




INSTITUTE OF HOME ECONOMICS
UNIVERSITY OF DELHI



Name	Dr. Bhawana	Photograph
Designation	Assistant Professor	
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Google Scholar	https://scholar.google.com/citations?user=uFea9Q0AAAAJ&hl=en&authuser=1	
Educational Qualifications:		
<ul style="list-style-type: none">• Ph.D. Molecular Biology, M.T.S.U, Tennessee, USA, 2014• M.S. Biotechnology, M.T.S.U., Tennessee, USA, 2009• B.Tech Biotechnology, A.K.T.U., Lucknow, India, 2006		
Teaching Experience: 8+ years		
<ul style="list-style-type: none">• As an Assistant Professor at Department of Botany, Institute of Home Economics, University of Delhi (2023-Present)• Assistant Professor (Adhoc) at Department of Biochemistry, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi (2017-2023)		
Subjects/Papers Taught:		
<ul style="list-style-type: none">• Plant Biochemistry(Theory and Lab)• Metabolism of Amino Acids and Nucleotides (Lab)• Protein and Enzymes(Lab)• Membrane Biology and Bioenergetics(Theory and Lab)• Tools and Techniques of Biochemistry(Theory and Lab)• Enzymes (Theory and Lab)• Environmental Studies (Theory and Lab)• Biochemistry of Cell (Theory and Lab)• Cell Biology (Lab)• Bacteriology (Lab)• Advanced Methodology (Theory and Lab)• Hydroponics and Aeroponic Farming (Theory and Lab)		

Awards received:

- Received student travel awards from Developmental and Structural section for presenting research work at International conference 'Botany 2013', New Orleans, Louisiana, USA. http://botany.org/awards_grants/detail/zdssta.php.

Research Interest/Specialization: Plant Tissue Culture, Plant Ultra-structural Anatomy, Enzymes

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Research papers

- Meghna Birla , Chanchal Choudhary , Garima Singh , Salvi Gupta , **Bhawana*** , and Pratyusha Vavilala The Advent of Nutrigenomics: A Narrative Review with an Emphasis on Psychological Disorders. Preventive Nutrition and Food Sciences 2022; 27(2): 150-164
- Payal Mago, Smita Sundaram, Nupur Gosain, **Bhawana**, Subhash Manda, Rajdeep Singh, Tarun Kumar. Sustainable Environmental and Cultural Practices of Majuli, India: A Case Study. Proceedings of the International Conference on Innovative Computing & Communication (ICICC). SSRN 2022.
- Khushi Bruta, Vanshika, Kishnoor Bhasin and **Bhawana***. The role of serotonin and diet in the prevalence of irritable bowel syndrome: a systematic review. Translational Medicine Communications 2021, Volume 6, Issue 1. <https://link.springer.com/arScl/10.1186/s41231-020-00081-y>
- **Bhawana**, Joyce L. Miller, and A. Bruce Cahoon. 3-D Plant Cell Architecture of Arabidopsis thaliana (Brassicaceae) using Focused Ion Beam-Scanning Electron Microscopy. Applications in Plant Sciences 2014 2(6): 1300090 <http://www.bioone.org/doi/abs/10.3732/apps.1300090>
- **Bhawana**, Jeannie M. Stubblefield, Anthony L. Newsome, A. Bruce Cahoon. Surface decontamination of plant tissue explants with chlorine dioxide gas. In Vitro Cellular & Developmental Biology – Plant 2014 Volume 51; Issue 2; 214-219.
- **Book Chapters**
- **Bhawana** and V.A. Pratyusha. (2024) Deregulated Oncogenic Signaling Pathway(s) and Alternative Splicing. In Alternative Splicing And Cancer (Vol. 1, pp 80-92). CRC Press. Taylor and Francis Group.
- Mani Arora, **Bhawana**, Mandeep. Bioactive Compounds from Algae: A Way Towards 'Green Growth.' (2023) In The Wellness Molecules: Bioactive Compounds and their Health Benefits. (Vol. 1, pp- 122). SAAR Publications (Reg.)

Any Other

- **Refresher Course - 2025** Successfully completed Two Week Interdisciplinary Refresher Course (Online) on “Basics of Research Methodology” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi from 8th – 22nd March, 2025
- **Workshop and Hands-on training - 2024** Workshop and Hands-on training on “Bio- Entrepreneurship on Hydroponics” organised by Delhi University Botanical Society and Institute of Horticulture Technology, Noida (UP), India 4-5th July 2024.
- **Orientation Program - 2023** NEP 2020 Orientation and Sensitization programme under MMTTP of UGC organised by UGC-MMTTC National Institute of Education Planning and Administration, New Delhi. 22nd-31st July 2023.
- **Faculty Orientation Program - 2023** Four Week Faculty Induction Program by Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching from 22nd July -20th August 2023.
- **Faculty Development Program- 2023** One week National Faculty Development Program on Hydroponics and Aeroponics Farming jointly organized by DU, CCCSHAU, PMMMNMTT 4th-10th Sep 2023.
- **Faculty Development Program - 2023** Successfully completed One-Week Online Faculty Development Program on “Academic Research Writing” organised by Teaching Learning Centre, Ramanujan College, in collaboration with Institute of Home Economics, University of Delhi under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education from 8-14th July 2023.
- **National Conference & Expo- 2022** Presented a poster and won first prize with my team of students on “Beta galactosidase from various plant source: a remedy for lactose Intolerance” at National Conference & expo on the role of women in science and technology for sustainable development of Atmanirbhar Bharat on 24-26th November 2022, Convention Centre , JNU, Delhi.
- **International conference 2022** Oral presentation on “Plants as bio-mitigators Scriptures to Science” at Sumangalam Panchmahabhoot International conference Series on VAYU: The Vital Source of Life on 2-4th December 2022 at Shiksha " O" Anusandhan University Bhubaneswar, Orissa.
- **Faculty Development Program - 2022** Successfully completed One-Week Online National Faculty Development Program “Basic IT tools, Advanced Spreadsheet Tools and Statistical Software Package with SPSS” jointly organised by University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education from 27th Oct - 3rd November 2022.
- **National Seminar: Vishwa Guru Bharat -2022** Participated and presented a poster titled “Mother Nature has a cure- need to explore traditional medicines” during the NaSon Seminar organised by SRCASW, University of Delhi, 23-24th March 2022.
- **Faculty Development Program-2020** Successfully completed two weeks faculty development program on,” Managing Online Classes and Co-creating MOOCS 3.0” from July 25th - August 10, 2020
- **International Conference 2020** Participated in International Conference on Frontiers in Biochemistry & Biotechnology: Strategies to Combat Human Diseases (IC 2020) organised by Department of Biochemistry of Shivaji College and South Campus, University of Delhi, 12th – 13th February 2020. My team presented a poster on Comparative study on phytochemical analysis and antioxidant activity of Mung Bean (*Vigna radiata*) and Black gram (*Vigna mungo*) 0 – 6 days old sprouts.
- **Faculty Development Program -2018** Successfully completed FDP on ‘Biochemical Techniques’ at Daulat Ram College, University of Delhi from 10th to 16th July 2018
- **Student Workshop -2018** Coordinated a workshop on “Practical Applications of Biomolecules” from 15-16th Oct, 2018 at Department of Biochemistry, SRCASW, India, for 25 school students and gave hands-on training on various advanced techniques to generate interest in science research.