

1. Name and full correspondence address:- **Dr. Shahid Ul Islam**
2. Email(s) and contact number(s):-[princeshahid88@gmail.com](mailto:princeshahid88@gmail.com)
3. Date of Birth:- 16-11-1989
4. Gender (M/F/T):- Male
5. Category Gen/SC/ST/OBC:- GEN
6. Academic Qualification

S.No.	Degree	Year	Subject	University/Institution	% of marks
1.	10th	2005	English, Math, Urdu, Science and Social Science	Govt. Higher Secondary School Pinglena	66.2
2.	12th	2007	English, Physics, Chemistry, Biology and Enviromental science	Saidi Memorial Instt. Pulwama	61.8
3.	B.SC	2011	English , Zoology, Botany, Chemistry	Kashmir University	56.55
4.	M.Sc	2013	Biotechnology	Barkatullah University Bhopal	73.33
5.	Ph.D	2023	Biotechnology	Baba GhulamShah Badshah University, Rajouri	Awarded
6.	CSIR NET	2018	Life Science	AIR-44	

Ph.D thesis title “Molecular Characterization and Conservation of *Trillium govanianum* Wall. Ex D. Don in Kashmir Himalaya, Guide’s Name; Dr Tanvir Ul Hassan Dar Institute/Baba GhulamShah Badshah University Rajouri, Awarded on 19 January 2023.

**7. Work experience (in chronological order).**

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1.	Junior Research Fellow (JRF)	Department of Biotechnology BGSB University, Rajouri, J & K, India	2019	2021	33000+8%HRA
2.	Senior Research Fellow (SRF)	Department of Biotechnology, BGSB University, Rajouri, J & K, India	2021	2022	35000+8%HRA
3.	Assistant Professor contractual	Department of Biotechnology, BGSB University, Rajouri, J & K, India	2023	2024	Consolidated Rs. 30000/-

4.	Project Associate-II	CSIR IIM Srinagar	11 <sup>th</sup> August 2024	17 <sup>th</sup> June 2025	35000+16%HR A
5.	Lecturer	Govt Degree College Shopian	9-september-2025	Till date	Consolidated Rs 28000/-

8. **Professional Recognition/ Award/ Prize/ Certificate, Fellowship received.**

S.No	Name of Award	Awarding Agency	Year
1.	Young Researcher	INSc	2022

9. **Submitted Sequences**

S.No.	Species	GenBank accession number			
		<i>ITS</i>	<i>matK</i>	<i>trnH-psbA</i>	<i>rbclA</i>
1.	<i>Trillium govanianum</i>	MN509019	MN611053	MN611060	MN611070
		MN509020	MN611054	MN611061	MN611071
		MN509021	MN611055	MN611062	MN611072
		MN509022	MN611056	MN611063	MN611073
		MN509023	MN611057	MN611064	MN611074
		MN509024	MN611058	MN611065	MN611075
		MN509025	MT023556	MN611066	MN611076
		MN509026	MN611059	MN611067	MN611077
2.	<i>Paris polyphylla</i>	MN513040	<i>a</i>	MN611068	MN611078
		MN513041	<i>a</i>	MN611069	MN611079
3	<i>Transcriptome data of Rhododendron anthopogon</i>	PRJNA1088916	Total of 50 GB data Accession to cite for these SRA data: PRJNA1088916 Temporary Submission ID: SUB14319248 Release date: 2024-11-01		

10. **Technical Expertise**

1. Microbiome analysis
2. Utilization of different molecular markers to characterize genomic variation.
3. PAGE
4. Comparative study of genomes using molecular and bio-informatics tools.
5. Analysis of genome using DNA- and RNA-based techniques

11. **Publications** (*List of papers published in SCI Journals, in year wise descending order*).

- Mangral ZA, Bhat BA, Sheikh S, **Islam SU**, Lubna T, Dar R, Varadharajan V, Dar TH (2025). 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. *Computers in Biology and Medicine*,187.
- Lubna T, Mangral ZA, **Islam SU**, Bhat BA, Khuroo A.A, Dar TH (2025). Chemodiversity and Biological Properties of Endangered Medicinal Herb Trillium govanianum along Himalayan Elevation Gradient. *Chemistry & Biodiversity*,
- Mangral ZA, **Islam SU**, Majeed A Lubna T, Goel S, Saroj KB, Dar TH (2025). Transcriptomic Insights Into Elevation- Dependent Gene Expression in Rhododendron anthopogon D.Don: Implications for Climate Resilience. *Physiologia Plantarum*.
- Lubna T, Mangral ZA, **Islam SU**, Agrawal R, Khuroo A.A, Majeed A, ThakurJ K, Dar TH (2024).Searching for nature-based solutions: Molecular ecology of an endangered Himalayan medicinal herb shows roadmap for conservation and sustainable utilization. *Journal for Nature Conservation*, 79.
- Dar, T.H., Mangral, Z.A., Islam, S.U. et al (2024). Genetic Variation and Population Structure of Rhododendron anthopogon Along an Altitudinal Gradient: A Case Study from Himalaya. *Plant Molecular Biology*.
- **Islam SU**, Mangral ZA, Lubna T, Bhat BA, Mehraj, Tantray W.W, Ahmad R., Khuroo A.A., Dar T.H.(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*, 147748.
- **Islam SU**, Mangral Z.A , Hussain K, Lubna T, Bhat B.A, Khuroo A.A, Dar T.H. (2023). Unravelling diversity, drivers, and indicators of soil microbiome of Trillium govanianum, an endangered plant species of the Himalaya. *Environmental Research*, 227:115819.
- Mangral Z.A, **Islam SU**, Lubna T, Kaur S, Ahmad R, Malik A.H, Goel S, Baishya R, Barik S K, Dar T.H. 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*, 6:1181299.
- 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.

- Bhat BA, L Tariq, S Nissar, ST Islam, **Islam SU**, 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*.
- 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.
- **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.
- 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: 1-9.
- Shahid ul Islam, Azra N Kamili (2013). Antimicrobial and antioxidant activity of *Nigella sativa* Linn seeds. *Biosciences Biotechnology Research Communication*, 2:190-195.
- Shahid ul Islam, Dr. Smt Rakesh Mehta (2015). Comparative analysis of antibacterial activity of *Nigella sativa* L and *Rumex dentatus* L. *The International Journal Of Engineering And Science*. 4:18-21.

## 12. Books/Reports/Chapters/General articles etc.

- 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.
- 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.

## 13. Saminars/ Conferences/Workshops

- Workshop on “Apiculture as an Entrepreneurship development idea”. Organized by Department of Zoology, BGSB University Rajouri. Sponsored by NMHS-Ministry of Enviroment Forest and Climate changes, New Delhi Govt. of India. 15 April, 2019.
- 3<sup>rd</sup> International conference “Global Initiatives in Agricultural, Forestry and applied sciences (Theme: Food Security, Environmental Safety and Sustainable Development). 17-18 October, 2021.
- National conference on recent developments in Biotechnology and their allied applications. Sponsored by UGC New Delhi, Organised by Department of Biotechnology Saifia College Bhopal. 15<sup>th</sup>-16 March, 2012.

- Seminar on Conservation of Biodiversity and Natural Resources In Madhya Pradesh. Sponsored by UGC New Delhi, Organised by Department of Biotechnology Saifia College Bhopal. 17<sup>th</sup> March, 2012.
- 1<sup>st</sup> Annual Conference of Metabolic syndrome-Prediabetes-Polycystic ovary syndrome (M P PCOS) Society. Sponsored by SKIMS Srinagar. 11<sup>th</sup>-13<sup>th</sup> May, 2017.
- National workshop on Practicing responsible tourism in Himalaya. Sponsored by World Wide Fund for Nature-India and Department of Wildlife Protection, Govt. of India. 29<sup>th</sup> and 30<sup>th</sup> April, 2019.
- National Saminar on “Entomology: Issues and Opportunities”. Organized by Department of Zoology, BGSB University Rajouri. Sponsored by NMHS-Ministry of Environment Forest and Climate changes, New Delhi Govt. of India and Science and Engineering Research Board, New Delhi Govt. of India. 29 and 30<sup>th</sup> July, 2019.
- First one day national conference on “Recent advances in Science, Literature and Humanities”. Organized by Govt. Degree College, Surankote. 26<sup>th</sup> March, 2019.
- National Workshop on “Plant Taxonomy: Classical and Modern Methods”. Organized by Department of Botany, University of Kashmir, sponsored by Ministry of Environment, Forest and Climate change (MoEFCC). 12<sup>th</sup>-14<sup>th</sup> March, 2020.
- National Research Seminar on “Environment Conservation and Management”. Organised by Department of Botany and Biotechnology Govt. M.G.M. P.G College Itarsi. Sponsored by UGC, Central Regional Office Bhopal. 30<sup>th</sup> and 31<sup>st</sup> October, 2012.
- National Saminar on Science for Shaping the Future of India, under the auspices of The Indian Science Congress Association, Kolkata. Organized by The Indian Science Congress Association, Bhopal. 30<sup>th</sup> and 31<sup>st</sup> October, 2012.
- 2<sup>nd</sup> J&K Medial Science Congress 2017. Sponsored by SKIMS Srinagar. 10<sup>th</sup>-13<sup>th</sup> May, 2017.
- National workshop on Practicing responsible tourism in Himalaya. Sponsored by World Wide Fund for Nature-India and Department of Wildlife Protection, Govt. of India. 29<sup>th</sup> and 30<sup>th</sup> April, 2019.
- Workshop on “Intellectual Property Rights”. Organized by Institution Innovatio Council (IIC), Baba Ghulam Shah Badshah University Rajouri. 25<sup>th</sup> January, 2019.
- National Saminar on Ethnobotany and traditional Knowledge in Biodiversity conservation. Organized by Department of Botany, BGSB University, Rajouri. 8<sup>th</sup> and 9<sup>th</sup> March, 2018

#### 14. **Any other Information**

I got my Ph.D in Biotechnology on 19 January 2023 from Department of Biotechnology, Baba Ghulam Shah Badshah University, Rajouri (Jammu & Kashmir). My professional focus centers on conducting cutting-edge research in the fields of population genetics, metagenomics, and transcriptome sequencing, with a specific emphasis on threatened medicinal plants of the Kashmir Himalaya. I have a proven track record of expertise in germplasm characterization through both morphological and molecular markers, as evidenced by my published works (Islam et al., 2021, 2023; Mangral et al., 2023).

Currently, my research endeavors are directed towards the molecular characterization and conservation of *Trillium govanianum*. Additionally, I am engaged in a comparative analysis of *Rhododendron anthropogon* along altitudinal gradients in the Kashmir Himalaya. These projects aim to contribute valuable insights into the genetic diversity, population structure, and adaptive responses of these plant species, particularly in the context of changing climatic conditions. I am committed to advancing our understanding of these critical ecological and conservation challenges through rigorous scientific inquiry.

I look forward to furthering the discourse on the molecular intricacies of plant populations in the unique ecosystem of the Kashmir Himalaya, and I am enthusiastic about the potential implications of this research for biodiversity conservation and sustainable ecosystem management.

#### 15. **Academic Referees**

**Dr. Susheel Verma**

Professor

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