

Dr. Dushyant Kumar Sharma

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Ongoing Research Projects:

1. Survey, Selection, Phytochemical evaluation, Cytogenetical characterization and multilocal testing of Harar (*Terminalia chebula*) in India funded by National Medicinal Plant Board (NMPB) for ₹ 17.94 Lakh (PI)
2. Preparation of District and Block level people's Biodiversity Registers (PBRs) of Hamirpur, Bilaspur and Una Districts, Himachal Pradesh funded by Himachal Pradesh State Biodiversity Board (HPSBB), Shimla for Rs. ₹ 14.56 (PI)
3. Promotion of climate resilient horticultural and forestry technologies in Eco Village Baleta Kalan of Distt. Hamirpur funded by funded by Department of Environment, Science & Technology, Shimla, Himachal Pradesh (DEST) for ₹ 9.77 lakh (PI).

Important Research Publications:

- Saakshi, Bhardwaj, D. R., Sharma, P. P., Sharma, D., Bodh, R., & Bhatia, A. K. 2026. Suitability analysis of agroforestry in Himachal Pradesh by using a multi-criteria GIS–AHP approach. *Agroforestry Systems* 100(6), 163.
- Saakshi, Sharma, D., Bodh, R., & Bhatia, A. K. 2026. Agroforestry promotion for land restoration, livelihoods and economic resilience in India. *Discover Forests* 2(1), 46.
- Thakur R., Gupta T., Gupta R.K., Sharma D.K., Thakur M., Kumar D., Thakur S. 2026. Effects of provenance variation on nursery development of *Santalum album* L. in Himachal Pradesh. *Plant Science Today*, 13(sp1), 10449.
- Acharya, M., Sharma, K., Sharma, D. K., Dhiman, A. K., Sharma, V., & Salwan, R. 2025. Enhanced Carbon Sequestration and Microbial Activities Under Apple-Based Agroforestry Systems in Kullu Valley of Himachal Pradesh. *Journal of Plant Nutrition and Soil Science*, 188(1), 129-138.
- Sharma D, Kumar A and Shiwani K. 2024. Assessment of cadmium bioremediation potential of fast-growing tree *Melia dubia* Cav. (Malabar Neem) in North Western Himalayas. *Agriculture Association of Textile Chemical and Critical Reviews* 13(1), 35-44.
- Sharma D and Shiwani K. 2022. *Lantana camara* as a Potential Secondary host for Natural Populations of *Santalum album* in Foothills of Himalayas: A hope to stand along with Noxious Weed. *Biological Forum* 14(3), 179-183.
- Garg A, Sharma D and Shiwani K. 2022. Floristic Diversity of *Santalum album* L. Populations in Mid Hill Zone of Himachal Pradesh. *Indian Journal of Ecology* 49(5) (SI), 1885-1890.
- Garg A, Sharma D and Shiwani K. 2022. Floristic Diversity of *Santalum album* L. Populations in District Bilaspur, Himachal Pradesh. *Frontiers in Crop Improvement* 10, 228-233.

- Goswami M, Bhagta S and Sharma D. 2020. *Melia dubia* and its Importance: A Review. *International Journal of Economic Plants* 7(1), 29-33.
- Sharma D, Thakur S & Jha S. 2016. Characterization of among and within natural population variation for fruit and pulp characters in *Terminalia chebula* (Gaertn.) Retz. *Agroforestry Systems* 90(2), 361-369.

Awards & Recognitions:

- **Bharat Shiksha Ratan 2019** award conferred by Global Society for Health & Educational Growth, Delhi at constitution Hall, Bithal Bhai Patel House, New Delhi, India held on 28th June 2019.
- **Outstanding Scientist 2019** award conferred by Indian Society of Tropical Agriculture during 9th International Conference on Agriculture, Horticulture and Plant Science at Dharamshala, Himachal Pradesh held on 12th April, 2019.
- Prepared 4 district level and 15 block level **People's Biodiversity Registers (PBRs)** as well as updated 172 Panchayat level People Biodiversity Registers (PBRs) under projects funded by Himachal Pradesh State Biodiversity Board, Shimla.
- Awarded with prize money of Rs. 10,000/- in “**Enviro-Ideation Hackathon-2024**” at Gaiety theatre Shimla by Worthy Chief Secretary, Himachal Pradesh on World Environment Day-2024 organized by Himachal Pradesh State Pollution Control Board, Shimla.
- First reporting on association of *lantana camara* and *Santalum album* in research entitled “*Lantana camara* as a Potential Secondary host for Natural Populations of *Santalum album* in Foothills of Himalayas: A hope to stand along with Noxious Weed.
- Member of Committee for technical guidance on upgradation, validation and implementation of **HP biodiversity Strategy and Action Plan**.
- Introduced highly valued fast growing, multipurpose agroforestry tree species *Melia dubia* (Malabar Neem) in Himachal Pradesh and established its germplasm bank having 17 genotypes and producing its quality planting material for further distribution to the farmers.
- Introduced and established block plantation of commercially highly valued timber species *Swietenia macrophylla* (Mahogany) as well as producing quality planting material for further distribution to farmers of the state.