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### Ongoing Research Projects

- Molecular and agronomic evaluation of *in vitro* developed tolerant tomato somaclones against devastating disease Fusarium wilt funded by Department of Environment, Science & Technology, Shimla (HP) from 2023 to 2027 (Co-PI).

### Important Research Publications

- Shakshi, Khan S, Khagta K, **Sharma P**, Kumari C, Narwal S, Sharma R and Rana VS. 2026. Meta-topolin as an effective cytokinin source to enhance *in vitro* establishment, shoot multiplication and alleviation of shoot tip necrosis (STN) in kiwiberry (*Actinidia arguta*) cultivars. *Plant Cell Tissue and Organ Culture* 164:97. <https://doi.org/10.1007/s11240-026-03410-5>
- Kumar V, Garima, Sharma R, Thakur A, **Sharma P**, Sharma YP, Thakur A and Sharma S. 2024. Conserving industrially important endangered medicinal herb *Trillium govanianum* (Himalayan Trillium) through biotechnological based interventions. *Plant Cell Tissue and Organ Culture* **159**:3. <https://doi.org/10.1007/s11240-024-02862-x>
- Kapoor B, Sharma M, Sharma R, Zadokar A, Thakur A, **Sharma P**, Kumar S, Rozar KP, Kumar KS, Hegde N and Pandey D. 2023. *De novo* transcriptome profiling and development of novel secondary metabolites based genic SSRs in medicinal plant *Phyllanthus emblica* L. (Aonla). *Scientific Reports* **13** (1):17319.
- Shaunak I, Sharma R, **Sharma P**, Gupta M, Bhardwaj RK. 2023. Developing resistance against soil-borne Fusarium pathogen causing tomato wilt through *in vitro* cell line selection. *Plant Cell Tissue and Organ Culture* **153**:91-104.
- Thakur D, **Sharma P**, Sharma R, Kumari C and Rana VS. 2022. Critical factors governing the efficient direct organogenesis in green-fleshed Kiwifruit (*Actinidia deliciosa*) [A. Chev.] var. *deliciosa*. *In Vitro Cellular and Developmental Biology-Plant* **58**: 1107-1116.
- Sharma H, **Sharma P** and Sharma R. 2021. Transferability of apple and pear SSRs to other temperate pome fruits of family Rosaceae. *Genetika-Belgrade* **53**(1):195-208.

- Sharma R and **Sharma P**. 2019. Assessing genetic variation using arbitrary oligonucleotide markers system in apple genotypes. *Indian Journal of Horticulture* **76**(4): 581-589.
- **Sharma P** and Sharma R. 2018. DNA fingerprinting of peach (*Prunus persica*) germplasm in accessing genetic variation using arbitrary oligonucleotide markers system. *Indian Journal of Biotechnology* **17**(3): 484-491.
- Rana M, Sharma R, **Sharma P**, Bhardwaj SV and Sharma M. 2014. Estimation of genetic diversity in *Capsicum annuum* L. germplasm using PCR-based molecular markers. *National Academy Science Letters* **37**(3): 295-301.
- Sharma R, Modgil M, **Sharma P** and Saini U. 2012. *Agrobacterium*-mediated gene transfer studies in apple (*Malus x domestica* Borkh.) rootstock MM106. *Indian Journal of Horticulture* **69**(1): 1-6.

### **Books and Manual**

- 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 and Forestry, Nauni, Solan (HP). p40.

### **Awards & Recognitions**

- Awarded 'Best poster prize' on 'Plant tissue culture-based interventions for the propagation of *Actinidia* species' in 'XXII Biennial National Symposium on Climate Smart Agronomy for Resilient Production System and Livelihood Security' at ICAR-CCARI, Goa in November 2023 (Self).
- Life member-Indian Science Congress Association (ISCA).
- Life member-Society for Plant Biochemistry and Biotechnology (SPBB)
- CSIR-Research Associateship (RA) from 2015 to 2017.
- DST-Senior Research Fellowship (SRF) from 2012 to 2015.
- DBT-Senior Research Fellowship (SRF) in 2011.
- Qualified ASRB-ICAR-National Eligibility Test (NET) for lectureship in Agricultural Biotechnology in 2009.