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Ongoing Research Projects

- All India Coordinated Research Project (AICRP) on Honey bees and Pollinators funded by ICAR(Principal Investigator).
- Himachal Pradesh Horticulture Development Project Managed Pollination –Component funded by World Bank for 1021(Principal Investigator).
- Identification of potential honey pockets & Scientific interventions for high altitude honey production funded by National Bee Board (NBB) for 18lakhs(Principal Investigator).
- Honey and other hive products production model for sustainable high-hill beekeeping in Himachal Pradesh funded by National Bee Board (NBB)for 327.97lakhs (Co-PI).

Important Research Publications

- Nayak RK, Rana K, Prajapat KL and GurjarMK. 2022. Insect pollinators of Kiwifruit (*Actinidia deliciosa* Chev.) and flora of bumblebee (*Bombus haemorrhoidalis* Smith) in Solan region of Himachal Pradesh. *The Pharma Innovation*. **11**(2): 1616-619.
- Sharma HK, Devi D, Thakur M, Rana K and Prashad D.2022. “Bumble bees” in-vitro rearing methods - A review. *International Journal of Tropical Insect Sciences***42**:1045–1057. <https://doi.org/10.1007/s42690-021-00675-5>.
- DeviSapna, Rana K, NegiNeha, Sharma HKand ThakurMeena. 2021. Seasonal incidence of brood diseases in hives of Asian honey bee (*Apis cerana* F.) correlates with colony and weather parameters. *The Pharma Innovation Journal* **10**(12): 1945-1951.
- Thakur S, Sharma HK, Rana K, ThakurMeena, Thakur MKand Nayak RK. 2021. Bumble bee (*Bombushaemorrhoidalis* Smith)- a potential pollinator in bell pepper under protected cultivation. *Indian Journal of Horticulture* **78** (1):84-87.
- Sharma HK, Kalia L, Sharma R, Thakur M, Prasad H, Devi M, Thakur P, Sharma D and Rana K. 2020. Seasonal incidence, epidemiology and establishment of different pests and disease in laboratory reared *Bombus haemorrhoidalis* Smith.Manuscript id: JTIS-D-20-00557R1. *International Journal of Tropical Insect Science* **41**: 2555–2564<https://doi.org/10.1007/s42690-021-00435-5>.
- Nayak RK, RanaK, Sharma HK, Rana VSand Thakur M.2019. Influence of bumble bee pollination on quantitative and qualitative parameters of kiwifruit. *Indian Journal of Horticulture* **76**(2): 294-299.

Books and manuals

- Nayak Rohit Kumar and Rana Kiran. 2022. *Introductory Book of Bumblebee*. Integrated publications, Vol. I, New Delhi, India. p175.
- Sharma Harish Kumar, Chandel RPS, Thakur Meena and Rana Kiran. 2018. *Apis cerana Management*. Published by Dept. of Entomology, Dr. YSP University of Horticulture & Forestry Nauni, Solan.
- Sharma Harish Kumar, Rana BS, Rana Kiran and Thakur Meena. 2016. *“MadhumakhiPalan” a book on beekeeping in Hindi*. Published by Department of Entomology, Dr. YSP, University of Horticulture & Forestry, Nauni. Solan (HP). p65.

- Kanwar H S, Mehta Devinder Kumar, Thakur Ashok and Rana Kiran. 2013. *Beej Prodyogiki*. Published by Department of Seed Science and Technology, Dr. YSP, University of Horticulture and Forestry, Nauni. Solan (HP).

Awards&Recognitions

- **Second Best Research Centre Award-2022** conferred by ICAR AICRP Honey bees and pollinators
- **Best Research Centre Award-2019** conferred by ICAR AICRP Honey bees and pollinators.
- **Best Research Centre Award-2016** conferred by ICAR AICRP Honey bees and pollinators
- **Best TSP Centre Award-2016** conferred by ICAR AICRP Honey bees and pollinators
- **Best Reporting Centre Award-2013** conferred by ICAR AICRP Honey bees and pollinators.