

STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title		First Name	Sayan	Last Name	Chatterjee	
Designation	Assistant Professor					
School /Dept. Name	University School of Biotechnology					
Address:	Room no. A108, University School of Biotechnology, Guru Gobind Singh Indraprastha University, Sector 16C, Dwarka, New Delhi 110078.					
Phone No.	Office	011-25302317				
	Residence	(optional)				
	Mobile	(optional)				
Email	1. sayan@ipu.ac.in			2.		
Web Page (if any)	Professional profile: https://www.linkedin.com/in/sayanchatterjee Research profile: https://scholar.google.co.in/citations?user=6dXlgusAAAAJ&hl=en					
Subjects Taught	<p>B.Tech. Biotechnology Program Bioinformatics, Microbial Bioprocess Engineering, Bioprocess Control Engineering, Statistical Methods in Biology and Experimental Design, Bioentrepreneurship and Management, Genetics, Developmental Biology, Cell Biology, Industrial Biotechnology, Foundation in Biology</p> <p>M.Tech. Food Processing Technology Program Food Laws and Acts, Food Process Engineering, Waste Management in Food Industries, Packaging Technology</p> <p>M.Tech. Biotechnology Program Bioinformatics, Pharmaco-informatics, Nutraceuticals and Functional Foods, Food Process Engineering and Quality Control, Industrial Biotechnology, Statistical Methods in Engineering and Technology, Bioproduct Development and Entrepreneurship</p>					
Areas of Interest/Specialization	Bioinformatics Biochemical Engineering Environmental Engineering Natural products and phytochemicals Marine Biotechnology Food Biotechnology					
Experience (in years)	Total	15 years				
	Industry	2 years				
	Teaching	13 years				
	Research	15 years				
Educational Qualifications	UG	BTech Biotechnology				
	PG	ME Biotechnology				
	Doctorate	Pursuing				
	Any other					
Research Publications in Journals (last 5 years)	<p><i>For latest updates please refer to the Research profile above.</i></p> <p>1. Vriti Sharma, Aakriti Singh, Diksha Sharma, Aashima Sharma, Sarika Phogat, Navjyoti Chakraborty, Sayan Chatterjee, Ram Singh Purty (2022) Stress Mitigation Strategies of Plant Growth-Promoting Rhizobacteria: Plant Growth-Promoting Rhizobacteria mechanisms, Plant Science Today 8(sp1) 25-32.</p>					

2. K Choudhury, M Gandhi, U Kumar, **S Chatterjee**, RS Purty (2022) Evaluation of the deleted in malignant brain tumor 1 protein expression and DNA methylation profile in rheumatoid arthritis patients. *Indian Journal of Rheumatology* (doi:10.4103/injr.injr_181_21)
3. DK Singh, **S Chatterjee**, Ram S Purty (2021) Titanium dioxide nanoparticles (nano-TiO₂) mitigate heavy metals stress in Indian mustard (*Brassica juncea* L.) seedlings, *Plant Cell Biotechnology and Molecular Biology*, 131-140.
4. A Vashisth, DK Singh, N Chakraborty, RS Purty, **S Chatterjee** (2021) Genome-Wide Study of the ABI3 Gene Family and Identification of Putative miRNA Targeting ABI3 Gene in *Oryza Sativa* ssp. Indica
5. SK Verma, S Kaur, A Tevetia, **S Chatterjee**, PC Sharma (2021) Structural characterization and functional annotation of microbial proteases mined from solid tannery waste metagenome, *Biologia* 76 (6), 1829-1842.
6. RS Purty, I Shakya, **S Chatterjee** (2021) Synthesis and Characterization of TiO₂ Nanoparticle and Checking Its Antimicrobial Activity Against *Escherichia coli* and *Staphylococcus aureus* *Advances in Bioprocess Engineering and Technology*, 317-325.
7. **S Chatterjee**, K Tripathi, RS Purty (2021) Isolation of Cellulose-Degrading Bacteria and to Use Their Cellulolytic Potential for Production of Bioethanol from Paper Waste, *Advances in Bioprocess Engineering and Technology*, 3-11.
8. A Waziri, **S Chatterjee**, Ram S Purty (2020) Expression Analysis of *Osphd6* Gene in Response to Salinity Stress and Rehydration in Rice Seedlings, *Plant Cell Biotechnology And Molecular Biology*, 65-74.
9. A Waziri, DK Singh, T Sharma, **S Chatterjee**, RS Purty (2020) Genome-wide analysis of PHD finger gene family and identification of potential miRNA and their PHD finger gene specific targets in *Oryza sativa indica*, *Non-coding RNA research* 5 (4), 191-200.
10. DK Singh, S Mehra, **S Chatterjee**, RS Purty (2020) In silico identification and validation of miRNA and their DIR specific targets in *Oryza sativa Indica* under abiotic stress, *Non-coding RNA research* 5 (4), 167-177.
11. NK Pipil, **S Chatterjee**, RS Purty (2020) Empirical Modeling of Growth Parameters in *Cellulosimicrobium cellulans* during Heavy Metal Tolerance, *Journal of Physics: Conference Series* 1531(1), 012120.
12. P Kumar, S Asthana, RS Purty, **S Chatterjee** (2020) Process Design For Removal of Heavy Metals By A Biosorbent Trickle Bed System: A Proof of Concept, *Journal of Physics: Conference Series* 1531 (1), 012119.
13. **Chatterjee S**, Jha AN, Purty RS. (2020) Presence of heavy metal in water (Yamuna River), soil and vegetables in Delhi and to examine the effect of phyto-accumulating capacity of *Eichhornia crassipes*. *Plant Cell Biotechnology And Molecular Biology*, 21(3-4), 22-36.
14. **Chatterjee S**, DAS, PK., & Purty RS. (2020). Expression analysis of serine biosynthesis pathway genes under various abiotic stress in *Brassica juncea* (L.) Czern. . *Plant Cell Biotechnology And Molecular Biology*, 21(3-4), 11-21.
15. Bhati T, Gupta R, Yadav N, Singh R, Fuloria A, Waziri A, **Chatterjee S**, Purty RS. (2019) Assessment of Bioremediation Potential of *Cellulosimicrobium* sp. for Treatment of Multiple Heavy Metals. *Microbiology and Biotechnology Letters*, 47(2), 269-277.

	<p>16. Kumar S, Chatterjee S, Kumar S. (2018) Dual anti-cholinesterase activity of ajoene by In silico and In vitro studies. Pharmacognosy Research 10 (2), 225.</p> <p>17. Purty RS, Sachar M, Chatterjee S (2017) Structural and Expression Analysis of Salinity Stress Responsive Phosphoserine Phosphatase from Brassica juncea (L.). J Proteomics Bioinformatics 10 (4), 119-127.</p> <p>18. Purty RS and Chatterjee S. (2016). DNA Barcoding: An Effective Technique in Molecular Taxonomy. Austin J Biotechnol. Bioeng. 3 (1), 1059.</p>
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Papers Published in Conference Proceedings (last 5 years)				
Books Authored/Book Volume Chapters				
No. of Conferences	National	Attended		Organized
	International			
Research Guidance	Awarded	PG	M. Phil	Doctorate
		16	-	-
	Undergoing	02	-	-
Research Projects	Completed			
	Undergoing			
Awards & Distinctions				
Administrative Assignments Handled	<p>Member, Board of Studies– Biotechnology, GGSIP University, Dwarka. New Delhi, India (2012-2014, 2014- 2016, 2019-2021)</p> <p>In-charge Electronic Data Processing (EDP) at Examination Division, GGSIP University, New Delhi, India (2020-2021)</p> <p>In-charge National Academic Depository (NAD) Cell at Examination Division, GGSIP University, New Delhi, India (2020-2021)</p> <p>Course coordinator BTech Biotechnology, University School of Biotechnology, GGSIP University, New Delhi, India (2018 till date)</p> <p>Co-course coordinator MTech Food Processing Technology, University School of Biotechnology, GGSIP University, New Delhi, India (2012-2013)</p> <p>Placement coordinator, University School of Biotechnology, GGSIP University, New Delhi, India (2018 till date)</p> <p>Alumni coordinator, University School of Biotechnology, GGSIP University, New Delhi, India (2020 till date)</p> <p>Returning Officer, University Students’ Election, GGSIP University, New Delhi, India (2015 till date)</p> <p>Coordinator, Examination Coordination, University School of Biotechnology, GGSIP University, New Delhi, India (2012-2014, 2018-2020)</p> <p>Coordinator, Minor Examinations (Class Tests), University School of Biotechnology, GGSIP University, New Delhi, India (2012-2014)</p> <p>Convener, Academic Audit team, GGSIP University, New Delhi, India (2015, 2016, 2018, 2019)</p> <p>Convener Joint Accreditation Committee (JAC) team, GGSIP University, New Delhi, India (2015, 2018, 2019)</p> <p>Hostel Warden Boys – Aravali, GGSIP University, New Delhi, India (2013-2015)</p>			

	Faculty Coordinator – Dramatics Society (Aveksha) , Directorate of Student Welfare, GGSIP University, New Delhi, India (2013-2015)
Association with Professional Bodies	<p>Review Editor in Frontiers in Molecular Biosciences (Frontiers group)</p> <p>Editorial Board Member in Austin Journal of Biotechnology and Bioengineering (Austin Publishing)</p> <p>Review member for 3 Biotech (Springer-Nature)</p> <p>Review member for Non-coding RNA (Elsevier)</p> <p>Reviewer member for PLOSONe</p> <p>Review member for Plant Science Today</p> <p>Member of the International Association of Engineers Member of the Asia-Pacific Chemical, Biological & Environmental Engineering Society</p> <p>Life Member of The Indian Science Congress Association</p> <p>Fellow of Society for Applied Biotechnology Member of IAENG Society of Bioinformatics</p> <p>Member of IAENG Society of Chemical Engineering</p> <p>Member of IAENG Society of Industrial Engineering</p>
Any other Achievements	