


# CENTRAL UNIVERSITY OF JAMMU

## FACULTY PROFILE PERFORMA

<b>First Name</b>	DEEPAK	<b>Middle Name</b>		<b>Last Name</b>	BHARDWAJ	<b>Photograph (attach below)</b>
<b>Title &amp; Designation</b>		ASSOCIATE PROFESSOR				
<b>Address</b>		Botany Department Central University of Jammu Rahya Suchani Samba district Bagla, J&K, 181143				
<b>Phone Number</b>						
<b>Office</b>		01923249658				
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<b>Web-Page</b>						
<b>Educational Qualifications:</b>						
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
PG Diploma (Environment and Sustainable Development)	Indira Gandhi National Open University					
Post-Doctoral Fellow	International Centre for Genetic Engineering and Biotechnology, New Delhi (ICGEB)					
Ph.D.	Botany Department, Delhi University & International Centre for Genetic Engineering and Biotechnology, New Delhi (ICGEB)					
M.Phil.	Botany Department, Delhi University					
M.Sc.	Hindu College, Delhi University					
B.Sc.	Sri Venkateswara College, Delhi University					
<b>Career Profile:</b>						
Assistant Professor, Central University of Jammu				July 2016 - Nov 2023		
Assistant Professor, Kirorimal College, Delhi University				July 2015 - July 2016		
Assistant Professor, Dyal Singh College, Delhi University				Aug 2015 - Dec 2016		
Assistant Professor, PGDAV College, Delhi University				Aug 2014 - June 2015		
Assistant Professor, Hansraj College, Delhi University				Jan 2014 - May 2014		
Assistant Professor, SGTB Khalsa College, Delhi University				Jan 2014 - April 2014		
Post-Doctoral Fellow in a Indo-French project, ICGEB, New Delhi				May 2013 - Jan 2014		
<b>Administrative Assignments:</b>						
Member, Board of Research, Botany Department, Central University of Jammu						
<b>Areas of Interest / Specialization:</b>						
G-proteins mediated cell signaling in plants CRISPR cas9 mediated gene editing Nitric oxide signaling with respect to heat stress and stomatal regulation. Environmental challenges and agricultural output with the involvement of biofertilizers Nutrient sensing in plants						
<b>Subjects Taught:</b>						

Phycology, Gymnosperms and Paleobotany, Molecular Biology and Plant Biotechnology, Environmental Biology, Plant Physiology and Biochemistry, Economic Botany, Bryology and Pteridology

#### Research Guidance:

1 PhD students (ongoing)

4 M.Sc. dissertation (Awarded)

#### Publications Profile:

##### a. Publications

- Sharma B, Ganotra J, Biswal B, Sharma K, Gandhi S, **Bhardwaj D\***, Tuteja N\*. (2023). An atypical heterotrimeric G $\alpha$  and its interactome suggest an extra-large role in overcoming abiotic and biotic stress. *Physiology and Molecular Biology of Plants*. doi: 10.1007/s12298-023-01378-6.
- Sharma S, Ganotra J, Samantaray J, Sahoo RK, **Bhardwaj D\***, Tuteja N\*. (2023). An emerging role of heterotrimeric G-proteins in nodulation and nitrogen sensing. *Planta*. 258.1-17. doi.org/10.1007/s00425-023-04251-8.
- Ganotra J, Sharma B, Biswal B, **Bhardwaj D\***, Tuteja N\*. (2022). Emerging role of small GTPases and their interactome in plants to combat abiotic and biotic stress. *Protoplasma*. doi: 10.1007/s00709-022-01830-6.
- **Bhardwaj D.** Sahoo RK, Naqvi AR, Lakhanpaul S, Tuteja N. (2020). Pea G $\beta$  subunit of G-proteins has a role in nitric oxide-induced stomatal closure in response to heat and drought stress. *Protoplasma*. 257:1639-1654. doi: 10.1007/s00709-020-01529-6.

#### Conference/Workshops/Training attended as Faculty Member:

- Attended a Hands-On workshop on "Re-designing Smart Crops for Sustainable Agriculture: Dynamics of CRISPR-Cas Breeding, NGS and beyond" organized by the International Centre for Genetic Engineering and Biotechnology collaboration of Department of Biotechnology, New Delhi, India, 5<sup>th</sup>-10<sup>th</sup> November 2023.
- Attended a Hands-On Online workshop on "Molecular Docking and Biological Software Packages for Data Analysis" Organized by the Centre for Molecular and Nanomedical Sciences. International Research Center, Sathyabhama Institution of Science and Technology, Chennai, India, 07<sup>th</sup>-9<sup>th</sup> September 2023.
- Convened the 'Promoting Applied Research in Plant Sciences - 2022' event at the Department of Botany, Central University of Jammu, Samba, India, 9<sup>th</sup>-10<sup>th</sup> November 2022."
- Attended a Hands-on Online Work workshop on "CRISPR -Cas Gene editing" Shree Guru Gobind Singh Tricentenary (SGT) University, and Alliance of Biodiversity International and CIAT, Gurugram, India, 23<sup>rd</sup>-27<sup>th</sup> March 2021.
- Organized a program on "Van Mahotsav Celebration -2018" at the Central University of Jammu, Samba, India, 30<sup>th</sup> July 2018.
- Attended an Inter-Disciplinary Refresher Course on "Online Teaching Learning and Assessments" at Central University of Jammu, Samba, India, 25<sup>th</sup> May-8<sup>th</sup> June 2018.
- Attended a workshop on "Transacting Students' engagement for Rural Community development" at Central University of Jammu and National Council of Rural Institutes (NCRI), Hyderabad, MHRD, Government of India, Samba, India, 26<sup>th</sup>-27<sup>th</sup> April 2017.

- Attended a workshop on “Universal health coverages: Everyone, everywhere” at Central University of Jammu, Samba, India, 9<sup>th</sup> April 2018.
- Attended a workshop on professional development “Programme on Online Teaching, Learning, And Assessment Using Moodle MOOC Platform and Open Educational Resources” at Central University of Jammu, Samba, India, 15<sup>th</sup>-16<sup>th</sup> September 2017.

#### **Invited Lectures/Resource Persons:**

- Delivered a lecture on ‘Diversity of Pea G-Protein Gamma Subunit Confers Abiotic and Biotic Stress Tolerance at the International Conference on Emerging Trends in Biosciences and Chemical Technology- 2022, Sri Mata Vaishno Devi University in collaboration with Indian Institute of Integrative Medicine, Katra, India, 3<sup>rd</sup>-5<sup>th</sup> December 2022.
- Delivered lecture on G-Proteins and Environmental Stress at International Centre for Genetic Engineering and Biotechnology, New Delhi.

#### **Research Projects (Major Grants/Research Collaboration):**

Engaged in various residential and consultancy projects pertaining to landscape Architecture and Horticulture.

#### **Awards and Distinctions:**

- **Dr. M. J. Thirumalachar Young Scientist Award-2017** for best oral presentation on the role of G-proteins in plants.
- Received the gold medal for the award of **APSI best paper presentation award-2017** for the paper presented on the role of abiotic stress alleviation in plants.
- Young Scientist Award in the Jammu Kashmir Science Congress, 2017, held in Jammu, 02nd- 04th March 2017.
- Received Best Poster Award in the International Conference on Plant Biotechnology for Food Security: New Frontiers, 2012, New Delhi.
- Received Post-Doctoral Fellowship awarded by Indo–French Centre for the Promotion of Advanced Research In the project titled “**Nutrient sensing in plants**”.
- Qualified and received Junior Research Fellowship in 2006 sponsored by University Grant Commission
- Qualified the *UGC-NET-2005* for eligibility for *Lectureship*

#### **Association with Professional Bodies:**

An active member of Climate Reality Leadership Corps.

#### **Other Activities:**

Writing scientific columns for newspaper and scientific magazine