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| **Dr Pramod Verma**  Assistant Professor  **Specialization: Orchard Floor Management**  **Contact: 8629003469; 9817361154**  **E.mail: verma.pramod92@gmail.com** | D:\Desktop material\Photo and sign\Pramod Verma.jpg |

**On-going Research Projects**

* Himachal Pradesh Horticulture Development Project (Research Component: Development of package of practices for high density plantation on clonal rootstock) funded by World bank for Rs 1065.86 lakhs from 2016 to 2023 (Co-PI).
* Precision Farming Technologies for enhancing yield and quality of horticultural crops funded by MIDH, Govt. of Himachal Pradesh for Rs. 5000000 fromr 2020-2023(Co-PI).
* Bio-efficacy of herbal preparations against scab disease of apple funded by National Innovation Foundation - India Aided Project for Rs 5,50,000/- from 2022 to 2023(Co-PI)
* Studying the orchard performance of tissue cultured clonal rootstock of apple (*Malus* × *domestica* Borkh.) from 2019 to 2024(PI) (State Funded).
* Effect of rootstocks and interstock (M 9) on vegetative growth, dwarfism, precocity and yield of apple (*Malus* × *domestica* Borkh.) cv. ‘Redlum Gala’ from 2019 to 2024(PI) (State Funded).
* Effect of notching technique on induction of lateral branches in apple (*Malus* × *domestica* Borkh.) under high density plantation (PI) from 2021 to 2023(State Funded).

**Important Research Publications**

* **Verma P**, Singh J, Sharma S and Thakur H. 2023. Phenological growth stages and growing degree days of peach [*Prunus persica* (L.) Batsch] in sub-temperate climatic zone of North-Western Himalayan region using BBCH scale. *Annals of Applied Biology*182: 284-294. <https://.doi:10.1111/aab.12815>.
* **Verma P**, Sharma S, Sharma N C and Chauhan N. 2023. Review on crop load management in apple (*Malus* × *domestica*Borkh.). *Journal of Horticultural Science and Biotechnology*. 98(3): 299-321. <https://.doi:10.1080/14620316.2022.2149425>.
* **Verma P**, Sharma N C, Sharma D P and Thakur H. 2023. Induction of lateral branches in apple (*Malus* × *domestica* Borkh.) by notching. Erwerbs-Obstbau. <https://doi.org/10.1007/s10341-023-00975-9>.
* Sharma S, **Verma P** and Sharma N C. 2023. Crop load management in high density apple plantation. Spanish Journal of Agricultural Research. 21(4), e0905, 13p.
* Mir M A, **Verma P**, Sharma N C, Sharma N and Sarma U. 2024. Apple (*Malus* × *domestica* Borkh.) production and quality in response to anti‑hail nets. *International Journal of Biometeorology.* 68; 927–938. <https://doi.org/10.1007/s00484-024-02637-1>**.**
* Sarma U, **Verma P**, Sharma N C, Mir MA and Singh U.2024.Adventitious root induction in apple (*Malus* × *domestica* Borkh.) clonal rootstocks through mound layering under shade net conditions. *Applied Fruit Science Erwerbs-Obstbau* <https://doi.org/10.1007/s10341-024-01144-2>.
* **Verma P**, Sharma N C, Sharma D P, Kumar P, Chand K and Thakur H. **2024**. Dwarfism mechanism in *Malus* clonal rootstocks. *Planta* 260:133. <https://doi.org/10.1007/s00425-024-04561-5>.
* **Verma P**, Sharma N C, ·Sharma D P, Chand K, Thakur H and Shyam A. 2025. Chip Budding (Fall Budding) in apple (*Malus*× *domestica* Borkh.) for the production of feathered plants. *Applied Fruit Science* 67:25. <https://doi.org/10.1007/s10341-024-01257-8>.
* Thakur S, Sharma NC, Kumar P, **Verma P**, Singh U and Verma P. 2025. Optimisation of budding timing and methods for production of quality apricot nursery plants. *The Journal of Horticultural Science and Biotechnology*, 1–18. <https://doi.org/10.1080/14620316.2025.2484676>.
* Chand K, **Verma P**, Sharma N C and Thakur A. 2025. Impact of pre-cooling on fruit quality attributes during storage of apple cv. ‘Jeromine.’ *The Journal of Horticultural Science and Biotechnology*. 1–11. <https://doi.org/10.1080/14620316.2025.2505787>

**Books/Manual:**

* Kumar K, Thakur D S and **Verma P**. 2020. *Elementary Fruit Breeding: A Practical Manual*. DTP system, Directorate of Extension Education. Dr Y S Parmar UHF Nauni, Solan (H.P.) – 173230.
* Chandel J S, Sharma N C and **Verma P.** 2020**.** *Plant Propagation and Nursery Management of Fruit Crops; A Practical Manual*. DTP system, Directorate of Extension Education. Dr Y S Parmar UHF Nauni, Solan (H.P.) – 173230.
* Sharma N C, **Verma P** and Sharma D P. 2022. *Training Manual on Nursery Production of Temperate Fruits*. Department of Fruit Science, Dr Y S Parmar UHF Nauni, Solan (H.P.) – 173230.
* Sharma DP, Sharma NC, Singh G, **Verma P** and Ladon T. 2022. Apple: varietal characteristics. Pruthi R K, Chand S, Chauhan P K, Negi B S, Sharma R, Chauhan A, Sharma JC, Negi S K and Thakur M (eds.). Himachal Pradesh Horticulture Development Project (Word Bank Funded). HP Nurseries Management Society, Directorate of Horticulture HP Shimla – 171002.
* **Verma P,** Sharma N C, Sharma D P, Chauhan J K, Shyam A, Ladon T, Sajwan P, Kalsi K and Thakur H. 2024. Basic Concept of Temperate Fruits Production: A Guiding Manual. Department of Fruit Science, UHF Nauni Solan (HP). 127p.

**Awards & Recognitions**

* Awarded **young scientist award by VDGOOD Professional Association in the** 11th International Scientist Awards on Engineering Science and Medicine, held on 17 & 18 October 2020 at Kolkata, India**.**
* Received “**Certificate of excellence in Reviewing**” by International Journal of Environment and Climate Change on 15/11/023.
* Received “**Certificate of excellence in Reviewing**” by International Journal of Plant and Soil Science on 18/06/2024.