indian Institute of Toxicology Research, Lucknow-India	Scientist
3.	Jan 2011-Feb 2014	DBMV, University of Lausanne, Switzerland	Postdoctoral Fellow
4.	July2009-March 2010	Central Potato Research Institute, Shimla, H.P. India	Research Associate

Qualifications

Sr. No	Degree	Year	University/Board
1	B.Sc	2003	Himachal Pradesh University, Shimla (HP)
2	M.Sc (Biochemistry)	2005	CSK-HPKV Palampur (HP)
3	Ph.D. (Biochemistry)	2009	Punjab Agricultural University, Ludhiana

Selected Publications

1. Tulika Srivastava, Divya Tyagi, Siraj Fatima, Malur Thirumalesh Vishnu Sathyan, Ritu Raj, Aniket Sharma, Minal Chaturvedi, Meetali Sinha, Sonia Kumari Shishodia, Dinesh Kumar, Sandeep K. Sharma, Jata Shankar, Aruna Satish, Smriti Priya (2023) A natural small molecule-mediated inhibition of alpha-synuclein aggregation leads to neuroprotection in *Caenorhabditis elegans*, *Journal of Neurochemistry*, 1-15, <https://doi.org/10.1111/jnc.15907>.
2. Shweta Devi, Minal Chaturvedi, Siraj Fatima, Smriti Priya (2022) Environmental factors modulating protein conformations and their role in protein aggregation diseases *Toxicology* 465, 153049 <https://doi.org/10.1016/j.tox.2021.153049>.
3. Sharma R, Srivastava T, Pandey AR, Mishra T, Gupta B, Reddy SS, Singh SP, Narender T, Tripathi A, Chandramouli B, Sashidhara KV, Priya S*, Kumar N* (2021) Identification of Natural Products as Potential Pharmacological Chaperones for Protein Misfolding Diseases *ChemMedChem*. 16;1
4. Shweta Devi, Kajal Aggrawal, Tulika Shrivastava, Ritu Raj, Dinesh Kumar Gupta, Smriti Priya (2021) Pesticide interactions induce alterations in secondary structure of malate dehydrogenase to cause instability and cytotoxicity, *Chemosphere* <http://doi.org/10.1016/j.chemosphere.2020.128074>

5. Tulika Srivastava, Ritu Raj, Amit Dubey, Dinesh Kumar, Rajnish K. Chaturvedi, Sandeep K. Sharma and Smriti Priya (2020) Fast kinetics of environmentally induced α -synuclein aggregation mediated by structural alteration in NAC region and result in structure dependent cytotoxicity, Scientific Reports, 10, 18412, <https://doi.org/10.1038/s41598-020-75361-6>.
6. Sandeep K. Sharma and Smriti Priya (2017) Expanding role of molecular chaperones in regulating α -synuclein misfolding; implications in Parkinson's disease, Cellular and Molecular Life Sciences, Feb;74(4):617-629 doi:10.1007/s00018-016-2340-9.
7. Tulika Srivastava, Sandeep K. Sharma and Smriti Priya (2018) Role of molecular chaperone network in understanding in-vitro proteotoxicity In Vitro Toxicology, Academic press, Elsevier Inc. USA, 143-164, ISBN: 978-0-12-804667-8.

Patents

1. Design, instrumentation and working of a hand-held platform device for on-site detection of meat authenticity and microbial contamination Ref.No.: 0058NF2023 India
2. A process for the preparation of agro material-based electrochemical sensing platform and product thereof. Indian Patent Application number: 202211028449 India

Research Thesis Guided

Ph.D. 02 completed, 04 Perusing

M.Tech: 01 completed

Masters: 05 completed

Contact

Vishvigyan Bhawan, 31, Mahatma Gandhi Marg

CSIR-Indian Institute of Toxicology Research

Lucknow - 226 001. Uttar Pradesh, India

Email: spriya@iitr.res.in, smritipriya3@gmail.com

<http://iitrindia.org/En/StaffDetail.aspx?id=151>

<https://orcid.org/my-orcid?orcid=0000-0002-3858-9207>