

PROF. SARIPELLA SRIKRISHNA

Professor of Biochemistry | Chief Vigilance Officer, BHU

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PROFESSIONAL PROFILE

Professor of Biochemistry at Banaras Hindu University and ICMR International Fellow with research spanning neurodegeneration, cancer biology, transgenic *Drosophila* disease models, drug discovery, advanced microscopy, and nano/quantum sensor-based biomedical technologies. Completed doctoral training at Banaras Hindu University and postdoctoral/visiting research at Stanford University and SLAC, including work in cryo-electron microscopy. Recipient of the 8th Visitor's Award for Innovation (2025). The research programme integrates genetic and molecular disease mechanisms with therapeutic-target identification, small-molecule and herbal screening, bioimaging, and antibody/aptamer-based sensing. The CV records 84 unique peer-reviewed journal articles, externally funded projects from ICMR, SERB, DBT, DST, MoE/SPARC and other agencies, patents, doctoral supervision, and substantial academic and institutional leadership experience.

CAREER HIGHLIGHTS

Current academic position	Professor, Department of Biochemistry, Banaras Hindu University (2017-present)
Institutional responsibility	Chief Vigilance Officer, Banaras Hindu University (2024-present)
International experience	Visiting Professor / Visiting Scientist, Stanford University and SLAC, USA
Major recognition	8th Visitor's Award for Innovation, 2025
Research focus	Neurodegeneration • Cancer biology • <i>Drosophila</i> disease models • Drug discovery • Cryo-EM • Super-resolution microscopy • Biosensors
Research supervision	12 Ph.D. scholars guided; 6 pursuing; 80+ Master's theses guided

EDUCATION

2008 Ph.D. in Biochemistry, Banaras Hindu University, Varanasi

1996 M.Sc. in Biochemistry, Andhra University, Visakhapatnam

1993 B.Sc., Andhra University, Visakhapatnam

ACADEMIC APPOINTMENTS

2017-present Professor, Biochemistry, Banaras Hindu University

2018-2019 Visiting Professor, Stanford University, California, USA

2017-2020 Adjunct Professor, Interdisciplinary School of Life Sciences, BHU

2014-2017 Associate Professor, Biochemistry, BHU

2011-2014 Assistant Professor (Stage 3), Biochemistry, BHU

2006-2011 Assistant Professor (Stage 2), Biochemistry, BHU

2004-2005 Assistant Professor (Stage 1), Biochemistry, BHU

1998-2004 Lecturer, Biochemistry, BHU

RESEARCH GRANTS

Duration	Project	Funding agency	Amount
2023-2026	Development of exosome-based drug delivery system for naturally inspired novel multifunctional neuroprotective molecules and their biological evaluation in Alzheimer's disease models	ICMR-EMR/2021-10363	₹53,00,000
2023-2026	Design, synthesis, and biological evaluation of mechanism-based novel theranostic agents for Alzheimer's disease	SERB, New Delhi	₹44,00,000.25
2023-2025	Nano Ion-Chromatograph in Action: Sustainable & Scalable Quantum Dots Paves a Facile Route for Rare-Earth Ions Separation Through Advanced Hydrometallurgy	Ministry of Mines, New Delhi	₹53,95,000
2021-2023	Screening and identification of potent diagnostic and therapeutic targets for COVID-19	IoE, MoE, BHU	₹10,00,000
2019-2022	Development of novel near infrared fluorescence imaging probes for detecting amyloid beta species in eyes of Alzheimer's disease animal model	ICMR-EMR/2019-3088	₹37,00,000
2019-2021	Designing of integrated sensor arrays for multianalyte detection for higher quality of life / better human health monitoring	SPARC-MHRD, Indo-UK	₹56,80,000
2015-2019	Identification of novel genetic/molecular candidates responsible for metastatic cancers using RNAi and in vitro/in vivo screening of synthetic compounds in Drosophila	SERB, New Delhi	₹45,84,000
2019-2022	Natural Template Based Novel Neuroprotective Molecules for the Management of Alzheimer's Disease	SERB, New Delhi	₹33,71,000
2013-2016	Genetic and molecular studies on Parkin interactors associated with mitochondrial dysfunction in Parkinson's disease	DBT, New Delhi	₹40,00,000

Duration	Project	Funding agency	Amount
2013-2016	Effect of withanolide on chronic circadian rhythm disruption-induced cognitive deficit in mice	DST-CSI, New Delhi	₹35,00,000
2012-2013	Identification and characterization of novel genetic/molecular candidates of cancer progression and metastasis using genomic and proteomic approaches in fly model system	UGC-UPE, BHU	₹2,00,000
2009-2012	Identification of Leishmanial antigens modulating NRAMP1 efflux pump function	DBT, New Delhi	₹50,00,000

HONORS & AWARDS

- 2025 — 8th Visitor's Award for Innovation, received from the President of India.
- 2019 — Visiting Scientist, SLAC National Accelerator Laboratory and Stanford University, CA, USA.
- 2018-19 — ICMR International Fellowship.
- 1997 — Junior Research Fellowship (JRF), CSIR, New Delhi.
- 1997 — SLET Lectureship, Andhra Pradesh College Service Commission — qualified twice.

PATENTS

2026 “Biomarker-Alzheimer: An Imaging Probe for Detection of Key Biomarkers in Alzheimer's Disease.” Application No. 202211027649. Gyan Modi, Himanshu Rai, Brijesh Singh, Saroj Kumar, Rishab Singh, Sarika Gupta, Sairam Krishnamurthy, Gauri Shankar, S. Srikrishna.

2024 “A multifunctional diarylurea-hydroxyamidine based compound for treatment of Alzheimer's disease.” Application No. 202211001482; filed 12 January 2021. Gyan Modi, Yash Pal Singh, C. Praveen Kumar, Meenu Yadav, Gauri Shankar, Gourav Singh, Saroj Kumar, S. Srikrishna.

PUBLICATIONS

1. Himanshu Rai, Rishabh Singh, Gauri Shankar, Sanskriti Rai, Prabhat Kumar, Aishwarya S. Nilakhe, Neha Singh, Poonam Bhadoria, Gourav Singh, Venkatnarayan Ramanathan, Sarika Gupta, Sairam Krishnamurthy, Saripella Srikrishna, Saroj Kumar, Gyan Modi **(2026)** Discovery of NIRF theranostic probes targeting amyloid- β and cholinesterases in Alzheimer's disease models. *Nature Communications*, 17, 1567. DOI: 10.1038/s41467-025-68282-3.
2. Sunaina Kushwaha, Deepak Kumar, Prabhat Kumar, Pradeep Kumar, Sandhya Kumari, Neha Yadav, Muniyandi Singaravel, Saripella Srikrishna **(2026)** Insulin Producing Cells Specific *dlp2* Knockdown Induced T1D Model Reveals Circadian and Oxidative Stress Associated DEPs. *The FASEB Journal*, 40(10), e71943. DOI: 10.1096/fj.202600748RR.
3. Pradeep Kumar, Vaishali Raghuvanshi, Prabhat Kumar, Rohit Kumar, Brijesh Singh Chauhan, Diksha Katiyar, Saripella Srikrishna **(2026)** 4H-CRCXL Mitigates RasV12-Induced Phenotypes in Glioblastoma Model of Drosophila. *Molecular Carcinogenesis*. Advance online publication. DOI: 10.1002/mc.70161.
4. Saurabh Sharma, Shalini Sharma, Vaishali Raghuvanshi, Sandhya Kumari, Sher Singh, Ray J. Butcher, Saripella Srikrishna, Diksha Katiyar **(2026)** Design, synthesis, and evaluation of pyrano[3,2-c]coumarin derivatives for simultaneous targeting of amyloid- β 42 and acetylcholinesterase in a transgenic AD model of Drosophila. *RSC Advances*. DOI: 10.1039/D6RA01662F.
5. Sanjay Sharma, Prabhat Kumar, Tameshwar Prasad Jaiswal, Saripella Srikrishna, Arun Kumar Mishra, Satya Shila Singh **(2026)** Sweet lime peel extract as a substrate for cultivation of *Mastigocladus* sp. TA-8 and enhancement of thermostable phycocyanin with neuroprotective potential. *Algal Research*, 96, 104757. DOI: 10.1016/j.algal.2026.104757.
6. Shiwakshi Sharma, Namrata Joshi, Saripella Srikrishna, Konduru Rama Chandra Reddy, Partha Pratim Manna, Manoj Kumar Dash, Pankaj Kumar, Remya Jayakumar, Jyotsna Singh **(2026)** Potential anticancer activity of Shulva Yoga, a herbo-metallic compound, in loss of scrib induced cancer in Drosophila melanogaster. *Journal of Ayurveda and Integrative Medicine*, 17, 101292. DOI: 10.1016/j.jaim.2025.101292.
7. Vikas Yadav, Rohit Kumar, Saripella Srikrishna, Virendra Prasad **(2025)** Desulfonylative halogenation of arene sulfonyl chlorides using N-halosuccinimides: Synthesis, molecular docking, and anti-Alzheimer activity. *Bioorganic & Medicinal Chemistry Letters*, 128, 130321. DOI: 10.1016/j.bmcl.2025.130321.
8. Aayooosh Singh, Amit Kumar Singh, Pranjalee Yadav, Avanish Kumar Singh, Pradeep Kumar, Saripella Srikrishna, Vinod P. Singh **(2025)** A Stimuli Responsive Multifunctional Smart Luminophore with Aggregation-Induced Enhanced Emission. *Advanced Optical Materials*, 13, 2402464. DOI: 10.1002/adom.202502464.

9. Priyanka Tiwari, Prabhat Kumar, Saripella Srikrishna, Nikhat Jamal Siddiqi, Bechan Sharma (2025) Protective Role of Gallic Acid Against Corticosterone-Induced Hepatic Toxicity: Modulation of Oxidative Stress and Inflammatory Pathways in Wistar Rats. *Toxics*, 13, 897. DOI: 10.3390/toxics13100897.
10. Vaishali Raghuvanshi, Jyotsna Singh, Saurabh Sharma, Ray J. Butcher, Saripella Srikrishna, Diksha Katiyar (2025) Anti-metastatic cancer potential of 4H-chromene derivatives targeting JNK in scribble knockdown induced epithelial cancer model: In vivo and in silico studies. *Bioorganic Chemistry*, 163, 108741. DOI: 10.1016/j.bioorg.2025.108741.
11. Jyotsna Singh, Saripella Srikrishna (2025) Scribble knockdown induced metastasis, identification of its associated novel molecular candidates through proteome studies. *Biochemical and Biophysical Research Communications*, 769, 151999.
12. Rohit Kumar, Saripella Srikrishna (2025) JNK kinase regulates cachexia-like syndrome in scribble knockdown tumor model of Drosophila melanogaster. *Developmental Biology*, 517, 28-38. DOI: 10.1016/j.ydbio.2024.09.005.
13. Gauri Shankar, Prabhat Kumar, Sanskriti Rai, Aparajita Ghosh, Tanmaykumar Varma, Mushtaq Ahmad Wani, Sunil Kumar, Upesh Mandloi, Gireesh Kumar Singh, Prabha Garg, Onkar Kulkarni, Saripella Srikrishna, Saroj Kumar, Gyan Modi (2025) Discovery of novel hybrid tryptamine-rivastigmine molecules as potent AChE and BChE inhibitors exhibiting multifunctional properties for the management of Alzheimer's disease. *European Journal of Medicinal Chemistry*, 283, 117066. DOI: 10.1016/j.ejmech.2024.117066.
14. Poorvi Saraf, Bhagwati Bhardwaj, Akash Verma, Mohammad Aquib Siddiqui, Himanshu Verma, Pradeep Kumar, Samridhi Srivastava, Sairam Krishnamurthy, Saripella Srikrishna, Sushant Kumar Shrivastava (2025) Design, synthesis, and evaluation of benzydrylpiperazine-based novel dual COX-2/5-LOX inhibitors with anti-inflammatory and anti-cancer activity. *RSC Medicinal Chemistry*, 16, 200-220. DOI: 10.1039/D4MD00471J.
15. Gokila Vani S. U., Monika Bansal, Saripella Srikrishna, Shraddha Shilpi, Aabida Taslim, Rashika M., Sunaina Kushwaha, Sandhya Kumari (2025) Horizontal Augmentation via Ridge Splitting and Expansion for Implant Placement in Atrophic Sites: A Prospective Non-Randomized Controlled Trial. *Journal of Oral Implantology*, 51(6), 513-521. DOI: 10.1563/aaid-joi-D-24-00240.
16. Jitendra Kumar, Gauri Shankar, Sunil Kumar, Gourav Singh, T. A. Gajendra, Sanskriti Rai, Upesh Mandloi, Saripella Srikrishna, Saroj Kumar, Amit Kumar Singh, Pradeep Kumar, Kavindra Nath Tiwari, Sairam Krishnamurthy, Gyan Modi, Sunil Kumar Mishra (2025) Design, synthesis and biological evaluation of novel piperic acid and benzylpiperazine hybrid molecules for improvement of memory impairment via cholinesterase inhibitory activity. *Chemical Papers*, 79(1), 395-415. DOI: 10.1007/s11696-024-03787-7.
17. Pradeep Kumar, Rohit Kumar, Prabhat Kumar, Sunaina Kushwaha, Sandhya Kumari, Neha Yadav, Saripella Srikrishna (2024) LC-Orbitrap HRMS-Based Proteomics Reveals Novel Mitochondrial Dynamics Regulatory Proteins Associated with RasV12-Induced Glioblastoma (GBM) of Drosophila. *Journal of Proteome Research*, 23(11), 5030-5047. DOI: 10.1021/acs.jproteome.4c00502.
18. Shreanshi Agrahari, Ankit Kumar Singh, Ida Tiwari, Saripella Srikrishna (2024) Electrochemical deposition of Pd on MoS₂ supported graphene nanoflakes over functionalised MWCNTs as an immunosensor for detection of lung cancer biomarker. *Microchemical Journal*, 196, 109698. DOI: 10.1016/j.microc.2023.109698.
19. Pawan Kumar Sada, Amanpreet Kaur Jassal, Amit Bar, Prabhat Kumar, Saripella Srikrishna, Sumit Kumar, Alok Kumar Singh, Youngil Lee, Laxman Singh, Abhishek Rai (2024) Development of a new rhodamine 6G based probe and its application as an optical sensor of Cu²⁺ and Fe³⁺ ions: A comprehensive experimental and theoretical study. *Microchemical Journal*, 207, 111710. DOI: 10.1016/j.microc.2024.111710.
20. Gautam Kumar, Ananya Srivastava, Prabhat Kumar, Saripella Srikrishna, Vinod P. Singh (2024) A chromogenic diarylethene-based probe for the detection of Cu²⁺ in aqueous medium in Drosophila for early diagnosis of Alzheimer. *Heliyon*, 10, e24074. DOI: 10.1016/j.heliyon.2024.e24074.
21. Akash Verma, Digambar Kumar Waiker, Neha Singh, Abhinav Singh, Poorvi Saraf, Bhagwati Bhardwaj, Pradeep Kumar, Sairam Krishnamurthy, Saripella Srikrishna, Sushant Kumar Shrivastava (2024) Lead optimization-based design, synthesis, and pharmacological evaluation of quinazoline derivatives as multi-targeting agents for Alzheimer's disease treatment. *European Journal of Medicinal Chemistry*, 271, 116450. DOI: 10.1016/j.ejmech.2024.116450.
22. Gourav Singh, Gauri Shankar, Samir Ranjan Panda, Sunil Kumar, Sanskriti Rai, Himanshu Verma, Prabhat Kumar, Prasanta Kumar Nayak, V. G. M. Naidu, Saripella Srikrishna, Saroj Kumar, Gyan Modi (2024) Design, Synthesis, and Biological Evaluation of Ferulic Acid Template-Based Novel Multifunctional Ligands Targeting NLRP3 Inflammasome for the Management of Alzheimer's Disease. *ACS Chemical Neuroscience*, 15(7), 1388-1414. DOI: 10.1021/acschemneuro.3c00679.
23. Digambar Kumar Waiker, Akash Verma, T. A. Gajendra, Anima Roy, Pradeep Kumar, Surendra Kumar Trigun, Saripella Srikrishna, Sairam Krishnamurthy, Vincent Jo Davison, Sushant Kumar Shrivastava (2024) Design, synthesis, and biological evaluation of some 2-(3-oxo-5,6-diphenyl-1,2,4-triazin-2(3H)-yl)-N-phenylacetamide hybrids as MTDLs for Alzheimer's disease therapy. *European Journal of Medicinal Chemistry*, 271, 116409. DOI: 10.1016/j.ejmech.2024.116409.
24. Ananya Srivastava, Gautam Kumar, Prabhat Kumar, Saripella Srikrishna, Pranjal Chandra, Vinod P. Singh (2024) Thiazole-Based Silver Ion Sensor for Sequential Colorimetric Visualization of Epinephrine in the Brain Tissues of an Alzheimer's Disease Model of Mouse. *ACS Applied Bio Materials*, 7(5), 3271-3282. DOI: 10.1021/acsabm.4c00229.
25. Sarita Gond, Avanish Kumar Singh, Pranjalee Yadav, Pradeep Kumar, Saripella Srikrishna, Vinod P. Singh (2024) A coumarin-derived turn 'off-on-off' probe for selective sequential monitoring of Al³⁺ and Cu²⁺ ions with bio-imaging application. *Journal of Photochemistry and Photobiology A: Chemistry*, 454, 115744. DOI: 10.1016/j.jphotochem.2024.115744.
26. Sana Sarkar, Anuj Pandey, Sanjeev Kumar Yadav, Pragati Raghuvanshi, Mohammed Haris Siddiqui, Saripella Srikrishna, Aditya Bhushan Pant, Sanjay Yadav (2024) MicroRNA-29b-3p degenerates terminally differentiated dopaminergic SH-SY5Y cells by perturbation of mitochondrial functions. *Journal of Neurochemistry*, 168(7), 1297-1316. DOI: 10.1111/jnc.16086.
27. A. K. Kushwaha, A. K. Srivastava, P. Kumar, A. Kumar, Saripella Srikrishna, R. S. Singh (2024) Lysosome-targeting solid state NIR emissive donor-acceptor molecules: a study on photophysical modulation through architectural distinction. *New Journal of Chemistry*, 48(13), 5589-5598. DOI: 10.1039/D4NJ00295D.

28. Gourav Singh, Sunil Kumar, Samir Ranjan Panda, Prabhat Kumar, Sanskriti Rai, Himanshu Verma, Yash Pal Singh, Saroj Kumar, Saripella Srikrishna, V. G. M. Naidu, Gyan Modi (2024) Design, Synthesis, and Biological Evaluation of Ferulic Acid-Piperazine Derivatives Targeting Pathological Hallmarks of Alzheimer's Disease. *ACS Chemical Neuroscience*, 15(15), 2756-2778. DOI: 10.1021/acscchemneuro.4c00130.
29. Himanshu Rai, Rishabh Singh, Prahalad Singh Bharti, Prabhat Kumar, Sanskriti Rai, Tanmaykumar Varma, Brijesh Singh Chauhan, Aishwarya Srikant Nilakhe, Joy Debnath, Renu Dhingra, Vijay N. Mishra, Sarika Gupta, Sairam Krishnamurthy, Jian Yang, Prabha Garg, Saripella Srikrishna, Saroj Kumar, Gyan Modi (2024) Rhodanine composite fluorescence probes to detect pathological hallmarks in Alzheimer's disease models. *Sensors and Actuators B: Chemical*, 407, 135364. DOI: 10.1016/j.snb.2024.135364.
30. Nidhi Sachan, Saripella Srikrishna, Devendra Kumar Patel, Mahendra Pratap Singh (2024) Deferoxamine Ameliorates Cypermethrin-Induced Iron Accumulation and Associated Alterations. *Molecular Neurobiology*, 61(7), 4178-4187. DOI: 10.1007/s12035-023-03827-5.
31. Pawan Kumar Sada, Amit Bar, Amanpreet Kaur Jassal, Prabhat Kumar, Saripella Srikrishna, Alok Kumar Singh, Sumit Kumar, Laxman Singh, Abhishek Rai (2024) A Novel Rhodamine Probe Acting as Chemosensor for Selective Recognition of Cu²⁺ and Hg²⁺ Ions: An Experimental and First Principle Studies. *Journal of Fluorescence*, 34, 2035-2055. DOI: 10.1007/s10895-023-03412-y.
32. Jitendra Kumar, Gauri Shankar, Sunil Kumar, Jobin Thomas, Neha Singh, Saripella Srikrishna, Jitendra Satija, Sairam Krishnamurthy, Gyan Modi, Sunil Kumar Mishra (2024) Extraction, isolation, synthesis, and biological evaluation of novel piperic acid derivatives for the treatment of Alzheimer's disease. *Molecular Diversity*, 28, 1439-1458. DOI: 10.1007/s11030-023-10667-x.
33. Suyash Rai, Vijay K. Singh, Brijesh Singh Chauhan, Saripella Srikrishna, Preeti S. Saxena, Anchal Srivastava (2023) Functionalized WS₂ Quantum Dots as Fluorescent Nanoprobes for In Vivo Bioimaging. *ACS Applied Nano Materials*, 6(19), 17657-17667. DOI: 10.1021/acsanm.3c02883.
34. Nidhi Sachan, Neha Tiwari, Devendra Kumar Patel, Diksha Katiyar, Saripella Srikrishna, Mahendra Pratap Singh (2023) Dyshomeostasis of Iron and Its Transporter Proteins in Cypermethrin-Induced Parkinson's Disease. *Molecular Neurobiology*, 60(10), 5838-5852. DOI: 10.1007/s12035-023-03436-2.
35. Pidugu Venkata Ravi Kiran, Digambar Kumar Waiker, Akash Verma, Poorvi Saraf, Bhagwati Bhardwaj, Hansal Kumar, Abhinav Singh, Pradeep Kumar, Saripella Srikrishna, Surendra Kumar Trigun, Sushant Kumar Shrivastava (2023) Design and development of benzyl piperazine linked 5-phenyl-1,2,4-triazole-3-thione conjugates as potential agents to combat Alzheimer's disease. *Bioorganic Chemistry*, 139, 106749.
36. Gautam Kumar, Ananya Srivastava, Prabhat Kumar, Saripella Srikrishna, Vinod P. Singh (2023) Fluorescent Turn-On Anthracene-Based Aluminum(III) Sensor for a Therapeutic Study in Alzheimer's Disease Model of Drosophila. *ACS Chemical Neuroscience*, 14(15). DOI: 10.1021/acscchemneuro.3c00340.
37. Ananya Srivastava, Gautam Kumar, Prabhat Kumar, Saripella Srikrishna, Vinod P. Singh (2023) Quinazoli-4-one ionic liquid as a fluorescent sensor for NH₃ detection: Interaction with ctDNA, theoretical investigation and live cell bioimaging. *International Journal of Biological Macromolecules*, 235, 123832. DOI: 10.1016/j.ijbiomac.2023.123832.
38. Sunil Kumar Mishra, Saket Sinha, Amit Kumar Singh, Prabhat Upadhyay, Diya Kalra, Pradeep Kumar, Kavindra Nath Tiwari, Rajan Singh, Rakesh Kumar Singh, Arvind Kumar, Alok Tripathi, Brijesh Singh Chauhan, Saripella Srikrishna (2023) Green Synthesis, Characterization, and Application of Ascophyllum nodosum Silver Nanoparticles. *Regenerative Engineering and Translational Medicine*, 9(4), 518-532. DOI: 10.1007/s40883-023-00298-x.
39. Aayooosh Singh, Pranjalee Yadav, Saumya Singh, Pradeep Kumar, Saripella Srikrishna, Vinod Prasad Singh (2023) A multifunctional coumarin-based probe for distinguishable detection of Cu²⁺ and Zn²⁺: its piezochromic, viscochromic and AIE behavior with real sample analysis and bio-imaging applications. *Journal of Materials Chemistry C*, 11, 13056-13066. DOI: 10.1039/D3TC02554C.
40. Brijesh Singh Chauhan, Abhishek Rai, Avinash Sonkar, Kamini Tripathi, Sonal Upadhyay, Lallan Mishra, Saripella Srikrishna (2022) Neuroprotective Activity of a Novel Synthetic Rhodamine-Based Hydrazone against Cu²⁺-Induced Alzheimer's Disease in Drosophila. *ACS Chemical Neuroscience*, 13(10), 1566-1579. DOI: 10.1021/acscchemneuro.2c00144.
41. Brijesh Singh Chauhan, Rohit Kumar, Pradeep Kumar, Prabhat Kumar, Saket Sinha, Sunil Kumar Mishra, Kavindra Nath Tiwari, Alan T. Critchley, Balakrishnan Prithiviraj, Saripella Srikrishna (2022) Neuroprotective potential of flavonoid rich Ascophyllum nodosum (FRAN) fraction from the brown seaweed on an Aβ₄₂-induced Alzheimer's model of Drosophila. *Phytomedicine*, 95, 153872.
42. Yash Pal Singh, Navneet Kumar, Khushbu Priya, Brijesh Singh Chauhan, Gauri Shankar, Saroj Kumar, Gireesh Kumar Singh, Saripella Srikrishna, Prabha Garg, Geeta Rai, Gyan Modi (2022) Exploration of Neuroprotective Properties of Naturally Inspired Multifunctional Molecule (F24) Against Oxidative Stress and Amyloid β-Induced Neurotoxicity in Alzheimer's Disease Models. *ACS Chemical Neuroscience*, 13(1), 27-42. DOI: 10.1021/acscchemneuro.1c00443.
43. Anuj Pandey, Sana Sarkar, Sanjeev Kumar Yadav, S. S. Yadav, Saripella Srikrishna, M. H. Siddiqui, et al. (2022) Studies on Regulation of Global Protein Profile and Cellular Bioenergetics of Differentiating SH-SY5Y Cells. *Molecular Neurobiology*, 59(3), 1799-1818.
44. Prashant Rai, Jyotsna Singh, Rohit Kumar, Srikrishna Saripella, Nageswara Rao Golakoti (2022) Design, synthesis, in vitro, and in vivo anti-cancer evaluation of the novel spirobenzopyrans on epithelial cancer model of Drosophila melanogaster. *Chemical Papers*, 76(10), 6401-6413. DOI: 10.1007/s11696-022-02321-x.
45. Pranjalee Yadav, Rohit Kumar, Saripella Srikrishna, Anoop Kumar Pandey, Lokman H. Choudhury, Chandan Upadhyay, Vinod P. Singh (2022) A reversible and efficient probe for dual mode recognition of Al³⁺ and Cu²⁺ with logic gate behaviour: Crystal structure, theoretical and in-vivo bio-imaging investigations. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 267, 120552. DOI: 10.1016/j.saa.2021.120552.
46. Sarita Gond, Pranjalee Yadav, Brijesh Singh Chauhan, Saripella Srikrishna, Vinod P. Singh (2022) Development of an 'OFF-ON-OFF' colorimetric and fluorometric pH sensor for the study of physiological pH and its bioimaging application. *Journal of Molecular Structure*, 1252, 132147. DOI: 10.1016/j.molstruc.2021.132147.

47. Yash Pal Singh, Himanshu Rai, Gourav Singh, Gireesh Kumar Singh, Sunil Mishra, Saroj Kumar, Saripella Srikrishna, Gyan Modi (2021) A review on ferulic acid and analogs based scaffolds for the management of Alzheimer's disease. *European Journal of Medicinal Chemistry*, 215, 113278.
48. Avinash Kumar Sonkar, Abhishek Rai, Kamini Tripathi, Richa Yadav, Manjari Shukla, Brijesh Singh Chauhan, Saripella Srikrishna, Lallan Mishra (2021) A dual optical probe with larger Stokes shift for simultaneous detection of Cu²⁺ and Zn²⁺ ions and aggregation-induced enhanced emission empowering selective detection of Cu²⁺ ions. *Sensors and Actuators B: Chemical*, 327, 129011. DOI: 10.1016/j.snb.2020.129011.
49. Kedar Sahoo, Deepak Khare, Saripella Srikrishna, Ashutosh Kumar Dubey, Manoj Kumar (2020) Development of luminescent atacamite nanoclusters for bioimaging and photothermal applications. *Nanotechnology*, 31(26), 265102. DOI: 10.1088/1361-6528/ab7de5.
50. Romi Dwivedi, Saumya Singh, Brijesh Singh Chauhan, Saripella Srikrishna, Anoop Kumar Panday, Lokman H. Choudhury, Vinod Prasad Singh (2020) Aroyl hydrazone with large Stokes shift as a fluorescent probe for detection of Cu²⁺ in pure aqueous medium and in vivo studies. *Journal of Photochemistry and Photobiology A: Chemistry*, 395, 112501.
51. S. Kumar, C. Gautam, B. S. Chauhan, Saripella Srikrishna, R. S. Yadav, S. B. Rai (2020) Enhanced mechanical properties and hydrophilic behavior of magnesium oxide added hydroxyapatite nanocomposite: A bone substitute material for load bearing applications. *Ceramics International*, 46(10), 16235-16248.
52. P. Upadhyay, S. K. Mishra, S. Purohit, G. P. Dubey, B. Singh Chauhan, Saripella Srikrishna (2019) Antioxidant, antimicrobial and cytotoxic potential of silver nanoparticles synthesized using flavonoid-rich alcoholic leaves extract of *Reinwardtia indica*. *Drug and Chemical Toxicology*, 42(1), 65-75.
53. V. P. Singh, R. Dwivedi, D. P. Singh, S. Singh, A. K. Singh, B. S. Chauhan, Saripella Srikrishna (2019) Logic gate behavior and intracellular application of a fluorescent molecular switch for the detection of Fe³⁺ and cascade sensing of F⁻ in pure aqueous media. *Organic & Biomolecular Chemistry*, 17, 7497-7506.
54. N. Kumar, A. Gautam, A. K. Dubey, R. Ranjan, A. Pandey, B. Kumari, G. Singh, S. Mandotra, P. S. Chauhan, Saripella Srikrishna, V. Dutta, S. Mallick (2019) GABA mediated reduction of arsenite toxicity in rice seedling through modulation of fatty acids, stress responsive amino acids and polyamines biosynthesis. *Ecotoxicology and Environmental Safety*, 173, 15-27.
55. C. Singh, J. Kumar, P. Kumar, B. S. Chauhan, K. N. Tiwari, S. K. Mishra, Saripella Srikrishna, R. Saini, G. Nath, J. Singh (2019) Green synthesis of silver nanoparticles using aqueous leaf extract of *Premna integrifolia* (L.) rich in polyphenols and evaluation of their antioxidant, antibacterial and cytotoxic activity. *Biotechnology & Biotechnological Equipment*, 33, 359-371.
56. A. K. Singh, S. Yadav, B. S. Chauhan, N. Nandy, R. Singh, K. Neogi, J. K. Roy, Saripella Srikrishna, R. K. Singh, P. Prakash (2019) Classification of Clinical Isolates of *Klebsiella pneumoniae* based on their in vitro biofilm forming capabilities and elucidation of the biofilm matrix chemistry with special reference to the protein context. *Frontiers in Microbiology*, 10, 669.
57. Amarish Kumar Yadav, Saripella Srikrishna (2019) scribble (scrib) knockdown induces tumorigenesis by modulating Drp1-Parkin mediated mitochondrial dynamics in the wing imaginal tissues of *Drosophila*. *Mitochondrion*, 44, 103-110. DOI: 10.1016/j.mito.2018.01.006.
58. Swati Sharma, Rajesh Kumar, Puja Kumari, Ravindra Nath Kharwar, Amarish Kumar Yadav, Srikrishna Saripella (2019) Mechanically magnified chitosan-based hydrogel as tissue adhesive and antimicrobial candidate. *International Journal of Biological Macromolecules*, 125, 109-115. DOI: 10.1016/j.ijbiomac.2018.12.018.
59. Abhishek Rai, Alok Kumar Singh, Kamini Tripathi, Avinash Kumar Sonkar, Brijesh Singh Chauhan, Saripella Srikrishna, Tony D. James, Lallan Mishra (2018) A quick and selective rhodamine based 'smart probe' for 'signal-on' optical detection of Cu²⁺ and Al³⁺ in water, cell imaging, computational studies and solid state analysis. *Sensors and Actuators B: Chemical*, 266, 95-105. DOI: 10.1016/j.snb.2018.02.019.
60. H. Mishra, S. K. Singh, V. K. Singh, J. Singh, Saripella Srikrishna, A. Srivastava (2018) Highly stable and bio-compatible luminescent molybdenum disulfide quantum dots for imaging of alimentary canal in *Drosophila*. *Journal of Luminescence*, 202, 111-117.
61. Romi Dwivedi, Divya Pratap Singh, Brijesh Singh Chauhan, Saripella Srikrishna, Anoop Kumar Panday, Lokman H. Choudhury, Vinod Prasad Singh (2018) Intracellular application and logic gate behavior of a 'turn off-on-off' type probe for selective detection of Al³⁺ and F⁻ ions in pure aqueous medium. *Sensors and Actuators B: Chemical*, 258, 881-894. DOI: 10.1016/j.snb.2017.11.173.
62. Kamini Tripathi, Abhishek Rai, Amarish Kumar Yadav, Saripella Srikrishna, Niraj Kumari, Lallan Mishra (2017) Fluorescein hydrazone-based supramolecular architectures, molecular recognition, sequential logic operation and cell imaging. *RSC Advances*, 7(4), 2264-2272.
63. Navin Kumar, Arvind Kumar Dubey, Atul Kumar Upadhyay, Ambedkar Gautam, Ruma Ranjan, Saripella Srikrishna, Nayan Sahu, Soumit Kumar Behera, Shekhar Mallick (2017) GABA accretion reduces Lsi-1 and Lsi-2 gene expressions and modulates physiological responses in *Oryza sativa* to provide tolerance towards arsenic. *Scientific Reports*, 7, 8786. DOI: 10.1038/s41598-017-09428-2.
64. Prashant Swapnil, Amarish Kumar Yadav, Saurabh Srivastav, Naveen K. Sharma, Saripella Srikrishna, Ashwani K. Rai (2017) Biphasic ROS accumulation and programmed cell death in a cyanobacterium exposed to salinity (NaCl and Na₂SO₄). *Algal Research*, 23, 88-95. DOI: 10.1016/j.algal.2017.01.014.
65. Sandeep Kumar Singh, Saurabh Srivastav, Amarish Kumar Yadav, Saripella Srikrishna (2017) Knockdown of APPL mimics transgenic Aβ-induced neurodegenerative phenotypes in *Drosophila*. *Neuroscience Letters*, 648, 8-13.
66. Sandeep Kumar Singh, Saurabh Srivastav, Amarish Kumar Yadav, Saripella Srikrishna, George Perry (2016) Overview of Alzheimer's Disease and Some Therapeutic Approaches Targeting Aβ by Using Several Synthetic and Herbal Compounds. *Oxidative Medicine and Cellular Longevity*, 2016, 7361613. DOI: 10.1155/2016/7361613.
67. Amarish Kumar Yadav, Saripella Srikrishna, S. C. Gupta (2016) Cancer Drug Development Using *Drosophila* as an In Vivo Tool: From Bedside to Bench and Back. *Trends in Pharmacological Sciences*, 37(9), 789-806.

68. Abhishek Rai, Niraj Kumari, Ashish Kumar Srivastava, Sandeep Kumar Singh, Saripella Srikrishna, Lallan Mishra (2016) Rhodamine hydrazone as OFF-ON-OFF type selective sequential sensor of Al³⁺ and N³⁻ ions. *Journal of Photochemistry and Photobiology A: Chemistry*, 319-320, 78-86. DOI: 10.1016/j.jphotochem.2016.01.003.
69. Akhil Kumar, Swati Srivastava, Shubhandra Tripathi, Sandeep Kumar Singh, Saripella Srikrishna, Ashok Sharma (2016) Molecular insight into amyloid oligomer destabilizing mechanism of flavonoid derivative 2-(4'-benzyloxyphenyl)-3-hydroxy-chromen-4-one through docking and molecular dynamics simulations. *Journal of Biomolecular Structure and Dynamics*, 34(6), 1252-1263. DOI: 10.1080/07391102.2015.1074943.
70. P. Srivastava, S. S. Razi, R. Ali, S. Srivastav, S. Patnaik, Saripella Srikrishna, A. Misra (2015) Highly sensitive cell imaging 'Off-On' fluorescent probe for mitochondria and ATP. *Biosensors and Bioelectronics*, 69, 179-185.
71. Masood Ahmad Rizvi, Mehvash Zaki, Mohd. Afzal, Manoj Mane, Manjeet Kumar, Bhahwal Ali Shah, Saurabh Srivastav, Saripella Srikrishna, Ghulam Mustafa Peerzada, Sartaj Tabassum (2015) Nuclear blebbing of biologically active organoselenium compound towards human cervical cancer cell (HeLa): In vitro DNA/HSA binding, cleavage and cell imaging studies. *European Journal of Medicinal Chemistry*, 90, 876-888.
72. Rahman Alizadeh, Imtiyaz Yousuf, Mohd. Afzal, Saurabh Srivastav, Saripella Srikrishna, Farukh Arjmand (2015) Enantiomeric fluoro-substituted benzothiazole Schiff base-valine Cu(II)/Zn(II) complexes as chemotherapeutic agents: DNA binding profile, cleavage activity, MTT assay and cell imaging studies. *Journal of Photochemistry and Photobiology B: Biology*, 143, 61-73.
73. Saurabh Srivastav, Sandeep Kumar Singh, Amarish Kumar Yadav, Saripella Srikrishna (2015) Folic acid supplementation rescues anomalies associated with knockdown of parkin in dopaminergic and serotonergic neurons in Drosophila model of Parkinson's disease. *Biochemical and Biophysical Research Communications*, 460(3), 780-785.
74. Saurabh Srivastav, Sandeep Kumar Singh, Amarish Kumar Yadav, Saripella Srikrishna (2015) Folic Acid supplementation ameliorates oxidative stress, metabolic functions and developmental anomalies in a novel fly model of Parkinson's disease. *Neurochemical Research*, 40, 1350-1359. DOI: 10.1007/s11064-015-1598-x.
75. Shatabdi Paul, Prem Prakash Solanki, Uday Pratap Shahi, Saripella Srikrishna (2015) Epidemiological Study on Breast Cancer Associated Risk Factors and Screening Practices among Women in the Holy City of Varanasi, Uttar Pradesh, India. *Asian Pacific Journal of Cancer Prevention*, 16(18), 8163-8171. DOI: 10.7314/APJCP.2015.16.18.8163.
76. Sandeep Kumar Singh, Ruchi Gaur, Akhil Kumar, Roshan Fatima, Lallan Mishra, Saripella Srikrishna (2014) The Flavonoid Derivative 2-(4'-Benzyloxyphenyl)-3-hydroxy-chromen-4-one Protects Against A β 42-Induced Neurodegeneration in Transgenic Drosophila: Insights from In Silico and In Vivo Studies. *Neurotoxicity Research*, 26(4), 331-350.
77. Sartaj Tabassum, Mehvash Zaki, Musheer Ahmad, Mohd. Afzal, Saurabh Srivastav, Saripella Srikrishna, Farukh Arjmand (2014) Synthesis and crystal structure determination of copper(II)-complex: In vitro DNA and HSA binding, pBR322 plasmid cleavage, cell imaging and cytotoxic studies. *European Journal of Medicinal Chemistry*, 83, 141-154. DOI: 10.1016/j.ejmech.2014.06.018.
78. Rakesh Kumar Gupta, Rampal Pandey, Gunjan Sharma, Ritika Prasad, Biplob Koch, Saripella Srikrishna, Pei-Zhou Li, Qiang Xu, Daya Shankar Pandey (2013) DNA Binding and Anti-Cancer Activity of Redox-Active Heteroleptic Piano-Stool Ru(II), Rh(III), and Ir(III) Complexes Containing 4-(2-Methoxypyridyl)phenyldipyrrromethene. *Inorganic Chemistry*, 52(7), 3687-3698. DOI: 10.1021/ic302196v.
79. Sandeep Kumar Singh, Priti Sinha, Lallan Mishra, Saripella Srikrishna (2013) Neuroprotective role of a novel copper chelator against A β 42-induced neurotoxicity. *International Journal of Alzheimer's Disease*, 2013, 567128. DOI: 10.1155/2013/567128.
80. Sartaj Tabassum, Ahmad Asim, Rais Ahmad Khan, Zahid Hussain, Saurabh Srivastav, Saripella Srikrishna, Farukh Arjmand (2013) Chiral Heterobimetallic Complexes Targeting Human DNA-Topoisomerase I α . *Dalton Transactions*, 42(48), 16749-16761.
81. Flora L. Thorp-Greenwood, Michael P. Coogan, Lallan Mishra, Niraj Kumari, Geeta Rai, Srikrishna Saripella (2012) The Importance of Cellular Localisation of Probes: Synthesis, Photophysical Properties, DNA Interactions and Cellular Imaging Properties of Rhenium Dppz Complexes with Known Cellular Localisation Vectors. *New Journal of Chemistry*, 36, 64-72.
82. Niraj Kumari, Brajesh Kumar Maurya, Raj Kumar Koiri, Surendra Kumar Trigun, Srikrishna Saripella, Mike Coogan, Lallan Mishra (2011) Cytotoxic activity, cell imaging and photocleavage of DNA induced by a Pt(II) cyclophane bearing 1,2-diaminoethane as a terminal ligand. *MedChemComm*, 2, 1208-1216. DOI: 10.1039/C1MD00159K.
83. Bajpai S., Mishra M., Kumar H., Tripathi K., Singh S. K., Srikrishna S., Pandey H. P., Singh R. K. (2010) Comparative study of connexins expression in diabetic and non-diabetic wounds. *Digest Journal of Nanomaterials and Biostructures*, 5(3), 857-862.
84. Bajpai S., Shukla V. K., Tripathi K., Srikrishna S., Singh R. K. (2009) Targeting connexin 43 in diabetic wounds: future perspectives. *Journal of Postgraduate Medicine*, 55, 143-149.

OTHER SCHOLARLY OUTPUTS

Preprint: Amarish Kumar Yadav, Roshan Fatima, Saripella Srikrishna (2019) scribble abrogation induces tumor growth through JNK-Wnt pathways depending on cellular microenvironment in Drosophila wing imaginal tissue. bioRxiv, 721407.

Meeting abstract: Nidhi Sachan, Saripella Srikrishna, Mahendra Pratap Singh (2022) Delineating the effect of deferroxamine on iron homeostasis in cypermethrin-induced Parkinsonism. *Journal of Neurochemistry*, 162, 154-155.

Meeting abstract: Prem Prakash Solanki, S. Paul, A. Pandey, H. Sabia, U. P. Shahi, Saripella Srikrishna (2014) To enhance the knowledge, awareness about the risk factor and screening practices of breast cancer among women in holy city Varanasi. *Journal of Cancer Science & Therapy*, 6(Suppl), abstract. DOI: 10.4172/1948-5956.S1.038.

Meeting abstract: Sandeep Kumar Singh, Priti Sinha, P. Nagarajuna Reddy, Lallan Mishra, Saripella Srikrishna (2012) Neuroprotective role of a novel copper chelator (amidoamine derivative) against A β 42-induced neurotoxicity in Drosophila model of Alzheimer's disease. *Annals of Neurosciences*, 19(Suppl), 74.

RESEARCH SUPERVISION

Ph.D.: 12 awarded; 6 scholars currently pursuing doctoral work. Master's level: more than 80 theses guided.

BOOK CHAPTERS

2026 Neha Yadav, Rajaneesh K. Gupta* and S. Srikrishna*. Drosophila as a Model to Study Trauma and Neurodegeneration: From Mechanistic Pathways to Therapeutic Insights. In *Advances in Neurological Disorders: From Molecular Mechanisms to Modern Therapies*. Apple Academic Press (Accepted).

2023 Nidhi Sachan, Brijesh Singh Chauhan, Saripella Srikrishna*. Plant bioactives as promising therapeutic agents in Parkinson's disease targeting oxidative stress during aging. In *Plant Bioactives as Natural Panacea Against Age-Induced Diseases*, pp. 329-357.

2017 Sandeep Kumar Singh, Saripella Srikrishna*, Rudy J. Castellani, George Perry. Antioxidants in the prevention and treatment of Alzheimer's disease. In *Nutritional Antioxidant Therapies: Treatments and Perspectives*, pp. 523-553.

PROFESSIONAL EXPERIENCE

- 2024-present — Chief Vigilance Officer, Banaras Hindu University, Varanasi.
- 2021-present — Member, Executive Council, Central University of Gujarat, Gujarat.
- 2020-present — Chairman, Organizing Committee, National Innovation & Start-up Policy (NISP), BHU / Ministry of Education, Government of India.
- 2024-2025 — Chairman, Residential Accommodation Allotment Committee (RAAC), BHU.
- 2020-2022 — Member, Residential Accommodation Allotment Committee (RAAC), BHU.
- 2020-present — Member, Core Committee, Institution of Eminence (IoE), Seed Grant & Senior Faculty Grant Committee, BHU.
- 2020-present — Member, Core Committee, Institution of Eminence (IoE), State-of-the-Art Equipment Grant Committee, BHU.
- 2020-present — Coordinator, Super-Resolution & High-Content Imaging Facilities, SATHI, BHU.
- 2019-present — Member, Core Management Committee, SATHI, Banaras Hindu University.
- 2018-present — President, MHRD Innovation Cell (MIC), Banaras Hindu University.
- 2017-present — Member, Institution of Eminence Committee, Banaras Hindu University.
- 2016-present — Member, University of Excellence Committee, Banaras Hindu University.
- 2017-present — Member, Board of Studies, Department of Biochemistry, Aligarh Muslim University, Uttar Pradesh.
- 2017-present — Member, Advisory Committee, Imaging Facility, Central Discovery Centre, Banaras Hindu University.
- 2015-present — Member, Advisory Committee, Multiphoton Laser Scanning Confocal Microscopy, Interdisciplinary School of Life Sciences, BHU.
- 2015-present — Member, Design and Innovation Centre (DIC), IIT (BHU).
- 2014-present — Member, Advisory Committee, Interdisciplinary School of Life Sciences, BHU.
- 1998-present — Member, Departmental Research Committee (DRC), Biochemistry, Banaras Hindu University.

ADMINISTRATIVE EXPERIENCE

- 2022-2025 — Member, Academic Council, Banaras Hindu University.
- 2022-2025 — Head, Department of Biochemistry, Banaras Hindu University.
- 2024-present — Member, Standing Committee, School Board, BHU.
- 2021-present — Chairman, Facts Finding-cum-Inquiry Committees, Banaras Hindu University.
- 2017-present — Member, PPC, Department of Biochemistry, Banaras Hindu University.
- 2022-2025 — Member, PPC, Institute of Science, Banaras Hindu University.
- 2022 - 2024 — Chairman, Selection Board, Teach to Enrich Programme, Banaras Hindu University.
- 2019-present — Chairman, Smart India Hackathon, BHU.
- 2018-present — President, MHRD Innovation Cell (MIC), Banaras Hindu University.
- 2018-present — Member, School Board, Banaras Hindu University.
- 2018-2022 — Treasurer, Malaviya Sishuvihar, Banaras Hindu University.
- 2018-2022 — Member, Management Committee, Malaviya School, BHU.
- 2017-2020 — Member, Compassionate Appointments Committee, Banaras Hindu University.
- 2015-2022 — Deputy Professor-in-Charge, Seminar Complex, Institute of Science, Banaras Hindu University.
- 2015-2024 — Member, University Admission Coordination Board (UACB), Banaras Hindu University.
- 2007-present — Member, Selection Committees for Faculty Recruitments, Banaras Hindu University.
- 2016-present — Member, Faculty Affairs Committee (FAC), Banaras Hindu University.
- 2000-present — Member, Admission Committee, UG & PG Courses, Banaras Hindu University.
- 2013-2015 — Member, Non-teaching Recruitment Committees, Banaras Hindu University.
- 2015-present — Member, School Board Recruitment Committee, BHU.

- 2012-2013 — Member, Mess Maintenance and Monitoring Committee, BHU.
- 2010-2012 — Member, Teachers' Grievance Committee, Banaras Hindu University.
- 2010-Present — Member, Selection Committee for JRF and SRF recruitments in Faculty of Science, Institute of Technology and Institute of Medical Sciences, BHU.

CONFERENCES / SYMPOSIA / WORKSHOPS PARTICIPATED

- 1999 — XXIII All India Cell Biology Conference, CCMB, Hyderabad.
- 2002 — National Laboratory Workshop on Multiphoton Confocal Microscopy, DST National Facility for Multiphoton Confocal Microscopy, Cytogenetics Laboratory, Banaras Hindu University.
- 2002 — XXVI All India Cell Biology Conference, ACTREC, Navi Mumbai.
- 2004 — XXVII All India Cell Biology Conference & International Symposium, University of Pune, Pune.
- 2006 — International Symposium on Environmental Factors, Cellular Stress and Evolution, Banaras Hindu University, Varanasi.
- 2006 — European Molecular Biology Organization (EMBO) Workshop, Department of Biological Sciences and Bioengineering, IIT Kanpur.
- 2007 — XXXI All India Cell Biology Conference & Symposium on "Stem Cells: Applications and Prospects", Banaras Hindu University, Varanasi.
- 2009 — Seminar and Training on Spectral Confocal LASER Scanning Microscopy, University of Delhi South Campus, New Delhi.
- 2009 — International Conference on Emerging Trends in Biotechnology (ETBT), Banaras Hindu University, Varanasi.
- 2010 — International Conference on "Role of Biomolecules in Food Security & Health Improvement (ICBFH)", Banaras Hindu University, Varanasi.
- 2010 — International Conference on "Functional Genomics: Challenges and Prospects", Banaras Hindu University, Varanasi.
- 2011 — Brain Storming Meeting on Translational Neuroscience, Brain Research Centre, BHU, Varanasi.
- 2011 — Reactive Oxygen Species: Roles in Animal and Plant Biology, Department of Biochemistry, Lucknow University, Lucknow.
- 2012 — International Conference on Advances in Biological Sciences (ICABS), Kannur University, Kerala.
- 2012 — Symposium on Population Genetics and Chromatin Dynamics, Banaras Hindu University, Varanasi.
- 2012 — Advanced Course on Genes and Behavior, National Centre for Biological Sciences (NCBS-TIFR), Bengaluru.
- 2014 — Application of Flow Cytometry in Biomedical Research, 15th Indo-US Flow Cytometry Workshop, Babasaheb Bhimrao Ambedkar University, Lucknow.
- 2015 — Eleventh Teacher/Researcher Training Workshop on "Teaching and Learning Genetics with Drosophila", Indian Institute of Science, Bengaluru.
- 2017 — Gene-environment Interaction in Development, Disease and Evolution, Department of Zoology, BHU, Varanasi.
- 2017 — 3rd Biennial Indian Drosophila Research Conference, IISER Bhopal.
- 2018 — SERB Group Monitoring Workshop, KIIT Campus, Bhubaneswar.
- 2021 — Represented the Indian team in the "Next Generation Water Action" global initiative; team placed among the top five of 25 teams, organized by Technical University of Denmark and Atal Innovation Mission.
- 2023 — Participated in the G20 Energy Transition Ministerial Meeting (ETMM-2023), Goa, 19-22 July 2023; invited by DST to showcase technology.

CONFERENCES / WORKSHOPS / PAC MEETINGS ORGANIZED

- 2023 — DST-IC-MAP & AHFC Expert Panel Review Meeting and Technology Demonstration on Hydrogen Energy Prototypes for Bulk Production Green Hydrogen & H2 Mobility, BHU, Varanasi, 9-10 October 2023.
- 2022 — SERB-sponsored Workshop on "Biological Evaluation of Brain Targeting Molecules" under SERB Scientific Social Responsibility Policy, IIT (BHU), 10-12 November 2022.
- 2022 — Convener, SERB Karyashala Workshop, Department of Biochemistry, Banaras Hindu University, 23-27 December 2022.
- 2022 — Convener, IBRO Workshop-cum-Symposium, Department of Biochemistry, Banaras Hindu University, 12-18 September 2022.
- 2016 — Co-Organizing Secretary, 26th National Congress of Parasitology, Department of Biochemistry, Institute of Science, BHU.

PROFESSIONAL MEMBERSHIPS

- Life Member, Indian Academy of Neurosciences (since 2015).
- Life Member, Alzheimer's & Related Disorders Society of India (ARDSI) (since 2011).
- Past Member, Indian Society of Cell Biology (since 1998).
- Past Member, Society of Biological Chemists, India (1994-1996).

COURSES TAUGHT

- Immunology, Cell Biology, Molecular Biology, Biomolecules and Microbial Biochemistry at Master's and Doctoral levels.
- Career counselling for M.Sc. Semester I-IV students and Ph.D. scholars on research fellowships, higher education and research opportunities.
- Conducted and participated in student seminars and orientation programmes for postgraduate and doctoral students.

INVITED TALKS — NATIONAL

- Exploring small molecule compounds for Bioimaging and Drug Discovery Applications — Refresher Course in Chemistry, University of Gorakhpur, 19 December 2023.
- Modeling Human diseases using transgenic Drosophila System — Department of Biochemistry, GITAM, Visakhapatnam, 14 July 2023.
- SERB-sponsored Workshop on “Biological evaluation of brain targeting molecules” under SERB Scientific Social Responsibility Policy — IIT (BHU), 10-12 November 2022.
- SARS-CoV-2: Structural insights, Vaccine development and future implications — GITAM University, Visakhapatnam, 30 January 2021.
- SERB Group Monitoring Workshop — KIIT Campus, Bhubaneswar, 22-23 June 2018.
- DBT Neurobiology Task Force — CGO Complex, New Delhi, 2016.
- Teacher/Researcher Training Workshop on “Teaching and Learning Genetics with Drosophila” — Indian Institute of Science, Bengaluru, 10 January 2015.
- Drosophila Meeting — Cytogenetics Section, Department of Zoology, BHU, 12-13 March 2014.
- Mini Symposium on Genomic and Proteomic Analysis of Cellular Functions — UGC-UPE Focus Area-II, Faculty of Science, BHU, 14 September 2013.
- National Training Course on “Allele Mining for Abiotic Stresses in Vegetable Crops” — IIVR, Varanasi, 24 February 2012.
- National Training Course on “Marker Assisted Breeding in Vegetable Crops” — IIVR, Varanasi, 23 May 2011.
- Workshop and hands-on training course on “Molecular Techniques in Cell Signaling and Bio-Medical Nanotechnology” — Biochemistry, IMS, BHU, 31 January 2010.

INVITED TALKS — INTERNATIONAL

- “Development of tissue specific transgenic Drosophila cancer model for small molecule drug screening and identification of molecular targets” — International Conference on Genetics and Epigenetics of Cancer (ICGEC-2023), JSSAHER, Mysuru, 30-31 October 2023.
- “Modeling Human diseases in Drosophila for potential therapeutics” — 12th Asia-Pacific Microscopy Conference (APMC 2020), Hyderabad International Convention Centre, 3-7 February 2020.
- “Confocal Microscopy: Applications in neuroscience” — IBRO-APRC Neuroscience School on Molecular Basis of Neuroinflammation Mediated Neurodegeneration, BHU, 1-14 September 2019.
- “Single particle Cryo-EM and its biological applications” — S2C2 Stanford Cryo-EM Workshop on Single Particle Structure Determination, SLAC / Stanford University, USA, 22-25 January 2019.
- “Cryo-Electron Tomography and its biomedical applications” — Cryo-EM Imaging Process Workshop on Tomography Imaging Workflow, SLAC / Stanford University, USA, 11-13 March 2019.

TRAINING & PROFESSIONAL DEVELOPMENT

- UGC-Sponsored Special Summer School, Academic Staff College, BHU — 11-31 May 2013.
- Advanced Course on Genes and Behavior Workshop, NCBS-TIFR, Bengaluru — 29 October-9 November 2012.
- Summer School, Academic Staff College, BHU — 29 July-18 August 2008.
- Refresher Course, Academic Staff College, BHU — 10-30 January 2008.
- Refresher Course, Academic Staff College, Jawaharlal Nehru University, New Delhi — 27 December 2004-20 January 2005.
- Orientation Course, Academic Staff College, BHU — 5 May-1 June 1998.

RESEARCH IDENTIFIERS & BIBLIOMETRICS

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Scopus Author ID: 55639734900

Scopus profile (verified 19 August 2026): 88 documents; h-index 29; i10-index 61; 2,730 citations from 2,016 documents.

Google Scholar: Profile ID UnBPXqsAAAAJ. Citation metrics should be updated directly from the live Google Scholar profile when preparing a dated submission.

PERSONAL DETAILS

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