

CURRICULUM VITAE



Dr. Swati Shukla

Assistant Professor

(HOD)

Department of Biotechnology,

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Educational Qualifications: M.Sc., Ph.D.

Research interests:

Microbial biochemistry, Environmental microbiology, Biochemistry, Molecular biology.

Research Experience:

- M.Sc. project entitled "***Warfarin dosing in relation to cyp2c9 and vkorc gene polymorphisms in Indian population***" in 2010 under the guidance Prof. Suraksha Agarwal, S.G.P.G.I.M.S, Lucknow, U.P.
- Worked on the topic "***Cost effective production of α -Galactosidase from potent indigenous fungal strains***" in 2011 under the guidance of Dr. Sarad Kumar Mishra (Associate Professor), Department of Biotechnology, D.D.U. Gorakhpur University, Gorakhpur, U.P.

Awards/ Extra Achievements/Training:

- Qualified UP Common Entrance Test PhD CET-2012 Uttar Pradesh.
- Qualified RET (Research Eligibility Test)-2010 conducted by D.D.U. Gorakhpur University, Gorakhpur.

- Guest Lecture in HEC College of Institution, Haridwar.
- Got 2nd Prize in poster presentation in National Conference held on 18-19th October 2019 in Uttaranchal University, Dehradun.
- Completed training course in Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut entitled "*Molecular biology tools and its Application in Agriculture & Allied Sciences*" organized by CST, UP Centre of Excellence in Agriculture Biotechnology in collaboration with DBT funded Bioinformatics Infrastructure Facility, College of Biotechnology from December 01 to December 14, 2021.
- Participated in UGC sponsored online 4th refresher course (23rd July to 5th August, 2022) conducted by Deen Dayal Upadhyay Gorakhpur University, Gorakhpur and obtained A⁺.
- Short certificate course on artificial intelligence in biological science and technology (**Online**) organised by **BioLim** from 17-03-2025 to 26-03-2025.

Conferences/Workshops- Participation/Presentation:

- Participated in National Conference on “Biodiversity: Changing Patterns and Conservation Strategies” held at the Department of Botany, D.D.U. Gorakhpur University, Gorakhpur, Nov. 26-28, 2011.
- Participated in National Workshop on “**Sensitization of Women Scientists**” (13th August, 2012) sponsored by Department of Science and Technology, New Delhi, organized by Biozone Research Foundation, Gorakhpur and Department of Botany, D.D.U. Gorakhpur University, Gorakhpur.
- Short term training programme on “**Bioinformatical Approaches for Protein Sequence Analyses and Structure Predictions**” held at Centre of Excellence in Bioinformatics (COEBI), Bioinformatics Infrastructure Facility (BIF), Department of Biochemistry, University of Lucknow, Lucknow from February 8-9, 2013.
- Attended 1st Uttar Pradesh Science Congress (**Theme: Science for shaping the future of Uttar Pradesh**) held at Deen Dayal Upadhyay Gorakhpur University, Gorakhpur from March 02 to 04, 2013.
- Presented paper in International conference Harmony-2013 on “**Harmony with Nature in Context of Ecotechnological Intervention and Climate Change**” held at Department of Zoology, Environmental Science & Biotechnology, DDU Gorakhpur University, Gorakhpur, 11-13 November, 2013.
- Presented poster in International conference on Environment, Health and Industrial Biotechnology (Biosangam-2013) held at Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, 21-23 November, 2013.

- Participated in National Seminar on Recent Trends in Microbiology (15th March, 2014) organized by Department of Industrial Microbiology, DDU Gorakhpur University, Gorakhpur, Sponsored by UGC- New Delhi.
- Presented paper in International conference on “New Horizons in Green Chemistry & Technology” organized by Uttarakhand College of Applied & Life Sciences (UCALS), Uttarakhand University, Dehradun, 27th-28th November 2018.
- Presented poster in national conference on strategies for conservation & sustained utilization of biodiversity organized by Department of Biotechnology School of Applied & Life Sciences (SALS), Uttarakhand University, Dehradun, 18th- 19th October 2019.
- Presented Paper at National Seminar on “Biodiversity and its conservation through traditional knowledge” by Uttarakhand Science Education Research Centre (USERC) organised by SMJN PG College, 2023.

Research paper/ Book Chapter/ Abstract published:

Research Paper:

Dwivedi Vivek Dhar, Sharma Tanuj, **Shukla Swati**, Naik Gaurav and Mishra Sarad Kumar (2012), Insilico drug designing of potent inhibitors for PDE7B, A therapeutic target for Leukemia; *Research Journal of Pharmaceutical Sciences*, Vol 1(1), 10-15.

Gaurav Naik, **Swati Shukla** and Sarad Kumar Mishra (2013), Isolation and Characterization of Actinomycetes Isolates for Production of Antimicrobial Compounds; *Journal of Microbiology and Biotechnology Research*, Vol 3 (5), 33-36.

Swati Shukla, Gaurav Naik, Sarad Kumar Mishra (2015), Potential Antimicrobial Activity Of Bacterial Endophytes Isolated from *Flacourtie Jangomas* (Lour.) Raeusch, A Less Explored Medicinal Plant; *Journal of Microbiology, Biotechnology and Food Sciences*, Vol 4 (6). 473-477.

Swati Shukla, Gaurav Naik, Sarad Kumar Mishra (2015), “Cultural conditions for optimum production of antimicrobial compound from endophytic bacterial strain isolated from *Flacourtie jangomas* (Lour.) Raeusch”; *Journal of microbiology and Biotechnology research*, Vol 5 (3). 45-51.

Gaurav Naik, Swati Shukla, Ruckminee Mall and Sarad Kumar Mishra (2015), “Optimization of culture conditions of *Streptomyces zaomycticus* RC 2073 by Shake flask method”. *European journal of biomedical and pharmaceutical sciences*, Vol 2(4). 620-629.

Shivani Tyagi, Jyoti Choudhary, **Swati Shukla. (2025)**. Potent antimicrobial effect of *Ocimum* herb essential oil against the drug resistant *E.coli* and other bacteria found on hand surface. *Environment Conservation Journal*. 2278-5124.

Book Chapter:

Sarad Kumar Mishra, Kumar Shivam, Sanjeev Kumar Diwakar, **Swati Shukla** “*Purification and Characterization of a novel thermostable β -Amylase from Aspergillus foetidus MTCC-508*”. Microbial Diversity and Biotechnology in Food Security. 2014, pp 479-488.

Sarad Kumar Mishra, Surya Kant Tripathi, **Swati Shukla**, Sarriya Abdullah. “Pharmacological profiles of *Carissa carandas*, an ethnomedicinal plant”. Pharmacological Profile of Ethnomedicinal Plants.

Swati Shukla, Ramesh C. Dubey and Jyoti Choudhary. (2022). “Synbiotic Effects of Human Milk on Neonatal Health: Probiotic Early Microflora and Prebiotic Oligosaccharides in Symphony. Microbial Biotechnology, Wiley Publications.

Jyoti Choudhary, Sarad Kumar Mishra, Zainab Rao, **Swati Shukla**. (2022). “Endophytic microbes: Potential source of antibiotic production”. Microbial Biotechnology, Wiley Publications.

Jyoti Choudhary, Ravi raj Singh, **Swati Shukla**. (2022). “CRISPR/Cas9 system: An advance trend in science”. Recent trends and innovation in science and technology in Book Science vs Technology. (Communicated).

Techniques acquainted with

- Microbiological techniques
- Basic techniques of plant tissue culture
- Molecular Biology methods like Genomic DNA isolation, Plasmid DNA isolation, PCR amplification, Cloning, Restriction analysis, Agarose and SDS-PAGE electrophoresis etc.
- Enzymological techniques related with enzyme purification using various chromatography techniques and characterization.