



Name: Kumari Shilpa (<https://orcid.org/0009-0003-5317-2738>)

Research Group & Mentor: Plant Molecular Breeding laboratory; Dr Shashi Bhushan Tripathi

Co-Supervisor: Dr. Ganapati Mukri; Division of Genetics, Maize Genetics Unit, ICAR-IARI New Delhi

Research Work/Project(s):

Association mapping for kernel-related traits in tropical field corn (*Zea mays* L.).

Fellowship Holder/Designation: Senior Research Fellow (SRF)

Additional Information:

Research Publications:

Poster and Oral presentation-

1. **1st prize on Poster presentation** for the international conference on “Deciphering the morpho-phenological diversity of a panel of tropical field corn (*Zea mays* L.) inbred lines” authored by “**Shilpa**¹, Ganapati Mukri^{1*}, SB Tripathi², Jayant S Bhat¹, RN Gadag¹, Chandra Prabha¹ and KV Gowthami¹” on Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development (CAABASSD-2024) at Kumaun University, Nainital, Uttarakhand, India.
2. **Won the best prize for Oral presentation** on “Stable genetic resource for kernel-related traits: a potential key to enhance the productivity of field corn” in the National Conference on ‘Maize: A crop for food, feed, nutritional and bioenergy security with environmental sustainability’ held during August 23–25, 2024 at IIMR-Ludhiana, Punjab, India.

Research Publications:

1. Mukri, G., Bhat, J. S., Gadag, R. N., **Shilpa, K.**, Singh, C., Gupta, N. C., & Pal, D. (2024). Constitution of association panel of tropical field corn (*Zea mays* L.) for kernel and cob-related traits. *Genetic Resources and Crop Evolution*, 1-11.
2. Mukri, Ganapati, **Kumari Shilpa**, R. N. Gadag, Jayant S. Bhat, Chandu Singh, Navin C. Gupta, Chandra Prabha, and Sahana Police Patil. "Designed and validated novel allele-specific primer to differentiate Kernel Row Number (KRN) in tropical field corn." *Plos one* 18, no. 4 (2023): e0284277.
3. Ganapati Mukri*, Samriti Sharma, Chandra Prabha, **Shilpa**, Jayant S. Bhat, RN Gadag, and Chandusingh. "Allelic Variation Corresponds to Yield Component Traits Novel Genetic Variation for Maize (*Zea mays* L.) Crop Improvement"

Brief- Shilpa has hands-on experience in field-related activities related to maize crops, from seed preparation and sowing to meticulous data collection at various growth stages using a barcode scanning tab with a field book and proficiency in pollination and harvesting as well as molecular breeding and biotechnology techniques. She has five years of experience with the **Breeding Management System (BMS)** underscores her ability to design trials and nurseries with diverse experimental designs, a valuable asset in maize breeding like **R** as well as **Mr. Bean** and **DARwin, Prism and BioFlow** online available tool for data analysis. Along with these, She is also a volunteer in three different NGOs (Fly Higher World, Ball and Pen, and Privarthan), working for underprivileged children. She likes to go on trekking and play badminton.