




## Faculty Details proforma for Gargi College

Title	Dr.	First Name	<b>REEMA</b>	Last Name	<b>MISHRA</b>	Photograph
Designation		ASSISTANT PROFESSOR				
Address		A-2/28 SHAKTI NAGAR EXTENSION, DELHI-110052				
Phone No Office						
Residence*		<b>9999774105</b>				
Mobile*		<b>9873956546</b>				
Email		<b>reema.khurana@gmail.com</b>				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi, DPMB, South campus			2011	
M.Phil		University of Delhi, DPMB, South campus			2005	
M.Sc. Botany		University of Delhi, Miranda House			2004	
B.Sc. Botany (Hons)		University of Delhi, Miranda House			2002	
12th		C.B.S.E.			1999	
10th		C.B.S.E.			1997	
Career Profile						
<ul style="list-style-type: none"> <li>Post-Doctoral fellow 3.5 years</li> <li>Teaching experience 3.5 years</li> </ul>						
Areas of Interest / Specialization						
<b>PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY, PLANT PHYSIOLOGY</b>						
Subjects Taught						
Plant Physiology, Industrial Microbiology, Biodiversity, Bioinformatics, Plant biotechnology Analytical Techniques in Plant Sciences, Genetics, Environmental Science, Reproductive Biology, Plant Metabolism						
Recent Publications						

1. Ranjan, R, **Khurana R**, Malik N, et al. (2017) bHLH142 regulates various metabolic pathway-related genes to affect pollen development and anther dehiscence in rice. *Sci. Rep.* 7, 43397.
2. **Khurana R**, Kapoor S, Tyagi A K (2013) Spatial and temporal activity of upstream regulatory regions of rice anther-specific genes in transgenic rice and *Arabidopsis* *Transgenic Research* 22:31-46.
3. **Khurana R**, Kathuria H, Mukhopadhyay A, Kapoor S, Tyagi A K (2013) A 286 bp upstream regulatory region of a rice anther-specific gene, *OSIPP3*, confers pollen-specific expression in *Arabidopsis*. *Biotechnol Letters* 35:455-462.
4. Swapna L\*, **Khurana R\***, Vijaya Kumar S, Tyagi A K, Rao K V (2010) Pollen-specific expression of *Oryza sativa indica* pollen allergen gene (*OSIPA*) promoter in rice and *Arabidopsis* transgenic systems. *Molecular Biotechnology* 48:49-59. (\* equal contribution).
5. **Khurana R**, Kapoor S, Tyagi A K (2012) Anthology of anther-specific promoters and transcription factors. *Critical Reviews in Plant Sciences* 31:359-390
6. Kapoor S, **Khurana R**, Baranwal V, Agarwal P, Ray S and Tyagi (2011) A Genome-wide strategies for genetic enhancement of rice. In *Genomics and Crop Improvement: Relevance and Reservations*, K. Muralidharan and EA Siddiq eds. PP 11-25.

### **BOOK CHAPTER**

- Geeta and **Reema Mishra** (2018) Fungal and Bacterial Biotrophy and Necrotrophy. In: A. Singh and I. K. Singh (Eds.) *Molecular Aspects of Plant-Pathogen Interaction* Springer Nature.

### **Patent Filed**

Tyagi A, Kapoor S, **Khurana R**. (2012) Rice promoters and uses thereof. Indian Complete Patent Application # 1103/DEL/2012 (Pending).

### **Conference Organization/ Presentations**

- Organized workshop on “Plant Tissue Culture: Technique & Applications” on 16 June, 2015, held at Department of Botany, Gargi College, University of Delhi.
- Organized Skill Enhancement Workshop on “Why to Grow and How to Multiply Plants” held on September 26, 2017 at Department of Botany, Gargi College, University of

Delhi.

- Organized Workshop on “Analytical Techniques in Biochemistry” held on August 30 and 31, 2017 at Department of Botany, Gargi College, University of Delhi.
- Rajeev Ranjan, **Reema Khurana**, and Akhilesh K. Tyagi (2015). A bHLH Transcription Factor Regulates Anther Development and Dehiscence in Rice. Presented as poster at 11th International Plant Molecular Biology Congress (IPMB2015) held at Iguassu Falls, Brazil, from October 25th to 30th, 2015.
- Rajeev Ranjan, **Reema Khurana**, and Akhilesh K. Tyagi (2015). Overexpression of OsbHLH142 causes complete male sterility in rice. Presented as poster at 3rd International Plant Physiology Congress (IPPCongress2015) held at Convention Centre, JNU, New Delhi, India from December 11 to 14th, 2015.
- Presented poster entitled ‘Morphological and Anatomical Parameters of Plants as Indicator of Air Pollution in Delhi’ in National Conference on “Challenges and Strategies to Improve Crop Productivity in Changing Environment” held on January 12, 2018 at Zakir Husain Delhi College, University of Delhi.
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#### Awards and Distinctions

- Secured third Position in the University in B.Sc. (Hons) Botany.
- Secured third position in the Science Quest, 2003-2004.
- Recipient of Lakshmi Krishnaswami Award (For highest marks in B.Sc. (H) Botany I and II year, Miranda House, DU.
- Recipient of All India Post Graduate scholarship, 2003-2004.
- Secured first Position in the University in M.Sc. Botany.
- Recipient of Panchanan Maheshwari medal.
- Qualified Joint CSIR-UGC Junior Research Fellowship (JRF) and Eligibility for Lectureship - National Eligibility Test (NET) held on June 2006, and obtained CSIR Junior Research Fellowship.
- Recipient of Dr. D. S. Kothari fellowship for postdoctoral research (2013).

#### Other Activities

- Completed Orientation Programme (OR-91) from 21st November 2017 to 19th December 2017, conducted by Centre for Professional Development in Higher Education (CPDHE), University of Delhi.
- Attended Faculty Development Programme ‘Industrial and Environmental Microbiology’ organized by Department of Botany, Daulat Ram College, University of Delhi, held on 19-20 March, 2018.
- Attended National seminar on ‘Mentoring the Teacher-Mentors: Capacity Building Programme’ organized by the Internal Quality Assessment Cell of Gargi College in

collaboration with Departments of Elementary Education, Philosophy and Psychology on January 19-20, 2018.

- Attended National Conference on “Challenges and Strategies to Improve Crop Productivity in Changing Environment” held on January 12, 2018 held at Zakir Husain Delhi College, University of Delhi.
- Attended 1st Science Ambassador Program (INDIA), organized by Deshbandhu College, University of Delhi In association with BIO-RAD at St. Thomas Girls Sr. Sec. School on November 6, 2017.
- Attended Workshop on “Gardening: Cultivate learning and living” held on 20th September, 2017 at Department of Botany, SGTB Khalsa College, University of Delhi.
- Attended Lecture Workshop on “Women in Science: A Career in Science” held on August 10-11, 2017 at Deen Dayal Upadhyaya College, University of Delhi.
- Attended Workshop on Plagiarism organized by Library, Gargi College University of Delhi.
- Attended National symposium on “Biotechnology in crop improvement: Prospects and challenges” held 01st April, 2016 at Zakir Husain college, University of Delhi.
- Attended National Conference entitled "Combating Industrial Pollution for Sustainable Environment – A Fusion of Scientific and Industrial Efforts" 22-23 September, 2016 held at Gargi College University of Delhi.
- Symposium on ‘Recent Trends in Regulatory Biology and Biotechnology’ December 21, 2016 held at Department of Plant Molecular Biology University of Delhi South Campus.
- National Workshop on Medicinal Botany and Drug Discovery. January 30-31, 2017 organized by Ramjas College, Department of Botany, University of Delhi.
- Preservation and Conservation of Knowledge and Practices of North East with special reference to Cleanliness and Sanitation” under the Swacchtha Pakhwada programme of Government of India jointly organised by TERI in collaboration with Ministry of Development of North Eastern Region (MDoNER) February 27, 2017 held at India Habitat Centre, Lodhi Road, New Delhi.
- A workshop on 'DNA Fingerprinting' under science setu Program held on 22 January 2016, at Hindu college