

Curriculum vitae

Dr.Raj Kumar

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Permanent Address: Village: Balpur, Post: Motiganj, District: Gonda, UP., 271301.



Career Objective:

I am highly motivated to contribute to food and nutritional security research along with enhancing the livelihoods of the farmer community.

Academic qualification:

✓ CSIR-UGC NET: JRF (Life Sciences) 2023
✓ ASRB NET in Genetics and Plant Breeding 2023, 2025

Degree	University/Board	Year	%
PhD (Genetics and Plant Breeding)	Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, UP, India	2025	81.81
M.Sc. (Ag.) Genetics and Plant Breeding)	Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, UP, India	2021	80.50
B.Sc. (Hons.) Agriculture	Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj, UP, India	2019	86.50
Intermediate (PCB)	CBSE Board	2014	79.20
High School	CBSE Board	2012	83.60

Ph.D. Thesis Title: “Biometrical analysis of polygenic traits to emphasize the yield and its components in Indian mustard (*Brassica juncea* L. Czern & Coss)”

M.Sc. Thesis Title: “Morphological and Molecular Characterization of Oat (*Avena sativa* L.) Genotypes”

Publications:

- Kumar, R.,** Kumar, M., Gangwar, L.K., Kumar, V., Singh, S., Edhigalla, P & Rahimi, M. (2025). Association and reliability analysis of multi-trait selection methods and selection of superior genotypes across the traits in Indian mustard. *Scientific Reports*, 15:23405. <https://doi.org/10.1038/s41598-025-07721-z>
- Kumar, R.,** Varghese, S., Jayaswal, D., Jayaswall, K., Yadav, K., Mishra, G., ... & Kumar, S. (2023). Agro-morphological and genetic variability analysis in oat germplasms with special emphasis on food and feed. *Plos one*, 18(2), e0280450. <https://doi.org/10.1371/journal.pone.0280450>
- Kumar, R.,** Kumar,M., Gangwar,LK., Kumar,V., Anjali., Singh,S., Chaudhary,NK., Kumar,S. and Yadav, AN.(2025).Trait profiling for yield improvement in Indian mustard using multivariate and radar plot analysis. *Plant Science Today*, Vol 12(sp1): 1-10. <https://doi.org/10.14719/pst.9222>

4. **Kumar, R.,** Singh, S., Gangwar, L. K., Kumar, V., Ojre, A., Singh, A., ... & Yadav, A. N. (2025). CRISPR/Cas: A Precise and Advanced Tool for Quality Trait Improvement in Crops. *Ecological Genetics and Genomics, Elsevier* 100346. <https://doi.org/10.1016/j.egg.2025.100346>
5. Chaudhary, N. K., Gangwar, L. K., Mohan, S., **Kumar, R.,** Kumar, V., & Edhigalla, P. (2025). Hybridization of potential germplasm to create genetic variation for identification of superior cross combinations in bread wheat (*Triticum aestivum* L.). *The Indian Journal of Agricultural Sciences*, 95(2). <https://doi.org/10.56093/ijas.v95i2.156570>
6. Mishra, G., Kumar, D., Yadav, K., Singh, A.K., Tripathi, H., Pandey, P., **Kumar, R.,** Singh, P.K., Singh, S., Jayaswall, K. and Jayaswall, D. (2025). Marker and CKX2 gene expression-based selection of high yielding tomato (*Lycopersicum esculentum* Mill.) germplasms. *Indian Journal of Biochemistry and Biophysics*, Vol-25, pp:961-968
7. Soyal K, Supriya S, Vikrant, Anant, Lokesh J, **Raj Kumar**, et al. (2026). Forage sorghum (*Sorghum bicolor* (L.) Moench) for green fodder yield and its multivariate genetic analysis. *Plant Sci. Today*. <https://doi.org/10.14719/pst.11641>

Conference:

1. **7th International conference on plant genetics and genomics** “Theme: GM crops and genome editing: promoting agro biodiversity use, through genomics and CRISPR technologies, for sustainable agricultural development” held at NASC complex, Pusa, New Delhi on February 16-17, 2024.
2. **XVII Agricultural Science Congress** “Utilization of genetic variation produced from mating of diverse genotypes to select the potential cross combinations in Indian mustard” G.B. Pant university of Agriculture and Technology, Pantnagar, Uttarakhand, India. February 20-22, 2025

Training:

1. **Trainee:** 8 January to 6 May 2025
Dr. Charanpreet Kaur, Scientist-D, NABI, Mohali, Punjab
2. **Trainee Research Fellow:** 21 February 2021-27 March 2021
Deepanshu Jayaswal (Scientist), ICAR-IISS, Mau, Uttar Pradesh

Awards:

Turkiye Burslari (Turkiye Government) fully funded Scholarship 2021.
Programme: PhD (Agricultural Biotechnology), Ondokuz Mayıs University, Turkiye.

Personal Skills:

Computer: Good command of Microsoft Office

Research: Germplasm evaluation, data collection and analysis, with molecular diversity analysis, gene expression, genome editing (CRISPR Cas9 from plasmid isolation to *Agrobacterium* transformation in rice callus).

Software: rStudio, TNAU STAT, OPSTAT, Agrianalyze

Declaration: I hereby declare that all the information furnished above is true to the best of my knowledge.

Date: 25 June 2026

Signature.....
(Raj Kumar)

References

**1. Dr. Mukesh Kumar
(Ph.D. Advisor)**

Associate director/Professor (Genetics and Plant Breeding)

Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, India.

Email: dahiyaadr@gmail.com

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2. Dr. Lokesh Kumar Gangwar

Professor (Genetics and Plant Breeding)

Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, India.

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3. Dr. Deepanshu Jayaswal

Scientist, (Agricultural Biotechnology)

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