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Ongoing Research/ Extension Projects

- Empowerment of rural youth and retaining in high value Agri Entrepreneurships in Solan district of Himachal Pradesh (ARYA) funded by ICAR for ₹ 22 lakh from 2019 to 2025 (Co- PI).
- Identification of honey pockets and scientific preservation for high altitude honey production under Mini Mission-III funded by Department of Agriculture, Cooperation and Farmers Welfare for ₹ 18.195 lakh from 2021 to 2023 (Co-PI).
- Entrepreneurial Skill Development for production of quality planting material of subtropical horticultural, medicinal and vegetable crops for enhancing livelihood status of unemployed youths and progressive farmers funded by RAFTAAR, RKVY, Deptt. Of Horticulture, Shimla, Govt. of Himachal Pradesh for ₹ 51.46 lakh from 2021 to 2023 (Co-PI).
- Outscaling of natural farming through KVKs funded by ICAR for ₹ 10.68 lakh from 2022 to 2025(Co-PI).
- Agri-drone project funded by ICAR for ₹ 17.50 lakh from 2022 to 2023 (Co-PI).
- Honey and other Hive products production model for sustainable high hill beekeeping in Himachal Pradesh funded by MM-I and MM-II of National Beekeeping and Honey Mission (NBHM) for ₹ 335.27 lakh from 2023 to 2024 (Co-PI).

Important Research Publications

- Sharma A, Raina R, Kapoor R, and Thakur KS. 2020. Socio economic impact of use of pheromone traps against Indian Gypsy moth, *Lymantria obfuscata* on apple orchardists of Chamba district. *Journal of Entomology and Zoology Studies* **8**(4): 188-191.
- Sharma A, Raina R, Kapoor R, and Thakur KS. 2020. Eco-friendly management of tobacco caterpillar with pheromone traps and *Bacillus thuringiensis* var. kurstaki in Chamba district of Himachal Pradesh, India. *Journal of Ent. Research* **44** (4) : 523-528.
- Sharma A, Raina R, Kapoor R, Thakur KS and Thakur M. 2020. Mud hive technology: New innovation for the conservation of indigenous bee, *Apis cerana indica* in Chamba district of Himachal Pradesh. *Journal of Entomology and Zoology Studies*; **8**(3): 585-588.

- Sharma A, Raina R, Kapoor R, Thakur KS and Thakur M. 2020. *Apis cerana*, an useful and popular beekeeping in Chamba District of Himachal Pradesh Compared to *Apis mellifera*. *Indian J. Ext. Educ* 2020 **56**: 118-120.
- Kapoor R, Sharma A, Raina R, Thakur M and Thakur KS. 2021. Impact of soil health card based fertilizer recommendations on productivity of maize and profitability of farmers of District Chamba. *Indian Journal of Hill Farming* **34** (1): 83–87.
- Kapoor R, Raina R, Sharma A, Thakur M and Thakur KS. 2021. Impact of soil health card based fertilizer recommendations on productivity of maize and profitability of farmers of District Chamba. *Indian Journal of Hill Farming* **34** (1): 16–20.
- Sharma A, Kapoor R, Raina R, Thakur KS and Thakur M. 2022. Beekeeping with *Apis cerana*: An indigenous tradition of tribal areas of Chamba district (Himachal Pradesh). *Indian Journal of Traditional Knowledge* **21**(2): 367-372.
- Sharma A, Rakesh KD, Kapoor R and Indra KK. 2022. Status of bee keeping in Himachal Pradesh, India: A review. *The Pharma Innovation Journal* SP-**11**(3): 257-265.
- Kapoor R, Sharma A, Raina R, Thakur KS and Thakur M. 2022. Impact of fertigation in capsicum (*Capsicum annuum*) on socio economic status of marginal farmers of Chamba, Himachal Pradesh. *Indian Journal of Agricultural Sciences* **92** (5): 598–601 .
- Kapoor R, Anil Kumar, Sandal SK, Sharma A, Rajeev Raina and Thakur KS. 2022. Water and nutrient economy in vegetable crops through drip fertigation and mulching techniques: A Review. *Journal of Plant Nutrition* **45**(2): 1-15.

Awards & Recognitions

- Best Paper Presentation award for presenting the paper titles “Winter management of *Apis Cerana indica* F by feeding pollen substitutes at Chamba district of Himachal Pradesh” during the 3rd National conference of the Society of Krishi Vigyan Kendras entitled “Natural farming, organic farming and chemical farming in India” held at Ujjain w.e.f. October 17- 19, 2022.