

Dr. Shivam Mishra

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PROFESSIONAL SUMMARY

- Visiting Scientist, **Weizmann Institute of Science, Israel**, November 2025
- Assistant Professor (SF), Department of Zoology [Bioinformatics & Zoology (UG & PG)], S. S. Khanna Girls' Degree College, University of Allahabad, Allahabad from **8/March/2018** – cont....
- Project (PI) on In-silico Investigation of phytochemicals from Indian Medicinal Plant against Breast Cancer”, funded by IQAC, S. S. Khanna Girls’ Degree College, amount; 65000 inr, for 2 years from 2023 to 2025.

EDUCATION

Ph. D. in Bioinformatics, (2025) [Singhania University in collaboration with Indian Institute of Information Technology Allahabad, India,](#))

Thesis Title: In silico screening of phytochemicals from Indian medicinal plant (*Punica granatum* & *Saraca asoca*) for potential pharmacological activities and their experimental validation

M.Sc. Zoology 2019-2021

B.Ed. Biological Sciences 2017-2019

M.Sc. Bioinformatics 2014-2016

B.Sc. Biology 2011-2014

PUBLICATIONS

Articles

- Nand Lal Verma, Mohit Kumar, Shilendra Kumar, **Shivam Mishra**, Ram Sunil Kumar Lalji; Hari kant, Gautam Jaiswar, Nisha Rathor*, Synthesis and Computational Investigation of Ethyl 1-((2-chlorothiazol-5-yl)methyl)-1H-1,2,3-triazole-4-carboxylate moiety: A Multi-Disciplinary Approach, **Journal of Molecular Structure (IF:4.7)**
- Shagun Varshney, Rampravesh Pandey, **Shivam Mishra**, Akhilesh Kumar Maurya, Nidhi Mishra; Biogenic Synthesis of Silver Nanoparticles Using Azadirachta Indica and Thevetia Peruviana Leaf Extracts: Characterization, Antibacterial Analysis, and In-Silico-based Molecular Docking Studies for Potential Biomedical Applications; **Nano-Structures & Nano-Objects. 2025, (SCOPUS).**

- Ekhlakh Veg; Azam Raza; Smita Rai; Pratibha Bansal; Swati Sharma; Nidhi Mishra; Riya Gupta; **Shivam Mishra**; Seema Joshi; Abdul Rahman Khan; Tahmeena Khan, "Green synthesis of ZnO and α - $Fe2O3$ Nanoparticles mediated by *Livistona chinensis* leaf extract and their comparative evaluation of Biological, Environmental and Computational Studies", Environmental Sustainability (Springer), Oct. 2025 (RCS Sustainability). (IF: 4.9).
- **Mishra Shivam***, Kumar Prabhat, Mishra Nidhi. (2025, June). Computational screening of *Saraca asoca* phytochemicals against thymidine kinase and type II protease of herpes virus. International Journal of Emerging Technologies and Innovative Research, 12(6), i798–i807. <https://www.jetir.org>, (Peer Reviewed).
- **Mishra S***, Modanwal S, Kumar P, Mishra A, Mishra N. (2025, January) "Computational Evaluation of *Punica granatum* Leaf Phytochemicals against Multi-Drug-Resistant *E. coli*: Molecular Docking, ADMET, MD Simulation, and DFT Studies". Current Computer Aided Drug Design. (CCADD) Published online January 9, 2025. doi:10.2174/0115734099343126241105102839 (IF: 1.6).
- **Shivam Mishra*** (2024), "Exploring the Efficacy of Probiotics: A Comprehensive Review of Current Evidence and Future Directions", Eurasian Journal of Medical Advances, DOI: 10.14744/ejma.2023.06078., (Peer Reviewed).
- **Mishra, S***, Malviya S., (2023) "In Silico Investigation of Phytochemicals Against Typhoid: A Review". Indian Journal of Pharmaceutical and Biological Research, Vol. 11, no. 01, Apr. 2023, doi:10.30750/ijpbr.11.1.04. (Peer Reviewed).
- Shruti Mishra, Prashant Ankur Jain, Shamoon Ahmad, **Shivam Mishra**. (2020), Bioinformatics approach for COVID 19 (Corona virus) disease prevention treatment and drug validation, Eurasian Journal of Medicine and Oncology, Pages: 234-238, 2020. DOI: 10.14744/ejmo.2020.97358 (Peer Reviewed) (IF: 0.7)

Book Chapter

- Shivam Mishra*, Chapter 19- Profiling Natural Compounds Through Omics Technologies, Book: ADVANCING SCIENCES AND INNOVATION IN HEALTHCARE RESEARCH: HEALTH HORIZON, Elsevier (August 2025) ISBN: 978-0-443-33351-4.
- Shivam Mishra, Electromagnetic Radiation: The Powerful Tool in Medical Diagnosis and Treatment, Electromagnetic Radiation: Importance and Application, LAMBERT Academic Publishing, ISBN: 978-620-7-45539-3, 2023.

PATENT PUBLISHED IN IP INDIA IPR

- A patent on “MACHINE LEARNING-BASED ADVANCED IMAGE PROCESSING SYSTEM FOR EARLY DETECTION AND CLASSIFICATION OF BREAST CANCER” published in the Indian Patent office under IPR Act with reference number “202541036338”.
- A patent on “DEVELOPMENT OF AN AI-BASED CLINICAL DECISION SUPPORT SYSTEM FOR AYURVEDIC DRUG DOSAGE RECOMMENDATIONS” published in the Indian Patent office under IPR Act with reference number “202521018486A”.

PRESENTATION IN NATIONAL AND INTERNATIONAL SEMINAR/CONFERENCES

Poster Presented

- **Shivam Mishra**, Prabhat Kumar, Nidhi Mishra, “*Comprehensive Analysis of Punica granatum Leaf Extracts: Phytochemical Profiling and Computational Assessment Against Clostridium perfringens*” Advancements in Diagnostics Technologies: Global Healthcare Monitoring Organized by Department of Biotechnology, MNNIT Allahabad. 15th – 17th Nov 2024, ISBN:978-93-89947-40-3.
- **Shivam Mishra**, Prabhat Kumar, Nidhi Mishra, “*A Computational Studies of Phytochemicals from Punica granatum leaves against E. coli*” 2nd National Conference on Natural Product/AYUSH System of Medicine, Organized by EPL, Department of Pharmacology, PGIMER Chandigarh, RCFC (NR-1) of National Medicinal Plant Board Ministry of AYUSH, GoI. On 19th -21st April, 2024.

Oral presented

- **Shivam Mishra**, Prabhat Kumar, “*In silico evaluation of phytochemicals from Sarasa asoka against Herpes Virus*”. in international conference on “Indiscriminate Anthropogenic Impact: A trans-Disciplinary Approach to Environmental and Social Sustainability” Organized by Environment and Society (6th ICES),.
- **Shivam Mishra**, Mubusira Fatima, Shaima Afaf, “*Exploring the Antiviral Potential of Calotropis gigantea against Monkeypox: An Insilco approach rooted in traditional Medicine*”, ICSSR Sponsored, International Seminar on IKS & Global Education organized by S. S. Khanna Girls’ Degree College, Prayagraj on 23rd and 24th Nov/2024.
- **Shivam Mishra**, “*Kumbh Mela: Tradition and the rise of spiritual tourism*” in Two days National seminar on Kumbh Parv Parampara: Teerthraj Prayag ki Amulya Virasat under the ICSSR Sanctioned Research Program 12-13, December, 2024

- **Shivam Mishra**, “In Silico Investigation of Phytochemicals from Indian Medicinal Plant Against Typhoid ”in national seminar on “Science in Times to Come” Organized by S.S. Khanna Girls’ Degree College, Prayagraj, under, SCS, DBT, Govt. of India. March 17-18 2023.

WORKSHOPS & FDP

- **Workshop** on From Ideas to Assets: IPR Strategies for Success” held at IIIT Allahabad on 24th February 2024.
- **FDP** Organized by AICTE Training and Learning (ATAL) Academy, from 2022-10-10 to 2022-10-21 at Indian Institute of Information Technology, Allahabad.
- **FDP** on “Evolution from Offline to Online Teaching” (Duration of 5 days Organized by Satish Pradhan Dnyanasadhana College, Thane, Maharashtra.
- **Workshop** on “Beyond the classroom: Cultivating Health and Mental Wellness for all” organized by Non-Communicable Diseases (NCD) cell, CMO Office, Prayagraj, in Association with S. S. Khanna Girls’ Degree College, Prayagraj on 17 Sept/2024.
- **Workshops on** “Genomics for Crop Improvement” (Duration of 7 days at MNNIT Allahabad).
- **Online workshop on** “Next Generation Sequencing Certification” conducted by Biotechnika (Duration of 14 days).
- **Online Workshop on** “Molecular Biology Techniques” conducted by Biotechnika (Duration of 20 days).

PROFESSIONAL MEMBERSHIP

- Indian Science Congress Association (**ISCA**) (ID: L37799).
- American Society for Microbiology (**ASM**) (ID: 200332654I)