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Specialization: Molecular biology and Plant biotechnology
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Important Research Publications

- Kumar, S., Singh, A., Mehta, D.K. and Bist, C.M.S., 2026. Genetic analysis of resistance to Phytophthora blight and fruit rot in *Capsicum annuum* under artificial and natural epiphytotic conditions. *Plant Biosystems*, 160(2), p.66.
- Kumar, S., Thakur, A., Sharma, M., Thakur, N., Kumar, S. and Singh, A., 2025. Anther-mediated haploid induction and genetic stability of *Phytophthora*-resistant backcross lines of *Capsicum annuum* L. *Journal of Genetic Engineering and Biotechnology*, 23(2), p.100498.
- Kumar, S., Singh, A., Gupta, M., Bist, C.M.S., Gupta, B. and Sharma, S., 2024. Isolation, identification and multi-locus sequence typing of *Phytophthora capsici* from capsicum fields and its cross-infectivity in different crop species. *Physiological and Molecular Plant Pathology*, 134, p.102413.
- Kumar, S. and Singh, A., 2024. In silico analysis to understand genetic variability, phylogenetic and phylogeographic relationships between *Phytophthora capsici* isolates infecting various crops. *Archives of Phytopathology and Plant Protection*, 57(5), pp.405-426.
- Singh, A., Sharma, A., Kardille, H.B., Bhardwaj, V., Dutt, S. and Singh, B., 2024. An efficient *Agrobacterium*-mediated transformation method for potato cv Kufri Chandramukhi. *Potato Journal*, 51(2).
- Thakur, A., Singh, A., Tandon, A. and Sharma, V., 2023. Insights into the molecular mechanisms of uptake, phytohormone interactions and stress alleviation by silicon: a beneficial but non-essential nutrient for plants. *Plant Growth Regulation*, 101(1), pp.1-13.
- Singh, A., Kaushal, N., Sharma, R., Bhardwaj, V., Singh, B. and Singh, R., 2016. Effect of elevated temperature on *in vitro* microtuberization of potato genotypes with different thermotolerance levels. *Vegetos-An Int. J. Plant Res*, 29(6).
- Singh, A., Siddappa, S., Bhardwaj, V., Singh, B., Kumar, D. and Singh, B.P., 2015. Expression profiling of potato cultivars with contrasting tuberization at elevated temperature using microarray analysis. *Plant Physiology and Biochemistry*, 97, pp.108-116.
- Singh, A., Chand, D. and Pattanayak, D., 2013. Purification and characterization of potato ribonuclease P. *Journal of plant biochemistry and biotechnology*, 22(4), pp.425-433.
- Singh, A., Chamail, A., Chand, D., Chakrabarti, S.K. and Pattanayak, D., 2012. pUC-IVT, a modified pUC19 based *in vitro* transcription vector. *Journal of plant biochemistry and biotechnology*, 21(1), pp.60-65.

Books and manuals

- Kumar P, Sharma P, Singh A, Sharma S, **Thakur M** and Sharma R. 2023. Practical Manual on Elementary Plant Biotechnology, Dr YS Parmar University of Horticulture & Forestry, Nauni, Solan (HP). p40.

Awards & Recognitions

- Overseas training under NAHEP-IDP at University of Melbourne Australia (March 2023).
- Received DST SERB Young Scientist Fellowship (March 2016).
- Second prize for poster presentation at National Seminar on Emerging problems of Potato held at ICAR-CPRI Shimla in November, 2014.
- Received DST Woman Scientist Fellowship (WOS-A) in applied science (March 2013).
- First prize for poster presentation at 'National Seminar on Gene Constructs' held at Indian Institute of Horticultural Research, Bangalore, India in May 2006.
- Qualified CSIR-UGC (NET-LS) 2002 and CSIR-UGC (NET-JRF) 2003.
- Received Junior Research Fellowship from University Grants Commission, Government of India, for pursuing Ph.D. (2003).
- Awarded merit scholarship by DBT, Government of India, during MSc.
- Qualified ICAR NET for lecturership in Agricultural Biotechnology.
- Honours certificate in BSc.