


NAME	Dr. Shashi Sharma														
DESIGNATION	Associate professor														
EMAIL ID	ssharma@amity.edu														
CONTACT NUMBER	9999310413														
RESEARCH INTERESTS	Microbial production of bioproducts, enzymes and their industrial applications; Green approach for Bioremediation of toxic pollutants, Nanotechnology, Green formulations for skin care														
EDUCATIONAL QUALIFICATIONS:															
<table border="1"> <thead> <tr> <th>Name of College / University</th> <th>Degree</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>Kanpur university</td> <td>MSc</td> <td>1996</td> </tr> <tr> <td>Harcourt Butler Technological Institute (HBTI), Kanpur</td> <td>M.Tech</td> <td>1998</td> </tr> <tr> <td>Delhi University South Campus, New Delhi</td> <td>Ph.D</td> <td>2004</td> </tr> </tbody> </table>				Name of College / University	Degree	Year	Kanpur university	MSc	1996	Harcourt Butler Technological Institute (HBTI), Kanpur	M.Tech	1998	Delhi University South Campus, New Delhi	Ph.D	2004
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Kanpur university	MSc	1996													
Harcourt Butler Technological Institute (HBTI), Kanpur	M.Tech	1998													
Delhi University South Campus, New Delhi	Ph.D	2004													
Title of Ph.D. thesis: Production, Purification, Characterization and applications of tannase from <i>Aspergillus niger</i> and <i>Penicillium variable</i>															
EXPERIENCE (in chronological order):															
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)												
Associate Professor	Teaching / Research	Amity Institute of Biotechnology, Noida	1 st September, 2022–till date												
Assistant Prof.	Teaching / Research	Amity Institute of Biotechnology, Noida	18 th July, 2011 – August, 2022												
Research Associate	Cloning, Expression and purification of DNA Gyrase subunits A and B from <i>Mycobacterium tuberculosis</i> genome	School of Biotechnology Jawaharlal Nehru University, New Delhi	May 2007 – July 2007												
Scientist Fellow	Optimization and upscale production of therapeutic protein Superoxide Dismutase (SOD) from recombinant <i>E. coli</i> in a 16 L Applikon Biogentek Bioreactor	Institute of Himalayan Bioresource Technology, CSIR, Palampur, H.P	Oct, 2004 - Nov, 2006												
Project Associate	CSIR collaborative project of NII and ICGEB entitled “Glycosylinositol phospholipids of <i>Entamoeba histolytica</i> : Identification and Structural Characterization”	National Institute of Immunology (NII), New Delhi	1998-1999												
No. of Ph.D. students supervised	Completed -2 Ongoing - 3														
No. of Post-Doc	NIL														
No. of M.Tech. Students supervised:	15														
No. of B.Tech. Students supervised:	125														
PUBLICATIONS (mention total no. here)	1. Mridula Chaturvedi, Navpreet Kaur, Pattanathu KSM Rahman & Shashi Sharma (2024). Solubilization and enhanced degradation of benzene														

phenolic derivatives - Bisphenol A/ Triclosan using a biosurfactant producing white rot fungus *Hypocrea lixii* S5 with plant growth promoting traits. *Frontiers in Microbiology* Vol. 15 - 2024 | doi: 10.3389/fmicb.2024.1433745 (I.F: 4)

2. Mridula Chaturvedi, Navpreet Kaur, Christine Jeyaseelan, Mika Sillanpää, Saleh Al Farraj & **Shashi Sharma** (2024). Composites of sodium alginate based - Functional materials towards sustainable adsorption of benzene phenol derivatives - Bisphenol A/Triclosan. *Environmental Research* Vol 255, 15th Aug 2024, 119192. <https://doi.org/10.1016/j.envres.2024.119192> (I.F: 7.7).
3. Chaturvedi M, Joy S, Gupta RD, Pandey S and Sharma S (2023) Endocrine disrupting chemicals (EDCs): chemical fate, distribution, analytical methods and promising remediation strategies – a critical review. *Environmental Technology Reviews* Vol. 12, (1), 286–315. <https://doi.org/10.1080/21622515.2023.2205026> (cite score: 5.3).
4. Molecular Mapping of Biofortification Traits in Bread Wheat (*Triticum aestivum* L.) Using a High-Density SNP Based Linkage Map. *Genes* **2023**, 14, 221. <https://doi.org/10.3390/genes14010221> (IF: 4.414).
5. Vasudha Jadon; Deepshikha Dixit; Karikalan Jayaraman ; Kusuma Kumari Panda; Shashi Sharma; Hari Krishna; Pradeep Kumar Singh and Gyanendra Pratap Singh (2022) Evaluation of synthetic hexaploid wheat (*Triticum aestivum*) derived RILs for kernel traits. *Indian Journal of Agricultural Sciences* 92(10), 1237-1241. <https://doi.org/10.56093/ijas.v92i10.125217>.
6. Joy, S., Khare, S.K., **Sharma, S.** (2020) Synergistic extraction using sweep-floc coagulation and acidification of rhamnolipid produced from industrial lignocellulosic hydrolysate in a bioreactor using sequential (fill-and-draw) approach. *Process Biochemistry* Vol. 90, 233-240. <https://doi.org/10.1016/j.procbio.2019.11.014> (I.F: 4.885).
7. Joy S., Rahman P.K.S.M., Khare S.K., Soni S.R., **Sharma S.** (2019) Statistical and sequential (fill-and-draw) approach to enhance rhamnolipid production using industrial lignocellulosic hydrolysate C6 stream from *Achromobacter* sp. (PS1). *Bioresource Technology* 121494. (I.F: 11.8).
8. Joy S., Rahman P.K.S.M., Khare S.K., **Sharma S.** (2019) Production and characterization of glycolipid biosurfactant from *Achromobacter* sp. (PS1) isolate using one-factor-at-a-time (OFAT) approach with feasible utilization of ammonia-soaked lignocellulosic pretreated residues. *Bioprocess Biosystems Engineering* doi: 10.1007/s00449-019-02128-3. (I.F: 3.434).
9. Joy S., P.K.S.M Rahman., **Sharma S** (2017) Biosurfactant production and concomitant hydrocarbon degradation potentials of bacteria isolated from extreme and hydrocarbon contaminated environments. *Chemical*

	<p><i>Engineering Journal</i> 317, 232–241. (I.F. 16.74).</p> <p>10. Sharma S and Saxena R. K (2012). Evaluation of the versatility of the tannases produced from <i>Aspergillus niger</i> and <i>Penicillium variable</i> with respect to gallic acid production gallate ester synthesis, animal feed improvement, tannery effluent degradation and tannin stain removal. <i>Research in Biotechnology</i> 3(5): 09-20, ISSN: 2229.</p> <p>11. Sharma S, Agarwal L & Saxena R.K (2007). Statistical optimization of tannase production from <i>Aspergillus niger</i> under submerged fermentation. <i>Indian Journal of Microbiology</i> 47(2): 132-138 https://doi.org/10.1007/s12088-007-0026-6 (I.F: 2.461).</p> <p>12. Sharma S, Agarwal L & Saxena R.K. (2008). Purification, Immobilization, Kinetics and Characterization of tannase from <i>Penicillium variable</i>. <i>Bioresource Technology</i> 99, 2544-2541(I.F: 11.8) https://doi.org/10.1016/j.biortech.2007.04.035.</p> <p>13. Saxena S & Saxena R.K (2004). Statistical optimization of tannase production from <i>Penicillium variable</i> using fruits (Chebulic myrobalan) of <i>Terminalia chebula</i>. <i>Biotechnology Applied Biochemistry</i> 39: 99-106 https://doi.org/10.1042/ba20030097 (I.F: 2.724)</p> <p>Book Chapters:</p> <ol style="list-style-type: none"> 1. R.K. Saxena, L. Agarwal, K.Dutt, Shashi Sharma et al (2007).”Potential of enzymes in therapeutic” In Micro for Human Life (Eds Ajit Verma). I.K. International Pvt. Ltd, New Delhi ,pp 577-588. 2. R.K. Saxena, Rani Gupta, Shashi Saxena and Ruchi Gulati (2001). “Role of Fungal Enzymes in Food Processing”. In Applied Mycology and Biotechnology, Vol 1, 353- 386. 3. S. Joy, T. Butalia, S. Sharma, P.K.S.M. Rahman, Biosurfactant producing bacteria from hydrocarbon contaminated environment, in: K. Heimann, O.P. Karthikeyan, S.S. Muthu (Eds.), Biodegradation and Bioconversion of Hydrocarbons, Springer, Singapore, 2017, pp. 259–305.
PATENTS (total no.)	One submitted
RESEARCH PROJECTS Completed: (total no.) Ongoing: (total no.)	<p>1.Hydrocarbon degradation and concomitant biosurfactant production from extremophilic micro-organisms using renewable sources with application as antimicrobial agent and in enhanced oil recovery. SERB, DST; Rs 23,60,000 (2013-2016)- PI</p> <p>2. Process development, purification and antimicrobial applications of bacterial biosurfactant (CSIR) Rs 9,13,600- As project mentor to SRF</p> <p>3.Enhanced bioremediation of pesticide contaminated crop fields of Punjab using biosurfactant producing concomitant pesticide degrading microbial consortium with plant growth promoting traits. Core Research Grant (CRG) SERB, DST; Rs 38,06,264 (2021-2024)- PI</p> <p>4. In Silico biodegradation prediction of White rot fungal laccases, surfactant with Endocrine Disrupting Chemicals – Bisphenol A/Triclosan-</p>

	<p>Rs 18,60,200 -2022-2025- As project mentor to SRF</p> <p>5.Exploration of beneficial indigenous rhizobacteria and their management in the field for growth promotion and stress tolerance Core Research Grant SERB, DST; (2022-2025) -Co-PI</p>
<p>AWARDS & HONOURS/ DISTINCTIONS</p>	<ul style="list-style-type: none"> • Received honorarium for module write up “Bioprocess Engineering” for e – PG -Pathshala, UGC – a MHRD project under its national mission through ICT (NME-ICT). • Awarded Young Scientist under start up young scientist scheme- Dept. of Science and Technology (DST), New Delhi, India- 2013. • Awarded the Senior Research Fellowship (SRF) from CSIR for three years from 2000 – 2003 • Submitted 12 sequences of biosurfactant producing bacteria; 23 of pesticide degrading bacteria & 2 of white rot fungus
<p>MEMBERSHIP with Professional/ Academic bodies</p>	<p>AMI, Biological Engineering Society, Society for Biotechnologists</p>