


STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr	First Name	Ram	Last Name	Purty	
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	011-25302311				
	Residence	(optional)				
	Mobile	(optional)				
Email	1. rspurty@ipu.ac.in			2. rspurty@gmail.com		
Web Page (if any)	Google Scholar: https://scholar.google.co.in/citations?user=tMRupccAAAAJ&hl=en ORCID: https://orcid.org/0000-0003-4468-9199					
Subjects Taught	<p>B.Tech. Biotechnology Program Cell Biology, Techniques in Biotechnology, Downstream Processing, Plant Biotechnology, Microbial Bioprocess Engineering, Biosensor,</p> <p>M.Tech. Biotechnology Program Industrial Biotechnology, Advance Bioprocess Engineering, Biotechnology in Healthcare</p> <p>Ph.D. Biotechnology Program Molecular Aspect of Plant Abiotic Stress</p>					
Areas of Interest/Specialization	Plant Stress Physiology and Molecular Biology, Functional Genomics, Bioinformatics and Biotechnology					
Experience (in years)	Total	23 years				
	Industry	--				
	Teaching	15 years				
	Research	23 years				
Educational Qualifications	UG	B.Sc. (Botany)				
	PG	M.Sc. (Biotechnology)				
	Doctorate	Ph.D. (Botany)				
	Any other					

Research
Publications in
Journals
(last 5 years)

Details should be provided in APA/IEEE format

For latest updates please refer to the Research profile above.

1. Sharma V, Singh A, Sharma D, Sharma A, Phogat S, Chakraborty N, Chatterjee S, **Purty RS** (2022) Stress Mitigation Strategies of Plant Growth-Promoting Rhizobacteria: Plant Growth-Promoting Rhizobacteria mechanisms, *Plant Science Today* 8(sp1) 25-32.
2. Choudhury K, Gandhi M, Kumar U, Chatterjee S, **Purty RS** (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. Singh DK, Chatterjee S, **Purty RS** (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. Kumar P, **Purty RS** (2021) Nature of the tapetum specific promoter is crucial for generation of rice transgenics possessing a lethal barnase gene. *Journal of Crop Science and Biotechnology*. 24, 579–587
5. Vashisth A, Singh DK, Chakraborty N, **Purty RS**, Chatterjee S (2021) Genome-Wide Study of the ABI3 Gene Family and Identification of Putative miRNA Targeting ABI3 Gene in *Oryza sativa* ssp. Indica
6. Kumar S, Chowdhury S, Razdan A, Kumari D, **Purty RS**, Ram H, Kumar P, Nayak P, Shukla SD (2021) Downregulation of candidate gene expression and neuroprotection by Piperine in Streptozotocin-induced Hyperglycemia and Memory Impairment in Rat. *Frontiers of Pharmacology*. doi: 10.3389/fphar.2020.595471, 2021
7. **Purty RS**, Shakya I, Chatterjee S (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.
8. Chatterjee S, Tripathi K, **Purty RS** (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.
9. Waziri A, Chatterjee S, **Purty RS** (2020) Expression Analysis of *OsPHD6* Gene in Response to Salinity Stress and Rehydration in Rice Seedlings, *Plant Cell Biotechnology and Molecular Biology*, 65-74.
10. Waziri A, Singh DK, Sharma T, Chatterjee S, **Purty RS** (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.
11. Singh DK, Mehra S, Chatterjee S, **Purty RS** (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.
12. Parvez MK, Jagirdar RM, **Purty RS**, Venkata SK, Agrawal V, Kumar J, Tiwari N (2020) COVID-19 pandemic: Understanding the emergence, pathogenesis and containment. *World Academy of Sciences Journal*. 2 (5), 18.
13. Pipil NK, Chatterjee S, **Purty RS** (2020) Empirical Modeling of Growth Parameters in *Cellulosimicrobium cellulans* during Heavy Metal Tolerance, *Journal of Physics: Conference Series* 1531(1), 012120.
14. Kumar P, Asthana S, **Purty RS**, Chatterjee S (2020) Process Design For

	<p>Removal of Heavy Metals By A Biosorbent Trickle Bed System: A Proof of Concept, Journal of Physics: Conference Series 1531 (1), 012119.</p> <p>15. 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 <i>Eichhornia crassipes</i>. Plant Cell Biotechnology And Molecular Biology, 21(3-4), 22-36.</p> <p>16. 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.</p> <p>17. 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> <p>18. Kumar P, Chand I, Purty RS (2018) Comparative analysis of the Agrobacterium mediated transformation using primary and secondary callus of the indica rice (<i>Oryza sativa</i> L.) using phosphinothricin as selecting medium. Australian Journal of Crop Science. 12 (10), 1660-1667.</p> <p>19. 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>20. Saxena A, Purty RS (2017) Evaluating morphological, physiological and biochemical responses of three amphiploid Brassica species to salinity stress. Indian Journal of Biology 4 (1), 11-18.</p> <p>21. Kumar P, Kaur K, Purty RS, Mohan M, Burma PK (2017) Development of male sterile transgenic lines in rice by tapetum specific expression of barnase gene. Journal of Plant Biotechnology 44 (4), 364-371.</p> <p>22. Purty RS and Chatterjee S. (2016). Saltol QTL and Their Role in Salinity Tolerance in Rice. Austin J Biotechnol. Bioeng. 3 (3), 1067.</p> <p>23. Purty RS and Chatterjee S. (2016). DNA Barcoding: An Effective Technique in Molecular Taxonomy. Austin J Biotechnol. Bioeng. 3 (1), 1059.</p>
--	--

Papers Published in Conference Proceedings (last 5 years)

--

Books Authored/Book Volume Chapters

1. Chatterjee S, Tripathi K, **Purty RS** (2021) Isolation of Cellulose-Degrading Bacteria and to Use Their Cellulolytic Potential for Production of Bioethanol from Paper Waste. In: Ramkrishna D., Sengupta S., Dey Bandyopadhyay S., Ghosh A. (eds) Advances in Bioprocess Engineering and Technology. Lecture Notes in Bioengineering. Springer, Singapore. pp 3-11, https://doi.org/10.1007/978-981-15-7409-2_32
2. **Purty RS**, Shakya I, Chatterjee S (2021) Synthesis and characterization of TiO₂ nano-particle and checking its antimicrobial activity against Escherichia coli and Staphylococcus aureus. In: Ramkrishna D., Sengupta S., Dey Bandyopadhyay S., Ghosh A. (eds) Advances in Bioprocess Engineering and Technology. Lecture Notes in Bioengineering. Springer, Singapore. https://doi.org/10.1007/978-981-15-7409-2_32

No. of Conferences	National	Attended		Organized
		05		--
	International	09		01
Research Guidance	Awarded	PG	M. Phil	Doctorate
		07	-	01
	Undergoing	02	-	04
Research Projects	Completed	08		
	Undergoing	01		
Awards & Distinctions	BOYSCAST Fellowship 2010-2011, Department of Science and Technology, Government of India, New Delhi			
Administrative Assignments Handled	<p>Member, Board of Studies– Biotechnology, GGSIP University, Dwarka. New Delhi, India</p> <p>Faculty coordinator BTech Biotechnology, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>Co-course coordinator MTech Biotechnology, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>GATE coordinator, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>IBSC Member secretary, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>Placement coordinator, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>Member, Departmental Purchase committee, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>Member, Repair & Maintenance Committee USBT, GGSIPU, New Delhi, India</p> <p>Returning Officer, University Students' Election, GGSIP University, New Delhi, India</p> <p>University Representative, CET, GGSIPU, New Delhi, India</p> <p>Admission Officer, BTech/MTech admission GGSIPU, New Delhi, India</p> <p>Coordinator, Examination Coordination, University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>Coordinator, Minor Examinations (Class Tests), University School of Biotechnology, GGSIP University, New Delhi, India</p> <p>Convener, Academic Audit team, GGSIP University, New Delhi, India</p> <p>Convener Joint Accreditation Committee (JAC) team, GGSIP University, New Delhi, India</p> <p>Exam Invigilator, GGSIP University, New Delhi, India</p> <p>Answer Sheet Evaluator, GGSIP University, New Delhi, India</p> <p>Question Paper Setter, GGSIP University, New Delhi, India</p> <p>Directorate of Student Welfare, GGSIP University, New Delhi, India</p> <p>Member, Anugoonj Committee, GGSIP University, New Delhi, India</p>			

Association with Professional Bodies	Life member, Delhi University Botanical Society (DUBS), Botany Department, University of Delhi, New Delhi Review member, Molecular Genetics and Genomics (Springer) Editorial Board Member in Austin Journal of Biotechnology and Bioengineering (Austin Publishing) Review member, Plant Science Today, HORIZON ePublishing Group (India)
Any other Achievements	--