ANKUR KUMAR SINGH
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Career Objectives:

I am passionate about crop improvement, product development, and data science. Want to be part of a leading organization in agriculture which provide a good working environment to learn and grow professionally.

Professional /Technical Skills & Knowledge

- Basic knowledge of vegetable crops and market requirements.
- Seedling growing (**Nursery**) and vegetable crops and their agronomic practices (field preparation to harvesting).
- Major **diseases and pests** of the vegetable crops and their management.
- Experimental design (**CRD, RBD, LSD, Augmented**) and field trial layout.
- Knowledge to Identify and address **critical factors** to experiment/trial success.
- Field book and **trait** observations, data recording (quantitative & qualitative)
- Data curation, visualization, and presentation (**Data-driven decision**)
- Knowledge of common breeding methods and different modifications (**fit to purpose**)
- Hybridization techniques and **speed breeding** in rice.
- **Genetic gain** and factors influencing genetic gain.
- **Key performance indicators** to track progress on genetic gain, germplasm development & breeding programme.
- **DH, SSD** & other techniques for seed to market.
- Heterotic **pool** development and advantages
- Basic knowledge of population and marker development techniques
- **Marker-Assisted Selection** (MABB, MAFB, MARS).
- Foreground Selection, Recombinant Selection & Background Selection.
- Working knowledge of **genomics**, predictive breeding, training set development and **Haplotype breeding**
- Ability to work independently as well as **team** to reach the target goals.
- Good at learning new techniques and tools.
- **Easily adapt** to new and diverse locations and environments.

Educational Details:

Degree	Year of Passing	College/Dept. & University	Result (CGPA or %)
Ph.D. Genetics & Plant Breeding	*2020-23*	Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya, UP, India	**8.57/10**
M.Sc. Ag. (Genetics & Plant Breeding)	*2018-20*	Sam Higginbottom University of Agriculture, Technology & Sciences (Formerly Naini Agriculture Institute), Prayagraj, UP, India	**6.89/10**
B.Sc. (Hons.) Agriculture	*2014-18*	Lovely Professional University, Jalandhar, (Punjab), India	**7.59/10**
Intermediate	*2014*	P.D. Inter College, Gaighat, Ballia, (Uttar Pradesh), India	**85.80%**
High School	*2012*	C.B. Inter College, Sahatwar, Ballia, (Uttar Pradesh), India	**86.16%**

Research Experiences:

- I have been working on a Project titled **"Development of superior haplotype-based near-isogenic lines (Haplo-NILs) for enhance thegenetic gain in rice"** at the International Rice Research Institute-South Asia Region Center, Varanasi funded by DBT, Govt. of India for almost one and half year *(16th March 2022 – 26th July 2023)*.
- Generation advancement methods in rice by using a **Speed Breeding Facility.**
- My PhD Research title is "Genetic Architecture of Rice (*Oryza sativa* L.) for Yield and its Component Traits."
- Master's Research title on "Genetic variability and path analysis for quantitative characters in F4 Generation of Black gram (*Vigna mungo* L.)." *2018 -20*.
- **RAWE-Practical crop production-** Cauliflower experiment-effect of mulching in cauliflower cultivation (completed) and effect of organic fertilizers on Okra production *during (2017-18)*.
- **RAWE- field and farmers survey-** Completed farmers survey on problems and practices of about 12 farmers in Karnal district of Haryana covering various crops including Rice, Maize, Sugarcane, Okra, Bottle gourd, Cauliflower, Cabbage, Hot Pepper, Marigold, Chiku, Guava, Ber, Mango, etc**. The result was compiled and submitted to the University** *during (2017-18)*.

Research Papers and Publications:

Title of the papers	Authors & Year of publication	Journal Name & NAAS/UGC Rating
Haplotype diversity analysis of genes controlling economically important traits in rice	Tyagi, Swati; Gurjar, Anoop; Rai, Diksha; **Singh, Ankur;** Tripathi, Ajay; Kalia, Sanjay; Kohli, Ajay; Kumar, Arvind; Sinha, Pallavi; Singh, Uma Maheshwar; Singh, Vikas *(2023)*	The Plant Journal Manuscript No. TPJ-00830-2023 **(Submitted and under review)**
Studies on Genetic Variability and Heritability for Several Morpho-Physiological Traits Under Various Sodicity Levels in Rice (*Oryza sativa* L.)	**Ankur Kumar Singh;** Shiva Nath; Shrigovind; Akanksha Singh and Tarkeshwar *(2023)*	Biological Forum- An International Journal
Association analysis for yield and its attributing components in rice (*Oryza sativa* L.) under two environments	Anjali Singh, O. P. Verma & **Ankur Kumar Singh** *(2022)*	Journal of Agriculture Research and Technology
Assessment of genetic variability and heritability for grain yield & its attributing traits in rice (*Oryza sativa* L.) under sodic soil	Anand Mohan Choudhary, O. P. Verma, Tarkeshwar, Vikash Singh, **Ankur Singh** & Ajeet Kumar Gupta *(2021)*	Frontiers in Crop Improvement
Genetic variability & path analysis for quantitative characters in F4 generation of black gram **(*Vigna Mungo* L. Hepper)**	**ANKUR KUMAR SINGH** & GAIBRIYAL M. LAL *(2020)*	International Journal of Current Microbiology and Applied Sciences

Personal Details:

GENDER	MALE
BIRTH DATE	28th DECEMBER,1998
LANGUAGE PROFICIENCY	ENGLISH AND HINDI
NON-ACADEMIC INTERESTS	SPORTS

Declaration:

This is to certify that all the information provided here is correct to the best of my knowledge and belief and promise to abide by all the norms laid down by your esteemed organization.

Date: September 2023
Place: Ayodhya

(Ankur Kumar Singh)