

CURRICULUM VITAE



Name: DR. TANVIR-UL-HASSAN DAR

Present occupation

Assistant Professor (Coordinator)
Department of Biotechnology
Baba Ghulam Shah Badshah University
Rajouri-185 234, J&K, India

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ACADEMIC RECORD

Educational qualifications: M. Sc. (Biotechnology), M. Phil., Ph. D.

- Ph. D. (University of Delhi, 2011), title of thesis ‘Molecular and Cytological Analysis of Genomic Changes in Neoautopolyploid *Phlox drummondii* Hook.’
- M. Phil. (University of Delhi, 2006), title of dissertation ‘Associated Rapid DNA Sequence Level Changes in Synthetic Autotetraploid *Phlox drummondii* Hook.’.
- M. Sc. (University of Kashmir, 2003); subject Biotechnology.
- B. Sc. (University of Kashmir, 2000); through S. P. College, Srinagar, J&K.

POSITION AND EMPLOYMENT

S. No.	Institution place	Position	Date (From)	Date (To)
1.	Department of Biotechnology, BGSB University, Rajouri, J & K, India	Coordinator	March, 2021	Till date
2.	Department of Biotechnology, BGSB University, Rajouri, J & K, India	Assistant Professor	August, 2014	Till date
3.	Department of Bioresources, University of Kashmir, J & K, India.	Assistant Professor (Contractual)	May , 2013	August, 2014
4.	National Institute Of Plant Genome Research, New Delhi.	Postdoctoral Fellow	Feb, 2012	Feb, 2013
5.	Amity University, Noida, UP.	Postdoctoral Fellow	June, 2011	Dec, 2011
6.	Department of Botany, University of Delhi.	Senior Research Fellow	October, 2008	Feb, 2011

ADMINISTRATIVE RESPONSIBILITIES

S. No.	Nature of activity	Period	
		From	To
1.	Coordinator, Department of Biotechnology	2018	Till date
2.	Coordinator, DBT supported PG Teaching Programme	2018	Till date
3.	Member of Internal Quality Assurance Cell	2021	Till date
4.	Member of NAAC Steering Committee	2018	Till date
5.	Member of PG Admission Committee Department of Biotechnology	2015	Till date
6.	Member of Departmental Research committee Department of Biotechnology	2016	Till date
7.	Member of Board of studies, School of Biosciences and Biotechnology	2016	Till date
8.	Member of opening and scrutinizing sealed proposals for supply of Laboratory consumables, BGSB University	2022	Till date

9.	Member of Training and Placement Cell Committee, BGSB University	2024	Till date
10	Member of Committee looking issues of Research Scholars	2024	Till date
11.	Member of “Design your Degree” Programme (NEP-2020)	2024	2024
12.	Member of Boarding and Lodging Committee for Special Convocation 2023	2023	2023
13.	Member of Departmental Purchase Committee	2019	2021
14.	Member of Board of Postgraduate studies, Department of Botany, University of Kashmir	2021	2021
15.	Member of Neutral Technical Committee, University of Kashmir	2021	2021
16.	Member of M.Phil committee , Department of Biotechnology	2015	2019
17.	Consulting Editor of the University Magazine Committee	2016	2017

FELLOWSHIPS/AWARDS

- Postdoctoral fellowship offer from University of Kwazulu Natal Pietermaritzburg, South Africa in 2013.
- Senior Research Fellowship by the Council of Scientific and Industrial Research, New Delhi, w. e. f. 2008-2011.
- Coordinator of Microbiologists Society, India for BGSB University from 15th June 2020 to 14th June 2021.

TECHNICAL EXPERTISE

1. Microbiome analysis
2. Population Genetics
3. Protein- protein interaction by using Yeast two hybrid technique.
4. RT PCR and qRT PCR.
5. Experience in *Arabidopsis* growth.
6. Analysis of T-DNA insertion lines.
7. Protein extraction and *in vitro* expression in bacterial and yeast systems.
8. Induction of polyploidy using different methods.
9. Cytological analysis of diploids and polyploids.
10. Molecular cytogenetic techniques - FISH and GISH.
11. Utilization of different molecular markers (RAPD, ISSR, AFLP, MSAP) to characterize genomic variation.
12. Cloning.
13. Southern and Western blotting

14. RFLP and Dot blot analysis.
15. Comparative study of genomes using molecular and bio-informatics tools.
16. Analysis of genome using DNA- and RNA-based techniques.

RESEARCH EXPERIENCEj

1. Worked as **Postdoctoral fellow Research Associate** from 2012 to 2013 at NIPGR (National Institute of Plant Genome Research), New Delhi.
2. Worked as **Postdoctoral fellow Research Associate** during 2011 in DBT-funded project “Isolation of sex linked genes and gender specific markers in *Hippophae rhamnoides*”.
3. Five years (2006-2011) research experience during Ph. D., on the topic “Molecular and Cytological Analysis of Genomic Changes in Neoautopolyploid *Phlox drummondii* Hook.”
4. Two years (2004-2006) research experience during M. Phil., on the topic “Associated Rapid DNA Sequence Level Changes in Synthetic Autotetraploid *Phlox drummondii* Hook.”
5. Worked as a Research Trainee at CSIR Regional Research Laboratory, Jammu.
6. Successfully completed M. Sc. Dissertation on “*In vitro* Morphogenetic Response of *Portulaca oleracea* L.”, under the guidance of Dr. A. N. Kamili, Centre of Research for Development, University of Kashmir, Srinagar.

PUBLICATIONS

International

1. Tariq L, Mangral ZA, Islam SU, Agrawal R, Khuroo AA, Thakur JK, **Dar TH** (2024). Searching for nature-based solutions: molecular ecology of an endangered Himalayan medicinal herb shows roadmap for conservation and sustainable utilization. *Journal of Nature Conservation*, 79(13):126624. (IF: 2.2)
2. **Dar TH**, Mangral ZA, Islam SU, Tariq L, Dar R, Majeed A, Goel S. (2024). Genetic Variation and Population Structure of *Rhododendron anthopogon* Along an Altitudinal Gradient: A Case Study from Himalaya. *Plant Molecular Biology Reporter*. (IF: 1.6)
3. Yadav P, Oraon PK, Lepcha D, Chandra A, Tandon R, Chettri A, **Dar TH**, Baishya R, Behera MD, Barik SK, Goel S (2024). Development of genome-wide microsatellites from *Primula denticulata* and their utility in different species of genus. *South African Journal of Botany*, 165 (2024) 384 393. (IF: 2.7)

4. Islam SU, Mangral ZA, Tariq L, Bhat BA, Tantray WW, Ahmad R, Khuroo AA, **Dar TH** (2023). Conservation genetics of endangered *Trillium govanianum* Wall. ex D. Don – A pharmaceutically prized medicinal plant from the Himalaya and implications for species recovery. *Gene*, 888. (IF: 2.6)
5. Mangral ZA, Islam SU, Tariq L, Kaur S, Ahmad R, Malik AH, Goel S, Baishya R, Barik SK, **Dar TH** (2023). Altitudinal gradient drives significant changes in soil physico-chemical and eco-physiological properties of *Rhododendron anthopogon*: a case study from Himalaya. *Frontiers in Forests and Global Change*, 6. (IF: 2.7)
6. Shakeel R, **Dar TH** (2023). Intraspecific karyotypic diversity: A case study of *Zea mays* L. in Pir Panjal Himalaya. *Journal of Stored Products Research*, 102:102119. (IF: 2.7)
7. Islam SU, Mangral ZA, Hussain K, Tariq L, Bhat BA, Khuroo AA, **Dar TH** (2023). Unravelling diversity, drivers, and indicators of soil microbiome of *Trillium govanianum*, an endangered plant species of the Himalaya. *Environmental Research*, 227:115819. (IF: 7.7)
8. Hussain K, Ahmad R, Nuñez MA, **Dar TH**, Rashid I, Khuroo AA (2023). Plant invasion shifts soil microbiome and physico-chemical attributes along an elevational gradient in Kashmir Himalaya. *Environmental Science and Pollution Research*, 30(35):84283-84299. (IF: 5.8)
9. Saifi I, Bhat BA, Hamdani SS, Bhat UY, Lobato-Tapia CA, Mir MA, **Dar TH**, Ganie SA (2023). Artificial intelligence and cheminformatics tools: a contribution to the drug development and chemical science. *Journal of Biomolecular Structure and Dynamics*, 11:1-19. (IF: 2.7)
10. Bhat BA, Khamjan NA., Algaissi A, **Dar TH**, Dar SA, Varadharajan V, Qasir NA, Lohani M (2023). Exploration of comprehensive marine natural products database against dengue viral non-structural protein 1 using high-throughput computational studies. *Journal of Biomolecular Structure and Dynamics*. (IF: 2.7)
11. Tariq L, Arafah A, Ali S, Beigh S, Dar MA, Dar AI, Alsaffar RM, Masoodi MH, **Dar TH**, Rehman MU (2023). Nanogel-Based transdermal drug delivery system: A therapeutic strategy with under discussed potential. *Current Topics in Medicinal Chemistry*, 23. (IF: 2.9)
12. Tariq L, Arafah A, Sehar N, Ali A, Khan A, Rasool L, Rashid SM, Ahmad SB, Beigh S, **Dar TH**, Rehman MU (2023). Novel insights on perils and promises of miRNA in understanding colon cancer metastasis and progression. *Medical Oncology*, 40:282. (IF: 2.8)

13. **Dar TH**, Akhter N and Dar SA (2022) Editorial: Epigenomic polymorphisms: The drivers of diversity and heterogeneity. *Frontiers in Genetics*, 13:1008178. doi: 10.3389/fgene.2022.1008178. (IF: 2.8)
14. **Dar TH.**, Tantray WW, Islam SU, Mangral ZA, Khuroo AA, Ahmad R, Tariq L, Bhat BA (2022). Characterizing wild germplasm of neglected and underutilized crops: A case study of pomegranate (*Punica granatum* L.) from remote Pir Panjal Himalaya. *Biochemical Systematics and Ecology* 105, 104524. (IF: 1.4)
15. Bhat BA, Mir WR, Sheikh BA, Rather MA, **Dar TH**, Mir MA (2022). In vitro and in silico evaluation of antimicrobial properties of *Delphinium cashmerianum* L., a medicinal herb growing in Kashmir, India. *Journal of Ethnopharmacology*, 291:115046. (IF: 4.8)
16. Rather ZA, Khuroo AA Hussain K, Dwivedi MD, **Dar TH** (2022). *Ephedra kardangensis*, a New Synonym of *E. gerardiana* (Ephedraceae). *Systematic Botany* 47(4). (IF: 0.9)
17. Rather ZA, Ahmad R, **Dar TH**, Khuroo AA (2022). Ensemble modelling enables identification of suitable sites for habitat restoration of threatened biodiversity under climate change: A case study of Himalayan Trillium. *Ecological Engineering*, 176. (IF: 3.9)
18. Rather ZA, Hussain K, Dwivedi MD, **Dar TH**, Dar AR, Khuroo AA (2022). New species are not always new: a case study of *Ephedra sumlingensis* and *E. khurikensis* (Ephedraceae). *Plant Systematics and Evolution*, 308 (4), 1-16. (IF: 1.5)
19. Rather ZA, **Dar TH**, Dar AR, Khuroo AA (2022). Recognition of *Ephedra yangthangensis* as a new synonym of *E. intermedia* (Ephedraceae) *Nordic Journal of Botany*, (11) e03550. (IF: 1.0)
20. Bhat BA, L Tariq, S Nissar, ST Islam, SU Islam, Z Mangral, N Ilyas, Sayyed RZ, Muthusamy G, Kim W, **Dar TH** (2022). The role of plant-associated rhizobacteria in plant growth, biocontrol, and abiotic stress management. *Journal of Applied Microbiology*, 133(5):2717-41. (IF: 3.2)
21. Dar FA, Mushtaq NU, Saleem S, Rehman RU, **Dar TH**, Hakeem KR (2022) Role of Epigenetics in Modulating Phenotypic Plasticity against Abiotic Stresses in Plants. *International Journal of Genomics*, (IF: 2.6)
22. Islam SU, Mangral ZA, Tariq Lubna, Bhat BA, Mehraj Haider, Islam ST, **Dar TH** (2022). Role of Ecogenomics in Conservation and Management In: Shabir PA, Yousf PY, Hakeem KR. (eds.), *Plant Ecogenomics*, 175-200. Apple Academic Press. (Book Chapter)

23. Islam ST, Bhat BA, Tahir IT, **Dar TH** (2022). Ecological Genomics in Context with Plant Adaptations and Speciation In: Shabir PA, Yousf PY, Hakeem KR. (eds.), *Plant Ecogenomics*, 157-174. Apple Academic Press. **(Book Chapter)**
24. **Dar TH**, Dar SA, Islam SU, Mangral ZA, Dar R, Singh BP, Verma P, Haque S (2021). Lichens as a repository of bioactive compounds: an open window for green therapy against diverse cancers. *Seminars in Cancer Biology*, 86: 1120-1137 doi.org/10.1016/j.semcancer. **(IF: 12.1)**
25. Islam SU, **Dar TH**, Khuroo AA, Bhat BA, Mangral ZA , Tariq Lubna, Tantray WW, Malik AH (2021). DNA barcoding aids in identification of adulterants of *Trillium govanianum* Wall. ex D. Don. *Journal of Applied Research on Medicinal and Aromatic Plants*, 23: 100305. **(IF: 3.8)**
26. Rai GK, Bhat, BA, Mushtaq M, Tariq L, Rai PK, Basu U, Dar AA, Islam S T, **Dar, TH**, Bhat JA (2021). Insights into decontamination of soils by phytoremediation: A detailed account on heavy metal toxicity and mitigation strategies. *Physiologia Plantraum* , 173: 287–304. **(IF: 5.4)**
27. Rather ZA, Ahmad R, Dar AR, **Dar TH**, Khuroo AA (2021). Predicting shifts in distribution range and niche breadth of plant species in contrasting arid environments under climate change. *Environmental Monitoring and Assessment*, 193(7):427. **(IF: 2.9)**
28. Mushtaq M, Dar AA, Skalicky M, Tyagi A, Bhagat N, Basu U, Bhat BA, Zaid A, Ali S, **Dar TH**, Rai GK, Wani SH, Habib-Ur-Rahman M, Hejnak V, Vachova P, Brestic M, Çiğ A, Çiğ F, Erman M, El Sabagh A (2021). CRISPR-Based Genome Editing Tools: Insights into Technological Breakthroughs and Future Challenges. *Genes*, 24; 12 (6):797. **(IF: 2.8)**
29. Rasheed S, Khuroo AA , Ganie AH. , Ismail Z , Yousuf M , **Dar TH.** , Dar MS (2021). Taxonomic Account of Genus *Alternanthera* (Amaranthaceae) in Jammu and Kashmir. *Nelumbo*, 63: 158-162. **(IF: NA)**
30. Bhat BA, Tariq L, Nissar S, Hamdani SS, Dar MA, Mehraj S, **Dar TH (2021)**. Role of Methyl Jasmonate in Mitigating Plant Stress and Its Interaction with Salicylic Acid. In: T. Aftab, K. R. Hakeem (eds.), *Plant Abiotic Stress Physiology: Molecular Advancements*, 2: 217-239. Apple Academic Press. **(Book Chapter)**
31. Tariq L, Bhat BA, Hamdani SS, Nissar S, Ahmad SB, Dar MA, Mehraj S, **Dar TH** (2021). Plant Growth Regulators and Their Interaction with Abiotic Stress Factors. In: T. Aftab, K. R. Hakeem (eds.), *Plant Abiotic Stress Physiology: Molecular Advancements*, 2: 115-135. Apple Academic Press. **(Book Chapter)**

32. **Dar TH**, Bhat BA, Khuroo AA, Verma S, Islam SU (2020). Genetic diversity and population structure of an invasive plant species differ in two non-native regions with differing climate and invasion success. *Nordic Journal of Botany*, 38: 8. (IF: 1.0)
33. Rather ZA, Khuroo AA, Dar AR, **Dar TH** (2020). Smartphone-integrated field microscopy (SPFM): a low-cost and portable tool to study live biological specimens in the wild. *Plant Biosystems*, 154: 757-765. (IF: 1.0)
34. Bhat BA, Islam ST, Ali A, Sheikh BA, Khan L, Islam SU, **Dar TH** (2020). Role of Micronutrients in Secondary Metabolism of Plants. In: T. Aftab, K. R. Hakeem (eds.), *Plant Micronutrients*. Springer Nature Switzerland AG. DOI: 10.1007/978-3-030-49856-6_13. (Book Chapter)
35. Maji S, Dahiya P, Waseem M, Dwivedi N, Bhat DS, **Dar TH**, Thakur JK. (2019). Interaction map of Arabidopsis Mediator complex expounding its topology. *Nucleic Acids Research*, 47(8), 3904-3920. (IF: 16.6)
36. Rather ZA, Wachkoo AA, Khuroo AA, Dar AR, **Dar TH** (2019). First record of *Aspicera hartigi* (Hymenoptera, Figitidae) from India, with observations on its foraging behaviour on Ephedra plants. *Journal of Asia-Pacific Biodiversity*. (IF: 0.6)
37. **Dar TH**, Shakeel R, Verma S (2018). Comparative Germplasm Characterization of Maize (*Zea mays* L.) in Rajouri Region of Pir Panjal Himalaya J & K (India), based on Morphological and ISSR Markers. *Journal of Crop Science and Biotechnology*, 21: 43-55. (IF: NA)
38. Rasheed S, Khuroo AA, Ganie AH, Mehraj G, **Dar TH**, Dar GH (2018). Correct taxonomic delimitation of *Nasturtium microphyllum* Rechb. From *Nasturtium officinale* R. Br. (Brassicaceae) in Kashmir Himalaya, India. *Journal of Asia-Pacific Biodiversity*, 11: 154-157. (IF: 0.6)
39. Dar TA, Uddin M, Ali A, Khan MMA, **Dar TH** (2017). Understanding the Dynamics of Phosphorus Starvation and Plant Growth. In: M. Naeem et al. (eds.), *Essential Plant Nutrients*, pp. 147-154. Springer international publishing AG. DOI 10.1007/978-3-319-58841-4-7. (Book Chapter)
40. Wani A, Zargar SA, Malik AH, Kashtwari M, Nazir M, Khuroo AA, Ahmad F, **Dar TH** (2017). Assessment of variability in morphological characters of apricot germplasm of Kashmir, India. *Scientia Horticulturae*, 225: 630-637. (IF: 3.9)
41. **Dar TH**, Raina SN and Goel S (2017). Cytogenetic and molecular evidences revealing genomic changes after autopolyploidization: A case study of synthetic autotetraploid *Phlox drummondii* Hook. *Physiology and Molecular Biology of Plants*, 23: 641-650. (IF: 3.4)

42. Das K, Ganie SH, Mangla Y, **Dar TH**, Chaudhary M, Thakur RK, Tandon R, Raina SN, Goel S (2016). ISSR markers for gender identification and genetic diagnosis of *Hippophae rhamnoides* ssp. *turkestanica* growing at high altitudes in Ladakh region (Jammu and Kashmir). *Protoplasma*, 254:1063–1077. (IF: 2.5)
43. Malik B, Peerzada TB, Tahir I, **Dar TH**, Rehman R (2014). Recent Trends and Approaches in Phytoremediation. In: Hakeem K, Sabir M, Ozturk M and Murmet A (Eds.), *Soil Remediation and Plants: Prospects and Challenges*, pp. 131-146. Academic press Elsevier, New York. (Book Chapter)
44. Shrian B, Kiani S, Sehgal D, Hafizi A, **Dar TH**, Chaudhary M and Raina SN (2014). Internal transcribed spacer sequences of nuclear ribosomal DNA resolving complex taxonomic history in the genus *Vicia* L. *Genetic Resources and Crop Evolution*, 61:909-925. (IF: 1.6)
45. **Dar TH**, Raina SN and Goel S (2013). Molecular analysis of genomic changes in synthetic autotetraploids *Phlox drummondii* Hook. *Biological Journal of Linnean Society*, 110: 591-605. (IF: 2.0)
46. **Dar TH**, Agarwal R, Mir BA, Dar GH. (2013). Polyploidy: a tool that plants use to survive climate changes. *Journal of Experimental Biology and Agricultural sciences*, 1 (1): 13-15. (IF: NA)
47. Raina SN, Ahuja PS, Sharma RK, Das SC, Bhardwaj P, Negi R, Sharma V, Singh SS, Sud RK, Kalia RK, Pandey V, Banik J, Razdan V, Sehgal D, **Dar TH**, Kumar A, Bali S, Bhat V, Sharma S, Prasanna BM, Goel S, Negi MS, Vijayan P, Tripathi SB, Bera B, Hazarika M, Mandal AKA, Kumar RR, Vijayan D, Ramkumar S, Chowdhury BR, Mand SS (2012). Genetic structure and diversity of India Hybrid Tea. *Genetic Resources and Crop Evolution*, 59: 1527-1541. (IF: 1.6)
48. Raina SN, Sehgal D, Jain S, Kumar A, **Dar TH**, Bhat V, Pandey V, Vaishnavi S, Bhargav A, Singh V, Rani V, Tandon R, Tiwari M, and Mahmoudou A (2011). Diversity and relationships of multipurpose seabuckthorn (*Hippophae* L.) germplasm from the Indian Himalayas as assessed by AFLP and SAMPL markers. *Genetic Resources and Crop Evolution*, 59:1033–1053. (IF: 1.6)
49. Kumar A, Mir BA, Sehgal D, **Dar TH**, Koul S, Kaul MK, Raina SN, Qazi GN (2011). Utility of a multidisciplinary approach for genome diagnostics of cultivated and wild germplasm resources of medicinal *Withania somnifera*, and the status of new species, *W. ashwagandha*, in the cultivated taxon. *Plant Systematics and Evolution*, 291:141–151. (IF: 1.5)
50. Nagpal R, **Dar TH** and Raina SN (2008). Molecular systematics of *Brassica* and allied genera in subtribes Brassicinae, Raphaninae, Moricandiinae and Cakilinae (Brassicaceae,

tribe Brassiceae): the organization and evolution of ribosomal gene families. *Botanical Journal of Linnaean Society*, 157 (3): 545-557. (IF: 2.3)

51. Bhat UY, Tabasu H, Mir RA, Hamdani, SS, Dar PA, **Dar TH** (2023). Pharmacogenomics in action to develop an understanding of chemotherapeutics for cancers. *Under Review in "Cancer Chemotherapy and Pharmacology"*.
52. Bhat BA, Mir WR, **Dar TH**, Dar MY, Mir MA (2023). Prediction of potential breast cancer-related molecular targets of *Delphinium cashmerianum* Royle: An integrated network pharmacology-based study accompanied with molecular modeling and experimental validation. *Under Review in "Frontiers in Pharmacology"*.
53. Mangra ZA, Bhat BA, Sheikh S, Islam SU, Tariq L, Dar R, Varadharajan V, **Dar TH** (2024). Exploring the therapeutic potential of *Rhododendron anthopogon* D. Don essential oil constituents against lung cancer: A network pharmacology-based analysis with molecular docking and experimental studies. *Under Review in "Computers in Biology and Medicine"*.
54. Mangra ZA, Islam SU, Majeed A, Tariq L, Goel S, Barik SK, **Dar TH** (2024). Comparative transcriptome profiling reveals variation in gene expression patterns of *Rhododendron anthopogon* D. Don along elevation gradient: Implications for survival in future climates. *Under Review in "Gene"*.
55. Tariq L, Mangra ZA, Islam SU, Bhat BA, Dar R, Khuroo AA, **Dar TH** (2024). GC-MS based profiling and biological potential of *Trillium govanianum* Wall. ex D. Don varies along an elevation gradient: a case study from Himalaya. *Under Review in "Natural Products Research"*.
56. Mangra ZA, Islam SU, Majeed A, Tariq L, Bhat BA, Dar R, Banday JA, Goel S, **Dar TH** (2024). Chemical profiling and biological properties of essential oil of *Rhododendron anthopogon* D. Don along an elevation gradient: a case study from Himalaya. *Under Review in "Plant Biology"*.

National

1. Mir BA, Khazir J, Mir NA., **Dar TH**, Koul S (2012). Botanical, Chemical and Pharmacological review of *Withania somnifera* (Indian ginseng) - an ayurvedic plant. *Indian Journal of Drugs and Diseases*, 1 (6): 147-160.
2. **Dar TH**, Kamili AN and Shah AM (2004). *In vitro* regeneration of *Portulaca oleracea* L. through nodal culture. *J. Oriental Science*, 8 (2): 30-34.
3. **Dar TH**, Kamili AN and Shah AM (2004). *In vitro* plantlet formation in *Portulaca oleracea* L. through shoot tip culture. In: A. N. Kamili & A. R. Yousuf (Eds.),

Bioresources: Concerns and Conservation, pp. 295-300. Centre of Research for Development, University of Kashmir, Srinagar.

4. **Dar TH** and Dar GH (2004). Economic potential of *Portulaca oleracea* L. (Portulacaceae): what do we know? In: Ashwani Wanganeo & R. K. Langer (Eds.), *Trends in Biodiversity and Aquaculture*, pp. 83-100. Daya Publishing House, Delhi.

Books

1. **Dar TH** and Rehman RU (2018). *Polyploidy: Recent Trends and Future Perspectives*. Springer India. DOI 10.1007/978-81-322-3772-3.
2. Dar, SA, **Dar TH**, Akhter N, eds. (2022). *Epigenomic Polymorphisms: the Drivers of Diversity and Heterogeneity*. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-83250-644-8.

SEMINARS/CONFERENCES ATTENDED

1. Organized one day event on the Role of Biotechnology in Entrepreneurship under “Biotech startup Expo-2022” in Department of Biotechnology, BGSB University Rajouri on 9th June, 2022.
2. Participated in one day online webinar on "NAAC Accreditation: Process and Strategies for Preparation of AQAR Criterion Wise For HEIs" organised by IQAC, Baba Gulam Shah Badshah University, Rajouri, J&K, India on 8th October, 2021.
3. Organized one day online National webinar on “Molecular approaches for crop improvement” in Department of Biotechnology, BGSB University Rajouri on 23rd August, 2021.
4. Participated in two day online webinar on “ Next generation sequencing for deciphering host-pathogen interactions” organized by Indian Phytopathological Society in collaboration with Bionivid Technologies Pvt. Limited on 4th and 5th February, 2021.
5. Participated in one day online workshop on “Plagiarism –An Opportunity to Learn, Teach and Excel” held at Department of Bioresources, University of Kashmir in Collaboration with Turnitin on 24 June, 2020.
6. Participated in one day online national conference on “Biodiversity Conservation and Sustainable Future” held at Government SAM Degree College Budgam and Government Degree College Pulwama, Jammu & Kashmir on 6th June, 2020.
7. Participated in one day online workshop on “Planning and Organising Research Using Elsevier Tools: Scencedirect, Scopus and Mendely” held at Department of Bioresources, University of Kashmir in Collaboration with Elsevier Organisers on 26 April, 2020.

8. Participated and delivered lecture in National Training Workshop on “Plant Taxonomy: Classical and Modern Methods” held at the Centre for Biodiversity and Taxonomy, Department of Botany, University of Kashmir, Srinagar, from 12th to 14th March, 2020.
9. Participated and delivered lecture in National conference on “Recent Advances in Science, Literature and Humanities” held at Government Degree College Surankote, Rajouri, on 26th March, 2019.
10. Participated and presented poster in the National Seminar on “Ethnobotany and Traditional Knowledge in Biodiversity Conservation” held at Department of Botany, BGSB University, and Rajouri from March 8-9, 2018.
11. Participated and delivered lecture in National Training Workshop on “Plant Taxonomy: Principles and Practices” held at the Centre for Biodiversity and Taxonomy, Department of Botany, University of Kashmir, Srinagar, from 27th to 29th March, 2017.
12. Participated and presented research paper in 12th JK Science Congress 2017 held at University of Jammu from March 2-4, 2017.
13. Participated in one-day awareness/sensitization programme on “Intellectual Property Rights” organized by Micro, Small & Medium Enterprises Development Institute, Ministry of MSME, Govt. of India, in association with Baba Ghulam Shah Badshah University, Rajouri on 6th October 2016.
14. Participated and made presentation in one-day DBT Mentoring/Handholding workshop held on 3rd June, 2016. Organized by Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi.
15. Participated in the three day Science Academies Lecture Workshop on “Himalayan Biodiversity and Bioresources: Mapping, Utilization and Conservation” organized by the Department of Botany, University of Kashmir, Srinagar from May 8-10, 2014.
16. Participated and presented research paper in 9th JK Science Congress 2013 held at University of Kashmir from October 1-3, 2013.
17. Participated in the National Science Day-2013 on 14th of September 2013. Organized by Department of Botany University of Kashmir, Srinagar.
18. International Symposium on Genomics and Biodiversity, February 23-25, 2011. Organized by the Association for the Promotion of DNA Fingerprinting and other DNA Technologies (ADNAT) at the Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India.
19. International Conference on Folk and Herbal Medicine, November 25-27, 2010. Organized by the Department of Botany, University College of Science, MS University, Udaipur, India.
20. Participated and presented research paper in National Conference on Biodiversity: Present Status and Future Challenges, March 26-28, 2009. Organized by the Department of Botany, University of Kashmir, Srinagar, India.
21. National Seminar on Current Trends in Plant Sciences, February 15-16, 2007. Organized by Delhi University Botanical Society, Department of Botany, University of Delhi, India.

22. National Seminar on Genetically Modified Organisms – Biosafety Aspects, March 10-11, 2005. Organized by Delhi University Botanical Society, Department of Botany, and University of Delhi, India.

M.Phil/Ph.D Scholars guided:

S. No.	Student name	Title of Thesis	M.Phil./Ph.D.	Status
1.	Rubiada Shakeel	Comparative Germplasm Characterisation of Maize (<i>Zea mays</i> L.) Based on Morphological, Karyotypic and Molecular Analysis in Rajouri District of Jammu & Kashmir State	M.Phil.	Awarded
2.	Basharat Bhat	Assessment of Genetic Diversity in <i>Parthenium hysterophorus</i> L.: an Invasive Plant species in Jammu & Kashmir	M.Phil.	Awarded
3.	Wajahat Waseem Tantray	Assessment of wild pomegranate (<i>Punica granatum</i>) based on morphological and molecular markers in the Rajouri region of Pir Panjal Himalaya (J & K)	M.Phil.	Awarded
4.	Zubair Ahmad Rather	Systematic studies on genus <i>Ephedra</i> L. in India	Ph.D.	Awarded
5.	Basharat Ahmad Bhat	DNA fingerprinting, phytochemical screening, and cytotoxicity effects of some medicinal plants of Jammu and Kashmir	Ph.D.	Awarded
6.	Shugufta Rasheed	Florestic diversity in the aquatic ecosystems of Kashmir Himalaya	Ph.D.	Awarded
7.	Shahid-Ul-Islam	Molecular Characterization and Conservation of <i>Trillium govianum</i> Wall. ex D. Don in Kashmir Himalaya	Ph.D.	Awarded
8.	Zahid Mangral	Molecular characterization of <i>Rhododendron anthopogon</i> , a climate change-indicator alpine plant species in Kashmir Himalaya	Ph.D.	Submitted

9.	Lubna Tariq	Molecular Assessment Studies on Medicinal Plant, <i>Trillium govanianum</i> in Kashmir Himalaya	Ph.D.	On going
10	Sheikh Tajamul Islam	Response of exogenously applied precursors of flavonoid biosynthetic pathway on plant growth and synthesis of some important phenolics in common buckwheat (<i>Fagopyrum esculentum</i> Moench.)	Ph.D.	On going

RESEARCH PROJECTS COMPLETED:

Sanctioned (As PI)

1. Title: DNA barcoding of some endemic medicinal plants of Kashmir Himalaya and its uses in assessing adulteration in their trade

Funding Agency: JKST & IC (DST).

University: Baba Ghulam Shah Badshah University, Rajouri

Duration: 2 Years

Total Cost: 6.80 Lakhs

2. Title: Conservation Genetics and Species Recovery of Threatened Himalayan Trillium in Hirpora Wildlife Sanctuary, Kashmir Himalaya

Funding Agency: Department of Biotechnology, Govt. of India, New Delhi

University: Baba Ghulam Shah Badshah University, Rajouri

Duration: 3 Years

Total Cost: 44.50 Lakhs

3. Title: A biotechnological approach to elucidate adaptation mechanism, migration pattern and reproductive biology of indicator temperate-alpine plants in Himalayas in response to changing climate

Funding Agency: Department of Biotechnology, Govt. of India, New Delhi

University: Baba Ghulam Shah Badshah University, Rajouri

Duration: 3 Years

Total Cost: 36.024 Lakhs

Sanctioned (As Co-PI)

4. Title: Management of invasive Ox-eye Daisy (*Leucanthemum vulgare*) in protected areas of Kashmir Himalaya

Funding Agency: Department of Biotechnology, Govt. of India, New Delhi

University: Kashmir University, Srinagar

Duration: 3 Years

Total Cost: 46.87 Lakhs

5. Title: Assessment and Characterization of Apricot (*Prunus armeniaca* L.) Germplasm in Kashmir Himalaya

Funding Agency: Department of Biotechnology, Govt. of India, New Delhi

University: Kashmir University, Srinagar

Duration: 3 Years

Total Cost: 62 Lakhs

6. Title: Advanced Taxonomic Research Centre for Alpine Flora and Training Centre in Kashmir Himalaya

Funding Agency: Ministry of Environment and Forests, Govt. of India, New Delhi

University: Kashmir University, Srinagar

Duration: 3 Years

Total Cost: 49 Lakhs

7. Title: Taxonomic characterization and conservation assessment of *Ephedra* in india

Funding Agency: Department of Science and Technology, Govt. of India, New Delhi

University: Kashmir University, Srinagar

Duration: 3 Years

Total Cost: 60 Lakhs

PERSONAL PROFILE

Nationality: Indian

Marital status: Married

Father's name: Prof. G. H. Dar

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