

Dr Pritam Kaur

Assistant Professor
Department of Botany,
Gargi College, Sirifort Road
University of Delhi,
New Delhi-110049, India
E-mail: Pritam.kaur@gargi.du.ac.in
Mobile: +91 9999413161

Present Position

Assistant Professor (Permanent)| Gargi college| University of Delhi| October 9, 2023 onwards.

Past Experience

Assistant Professor (Adhoc)| Gargi college| University of Delhi| January 2020 – October 2023.

Assistant Professor (Adhoc)| SGTB Khalsa College| University of Delhi| July 2019 – December 2019.

Assistant Professor (Guest)| SGTB Khalsa College| University of Delhi| March 2019 – April 2019.

Assistant Professor (Guest)| Aurobindo College| University of Delhi| From August 2017 – April 2019.

Academic Qualification

Degree	Course/ Title	Institute	Year of Completion
Ph D	Genome-wide discovery and characterization of miRNAs from both tomato (<i>Solanum lycopersicum</i>) roots and root-knot nematode (<i>Meloidogyne incognita</i>) during susceptible and resistant interactions	Department of Botany, University of Delhi	2017
M Sc	Botany	Hansraj College, University of Delhi	2007
B Sc	Botany	Hansraj College, University of Delhi	2005

Area of Interest

Plant molecular biology, genomics, miRNAs, Analytical techniques in Plant Sciences, Plant Pathology.

Awards

M Sc (Previous year)| 79% marks | awarded 1st in Hansraj College

Research Experience

- Project Assistant| Project: Engineering proteins and peptides for new generation therapies (NWP-05) | Institute of Genomics and Integrative Biology (IGIB), Mall Road, Jubilee Hall, Delhi-110007| May 2008 - January 2009

Fellowships & Achievements

- Qualified Joint **CSIR-UGC National Eligibility Test (NET)** for Junior Research Fellowship and eligibility for Lectureship, June - 2008 (Roll No. 310395) in the subject of **Life Sciences**.
- Qualified **Indian Council of Agricultural Research (ICAR)** examination for Senior Research Fellowship/ admission in Ph. D. Program, October 2007 (Roll No. 030233) in the subject of Biochemistry (**Agriculture/ Plant Sciences**).

Research papers and review articles

- Agarwal P, Soni R, **Kaur P**, Madan A, Mishra R, Pandey J, Singh S, Singh G. 2022. Cyanobacteria as a Promising Alternative for Sustainable Environment: Synthesis of Biofuel and Biodegradable Plastics. *Frontiers in Microbiology*. DOI:10.3389/fmicb.2022.939347.
- Kathpalia R, Kaur I, **Kaur P**. 2022. Hydroponics – Changing Plantation Zones. *International Journal of Multidisciplinary Educational Research*. DOI: <http://ijmer.in.doi./2022/11.06.65>
- **Kaur P**, Shukla N, Joshi G, VijayaKumar C, Jagannath A, Agarwal M, Goel S, Kumar A. 2017. Genome-wide identification and characterization of miRNAome from tomato (*Solanum lycopersicum*) roots and root-knot nematode (*Meloidogyne incognita*) during susceptible interaction. *PLoS One*. Doi: 10.1371/journal.pone.0175178.
- Shukla N, Yadav R, **Kaur P**, Rasmussen S, Goel S, Agarwal M, Jagannath A, Gupta R, Kumar A. 2017. Transcriptome analysis of root-knot nematode (*Meloidogyne incognita*) infected tomato (*Solanum lycopersicum*) roots reveals complex gene expression profiles and metabolic networks of both plants and nematode during susceptible and resistance response. *Mol. Plant Pathol*. Doi: 10.1111/mpp.12547.
- Shukla N, **Kaur P**, Kumar A. 2016. Molecular aspects of plant-nematode interactions. *Ind. J. Plant Physiol*. 21(4):477-488.

Book chapters

- Kaur P, Agarwal P, Zabin D, Islam F, Das A, Singh G. 2022. Cyanobacteria as a Promising Bioresource for Applications in Sustainable Agriculture, Medicine, and Green Nanotechnology. Nova Science Publishers. ISBN 9798886972061

- Kaur P, Patial V, Kumar A. 2010. Biotechnological Approaches for producing nematode resistant crop plants. Biotechnology for sustainable development: Achievements and Challenges. Mc Graw Hill Education. ISBN-13: 978-0-07-070832-7

Poster presentations

- **Kaur P**, Vijay C, Joshi G, Heisnam D, Katiyar-Agarwal S, Agarwal M, Jagannath A, Goel S, Kumar A. 2015. Identification and characterization of miRNAome of tomato roots infected with root-knot nematode (*Meloidogyne incognita*). Abstract: pp.73. **International Symposium on Plant Signaling and Behavior**, March 7-10, 2014, Department of Botany, University of Delhi, Delhi, India.
- Shukla N, Chauhan R, **Kaur P**, Joshi G, Katiyar-Agarwal S, Agarwal M, Jagannath A, Goel S, Shankar R and Kumar A. 2014. Transcriptome profiling of roots of susceptible and resistant tomato cultivars at various stages of infection with root knot nematode (*Meloidogyne incognita*). Abstract: pp.82. **International Symposium on Plant Signaling and Behavior**, March 7-10, 2014, Department of Botany, University of Delhi, Delhi, India.

Participation in Conferences & Seminars

- Participation in 7th Annual Convention of ABAP & International Conference on Plant Biotechnology, Molecular Medicine & Human Health (Oct. 18-20, 2013) at Department of Genetics, University of Delhi, South Campus, New Delhi - 110021.
- Participation in National Seminar on Relevance of Botany in the conservation and improvement of plants (February 8-9, 2006) organized by Delhi University Botanical Society at Department of Botany, University of Delhi, Delhi.
- Participation in National Seminar on Current Trends in Plant Sciences (February 15-16, 2007) organized by Delhi University Botanical Society at Department of Botany, University of Delhi, Delhi.

Workshop/Training Program Attended

Workshop on E-content Development and Online Pedagogy on the theme “ICT Tools for Online Teaching” held from May 23-29, 2020 organized by Centre for Professional Development in Higher Education (CPDHE).

Events organized

- Co-coordinator cum resource person of an intercollege add on course entitled “Eco-Friendly Agriculture” organized by Department of Botany, Gargi College, University of Delhi for the session 2023-2024.
- Co-organizer of Training Series on “Bio-composting Methods”, organized by Department of Botany, Gargi College, University of Delhi on June 5, 2023.
- Co-coordinator of Outreach program, Health and Wellbeing through community gardening, पेड़ लगाओ, जीवन बचाओ, to be organized under IQAC, Gargi College, University of Delhi for 2023.
- Co-coordinator of digitalization of museum specimens project, initiated by Department of Botany, Gargi College, University of Delhi in 2022.

- Co-organizer cum resource person of an Inter-college add on course entitled “Advances in Plant Sciences” organized by Department of Botany, Gargi College, University of Delhi for the session 2022-2023.
- Co-coordinator cum resource person of an add on course entitled “Eco-Friendly Agriculture” organized by Department of Botany, Gargi College, University of Delhi for the session 2021-2022.

Administrative responsibilities

- Member of Gargi College Students’ Welfare Fund Society from 2022 till date.
- Member of Gargi College Eco-Club Society (AVNI) from 2022 till date.
- Member of NIRF from 2023 onwards.
- Member of Admission Committee - 2020, 2021, 2023.
- Member of Gargi College Botanical Society- TARU for the session 2021-23.
- Assistance in Compilation of data for NAAC (Department of Botany) from 2020-2023.