SWATI SHARMA

M.Sc., *Ph.D*.

Assistant Professor, Department of Biosciences

Integral University, Lucknow

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https://scholar.google.co.in/citations?user=0oPff9YAAAAJ&hl=en 0000-0003-2518-5374

Area of interest: BOTANY/ MICROBIOLOGY/ AGRICULTURAL MICROBIOLOGY/ PLANT PATHOLOGY/ MICROBIAL TECHNOLOGY/ POSTHARVEST TECHNOLOGY

Education and Oualifications

- o Doctor of Philosophy in Botany under the guidance of Dr.(Mrs.) Neeta Sharma, Prof. Mycology and Plant Pathology Unit, Botany Department, Lucknow University, Lucknow (Awarded 10.04.2013)
- o Qualified CSIR-NET for Lectureship and JRF in Life Sciences, July 2001
- o M.Sc. Plant Science from Lucknow University with I Div.
- o B.Sc. from Lucknow University (I T College) with I Div.

Experience **Teaching**

Currently working as Assistant Prof in **Department of Biosciences in Integral** University (from July 2013) teaching in M. Sc Microbiology and B. Sc (H) Biotechnology/Life Sciences/ZBC/Biochemistry along with administrative, cocurricular and extracurricular activities.

Research

Key areas: Plant microbe interaction, Plant growth promotion, Postharvest biology and technology.

Research experience as CSIR JRF and SRF in NBRI & Botany Dept, LU and at Department of biosciences, Integral University, Lucknow.

Publications

19 research papers in International Journals

09 book chapters

Editing

01 book (Edited)

01 research collection

Patents

01 (awarded) 01(published)

PhD students

08 awarded,

01 submitted thesis

01 currently supervising PhD students in Microbiology/Biotechnology.

Dissertation/Training

Guided Sc Biotechnology/Life Sciences/ZBC MSc В. (H)and Microbiology/Biotechnology dissertations

Conducted Summer internship Training for UG and PG students

Projects

CST UP (2018-2020) final UC submitted) **10.4 Lakhs**

Integral University Intramural Project (Completed) 1.27 Lakhs

Administrative Responsibilities

Other roles

UG Coordinator in Department of Biosciences and Member of various committees as Depart. NEP implementation, Faculty board, BOS, Depart. IQAC, Depart. Diciplinary Commettiee External examiner for other universities as RMLU, CSMU, Amity

University, Era University

Reviewer in many National/International Journals

Resource person many workshops/PDP

Member of organising committee of various conferences/workshops/PDP

RESEARCH PAPERS

SNo	Title	Journal with Vol	Page No/Year	ISSN/ISB NNo.,	Impact Factor,
1.	CONTROL OF FOLIAR DISEASES OF MUSTARD BY <i>BACILLUS</i> FROM RECLAIMED SOIL.	MICROBIOLOGIC AL RESEARCH;613	2008 408-413	0944-5013	PEER REVIEWED, IF:5.7
2.	ELICITATION BASED ENHANCEMENT OF SECONDARY METABOLITES IN RAUWOLFIA SERPENTINA AND SOLANUM KHASIANUM HAIRY ROOT CULTURES	PHARMACOGNO SYMAGAZINE; 16	2016 S315- S3120	9753575	PEER REVIEWED, IF:0.98
3.	PHYTOCHEMICAL EVALUATION, ANTIOXIDANT ASSAY, ANTIBACTERIAL ACTIVITY AND DETERMINATION OF CELLVIABILITY (J774AND THP1 ALPHA CELLLINES) OF P. SYL-VESTRIS LEAF CRUDE AND METHANOL PURIFIED FRACTIONS	EXCLI JOURNAL ;15	85-94 2016	1611-2156	PEER REVIEWED, IF:4.068
4.	AGRO-MORPHOLOGICAL DESCRIPTION,GENETIC DIVERSITY AND POPULATION STRUCTURE OF SUGARCANE VARIETIES FROM SUB- TROPICAL INDIA	3 BIOTECH; 8	2018 469	2190-5738	PEER REVIEWED, IF:2.893
5.	PGPR: RENEWABLE TOOL FOR SUSTAINABLE AGRICULTURE.	INTERNATIONAL JOURNALOFCUR RENTMICROBIOL OGYANDAPPLIE DSCIENCES.,8 (1)	2019 525 530	2319-7706	PEER REVIEWED
6.	EXPLORING OF SALT TOLERANT BIOCONTROL AGENT (STBA) AGAINST PHYTOPATHOGEN OF MUSTARD CROP(BRASSICAE JUNECEA)	INTERNATIONAL JOURNALOFCUR RENTMICROBIOL OGYANDAPPLIE DSCIENCES.,8 (9)	2019 21322141	2319-7706	PEER REVIEWED
7.	ELICITATION ENHANCED THE YIELD OFGLYCYRRHIZIN AND ANTIOXIDANTACTIVITIES IN HAIRY ROOT CULTURES OF <i>GLYCYRRHIZA GLABRA</i> L.	JOURNAL OF PLANT GROWTHREGUL ATION,38,,	373-384 2019	1435-8107	PEER REVIEWED, IF:4.6
8.	ACC DEAMINASE PRODUCING PLANTGROWTH PROMOTING RHIZOBACTERIA ENHANCE SALINITY STRESS TOLERANCEIN PISUM SATIVUM	3 BIOTECH; 11 12	514 2021	2190-5738	PEER REVIEWED, IF:2.893
9.	A SUSTAINABLE AGRICULTURE TO RESCUETHE VEGETATION FROM THE EFFECT OFBIOTIC STRESS: A REVIEW	LETT. APPL. NANOBIOSCI, 10	2459-2465 2021	2284-6808	PEER REVIEWED
10.	ELUCIDATION OF BIOACTIVE POTENTIALOF TWO COMMONLY GROWN NORTHINDIAN PSIDIUM GUAJAVA VIZ., LALITAND SHWETA AGAINST PATHOGENICFOODBORNE AND MDR BACTERIA	BIOINTERFACER ESEARCHINAPPL IEDCHEMISTRY V 11	2021 14090- 14102	2069-5837	PEER REVIEWED

11.	COMPARATIVE EVALUATION OFDIFFERENTSALT-TOLERANT PLANTGROWTH-PROMOTING BACTERIALISOLATES INMITIGATING THE INDUCEDADVERSE EFFECTOF SALINITY IN PISUM SATIVUM	BIOINTERFACER ESEARCHINAPPL IEDCHEMISTRY V 11;5	13141 - 13154 2021	2069-5837	PEER REVIEWED
12.	MICROBIAL ENDOPHYTES: A HIDDENPLANT RESIDENT, APPLICATION ANDTHEIR ROLE IN ABIOTIC STRESSMANAGEMENT IN PLANTS	JOURNAL OF ECOPHYSIOLOG Y ANDOCCUPATIO NAL HEALTH, 22(3)	127-140 2022	0974-0805	PEER REVIEWED
13.	BIOPOLYMERIC NANOPARTICLES BASEDEFFECTIVE DELIVERY OF BIOACTIVECOMPOUNDS TOWARD THE SUSTAINABLEDEVELOPMENT OF ANTICANCEROUS THERAPEUTICS	FRONTIERS IN NUTRITION	2022 2022.9634 13	15862022	PEER REVIEWED, IF:6.59
14.	MECHANISTIC INSIGHTS OF PLANT- MICROBE INTERACTION TOWARDSDROUGHT AND SALINITY STRESS INPLANTS FOR ENHANCING THEAGRICULTURE PRODUCTIVITY	PLANT STRESS	100073 2022	2667- 064X	PEER REVIEWED
15.	SELECTION OF CARRIER MATERIALS TO FORMULATE BIOINOCULANT PACKAGE FOR PROMOTING SEED GERMINATION	LETTERS IN APPLIED NANOBIOSCIENC E	12, ISSUE 3, 2022, 65	ISSN: 2284-6808	PEER REVIEWED
16.	BIOACTIVE COMPOUNDS, ANTIOXIDANT, AND ANTIBACTERIAL ACTIVITY AGAINST MDR AND FOOD- BORNE PATHOGENIC BACTERIA OF PSIDIUM GUAJAVA. L FRUIT DURING RIPENING	MOLECULAR BIOTECHNOLOG Y	1-19, 2023	1073-6085	PEER REVIEWED IF 2.6
17.	ASSESSING THE POTENTIAL OF CHITOSAN BASED COATINGS IN MODULATION OF BACTERIOME ON TOMATO CARPOSPHERE	POSTHARVEST BIOLOGY AND TECHNOLOGY	209, 112684, 2024	0925-5214	PEER REVIEWED IF 7.0
18.	A NOVEL GREEN SYNTHESIS OF CUFE2O4 NPS FROM CISSUS ROTUNDIFOLIA FOR PHOTOCATALYTIC AND ANTIMICROBIAL ACTIVITY EVALUATION	JOURNAL OF ALLOYS AND COMPOUNDS	174020, 2024	1873-4669	PEER REVIEWED IF 6.2
20.	QUANTUM MECHANICAL CALCULATION OF GRAPHENE OXIDE NANOSHEET PREPARED VIA MODIFIED HUMMER METHOD: ROLE IN DYE DEGRADATION AND ANTIBACTERIAL ACTIVITY	RUSSIAN JOURNAL OF GENERAL CHEMISTRY	94(03):1- 9, 2024	1070-3632	PEER REVIEWED IF 0.9
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1	RECENT ADVANCES AND APPROACHES FOR CROP IMPROVEMENT AND SUSTAINABLE AGRICULTURE	Dr. Swati Shar Amita Dubey	rma and Dr.	ISSN/I No. 978 94070-	8-93-	Publisher Aargon Press 2021
ВО	OK CHAPTERS					
S.N o.	TITLE	Book Title		ISSN/IS	SBN No.	Publisher
1	Commercial use of fungi as biocontrol agent.	Biocontrol of pl	lant diseases	ISBN : 817910	2053	Avishkar Publishers, Distributers, Jaipur, India.
2	Postharvest biocontrol-New concepts and application.	Crop stress and its management: Prospectives and strategies		ISBN: 978-94- 007-2219-4 (Print) 978-94- 007-2220-0)		Springer Netherlands;
3	Potential of PGPR Bacteria in Plant Disease Management.	Biological Con Preventing Foo Deterioration: S Pre- and Postho Management	d Strategies for			John Wiley & Sons, Ltd
4	Exploiting microbial enzymes for augmenting crop production, Enzymes in Food Biotechnology	Enzymes in Foo Biotechnology	od	Accepte	ed	Elsevier
	Aluminum oxide nanoparticles: plant response, interaction, phytotoxocity and defense mechanism			978-981 2419-6	-99-	Springer
5	Green Synthesis of Metal-Oxide Nanoparticles from Fruits and Their Waste Materials for Diverse Applications	Nanomaterials f Agricultural and Horticultural Pr	d	81-119,	2023	Springer Nature Singapore
6	Biobased Coatings: An Alternative Approach in Managing Postharvest Diseases	Bio-managemen Postharvest Dis Mycotoxigenic Press	eases and	71-88, 978100 2020	3089223	Taylor and Francis
PA	ATENTS REGISTERED					
	TITLE	PATENT	APPLICAT	ION		
1	. BIOGENIC ANTIMICROBIAL CHITOSAN-BASED NANOPARTICLES AND PROCESS OF THEIR SYNTHESIS USING 2 PLANT (OCIMUMSANCTUM)	20221 23 10248 20	8-APR-	06-MAY- 2022	No. 2022110 A	24871
	LEAF EXTRACT LAGENARIA SICERARIA BASED LOW-FAT FUNCTIONAL MAYONNAISE			22-APR- 2023	No. 2023110	29273
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2	AICTE SHORT TERM COURSE ON F	REE	INTEGRAL	2022	6	NITTTR,
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	TECHNICAL EDUCATION THROUG	H ICT				
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Details of Research Experience

Organization	Designation	Period	
Department of Biosciences, Integral	Assistant Professor	July 2012 till now	
University, Lucknow	Assistant Professor	July 2013 till now	
Botany Department,	Research Scholar	April 2007 2011	
Lucknow University, Lucknow.	Research Scholar	April 2007-2011	
Botany Department,	Canian Dagaanah Fallayy (CCID)	May 2005 April 2007	
Lucknow University, Lucknow.	Senior Research Fellow (CSIR)	May 2005- April 2007	
Botany Department,	Junior Descend Fellow (CSID)	Ech 2005 April 2005	
Lucknow University, Lucknow.	Junior Research Fellow (CSIR)	Feb 2005- April 2005	
National Botanical Research Institute,	Junior Descend Fellow (CSID)	April 2002 Eab 2005	
Lucknow.	Junior Research Fellow (CSIR)	April 2003-Feb 2005	
Botany Department,	Project Trainee (For the partial	2000	
Lucknow University, Lucknow.	fulfillment of M. Sc. II year)	2000	

Research Guidance-

S.No	Name of Scholar	Title of thesis	Supervisor/co supervisor	Status
1	Dinesh Chandra Sharma	Biochemical analysis, molecular characterization of wild Indian date palm, <i>Phoenix sylvestris</i> Roxb.	Supervisor	Awarded
2	Mrinalini Srivastava	Enhancement of secondary metabolites with the use of biotic and abiotic elicitor in hairy root cultu	Supervisor	Awarded
3	Archana Siraree	Characterisation of commercially important sugarcane varities of subtropical India by morphological	Supervisor	Awarded
4	Kusum Sharma	Evaluation of halophillic bacteria from Purvanchal region to enhance the growth and yield of Indian mustard.	Supervisor	Awarded
5	Anmol Gupta	Characterization of ACC Deaminase producing bacteria and Bio-inoculant formulation for plant growth promotion (April 11, 2022)	Supervisor	Awarded
6	Ambreen Bano	Biochemical and molecular changes during guava (<i>Psidium guajava</i> . L) fruit ripening (May 30, 2022)	Supervisor	Awarded
7.	Tasueef Fatima	Isolation, characterization, and application of rice endophytes in upland rice cultivation under abiotic stress conditions. (October 12, 2023)	Supervisor	Awarded
8	Shruti Rai	Genome wide association study (GWAS) to dissect the key metabolite (mqtls) underling the thebaine content in opium poppy (<i>Papaver somniferum</i> 1.)	Supervisor	Submitted
9	Smita Rai		Supervisor	
_10	Shefali Singh		Supervisor	

Papers Presented in National and International Symposia:

- 1. **Sharma, S.** and Sharma, N. (2005). Exploitation of bioagents as an alternative strategy to control post harvest fungal rotting of fruits and vegetables. *Proc. Third International Conference on plants and Environmental pollution*, NBRI, Lucknow. Abstract No. SV-P-21.
- 2. **Sharma, S.,** Rai, P. and Sharma, N. (2006). Formulation of *Bacillus* sp. for biological control of *Alternaria* leafspot of Mustard. Proc. *Annual meeting Indian Phytopathological Society (M. E. Zone) and National Microbial Diversity and plant health problems*, Gorakhpur.
- 3. Rai, P., **Sharma, S.** and Sharma, N. (2006). Antibiotic activity of an endophytic fungal isolate *Trichoderma atroviride* P. Karsten. *Proc. Annual meeting Indian Phytopathological Society (M. E. Zone)* and National Microbial Diversity and plant health problems, Gorakhpur.
- 4. Basant Prabha, **Sharma, S.** and Sharma, N. (2007). Combining yeast and chitosan treatment to control blue mold disease of apple. *Proc.* 94th *Indian science congress* (Part II) Sec XIV Abstract No. 52.
- 5. **Sharma, S.,** Agnihotri, S. and Sharma, N. (2007). Protein profile of different *Bacillus* isolates used as bioagents. *Proc.* 94th *Indian science congress* (Part II) Sec XIV Abstract No. 53.
 - 6. **Sharma, S.,** Tripathi, A., Vaish, A. and Tiwari, A. (2007). *Bacillus:* A Biocontrol agent. *Proc. Annual meeting Indian Phytopathological Society (M. E. Zone) and National Symposium on Advancing frontiers of plant disease management*, N. D. Univ. of Agri and Tech, Kumarganj, Faizabad. Pp. 92.
 - 7. Awasthi, P. and **Sharma, S** (2007). Post-harvest application of yeast as biocontrol agents. *Proc. Annual meeting Indian Phytopathological Society (M. E. Zone) and National Symposium on Advancing frontiers of plant disease management*, N. D. Univ. of Agri and Tech, Kumarganj, Faizabad. Pp. 36.
 - 8. Sharma, D. C., Shukla, R., **Sharma, S.**, Bajpai, P., Pathak, N. (2015). Evaluation of phytochemicals, free radical scavenging and antibacterial activity of Phoenix sylvestris. *International Conference on Medicinal Plants: Resource for Affordable New Generation Healthcare* **2015**. CIMAP
 - 9. Sharma, D. C., Shukla, R., Singh, A., Naureen, S., **Sharma, S.**, Bajpai, P., Pathak, N. (2015). Isolation and identification of partially purified compounds for free radical scavenging activity from Phoenix sylvestris. *National Level Conference on Nano-sciences, Nano-toxicology and Nano-informatics present and future prospective-2015*
 - 10. Sharma, D. C., Tiwari, R., Shukla, S., Shukla, R., **Sharma, S.**, Bajpai, P., Pathak, N. (2015). Increasing shelf life of fruits by using nanotechnology. *National Level Conference on Nano-sciences, Nano-toxicology and Nano-informatics present and future prospective-2015.*
 - 11. Upadhyay, T.K., Sharma, R., **Sharma, S.**, Fatima, N., Sharma, D., Misra, A., (2015) Reparation and characterization of mushroom derived biopolymeric microparticles for improved targeting of alveolar macrophage. *International conference on Biotechnological Advancements in free radical biology and medicine*, IU, 14-16 Nov 2015
 - 12. Sharma, D. C., Shukla, R., **Sharma, S.,** Bajpai, P., Pathak, N. (2015). Evaluation of phytochemicals, free radical scavenging and antibacterial activity of *Phoenix sylvestris*. *International Conference on Medicinal Plants: Resource for Affordable New Generation Healthcare* 20nd-22nd March 2015 held at CIMAP Lucknow..
 - 13. Sharma, D. C., Shukla, R., **Sharma, S.,** Bajpai, P., Pathak, N. (2016). A correlative study of total phenolic and flavonoids content of *Phoenix sylvestris* fruit responsible for free radical scavenging activity. Advances in Plant Science Frontier: Development and Environment, At G. F. College, Shahjahanpur (UP), 26th-27th November 2016.
 - 14. Sharma, D. C., Shukla, R., **Sharma, S.,** Bajpai, P., Pathak, N. (2017). *Phoenix sylvestris* leaf extract: An *In-silico* study of alpha amylase inhibition involved in Diabetes. *National Seminar on Innovations & Challenges in Basic & Applied Sciences*. March 04, 2017 at Maharaja Agrasen University, Solan, Himanchal Pradesh.

- Organized International Conference on Biotechnological Advancements in Free Radical Biology and Medicine as Resource person (ICBAFM-2015)
- Organized national Workshop on Nanomedicine -2014 as Resource person

Special Workshops attended

- Training workshop on research methodology and statistical methods in biomedical research July 26-28, 2004, ITRC, Lucknow.
- Workshop on Tools and Technique in Bioinformatics December 28-29, 2010, Centre of Excellence in Bioinformatics, Biochemistry Dept., University of Lucknow.
- o Workshop on IPR 2014, IU.
- o National workshop on nanomedecine 2014, IU.
- National Level Conference on Nano-sciences, Nano-toxicology and Nano-informatics present and future prospective-2015.
- o "Institutional Workshop on oil Conservation" PCRA, Gov of India, IU 01 Aug 2015
- o FDP on "Prospective Modern Teaching Techniques and uses of case studies through experimental learning" IU, 22 Aug 2015
- International conference on Biotechnological Advancements in free radical biology and medicine, IU, 14-16 Nov 2015
- o FDP on METLAB, IU, 1-7th Feb 2016
- o CALAM Course on 'How to teach effectively' by HRD AMU.
- o Refresher Courses in Botany/ Biotechnology/Chemistry
- o Induction Course from NITTER Kolkata
- o OIP in Excel

Details of Software Proficiency

- Tools used in Bioinformatics;
- Statistical software as Sigma Stats, Sysstat, SPSS etc;
- o Photoshop, Pagemaker, Coral Draw;
- o MS Office (Word, Excel, PowerPoint),
- o RDBMS SQL Server 7, Core Java Programming