

Dr. Saurabh Sharma, Ph.D.



Assistant Professor (Guest Faculty)

PGDAV (Evening) College,

University of Delhi,

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DOB: September 25, 1987

Research Interest:

I am highly interested in translational cancer research, with the goal of developing innovative diagnostic and therapeutic strategies. My research interest also lies in the structural, biophysical, and biochemical characterization of biologically important molecules, with a particular focus on drug targets from pathogenic organisms, and the development of novel drugs.

Laboratory techniques & skills:

Molecular Biology:	Cloning, Expression, and Purification of Protein from Bacterial System.
Proteomics:	2-Dimensional gel electrophoresis, LC-MS
Bioinformatics:	Homology Modeling, Molecular Docking (Protein-Ligand).
Biophysics and Biochemistry:	Circular Dichroism Spectroscopy, Colorimetric and fluorometric assays, FTIR
Programs/Software:	PyMOL, AutoDock Tools
Cell culture:	Working experience with human cell lines (HepG2). Primary cell culture of synoviocytes of RA & OA tissue. Cell viability assays (MTT, Nitric oxide assay), Light and Fluorescence microscopy
Immunological Techniques:	ELISA, Western blot analysis, Immunoprecipitation.

Education:

2013- 2019	Ph.D., Laboratory of Bioresources & Environmental Biotechnology, Department of Environmental Studies , University of Delhi, Thesis Supervisors: Prof. Radhey Shyam Sharma (University of Delhi) and Dr. Ethayathulla AS (AIIMS, Delhi) Thesis Title: Evidence on environmental roots of non-communicable diseases and putative mechanism of phytochemical-based cure.
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2008- 2010	M.Sc. (Biotechnology, 78.38%), University of Rajasthan, Jaipur, (Raj.)
2005- 2008	B.Sc. (Biotechnology, 70.4%), University of Rajasthan, Jaipur, (Raj.)
2004	Intermediate, 68% Board of Rajasthan, Raj.
2002	High school, 71.1%, Board of Rajasthan, (Raj.)

Employment History:

Oct 11, 2023, to present	Assistant Professor (Guest faculty) in P.G.D.A.V. Evening College (University of Delhi), New Delhi, INDIA
Feb 08, 2021 to Feb 08, 2024	ICMR Postdoctoral Research Associate under Dr. Ethayathulla AS (Additional Professor), at Dept. of Biophysics, All India Institute of Medical Science, New Delhi, INDIA
July 01, 2011, to Oct 31, 2013	Project Assistant, Institute of Genomics and Integrative Biology (IGIB), Delhi, INDIA

Teaching Experience and Public Outreach:

January 2022- April 2023	Mentor, 1 M.Sc. Student, Department of Biophysics, AIIMS, Delhi.
Jan. 2020- May 2020	Mentor, 1 M.Sc. Student, Department of Environmental Studies, University of Delhi, Delhi.
January 2016- May 2016	Mentor, 1 M.Sc. Student, Department of Environmental Studies, University of Delhi, Delhi.

Reviewer in Peer-reviewed Journals:

Frontiers:	Frontiers in Bioinformatics
Taylor & Francis:	Journal of Biomolecular Structure and Dynamics
Hindawi	Scientifica

Publications:

Peer-reviewed journal articles (11):

Journal of Biomolecular Structure and Dynamics (2024)	Structure-based identification of potential natural compound inhibitors targeting bacterial cytoskeleton protein FtsZ from <i>Acinetobacter baumannii</i> by computational studies. Sanghati Roy Chowdhury, Redam Saha, Tirthankar Koley, Farah Naz, Saurabh Sharma , Mohd Imran Khan, Manoj Kumar, Punit Kaur and Abdul S. Ethayathulla
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International Journal of Biological Macromolecules (2023)	Putative interactions between transthyretin and endosulfan II and its relevance in breast cancer. Saurabh Sharma , Lakshay Malhotra, Paromita Mukherjee, et.al.
Journal of Molecular Structure (2022)	Genistein: A novel inhibitor of IL-6/IL-6R interface of the Interleukin-6-mediated STAT3 dependent pathway of carcinogenesis. Saurabh Sharma , Lakshay Malhotra et. al
BBA-Molecular cell research (2022)	Mechanism of apoptosis activation by Curcumin rescued mutant p53Y220C in human pancreatic cancer. Lakshay Malhotra, Saurabh Sharma , Gururao Hariprasad, et. al
PeerJ (2019)	Protein signature linking history of miscarriages and metabolic syndrome: A proteomic study among North Indian women. Saurabh Sharma , Suniti Yadav, Ketaki Chandiok, et. al
Trends in Carbohydrate Research (2019)	Synovial fluid phosphoproteome profile of Indian-German Osteoarthritis: Serum albumin a potential marker. Sagarika Biswas, Karl-Heinz Frosch, Narendra Kumar Sharma, Rajesh Malhotra, Saurabh Sharma , Ashish Sarkar, et. al.
Ethnopharmacology (2018)	Antiproliferative, cell cycle arrest and apoptosis induction potential of the <i>Viscum articulatum</i> Burm. f. aqueous extract in leukemia cells. Ruchi mishra, Saurabh Sharma , Radhey Shyam Sharma, et. al
Phytomorphology (2018)	Purification and characterization of a lectin isoform of ribosome inactivating protein from <i>Viscum articulatum</i> parasitic on <i>Grewia tilifolia</i> . Ruchi Mishra, Archana Yadav, Saurabh Sharma , et al
IJPSR (2017)	Anticancer potential of leafless mistletoe (<i>Viscum angulatum</i>) from Western Ghats of India. Saurabh Sharma , Radhey Shyam Sharma, Milind Madhav Sardesai, Vandana Mishra
PLOS ONE (2013)	•New autoantigen identification in the synovial fluid of rheumatoid arthritis patients using immunoproteomics approach. Sagarika Biswas, Saurabh Sharma , Ashish Saroha, et al
Proteomics and Bioinformatics (2013)	•Conference proceeding: Comparative phosphoproteomics analysis of synovial fluid proteins in Indian – German Osteoarthritis patients. Sagarika Biswas, Saurabh Sharma , Ashish Sarkar et al

Book Chapter:

1. Sarthak Malhotra, Ruchi Mishra, Swagata Karmakar, Deepak Rawat, **Saurabh Sharma**, Savita Singh, Pankaj Kumar, Sirawung Raiping, Vandana Mishra (2018). Environmental factorsshaping plant-microbeassociations: Theirsignificance to improveplant health andvegetation restoration indegraded lands. ENRICHEDPUBLICATIONSPVT. LTD, 1-16, ISSN no. 978-81-934634-9-9.

Awards:

1. ICMR-Research Associate Fellowship
2. CSIR-Direct SRF

Conferences:

1. **5th International Health Conference in Oxford, UK, 2019.** Xanthatin, a sesquiterpene lactone, acts as a novel potent stabilizer for native form of transthyretin. **Saurabh Sharma**, A.S. Ethayathullah, Vandana Mishra, B. D. Banerjee, Radhey Shyam Sharma.
2. **27th Annual Meeting of the Indian Society for the Study of Reproduction and Fertility (ISSRF), AIIMS, New Delhi, 2017.** Understanding the Link between Adverse Pregnancy Outcomes and Metabolic Syndrome through Proteomics. **Saurabh Sharma**, Suniti, Ketki, K N Saraswathy, Vandana Mishra.
3. **Trends in Cell and Molecular Biology at BITS Pilani K K Birla Goa Campus, Goa, 2015.** Identification of new therapeutic targets in the plasma of breast cancer patients using proteomic approach. **Saurabh Sharma**, Vandana Mishra, A.S.Ethayathullah, B. D. Banerjee, Radhey Shyam Sharma.
4. **7th Annual Meeting of Proteomics Society (India) at VIT, Vellore 2015.** Host Specific Variation in Proteins of Semi Parasitic Plant (Mistletoe) with Anti-Cancer Potentials. **Saurabh Sharma**, Radhey Shyam Sharma, A.S.Ethayathullah, Vandana Mishra.
5. **5th Annual Meeting of Proteomics Society (India) at IISc Bangalore 2013.**Comparative profiling of synovial fluid proteome in the Indian-German osteoarthritis patients. **Saurabh Sharma**, Ashish Sarkar, Pooja Kumari, Rupsi Kharb, Rajesh Malhotra, Sagarika Biswas.

References:

- 1) **Prof. R S Sharma**
Professor, Department of Environmental Studies,
University of Delhi, Delhi-110007, INDIA
E-mail: radheyss26@gmail.com
- 2) **Dr. Ethayatulla AS**
Additional Professor, Department of Biophysics
AIIMS, Delhi, INDIA
E-mail: ethayathulla@gmail.com

I hereby proclaim that all the information equipped above is true to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read 'Saurabh', with a long horizontal stroke extending to the right.

Saurabh Sharma