




ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

(Please Fill the form and Email it to website@zh.du.ac.in)

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| Title | First Name | Last Name | Photograph |
| Designation | Dr. TABASSUM JEHAN | |  |
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| | Residence | | |
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| Web Page | | | |
| Educational Qualification | | | |
| Degree | Institution | Year | |
| Ph.D | University of Delhi | 2009 | |
| M.Phil | University of Delhi | 2003 | |
| M.Sc. Botany | University of Delhi | 2002 | |
| B.Sc. Botany | University of Delhi | 2000 | |
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| Career Profile | | | |
| Currently working as Assistant Professor, Department of Botany, Zakir Husain Delhi College (University of Delhi) since 2009 | | | |
| Administrative Assignments | | | |
| <ul style="list-style-type: none">❖ Coordinator for implementing gender champions in educational institutions at Zakir Husain Delhi College.❖ Member, Garden and Greening Committee (2010-2023), Zakir Husain Delhi College❖ Member, IQAC (Internal Quality Assurance Cell) 2021-22, Zakir Husain Delhi College | | | |



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| <ul style="list-style-type: none"> ❖ Teacher Editor, Science magazine ‘Spectrum’ 2016-2023, Zakir Husain Delhi College ❖ Member, Proctorial Board (2016-2018), Zakir Husain Delhi College ❖ Member, Staff Requirement Committee (2018-2022), Zakir Husain Delhi College ❖ Member, Girls Association (2018-2022), Zakir Husain Delhi College ❖ Member, Convocation Committee (2010-2020), Zakir Husain Delhi College ❖ President, Botanical Society (2014-2015) Zakir Husain Delhi College ❖ President, Life Science Society (2017-2019) Zakir Husain Delhi College |
| Areas of Interest / Specialization |
| Molecular Systematics |
| Subjects Taught |
| <ul style="list-style-type: none"> ❖ Ecology and Environment ❖ Molecular Biology ❖ Cell biology ❖ Plant metabolism and physiology ❖ Genetics and Genomics |
| Research Guidance |
| |
| Publications Profile |
| <p>RESEARCH ARTICLES</p> <ul style="list-style-type: none"> ❖ Ruchi Vir, Tabassum Jehan, K.V. Bhat, Suman Lakhanpal (2023) Assessment of genetic diversity among species mungo-radiata group of subgenus <i>Ceratotropis</i> of genus <i>Vigna</i> Savi. using amplified fragment length polymorphism (AFLP). <i>Vegetos</i> (2023). https://doi.org/10.1007/s42535-023-00683-5 ❖ Ruchi Vir, Tabassum Jehan, K.V. Bhat, Suman Lakhanpal (2022) Molecular characterization and phylogenetic relationships in Asiatic <i>Vigna</i> using ITS and cpDNA loci <i>Vegetos</i> https://doi.org/10.1007/s42535-022-00478-0 ❖ Ruchi Vir, Tabassum Jehan, K.V. Bhat, Suman Lakhanpal (2022) Phylogenetic analysis of selected Asiatic <i>Vigna</i> species based on PCR–RFLP of three non-coding cpDNA Loci. <i>Vegetos</i> https://doi.org/10.1007/s42535-022-00493-1 |

- ❖ **Tabassum Jehan**, Amit Vashishtha, SR Yadav, Suman Lakhanpaul (2013) Genetic diversity and genetic relationships in Hyacinthaceae in India using RAPD and SRAP. *Physiology and Molecular Biology of Plants* 20: 103-114 ISSN: 0971-5894 (print version) ISSN: 0974-0430 (electronic version)
- ❖ Amit Vashishtha, **Tabassum Jehan**, KK Sharma, Suman Lakhanpaul (2013) Molecular Characterization and Genetic Diversity of *Schleichera oleosa* (Lour.) Oken: Major Host Tree for Lac Cultivation. *National Academy Science Letters* 36: 429-435. ISSN: 0250-541X (print version), ISSN: 2250-1754 (electronic version)
- ❖ Amit Vashishtha, **Tabassum Jehan**, Suman Lakhanpaul. (2013) Genetic diversity and population structure of *Butea monosperma* (Lam.) Taub.- a potential medicinal legume tree. *Physiology and Molecular Biology of Plants* 19: 389-397. (Impact factor: 0.55) ISSN: 0971-5894 (print version) ISSN: 0974-0430 (electronic version)
- ❖ Ruchi Vir, **Tabassum Jehan**, K. V. Bhat, S. Lakhanpaul (2010) Genetic characterization and species relationships among selected Asiatic *Vigna* Savi. *Genetic Resources and Crop Evolution* 57(7):1091-1107. ISSN: 0925-9864 (print version) ISSN: 1573-5109 (electronic version).
- ❖ **Tabassum Jehan**, Suman Lakhanpaul (2006) Single nucleotide polymorphism (SNP)– Methods and applications in plant genetics: A review. *Indian Journal of Biotechnology* 5: 235-259. ISSN: 0975-0967 (Online); 0972-5849 (Print)

EDITED BOOKS AND CHAPTERS

- ❖ Monowar Alam Khalid, Dinesh Kumar Srivastava, Vinod Praveen Sharma, **Tabassum Jehan** (2022) Environment and Biodiversity Conservation. Gutenberg Publications, New Delhi; ISBN: 978-93-93937-08-7
- ❖ Savindra Kumar, Mrinal Bhargava, Ratnum K Wattal, **Tabassum Jehan** (2017) Scope of Phytochemically Unexplored Medicinal Plants. Enriched Publications. ISBN: 978-1-63535-013-5
- ❖ Mrinal Bhargava, Ratnum K Wattal, **Tabassum Jehan**, T, Savindra Kumar, Sarita Kumari (2017) Phytochemically Unexplored Medicinal Plants: An Introduction. *In: Scope of Phytochemically Unexplored Medicinal Plants*. Enriched Publications. pp 1-4. ISBN: 978-1-63535-013-5
- ❖ **Tabassum Jehan** & Devayani Muley (2016) Mycorrhiza. *In: Reeta Khosla (ed) Biofertilizers*. KoJo Publishers
- ❖ **Tabassum Jehan**, Babeeta Kaula, Aparajita Mohanty, Nidhi Verma (2012) Assessment of genetic resources of Faba beans (*Vicia faba* L.). *In: A.K. Singh and*

PAPERS PRESENTED IN SEMINAR/CONFERENCES

- ❖ Jehan, T., Lakhanpaul, S. and Yadav, S.R. (2017) Qualitative and quantitative estimation of bufadienolide, a cardiac glycoside, from members of family Hyacinthaceae (Poster presentation) at 104th Indian Science Congress, 3 – 7 January, 2017 at S.V. University, Tirupati
- ❖ Jehan T, Siddiqui Z H, Jehan N (2014) Bufadienolides: A potent Cardioglycoside: Plant Biotechnology: Challenges and Opportunities in 21st Century, Jamia Hamdard University, Delhi
- ❖ Jehan, T., Lakhanpaul, S. and Yadav, S.R. (2006) A reinvestigation of taxonomy of tribe Scillae in India using RAPD markers: In XVI Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Present Trends and Future Prospects of Angiosperm Taxonomy, Pune, India.
 - ❖ Jehan, T. and Yadav, S.R. (2005) RAPD studies in Genus *Drimia* in India: In XV Annual Conference of Indian Association for Angiosperm Taxonomy, Nagpur, India. pp. 169.

Conference Organization/ Presentations (in the last five years)

- ❖ Tripathi H, Sehrawat S, Gautam G, Bhattacharyya S, Jehan T and Vir R (2024) Plant miRNA network in Abiotic stress pathways: meta -analysis of sRNA data associated with drought, heat and salt stress responses *Arabidopsis thaliana* at InSyB 2024, 8th International Symposium on bioinformatics: From Codes to cells Advances in Bioinformatics (2024) organized by Sri Venketeshwara College, University of Delhi; APBioNet at Department of Physics, South Campus, University of Delhi

Conferences/Workshops /Seminars organized

- A Hands-on-Training on Aeroponics, Hydroponics, Landscaping and Vertical Gardening on November 8 – 9, 2004 at Zakir Husain Delhi College (Coordinator)

- Planetary exploration by ISRO -Talk by ISRO women scientist under Lecture series on Role of Women Scientists: Pillars of Viksit Bharat organized by Botanical Society, Zakir Husain Delhi College on October 26, 2024 (Coordinator)
- Ten Days NEP Orientation and Sensitization Program under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by UGC-MMTTC (GAD-MMTTC), Sri Guru Tegh Bahadur Khalsa College, University of Delhi on September 3 -13, 2024 (Member Organizing Committee)
- One month National Online Faculty Induction program 'Guru Dakshata' under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by UGC-MMTTC (GAD-MMTTC), Sri Guru Tegh Bahadur Khalsa College, University of Delhi in collaboration with Kamla Nehru College, University of Delhi on May 13 – June 8, 2024 (Member Organizing Committee and Resource Person)
- International Conference cum Workshop on Making Sense of Omics: Proteomics, Transcriptomics, and Molecular Drug Design (Hybrid Mode) on April 23-24, 2024 at Zakir Husain Delhi College (Coordinator)
- International conference cum workshop on proteomics, transcriptomics and molecular drug design: An integrated omics approach on May 25-27, 2022 at Zakir Husain Delhi College in collaboration with Plant Molecular Genetics Lab, Department of Botany, University of Delhi (online), Delhi (Convener)
- Digital Skill Workshop for lab staff on February 15-17, 2022 at Zakir Husain Delhi College, Delhi (Member-Organizing Committee)
- Refresher course on Lab Techniques for Lab Staff on February 7-11, 2022 at Zakir Husain Delhi College, Delhi (Member- Organizing Committee and Resource person)
- National workshop on Statistical Analysis of Biological Data on January 17-21, 2022 at Zakir Husain Delhi College, Delhi (Organizing Secretary)
- National workshop on Bioinformatics: Resources, Tools and its applications on July 19-27, 2021 for undergraduate students at Zakir Husain Delhi College, Delhi (Convener)
- National workshop on Reporting Biodiversity: Issues, Challenges and Opportunities on 31 October, 2018 at Yamuna Biodiversity Park organized by Indian Institute of Mass Communication (IIMC) and National Biodiversity Authority (NBA), Delhi (Resource person)
- Workshop on Plant Tissue Culture from 8 -9 March, 2019 at Zakir Husain Delhi College, University of Delhi, Delhi (Co-convener)
- Workshop on Analytical Instrumentation Techniques from 6 – 7 October, 2018 at Zakir Husain Delhi College, University of Delhi, Delhi (Member- Organizing Committee)
- National Conference on Challenges and Strategies to Improve crop productivity in Changing Environment: An Integrated Approach on 12 January, 2018 at at Zakir Husain Delhi College, University of Delhi, Delhi (Member- Organizing Committee)

- **National Conference on Genetics – Environment Interface : Science and Spirituality on 25 January, 2018 at Zakir Husain Delhi College, University of Delhi, Delhi (Member- Organizing Committee)**
- **National Workshop on Biostatistics from 9 -10 March, 2017 at Zakir Husain Delhi College, University of Delhi (Organizing Secretary)**

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Association With Professional Bodies

Other Activities

- ❖ Member of Committee constituted to formulate guidelines for the conduct of practicals and to discuss modalities for the practical examination under NEP by Department of Botany, University of Delhi (December 2022)
- ❖ Course content preparation of Advanced tools and analytical techniques in plant biology (DSC paper) Basic Laboratory and Field Skills in Plant Biology (DSC paper) Basic Laboratory and Field Skills in Plant Biology (DSC paper) for B.Sc. Botany (Hons.) and B.Sc. Life Science under NEP by Department of Botany, University of Delhi (June 2022)
- ❖ Designed and Written course on Bamboo Cultivation (Theory and Practical) for Vocational Education Department, National Institute of Open Schooling (NIOS) in 2019
- ❖ Given a program as an expert on "अतीत की कहानी, पौधों की जुबानी" for DD Science organized by Vigyan Prasar, Department of Science and Technology, Govt. Of India (October 2019)
- ❖ Given a program as an expert on “ न4िU ि yTन स,न5RT र्ि ” for DD Science organized by Vigyan Prasar, Department of Science and Technology, Govt. Of India (May 2019)