

Dr. MOHD. TAHIR

Ph. D Agriculture (Genetics and Plant Breeding)

Assistant Professor, Agriculture Technology,

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SUMMARY

I am currently working as an **Assistant Professor** in Agriculture Technology at Government Degree College (Boys), Anantnag, J&K, where I am actively engaged in teaching, student mentoring and skill development. I possess a strong foundation in agriculture, with particular expertise in Genetics and Plant Breeding, and I am well trained in modern molecular breeding approaches for crop improvement. In my current role, I am actively involved in undergraduate teaching, where I focus on making concepts clear, practical and application-oriented. I have taken initiative in designing and delivering skill development-based learning, particularly in areas such as mushroom cultivation, where I not only teach theoretical aspects but also conduct hands-on practical demonstrations. These sessions are aimed at enhancing students' employability, entrepreneurial skills and real-world understanding of agricultural technologies. I emphasize experiential learning by integrating practical exposure with classroom teaching, encouraging students to actively participate in demonstrations, field-based activities and problem-solving exercises. My teaching approach focuses on building both conceptual clarity and technical competence, preparing students for academic as well as field-level challenges. Moreover, I am proficient in data analysis, scientific writing and research publication, with articles published in reputed journals such as Crop and Pasture Science, Plant Stress, Genetic Resources and Crop Evolution, 3 Biotech and BMC Genomics. My research experience spans major cereal crops including wheat, rice and maize. I remain highly enthusiastic about adopting innovative teaching methodologies and continuously updating my knowledge with emerging tools and techniques in crop improvement.

SKILLS

- **Agricultural Research & Experimentation:** Expertise in planning and executing experiments under field conditions and controlled environments (polyhouse/glasshouse), including trial design, crop management, and data collection.
- **Plant Breeding & Crop Improvement:** Proficient in handling crossing programs, germplasm evaluation, trait analysis, and interpretation of experimental results independently as well as in collaborative settings.
- **Molecular Biology Techniques:** Skilled in DNA extraction, PCR, agarose gel electrophoresis, PAGE, gel documentation, and data scoring, with practical experience in molecular breeding approaches.
- **Data Analysis & Scientific Writing:** Strong capability in data analysis, interpretation, and research publication, with articles published in reputed journals such as Crop and Pasture Science, Genetic Resources and Crop Evolution, 3 Biotech, and BMC Genomics.
- **Teaching & Skill Development:** Nearly two years of experience in undergraduate teaching, with a focus on experiential and skill-based learning. Actively involved in conducting hands-on training and practical demonstrations in mushroom cultivation, enhancing students' technical and entrepreneurial skills.
- **Communication & Mentorship:** Effective communicator with strong teaching, mentoring, and presentation skills, capable of simplifying complex concepts for diverse student groups.
- **Technical & Analytical Skills:** Excellent analytical thinking, problem-solving ability, and scientific writing skills, with attention to detail in data handling and interpretation.
- **Professional Attributes:** Self-motivated, hardworking, and adaptable, with demonstrated leadership qualities, integrity, and the ability to work both independently and as part of a team.

RESEARCH EXPERIENCE Senior Research Fellow | Dr. A. K. Singh**New Delhi, India | Jun 2023-Jul 2024**

To gain exposure to recent tools and technologies for crop improvement, I joined as a Senior Research Fellow at the prestigious Indian Agricultural Research Institute (IARI), New Delhi on June 6, 2023. There I worked on a rice project entitled “Molecular breeding for improvement of tolerance to biotic and abiotic stresses, yield and quality traits in Rice” under the supervision of Dr. A. K. Singh. Our focus was on pyramiding genes for resistance against bacterial blight, blast, backanae, herbicide tolerance and brown plant hopper in Basmati Rice through Marker Assisted Selection (MAS). I resigned from this position on July 2, 2024.

Project Assistant I | Dr. Mohd. Altaf Wani**Sopore, J&K, India | May 2022-Jun 2023**

During the last year of my PhD, having completed my PhD research work, I had an opportunity to work as Project Assistant-I in a SERB, DST funded project on Maize crop entitled 'Marker assisted introgression of quality enhancing alleles for the development of nutritionally dense maize hybrids for highland temperate ecologies' from May 30, 2022, to June 04, 2023. During this period (1 year and 5 days), we were able to make crosses to reach upto the development of BC1F1 population in maize while introgressions opaque2 gene (for QPM) through MAS into one of the important high yielding maize hybrids of Kashmir.

Education**Ph. D (Genetics and Plant Breeding)**

Faculty of Agriculture, Wadura, SKUAST-K

Thesis Title: “Germplasm Characterization and Introgression of High Grain Protein Gene (*GPC-B1*) into Early Maturing Wheat (*Triticum aestivum* L.) through Marker Assisted Selection”**M. Sc. Agriculture (Genetics and Plant Breeding)**

Faculty of Agriculture, Wadura, SKUAST-K

Thesis Title: “Characterization of Wheat Germplasm and Development of Genetic Resources for Mapping Genes/QTLs for Nutritional Traits in Bread Wheat (*Triticum aestivum* L.)”**Bachelors of Science, Agriculture (Honors)**

Faculty of Agriculture, Wadura, SKUAST-K

Languages**Kashmiri:** First Language**English**

Elementary (A2)

Urdu

Intermediate (B1)

Hindi

Elementary (A2)

ACCOMPLISHMENTS**Best poster presentation** in International Symposium on “**100 Years of Wheat Cytogenetics: Its Impact on Crop Improvement**” held at **CCSU Meerut during November 3-4, 2018.****Best poster presentation** in “International Symposium on Cereals for Food Security and Climate Resilience” held online during January 18-20, 2022, organized by Society for Advancement of Wheat & Barley Research, (**SAWBAR**), Karnal & ICAR -**Indian Institute of Wheat and Barley Research, Karnal –132001 (Haryana).**

Best Oral Presentation in “National Symposium on Renaissance of Hill Agriculture through Advanced Genetics and Crop Breeding Interventions for Attaining Food and Nutrition Security under Climate Change Scenario”, September, 10-12, 2022 at **SKUAST-Kashmir**, Shalimar, Campus, J&K.

PUBLICATIONS

Grain micronutrient and molecular characterization of wheat (*Triticum aestivum* L.) germplasm using genic and random SSR Markers. (2021). Mohd. Tahir, Safoora Shafi, Mohd. Anwar Khan, Farooq Ahmad Sheikh, Mohd. Ashraf Bhat, Parvaze Ahmad Sofi, Satish Kumar, Mohd. Altaf Wani and **Reyazul Rouf Mir***. *Crop and Pasture Science* **73**:93-103. (IF=2.25)

Trait Phenotyping and Characterization of Early Maturing Wheat Lines of Western-Himalayas. (2021). Safoora Shafi, **Mohd Tahir**, Mohd Anwar Khan, Mohd Ashraf Bhat, Uttam Kumar, Sanjay Kumar, **Reyazul Rouf Mir***. *Genetic Resources Crop Evolution*. <https://doi.org/10.1007/s10722-021-01261-x>. (IF=1.88)

Plant microRNAs: biogenesis, gene silencing, web-based analysis tools and their use as molecular markers. (2019). Sandhya Tyagi, Sandeep Sharma, Showkat Ahmad Ganie, **Mohd. Tahir**, **Reyazul Rouf Mir***, Renu Pandey. *3 Biotech* **9**(11): 413. (IF=2.89)

Comprehensive meta-QTL analysis for dissecting the genetic architecture of stripe rust resistance in bread wheat. (2023). Sandeep Kumar, Dinesh Kumar Saini, Farkhandah Jan, Sofora Jan, **Mohd Tahir**, Ivica Djalovic, Dragana Latkovic, Mohd Anwar Khan, Sundeeep Kumar, V. K. Vikas, Upendra Kumar, Sundip Kumar, Narendra Singh Dhaka, Om Parkash Dhankher, Sachin Rustgi and **Reyazul Rouf Mir***. *BMC Genomics* **24**:259. (IF=4.56)

Biochemical Defense Arsenal, Genes/QTLs and Transcripts for Imparting Anthracnose Resistance in Common bean (*Phaseolus vulgaris* L.). Shafi, S., Tahir, M., Bawa, V., Jan, F., Choudhary, N., Khan, M. A., ... & Mir, R. R. (2024). *Plant Stress*, **14**, 100609. (IF=6.9; NAAS=12.9).

Genetic variability for agro-morphological traits in wheat (*Triticum aestivum* L.) under temperate rainfed conditions of Kashmir valley. (2023). **M. Tahir***, Farooq A. Sheikh, M. Najeeb Mughal, Fehim J. Wani, M. Anwar Khan, M. Altaf Wani, Asif B. Shikari, **Reyazul Rouf Mir**. *SKUAST Journal of Research* **25**(1):67-77. *NASS rating: 4.17*

Genetic Studies in Maize (*Zea mays* L.) under Plains of Kashmir Valley. (2023). Rahila Amin, Zahoor A. Dar, Asif B. Shikari, Asma Majid, **Mohd Tahir**, E.O. Ampomah, Saika Nabi, M. Irfan, Showkat A. Waza, M. Altaf Wani. *Environment and Ecology* **41**(1):118—127. *NASS rating: 5.25*

Natural Variation for Seed Physical and Hydration Parameters in Cowpea (*Vigna unguiculata* L.) in Relation to Hard to Cook Trait. (2017). Musharib Gull, Parvaze A. Sofi*, R. R. Mir, Asmat Ara, Munazah Rashid, **M. Tahir**, Safoora Shafi and Irfan A. Rather. *International Journal of Pure and Applied Biosciences* **5**(4):321-330. *NASS rating: 4.74*

Screening for Antixenosis Resistance of Winter Wheat Genotypes to Cereal Leaf Beetles (*Oulema melanopus* L.). (2018). Umer Bin Farook, Zakir H. Khan, Ishtiyaq Ahad, Sheikh Aafreen, Ishfaq Rafieq, **Tahir Yousuf**, Waseem Yousuf, Suraya Jan, Adil Manzoor and Rubaida Wani. *International Journal of Current Microbiology and Applied Sciences* **7**(11):3069-3073. *NASS rating: 5.38*

Early maturing wheat genotypes for better integration in rice– wheat cropping systems in the Kashmir Valley of the Western Himalayas. Mir, R. R., Rathore, M., Aggarwal, N., Jan, F.,

REFERENCES**Dr. Reyazul Rouf Mir**

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Dr. Ranjith Kumar Ellur

Scientist, Div. of Genetics, IARI, New Delhi, India

Email ID: ranjithellur@gmail.com

Phone No.: 8010303649

HOBIES AND INTERESTS

Playing and Watching Cricket

Gardening

Declaration:

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Yours truly,

Mohd. Tahir