

Dr. Vijay Kumar
Scientist



Specialization: Fruit Science
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Ongoing Research Projects

- Himachal Pradesh Horticulture Development Project (Development of Package and Practices for High Density Plantation on Clonal rootstock funded by World Bank (Co-Principal Investigator).
- Canopy Management and Plant Architectural Engineering in Temperate Fruits funded by CITH, Srinagar, Jammu and Kashmir (Principal Investigator).
- Outreach technology for temperate fruit crops funded by CITH, Srinagar, Jammu and Kashmir (Principal Investigator).
- On-farm trial of indigenously developed early coloring strains of apple for commercialization in H.P. (Co-Principal Investigator).
- Standardization of blueberry and blackberry cultivation Kullu valley (Principal Investigator).
- Dissemination of Natural Farming Practices for fruit crops through development of demonstration blocks (Co-Principal Investigator).

Important Research Publications

- Society for Integrated Rural Improvement, Tirupati, India in National Rana VS, Zarea SE, Sharma S, Rana N, Kumar V and Sharma U. 2022. Differential response of the leaf fruit ratio and girdling on the leaf nutrient concentrations, yield, and quality of nectarine. *Journal of Plant Growth Regulation* 42: 2360-2373
- Rana VS, Sharma S, Rana N, Kumar V, Sharma U, Modgill V and Prasad H. 2022. Underutilized fruit crops in North-Western Himalayan region under changing climatic scenario. *Genetic Resources and Crop Evolution*. 70 (1): 37-69
- Sharma S, Rana VS, Kumar V, Singh G, Negi N, Sharma U. 2022. Prediction of chilling units in kiwifruit cultivars by using four different chill models under changing climatic scenario. *Environmental Engineering and Management Journal* 21(9):1569-1577.

- Rana VS, Mishra LN, Thakur DS, Sharma S, Kumar V and Panwar R. 2022. Harvest maturity of low chill cultivars of peach under mid hill conditions of Himachal Pradesh. *Indian Journal of Horticulture* 79 (3):311-316.
- Rana VS, Lingwal K, Sharma S, Rana N, Panwar V, Kumar V, Sharma U. 2022. Biostimulatory effect of seaweed extract on the fruiting and runner production of Strawberry. *Emergent Life Sciences Research* 8 (2): 132-141
- Azizi S, Rana VS, Sharma S, Chauhan J and Kumar V. 2022. Effect of girdling on yield and quality of kiwifruit (*Actinidia deliciosa* Chev.) raised through different propagation methods. *Indian Journal of Ecology* 49 (2): 496-501.
- Sharma S, Rana VS, Rana NS, Kumar V and Panwar R. 2022. Influence of organic amendments on growth, yield, fruiting and nutritional status of kiwifruit vineyard. *Indian Journal of Horticulture* 79 (1), 56-61.
- Kumar V and Rana VS. 2019. Seasonal variation in leaf macro nutrient status at various stages of fruit development in nectarine. *Ecology Environment and Conservation* 25(1):290- 294.
- Kumar V, Rana VS and Tomar CS. 2016. Studies on the different periodic growth stages of fruit development and correlation with vegetative growth parameters in Nectarine. *Ecology, Environment and Conservation* 22:275-280.
- Kumar V, Rana VS and Rehalia AS. 2014. Assessment of Leaf nutrient status of July Elberta peach (*Prunus persica* (L) Batsch) orchards. *Annals of Biology* 30(1):146-149.

Awards & Recognitions

- Young Scientist Award -2017 conferred by Science & Technology Conference on Doubling farmers Income for sustainable and harmonious agriculture w.e.f. September 9-10, 2017.
- Young Scientist Award -2016 conferred by JMD Educational Society ETAH, UP, India in National conference on Agricultural and Rural Innovations for sustainable empowerment held at Warangal, Telangana w.e.f. May 21-22, 2016.
- Best Oral Presentation Award-2022 conferred on 5th National Conference and Webinar on Doubling Farmers Income for Sustainable & Harmonious Agriculture held at KNIPSS, Sultanpur, UP w.e.f. June 11-12, 2022