



Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Gunjan	Last Name	Sirohi	Photograph
Designation		Assistant Professor				
Address	Department of Botany, Shivaji College, Raja Garden Delhi					
Office Phone No.	---					
Residence	---					
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Email	gunjansirohi@shivaji.du.ac.in					
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Educational Qualifications	M.Sc, Ph.D					
Degree	University/Institute					
Ph.D.	Jamia Hamdard					
PG	University of Rajasthan					
Career Profile						
<ul style="list-style-type: none"> • Assistant Professor, Department of Botany, Shivaji College (University of Delhi) 2023-present. • Assistant Professor, Department of Microbiology, Bhaskaracharya College 						

<p>of Applied Science (BCAS), University of Delhi (2019-2023).</p> <ul style="list-style-type: none"> • Undertaken independent research project as project investigator (PI) under Young Scientist Scheme awarded by Dept. of Science and Technology, Govt. of India (2016-2019). • Guest Faculty in Department of Microbiology, Bhaskaracharya College of Applied Science (BCAS), University of Delhi (2015-16). • Research Associate (RA) at National Institute of Plant Genome Research (NIPGR), New Delhi (2013-2014). • Worked as Senior Research Fellowo (SRF) in Department of Genetics, University of Delhi South Campus (2012-13).
<p>Administrative Assignments</p>
<p>Member of Add-on & Value Added Courses Committee, Shivaji College. Member of Waste Management Committee, Shivaji College.</p>
<p>Areas of Interest/Specialisation</p>
<p>Molecular Biology and Plant Biotechnology</p>
<p>Subjects Taught</p>
<p>Cell and Molecular Biology, Plant cell and Developmental Biology, Bioinformatics, Microbial Biotechnology, Industrial Microbiology, Bacteriology and Virology, Introduction and Scope of Microbiology etc.</p>
<p>Innovation Project/Research Projects (Major Grants/Research Collaboration)</p>
<ul style="list-style-type: none"> ➤ Project (Major Grant): Project Investigator titled “Identification and Characterization of microRNAs involve in regulation of Brassinosteroids function in plant”. Funded by Science and Engineering Research Board (SERB): Successfully Completed. ➤ Project Investigator DBT star college, Govt of India projects guided to the undergraduate students of BCAS during the working tenure at BCAS.
<p>Publications Profile (Research Papers/Books)</p>
<p>Book chapters</p> <ul style="list-style-type: none"> • Gunjan Sirohi and Meenu Kapoor (2020) Brassinosteroids in Lowering Abiotic Stress-mediated Damages. Protective Chemical Agents in the Amelioration of Plant Abiotic Stress: Biochemical and Molecular Perspectives (Edited by Aryadeep Roychoudhury Durgesh Kumar Tripathi) Published in Wiley. DOI: https://doi.org/10.1002/9781119552154.ch15. (ISBN: 9781119552154). • Gunjan Kumari, Karuna Kusumanjali, Alka Narula, P. S. Srivastava and Sandip Das (2012) Aspects of miRNAs in somatic embryogenesis. Somatic Embryogenesis and Gene Expression (Junaid Aslam, P. S. Srivastava and M. P. Sharma), Narosa Publishing 231-244. (ISBN No. E 978-81-8487-468-6).

Research Papers

- **Gunjan Sirohi**, Ankitha Khandelwal and Meenu Kapoor (2019) High-throughput sequencing and differential expression analysis of miRNAs in response to Brassinosteroid treatment in *Arabidopsis thaliana*. Functional & Integrative Genomics DOI: 10.1007/s10142-019-00668-1
- **Gunjan Sirohi**, Karuna Kusumanjali, Ritesh Kumar, Aditi Jain, P. S. Srivastava and Sandip Das (2018) Syntenic analysis and functional characterization of miR165a from *Brassica* species. Acta Physiol Plant 40:16 <https://doi.org/10.1007/s11738-017-2592-5>.
- **Gunjan Sirohi (ne'e Kumari)**, Anamika Upadhyay, P. S. Srivastava and Sheela Srivastava (2015) PGPR mediated Zinc biofertilization of soil and it's impact on growth and productivity of wheat. Journal of Soil Science and Plant Nutrition 15:202-216
- **Gunjan Kumari**, Karuna Kusumanjali, P. S. Srivastava and Sandip Das (2013) Isolation and expression analysis of miR165a and REVOLUTA from *Brassica* species. Acta Physiol Plant 35:399-410.
- Karuna Kusumanjali, **Gunjan Kumari**, P. S. Srivastava and Sandip Das (2012) Sequence conservation and divergence in miR164C1 and its target, CUC1, in Brassica species. Plant Biotechnol Rep DOI 10.1007/s11816-011-0208-x.

Review Article

- **Gunjan Sirohi**, Bipin Panday, Priyanka deveshwer and Jitender Giri (2016) Emerging trends in epigenetic regulation of nutrient deficiency response in plants. Molecular Biotechnology 58:159-71.

Conference/Seminar/Faculty Development Programme/Workshop

Participated and presented papers in National and International conferences

Participated in the Two-days virtual International Conference on "Bioinformatics in Biology: From Pre-requisite to Post-requisite", March 2-3, 2024, organized by the Department of Botany, Gargi College, University of Delhi and funded by Department of Biotechnology, Government of India. From Department of Botany, Shivaji College, University of Delhi.

Attended webinar on National Education Policy 2020 based on the theme "Fostering Social Responsibility and Community Engagement in Higher Education Institutions in India 2.0" organized by Centre for Professional Development in Higher Education (CPDHE) on 21st February 2024.

Participated in International Conference on Air Pollution in Delhi NCR and North India during Winter: Causes and Remedies organized by the BCAS on October 6, 2022.

Attended International Conference on The Impact of COVID-19 on International Higher Education organized by Directorate, International Affairs, Guru Gobind Singh Indraprastha University & UNESCO, New Delhi Cluster Office & UNESCO-International Institute for Capacity Building in Africa (IICBA) held on March 11, 2021.

International Symposium on “Advances in Plant Biotechnology and Genome Editing” & 42nd Meeting of Plant Tissue Culture Association (India) organized by ICAR-Indian Institute of Agricultural Biotechnology, Ranchi, India between April 8-10, 2021.

Functional Characterization of a transregulator (miR165a) from Brassica juncea. “International conference on Biotechnology for Human Welfare”. Organized by Kakatiya University, Warangal, February (2013).

Molecular cloning and characterization of miR165a and its target REVOLUTA from brassica species. International conference on “Plant Biotechnology for Food Security : New Frontiers”, National Agriculture Science Center Pusa, New Delhi, India (February, 2012).

Exploring the role of miR165a in leaf development in Brassica juncea. National symposium on “Recent Advances in Plant Tissue Culture and Biotechnological Researches in India”, Bikaner, Rajasthan, (April, 2011).

Molecular analysis of regulatory elements involved in leaf development in Brassica species. Awarded certificate for Appreciation of the poster presented during the National Symposium on “Plant Propagation, Conservation, Modification and Characterization” organized at IHBT (CSIR), Palampur (April, 2009).

Isolation and molecular characterization of miR165a and its target (REVOLUTA) from Brassica species. Poster presented for the National conference on “Emphasizing Recent Advances in Oilseed Production and Industrialization with Special Reference to Rapeseed-Mustard” at BHU, Varanasi (November, 2008).

Participated in Workshops and Training programmes

Attended Workshop on “Managing Conflicts and Teamwork for Healthy Work Environment” organized by NEP 2020 Task Force, Bhaskaracharya College of Applied Sciences, University of Delhi on March 17, 2023.

Attended the workshop, Sensory gardens: Plants that engage with our senses, organized by Garden Committee & Moksha, (the music club of Bhaskaracharya College of Applied Sciences) on February 5, 2022.

Successfully completed the two day workshop on “Government e- Marketplace (GeM)” organized by Central Purchase Committee, Bhaskaracharya College of Applied Sciences from 27 – 28 January, 2022.

Attended Workshop on “Student Satisfaction Survey” organized by Internal Quality Assurance Cell, Bhaskaracharya College of Applied Sciences on November 12, 2021.

Attended Online Workshop on “Digital Interventions in Public Health” organized by Automation & Digitization Committee, Bhaskaracharya College of Applied Sciences, University of Delhi on July 23, 2021.

Participated in online workshop on “Online Licensing and Open Educational Resources” organized by automation and digitization committee, Bhaskaracharya College of Applied Sciences held on October 28, 2020.

Participated in a six-day Training program on “Tissue Culture, Transgenic Technology and Biotechnology” at Jaima Hamdard, New Delhi (30th November-05th December, 2009).

Faculty Development Programme

Attended online Faculty Development Programme on “NEP Orientation & Sensitization Program” Organized by Centre for Professional Development in Higher Education (CPDHE) from 5th to 14th March, 2024.

Completed online one week Inter-Disciplinary Faculty Development Programme on Youth and Climate Change” Teaching Learning Centre, Ramanujan College University of Delhi in collaboration with Bhaskaracharya College Of Applied Sciences, University Of Delhi & Catholicate College Postgraduate & Research Department of Botany from 27th October – 3rd November 2021 and obtained Grade A+.

Participated in three days Intercollege Online Faculty Development Programme on “Online Transaction of Courses with Moodle – LMS” organized by automation and digitization committee, Bhaskaracharya College of Applied Sciences under the aegis of IQAC, held during May 8-10, 2020.

Resource Person

Chaired a session in the international conference on “Emerging Trends in Plant Science Research” held on March 6-7, 2023 at Catholicate College, Pathanamthitta, Kerala.

Delivered a talk in the Popular Science Lecture on “Recent Trends in Biological Research” held at Department of Botany, Catholicate College, Pathanamthitta, organized by Post Graduate and Research, Department of Botany, Catholicate College, Pathanamthitta, Kerala on January 4, 2023.

Delivered a talk on “An Interdisciplinary and Environment Friendly Approach to

Understand Living System” in the short term course on “Environment Friendly Teaching Learning Practices” organized by Bhaskaracharya College of Applied Sciences” from June 5 - July 11, 2021.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

Awards and Distinctions

- ✓ Young Scientist Award from the Department of Science and Technology, Government of India for an independent research grant of Rs. 33 Lacs.
- ✓ Received award in poster presentation for the work titled “Functional Characterization of a transregulator (miR165a) from Brassica juncea” in International conference on Biotechnology for Human Welfare. Organized by Kakatiya University, Warangal, February 7-9, 2013 (second best poster award in Molecular biology).
- ✓ Received award in poster presentation for the work titled “Molecular and functional characterization of CUC1 and its regulator miR164 from Brassica species” in International Conference on Plant Biotechnology for Food security. Organized by Society for Plant Biochemistry and Biotechnology, NRCPB and IARI, February 21-24, 2012 (Best Poster Award in Genomics and Bioinformatics)

Memberships

Other Academic Activities

Worked as Resource person in the seminars/summer training programme.
Worked as Convener of Eco Club and member of various committees and clubs during the working tenure at Bhaskaracharya College of Applied Sciences, University of Delhi.
Part of organizing team of short term Sort Term Courses, workshops, conferences and seminars/webinars organized at BCAS.

Cultural/Extracurricular Activities

Received certificate of appreciation from Mahatma Gandhi National Council of Rural Education, Department of Higher Education, Ministry of Education Govt. of India for conducting and completing Green activities in the BCAS campus on the occasion of World Environment Day 2022.

Received certificate of appreciation from Blue Planet-Environmental Solution for serving as Faculty Coordinator, BCAS, University of Delhi during the Blue Nudge-DRIIV-DEEPC Fellowship.

Gunjan

Signature of Faculty Member