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Specialization: Fruit Science (Fruit Breeding and Genetic Resources)

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Ongoing Research Projects

- Establishment of Natural Farming Model Farm at RHR&TS Mashobra & farmers' field funded by ICAR-IIFSR, Modipuram for ₹ 5.555 lakh from 2025 (Co-Principal Investigator).

Important Research Publications

- Sharma A, **Thakur DS**, Dangi G, Chauhan N and Verma P. 2025. Qualitative and quantitative analysis of pear (*Pyrus communis* L.) germplasm for morphological and pomological traits using multivariate analysis. *Applied Fruit Science* 67, 27.
- Dangi G, **Singh D**, Chauhan N, Dogra RK, Verma P and Chauhan A. 2024. Evaluating genetic diversity of morpho-physiological traits in sweet cherry (*Prunus avium* L.) cultivars using multivariate analysis. *Genetic Resources and Crop Evolution* 11:1-36.
- Padhan A, Kumar A, Pathirana R, Sharma DP, **Thakur DS**, Rana VS, Kumar P and Chauhan A. 2024. Potential of wild, underutilized *Actinidia callosa* and *Actinidia strigosa* from Northeast India for kiwifruit breeding. *Genetic Resources and Crop Evolution* 71(1):39-52.
- Padhan A and **Thakur DS**. 2024. Preliminary selection of wild male kiwifruit (*Actinidia callosa* var. *strigilosa* C. F. Liang) accessions in North Sikkim, India, for future breeding programmes. *New Zealand Journal of Botany* 1–12.
- Padhan A and **Thakur DS**. 2024. Morphological, biochemical and sensory analysis of selected *Actinidia callosa* var. *strigilosa* female accessions from the existing wild populations in North Sikkim, India. *New Zealand Journal of Crop and Horticultural Science* 1–18.
- Dangi G, **Singh D**, Chauhan N, Dogra RK, Verma P and Chauhan A. 2024. Evaluating genetic diversity of morpho-physiological traits in sweet cherry (*Prunus avium* L.) cultivars using multivariate analysis. *Genetic Resources and Crop Evolution* 71: 3267-3302.
- Kaushal N, **Thakur DS**, Chauhan N, Dogra RK, Chauhan A and Dangi G. 2024. Studies on pollination, fruit set and self-incompatibility index in apple varieties under wet temperate conditions of Himachal Pradesh. *Indian Journal of Ecology* 51(2): 353-363.
- Padhan A, Kumar A, Pathirana R, Sharma DP, **Thakur DS**, Rana VS, Kumar P and Chauhan A. 2024. Potential of wild, underutilized *Actinidia callosa* and

Actinidia strigosa from Northeast India for kiwifruit breeding. *Genetic Resources and Crop Evolution* 71(1):39-52.

- Chauhan A and **Singh D.** 2023. Variability and cluster analysis in sand pear (*Pyrus pyrifolia* (Burm) Nakai.) genotypes. *Bangladesh Journal of Botany* 52: 261-266.
- **Singh D,** Chauhan N and Chauhan A.2023. A note on promising early colouring apple bud sports identified from commercial exotic apple germplasm. *Genetic Resources and Crop Evolution* 70: 1931–1938.

Awards & Recognitions

- Best poster presentation certificate in VIIth International conference on Global Research Initiatives for sustainable Agriculture and Allied Sciences held on November 21-23, 2022.
- Best poster presentation certificate in XV Agricultural Science Congress 2021 held on November 13-16, 2021(virtual mode).
- Best oral presentation (3rd position) certificate in “International conference on climate change, biodiversity and sustainable agriculture (ICCBSA-2018)” held on December 13-16, 2018at Assam Agricultural University Jorhat, Assam, India.
- Best poster presentation certificate in National symposium on “Modern agro-technologies for nutritional security and health” held on April 21-23, 2015at Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, HP.