

SCHOOL OF BIOTECHNOLOGY

Extension Lectures Delivered by Outside Experts/Outside Faculty in the School and in-house Faculty outside School/University (2024-2025):

Sl. No	Name of the Faculty	Title of the seminar/conference and dates & year	Title of the Talk	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker	National/International (abroad)/International (within the country)/State/University
1.	Dr. Shafaq Rasool	National Pharmacy Education Day 6 th March,2025	Microbial Resistance, the Basic Mechanisms	Prabha Harjilal College of Pharmacy & Paraclinical Sciences, Madre-e-Maharban Campus of Health Sciences, Jammu	Invited Lecture	Local
2	Dr. Ratna Chandra, Dr. Rakesh, Dr. Indu Bhushan & Er. Arvind K Yadav	Exploring Collaborative Opportunities in Research and Academics 17-09-2024	Educational visit to IIT Jammu	SMVDU	-	National
3	Dr. Parvez S Slathia	One day visit of students of GDC, Reasi to SMVDU 14-11-2024		SMVDU	60 students with 4 teachers from GDC reasi	National (within university)

4	Dr. Ratna	Orientation Programme 23-8-24		SMVDU		National (Within University)
5	Dr. Ratna Dr. Sharada Dr. Indu Dr. Vinod Mr. Pankaj Suden	Himalyan Essential Oils Produce Company Ltd. Bhaderwah 24-03-2025	Exposure	SMVDU	-	National
6	Dr. Indu bhushan	Conference ETBCT 14-15 Feb'2025	Emerging Trends in Biosciences and Chemical Technology (ETBCT-2025)	SMVDU	-	International

Research Publications (with full details in below format) for 2024-2025:

For chapters in a book (2024-2025):

Sl. No	Name of the Faculty	Title of the chapter	Title of the book	Editors (Mention all Editors)	Name of the publisher Indicate National or International	ISBN No. and year of publication
1	Dr. Shafaq Rasool	Rhizomicrobiome: Biodiversity and functional annotation for	Rhizomicrobiome in Sustainable Agriculture and Environment	Joginder Singh, Vikas Sharma	Academic Press Elsevier	ISBN 9780443236914 (2025)

		agricultural sustainability			International	
2	Dr. Shafaq Rasool	“Endophytic Fungi” Full Story of the Untapped Treasure	Global Scenario of Endophytic Fungal research: Biodiversity and Biotechnological Applications,	Ahmed M. Abdel Azeem, Ajar Nath Yadav, Neelam Yadav	Academic Press	ISBN 9780323993142, https://doi.org/10.1016/B978-0-323-99314-2.00019-X . (2024)
3	Er. Arvind K. Yadav , Dr. Ratna Chandra	Antimicrobial Coatings: Recent Advances and Development in Healthcare Systems	Functional Coatings for Biomedical, Energy, and Environmental Applications, First Edition	Raj K. Arya, George D. Verros, J. Paulo Davim	John Wiley & Sons International	Print ISBN: 978-1-394-26315-8 Online ISBN: 978-1-394-26317-2. (2024)
4	Dr. Sharada Mallubhotla	Bacosides Neurotropic Molecules Production by Tissue Cultures of Bacopa monnieri (L.) Wettst. Chapter 14	Biotechnological Production of Bioactive Phytochemicals of Medicinal Value	Kavi Kishor PB, Pullaiah T, Suprasanna P, Ranga Rao A and Romano Anabela	Elsevier Inc. International	ISBN: 978-0-443-21818-7 (2024)
5	Dr. Rakesh Kumar	Role of Nanoparticle Formulation for the Combination Delivery of Multiple Antigens	Nanotechnology Based Microbicides and Immune Stimulators	Suriya Rehman, Ebtessam Al-Suhaimi	Springer, Singapore. International	ISBN: 978981960396-1 (2024)
6	Dr. Rakesh Kumar	The current status and future trends	<ul style="list-style-type: none"> Immunotoxicogenomics 	Shafat Ali, Md. Niamat Ali and Mune	Academic Press	ISBN: 9780443136573 (2025)

		in immune toxicogenomics		eb U. Rehman	International	
7	Dr. Rakesh Kumar	Role of genetic and epigenetic variants in recurrent pregnancy loss	<ul style="list-style-type: none"> Reproductive Immunogenetics: A Molecular and Clinical Overview, Vol. 3 	Shafat Ali, Muneeb U. Rehman and Shahnaz Taing	Academic Press International	ISBN: 978-0-443-18502-1-(2024)

For paper (2024-2025):

Sl. No.	Name of Author	Title of paper	Name of the Journal: ISSN No.: Dol: (ISSN or Dol)	Volume: Issue No.: Year: Page Nos.:	Specify: Peer-reviewed/ UGC / SCOPUS Impact factor: (if available)
1	Sofia Sharief Khan , Divjot Kour , Tanvir Kaur , Anjali Sharma , Sanjeev Kumar , Shilpa Kumari , Seema Ramniwas , Shaveta Singh , Rajeshwari Negi , Babita Sharma , Tishu Devi , Chandresh Kumari , Harpreet Kour , Manpreet Kaur , Ashutosh Kumar Rai , Sangram	Microbial Nanotechnology for Precision Nanobiosynthesis: Innovations, Current Opportunities and Future Perspectives for Industrial Sustainability.	Current Microbiology, Electronic ISSN: 1432-0991 Print ISSN: 0343-8651	81(8), 2024, 251.	SCIE, IF: 2.6

	Singh, Shafaq Rasool, Ajar Nath Yadav				
2.	Khan, R. T., Bhardwaj, M., Kailoo, S., Khajuria, R., Rasool, S	A statistical study on awareness of antibiotic resistance among the general population	Indian Journal of Biochemistry and Biophysics (IJBB) ISSN / eISSN: 0301-1208 / 0975-0959 https://doi.org/10.56042/ijbb.v61i8.8244	61(8), 2024	SCIE, IF: 1.5
3.	Khan, R. T., Sharma, V., Khan, S. S., Rasool, S.	Prevention and potential remedies for antibiotic resistance: current research and future prospects.	Frontiers in Microbiology ISSN / eISSN: 0079-4252 / 2545-3149	15, 2024, 1455759	SCIE, IF: 4.0
4.	Devi T, Sistla S, Khan RT, Kailoo S, Bhardwaj M, Rasool S.	Purification and characterization of detergent-stable alkaline lipase from <i>Bacillus safensis</i> TKW 3 isolated from Tso Kar brackish water lake.	PeerJ ISSN / eISSN: 2167-8359 DOI 10.7717/peerj.18921	13, 2025, e18921	SCIE, IF: 2.7
5	Himani Gupta, Anil Kumar	Multi-Component Domino Strategy for Regioselecti	European J. of Organic Chemistry Online ISSN:1099-0690	28, 2025, e202500039	SCIE, IF: 2.7

		ve Synthesis of Tetrahydrothi ochromen-5-ones			
6	Indu Bhushan, Malvika Mehta, Mahima Sharma, Chitrakshi Chopra, Ratna Chandra, Ikhwan Syafiq Mohd Noor, Muhd Zu Azhan Yahya, Ashutosh Tripathi, Arvind Kumar Yadav	Role of Nanomaterials in Modern Agriculture	Zastita Materijala , ISSN 0351-9465, E-ISSN 2466-2585 https://doi.org/10.62638/ZasMat1098	66(1), 2025, 133-147	SCOPUS
7	Arvind Kumar Yadav , Mohseena Hasan , Simranjeet Kour , Ratna Chandra , Vivek Kumar Singh , I.M. Noor , M.Z.A. Yahya , Har Mohan Singh , Ashutosh Tripathi	Heavy Metal Contamination in Plants: Sources, Monitoring, and Data-Driven Insights	Macromolecular Symposia, Wiley ISSN: 1521-3900 eISSN; 1022-1360 https://doi.org/10.1002/masy.202400239	414(1), 2025, 2400139	SCOPUS
8	Arvind Kumar Yadav , Arushi Mahajan , Tania Sharma , Indu Bhushan , Ikhwan Syafiq Mohd Noor , Muhd Zu Azhan Yahya	Analysis of Physicochemical and Microbiological Characteristics of Surinsar Lake in UT of Jammu & Kashmir, India	Macromolecular Symposia , Wiley ISSN: 1521-3900 eISSN: 1022-1360 https://doi.org/10.1002/masy.202400136	414(1), 2025, 2400136	SCOPUS

9	Sonali Bhan, Manisha Bhagat, Shreya Sopori, Arti Dhar, Rakesh Kumar, Audesh Bhat	Angiotensin-converting Enzyme Insertion/Deletion Polymorphism Distribution in the North Indian Population of Jammu and Kashmir and Its Positive Correlation with Male Infertility: A Case Control Study	Journal of Human Reproductive Sciences	18(3), 2025, 166-173,	SCIE, IF: 2.1
10	Minerva Sharma, Sonali Verma, Vanshika Bhagat, Ziya Tufail, Rajeshwer Singh Jamwal, Bhawani Sharma, Gresh Chander, Ruchi Shah, Audesh Bhat, Manushi Dhar, Supinder Singh, Rakesh Kumar	Evaluation of a novel MAGEC1 variant and susceptibility to ovarian cancer in the North Indian population	Genetic Testing and Molecular Biomarkers	29(7), 2025	SCIE, IF: 1.0
11	Aarti Bhardwaj, Jitender Phogat, Manoj Yadav, Anshu Yadav, Vishal Panghal, Mayank Singh, Sapna Sharma, Rakesh Kumar, Mukesh Tanwar	Genetic and Bioinformatics Analysis of RHO and PRPH2 Variants in North Indian Retinitis Pigmentosa.	Japanese Journal of Ophthalmology doi: 10.1007/s10384-025-01262-8	2025, 1-12	SCIE, IF: 2.1
12	Manoj Yadav, Sumit Sachdeva, Anshu Yadav, Aarti Bhardwaj,	The role of SIX6 gene in juvenile	Japanese Journal of Ophthalmology	69(6), 2025, 991-1002	SCIE, IF: 2.1

	VishalPanghal, Ankit Kumari, Ritu Yadav, Rakesh Kumar, Mayank Singh, Sapna Sharma, Mukesh Tanwar	open-angle glaucoma: a subtle contributor to the mutational landscape.	doi: 10.1007/s10384-025-01233-z.		
13	Minerva Sharma, Sonali Verma, Rajeshwer Singh Jamwal, Ziya Tufail, Vanshika Bhagat, Sonia Nagyal, Gh. Rasool Bhat, Amrita Bhat, Bhanu Sharma, Ruchi Shah, Gresh Chander, Audesh Bhat, Rakesh Kumar	Exome sequencing identifies ADGRG4 G-Protein-Coupled Receptors Gene as a novel cancer biomarker in ovarian cancer patients from North India.	Journal of Biochemical and Molecular Toxicology	38(3), 2024, e23672	SCIE, IF: 3.6
14	Audesh Bhat, Sonali Bhan, Andrija Kabiraj, Rak K Pandita, Keneth S Ramos, Sandhik Nandi, Shreya Sopori, Partha Sarkar, Arti Dhar, Shruti Pandita, Rakesh Kumar, Chandrima Das, John A Tainer, Tej K Pandita	A predictive chromatin architecture nexus regulates transcription and DNA damage repair	Journal of Biological Chemistry	301(3), 2025, 108300	SCIE, IF: 5.486
15	Shreya Sopori, Kavinay, Sonali Bhan, Shreya Saxena, Medha Medha, Rakesh Kumar, Arti Dhar, Audesh Bhat	CLOCK Gene 3'UTR and Exon 9 Polymorphisms show a Strong Association with Essential Hypertensio	BMC Medical Genomics	17, 2024, 289	SCIE, IF: 2.5

		n in a North Indian Population.			
16	Pandita, Monika, Shoket Heena, Kumar Rakesh, Bairwa Narendra	Genetic interaction between F-box encoding UCC1 and RRM3 regulates growth rate, cell size, and stress tolerance in <i>Saccharomyces cerevisiae</i>	Journal of Biochemical and Molecular Toxicology	38(12), 2024, e70059	SCIE, IF: 3.6
17	Anshu Yadav, Jitender Phogat, Manoj Yadav, Aarti Bhardwaj, Ritu Yadav, Manisha Nada, Manish Bhati, Supreme Goel, Rahul Thakar, Rakesh Kumar, MukeshTanwar	Association of Interleukin-6 gene polymorphism with its serum levels in Indian age-related macular degeneration patients	Molecular Vision	30, 2024, 434-446.	SCIE, IF: 2.2

18	<p>Manoj Yadav, Mukesh Kumar, Chand Singh Dhull, Sumit Sachdeva, Aarti Bhardwaj, Anshu Yadav, Vishal Panghal, Pradeep Sharma, Ankit Kumari, Ritu Yadav, Mayank Singh, Rakesh Kumar, Anupama Deora, Manisha Rathi, Punit Kaur, Mukesh Tanwar</p>	<p>Identification and structural analysis of pathogenic variants in MYOC and CYP1B1 genes in Indian JOAG patients</p>	<p>Japanese Journal of Ophthalmology</p>	<p>69(3), 2025, 469-481</p>	<p>SCIE, IF: 2.1</p>
19	<p>Mudasir Kumar, Sadaf Baba, Hana Sadida, Sara Marzooqi, Jaykumar Jerobin, Faisal Altemani, Naseh Algehainy, Mohammad Alanazi, Rakesh Kumar, Ammira Al-ShabeebAkil, Muzafar Macha, Rashid Mir, Abdul-Badi, Abou-Samra Ajaz, Bhat</p>	<p>Extracellular vesicles as tools and targets in therapy for diseases</p>	<p>Signal Transduction and Targeted Therapy</p>	<p>9, 2024, 27.</p>	<p>SCIE, IF: 39.2</p>
20	<p>Khalid Bashir Mir, Souneek Chakraborty, Tanzeeba Amin, Aviral Kumar, Abdul Rouf War, Yedukondalu Nalli, Rakesh Kumar, Lekha Dinesh Kumar, Asif Ali, Anindya Goswami</p>	<p>Canonical DDR activation by EMT inducing agent 5-Fluorouracil is modulated by a cannabinoid based combinatorial approach via inducing autophagy and</p>	<p>Biochemical Pharmacology</p>	<p>223, 2024, 116126</p>	<p>SCIE, IF: 5.3</p>

		suppression of vimentin expression			
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Conferences/Workshops/Seminars/Short term Courses/FDP/MDPs/Attended/Presented (2024-2025)

Sl. No	Name of the Faculty	Title of the Seminar/Conference/Workshop and Dates & Year	Title of the Talk (if presenter)	Organizing agency	Invited lecture/Resource person/Keynote speaker/Paper presenter/Plenary speaker Or Simply Attended	National/International (abroad)/International (within the country)/State/University
1	Dr. Shafaq Rasool	3 rd International Conference on emerging trends in Biosciences and Chemical technology (ETBCT-2025) 13 th -14 th February, 2025	Decoding the microbial diversity of unique niches by metagenomics	School of Biotechnology, Shri Mata Vaishno Devi University-Katra	Invited Talk/Lecture	International within the country
2	Dr. Shafaq Rasool	National Conference on Biotechnology and Biomedicines (NCBB-25) 29 th June, 2025	Harnessing Cold-Adapted Microbiomes for Antimicrobial Discovery Through Functional Metagenomics	National Conference Agency	Paper Presentation	National
3.	Dr. Shafaq Rasool	"Innovative Teaching and Learning Pedagogy"	NA	Research Foundation of India in	Attended the FDP as participant	National

		18 th -29 th June, 2025		Association with Faculty of Commerce, Parul University, Gujarat		
4	Er. Arvind Kumar Yadav	Swiss Systems Biology Symposium 2025, 19 th June, 2025	A Multiscale Computational Framework for Modelling Tumor Progression and Treatment Response	Life Sciences Switzerland and University of Bern, Switzerland	Paper presenter	International
5	Er. Arvind Kumar Yadav	National Conference on BIO3 Biotechnology, Biomanufacturing & Bioeconomy, 20 -22 th March, 2025	Medical Advancements using Tera Sense Technology	Thapar Institute of Engineering and Technology, Patiala, Punjab	Paper presenter	National
6	Er. Arvind Kumar Yadav	International Conference on Emerging Trends in Biosciences and Chemical Technology-2025, 14-15 th Feb, 2025	Integration of Artificial Intelligence (AI) into cancer detection	SMVDU, Katra, J& K	Paper presenter	International
7	Er. Arvind Kumar Yadav	5 th International Conference on Science and Engineering of Materials (ICSEM) - 2025, 04- 07 th Jan, 2025	Implementation of Metamaterials in Terahertz Technology for expedited identification of Microorganisms	Sharda University, Greater Noida	Invited Talk	International
8	Dr. Raju Shankarayan	Green hydrogen generation opportunities and challenges in India	NA	SMVDU Katra,	Attended	National

				Sponsored by AICTE		
9	Dr. Raju Shankarayan	International Conference on Emerging Trends in Biosciences and Chemical Technology	Applications of Nanotechnology in Mitigating Energy Crisis	SMVDU with BRSI, India	Paper presenter	International
10	Prof. Sharada M. Potukuchi	DBT Star College Scheme	Nanotechnology: A Tool for Plant Biotechnology	DAV College, Jalandhar	Guest Speaker	National
11	Prof. Sharada M. Potukuchi	Two Week Refresher Course in Basic & Applied Sciences	1.Applications of Tissue Culture Techniques in Medicinal Plants 2.Nanotechnology: A Valuable Plant-based Drug Delivery Tool	GNDU, Amritsar	Resource Person (2 lectures)	National
12	Prof. Sharada M. Potukuchi	Faculty Induction Programme	Role of Intellectual Property Rights in Research	UGC-MMTC, SMVDU	Resource Person	National
13	Prof. Sharada M. Potukuchi	National Conference on Recent Advances & Future Trends in Nursing and Healthcare Sciences	Intellectual Property Rights: Scope in Nursing	SMVDCoN	Resource Person	National
14	Prof. Sharada M. Potukuchi	Faculty Induction Programme	Role of Intellectual Property Rights in Research	UGC-MMTC, SMVDU	Resource Person	National
15	Prof. Sharada M. Potukuchi	NEP Orientation & Sensitization Programme	Academic Leadership, Governance and Management	UGC-MMTC, SMVDU	Resource Person	National
16	Prof. Sharada M. Potukuchi	Faculty Development Program	Scope of Intellectual Property Rights for Nursing Professionals	SMVDCoN	Guest Speaker	National

17	Prof. Sharada M. Potukuchi	International Conference on Emerging Trends in Biosciences and Chemical Technology-2025	--	SoBT, SMVDU	Co-Chair	International
18	Prof. Sharada M. Potukuchi	Best Practices in Administrative Procedures	--	SMVDU	Attended	Within the University
19	Prof. Sharada M. Potukuchi	Two Days Virtual Workshop on "Biotechnology Insights: Techniques for Research and Innovation"	--	IIIM-TBI, CSIR-IIIM, Jammu	Attended	National
20	Prof. Sharada M. Potukuchi	Research with Impact with Oxford Journals	--	Oxford University Press	Attended	National

Conferences/ Seminars /Workshops/FDPs/MDPs Organized (2024-2025)

Sl. No	Title of the Seminar/Conference/ Workshop/Etc. and Dates & Year	Organiser's Name	Role	Organizing agency	National/ International / Regional
1	2 -Week Orientation Program for newly admitted students for AY 2024-2025 27-08-2024 to 5-09-2024	Academic Affairs Section & UHV Cell SMVDU	Member	SMVDU	University Level
2	One day Interaction event in SoBT for the Faculty of Bioscience & Bioengineering, IIT-Jammu 13 th December,2024	Dr. Shafaq Rasool	Coordinator of the event	School of Biotechnology SMVDU	Inter-institutional

3	One-day workshop on “Overview of Outcome-based education and intricacies in SAR preparation”. 16 th January, 2025	Dr. Shafaq Rasool	Organizing-Secretary	Academic Affairs Section under PM-USHA	University level
4	3 rd International Conference on emerging trends in Biosciences and Chemical technology (ETBCT-2025) 13-14 th February, 2025	Dr. Shafaq Rasool	Co-Convener	SMVDU & DST	International within the country
5	One-day workshop titled “Awareness Program on Institutional Developmental Plan (IDP) for Higher Education Institutes (HEI)” under PM-USHA. 10 th March, 2025	Dr. Shafaq Rasool	Coordinator	PM-USHA Funds	Regional
6	3-Day Introductory FDP on Universal Human Values (UHV) held at SMVDU in collaboration with the NCIIP-AICTE team. 20-22 nd March, 2025	Dr. Shafaq Rasool	Co-Coordinator	PM-USHA Funds	National
7	International Conference on Emerging Trends in Biosciences and Chemical Technology-2025 14-15 th Feb, 2025	Er. Arvind Kumar Yadav	Co-Organizing Secretary	DBT and DST, GOI SMVDU, Katra	International

8	One-week Training Program for IFS Officers on “Effective Decision Making: Strategies & Techniques”	Prof. Sharada M. Potukuchi	Co-Convener Event Management & Purchase Committees	SMVDU	National
9	NEP Orientation & Sensitization Programme	Prof. Sharada M. Potukuchi	Coordinator	MMTTC, SMVDU	National
10	Faculty Induction Programme	Prof. Sharada M. Potukuchi	Coordinator	MMTTC, SMVDU	National
11	International Conference on Emerging Trends in Biosciences and Chemical Technology-2025	Prof. Sharada M. Potukuchi	Workshop Coordinator	School of Biotechnology, SMVDU	International
12	International Workshop on Skills in Biosciences	Prof. Sharada M. Potukuchi	Workshop Coordinator	RP-127, SMVDU	International
13	NEP Orientation & Sensitization Programme	Prof. Sharada M. Potukuchi	Coordinator	MMTTC, SMVDU	National
14	NEP Orientation & Sensitization Programme	Prof. Sharada M. Potukuchi	Coordinator	MMTTC, SMVDU	National