

BRIEF PROFILE



Name	Dr. Kaushal Pratap Singh
Date of Birth	11/07/1979
Designation	Senior Scientist (Genetics & Plant Breeding)
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Employment Record	1. Project Fellow; R. B. S. College, Agra; 17/01/2005 to 02/02/2008 2. Asstt. Professor; S. M. S. Degree College, Agra; 01/07/2008 to 30/04/2011 3. Science Communicator; R. B. S. College, Agra; 01/05/2011 to 30/04/2012 4. Asstt. Professor; S. M. S. Degree College, Agra; 01/07/2012 to 30/04/2014 5. Project Coordinator; R. B. S. College, Agra; 01/05/2014 to 30/04/2016 6. Asstt. Professor; S. M. S. Degree College, Agra; 02/05/2016 to 11/04/2019 7. CSIR-Research Associate; ICAR-DRMR(IIRMR), Bharatpur; 12/04/2019 to 20/05/2024 8. Senior Scientist; ICAR-NIRCA (CTRI), RS Dinhata; 19/06/2025 to Till Date

Areas of Expertise	• Resistance Breeding • Marker Assisted Selection • Cytology • Biotechnology and Molecular Biology • Genomics and Bioinformatics
Publications (Best 10)	1. Kumari P., Singh K.P. and Rai P.K. (2025) Mapping of Major QTLs Conferring Higher Branching Numbers in Backcross Introgression Lines of <i>Sinapis alba</i> + <i>Brassica juncea</i> Somatic Hybrids. Tropical Plant Biol. 18, 6. https://doi.org/10.1007/s12042-024-09375-z (IF 1.86) 2. Singh K. P., Kumari P. and Rai P. K. (2024) GWAS for the identification of introgressed candidate genes of <i>Sinapis alba</i> with increased branching numbers in backcross lines of the allohexaploid <i>Brassica</i>. Front. Plant Sci. 15:1381387. doi: 10.3389/fpls.2024.1381387 (IF 4.8) 3. Kumari P., Singh K. P. and Rai P. K. (2024) Deciphering the genetic architecture of plant height and main shoot length in backcross introgression lines of <i>Sinapis alba</i> + <i>Brassica juncea</i> allohexaploids. Euphytica (2024) 220:3. https://doi.org/10.1007/s10681-023-03271-5 (IF 1.7) 4. Kumari P., Singh K. P. and Rai P. K. (2024) Mapping QTLs and candidate genes introgressed from <i>Sinapis alba</i> for siliquae related traits in second backcross progeny of allohexaploid Brassica. Euphytica 220(3):45. https://doi.org/10.1007/s10681-024-03307-4 (IF 1.7) 5. Kumari P., Singh K. P. and Rai P. K. (2023) Identification of new resistance source for Sclerotinia stem rot in backcross population of <i>B. juncea</i> + <i>S. alba</i> allohexaploids: Key to manage disease through host resistance. Euphytica, 219:76. https://doi.org/10.1007/s10681-023-03208-y (IF 2.185) 6. Singh K. P., Kumari P., Raipuria R. K. and Rai P. K. (2022) Development of genome-specific SSR markers for the identification of introgressed segments of <i>Sinapis alba</i> carrying genes for blight resistance in the <i>Brassica juncea</i> background. 3Biotech, 12:332. http://doi.org/10.1007/s13205-022-03402-0. (IF 2.893) 7. Singh K. P., Kumari P. and Yadava D. K. (2022). Development of De-novo transcriptome assembly and SSRs in Allohexaploid Brassica with functional annotations and identification of heat-shock proteins for thermotolerance. Frontiers in Genetics.

	13:958217. DOI: 10.3389/fgene.2022.958217. (IF 4.772) 8. Singh K. P., Kumari P. and Yadava D. K. (2021) Introgression and QTL mapping conferring resistance for <i>Alternaria brassicae</i> in the backcross progeny of <i>Sinapis alba</i> + <i>Brassica juncea</i> somatic hybrids. Plant Cell Reports, DOI: 10.1007/s00299-021-02785-3. (IF 4.964) 9. Kumari P., Singh K. P., Kumar S. and Yadava D. K. (2020) Development of a Yellow-Seeded Stable Allohexaploid Brassica Through Inter-Generic Somatic Hybridization With a High Degree of Fertility and Resistance to <i>Sclerotinia sclerotiorum</i>. Front. Plant Sci. 11:575591. doi: 10.3389/fpls.2020.575591. (IF 5.753) 10. Kumari P., Singh K. P. and Rai P. K. (2020) Draft Genome of Multiple Resistance Donor Plant <i>Sinapis alba</i>: An insight into SSRs, Annotations and Phylogenetics. PLOS ONE, http://doi.org/10.1371/journal.pone.0231002. (IF 3.240)
Awards/ Honours	• Emerging Scientist Award (Dr. M. P. S. GROUPS OF INSTITUTIONS, AGRA)-2019 • Best Oral Presentation Award (St. Johns' College, Agra)-2020 • Best Oral Presentation Award (SRMR, Bharatpur)-2023 • Best Poster Award (ISGPB, IARI, New Delhi)-2022