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Ongoing Research Projects

- Survey, ex-situ selection, introduction and on farm demonstration of wild, underutilized fruit and vegetables for crop diversification under changing climate in Himachal Pradesh funded by DEST HP for Rs. 9.89 lakhs from 2022 to 2024 (Principal Investigator)
- Diversification of fruit farming through cultivation of potential underutilized fruits in low and foothills of Himachal Pradesh funded by DST New Delhi for Rs. 45 lakhs from 2019 to 2023 (Co-Principal Investigator)
- Development of package of practices for subtropical fruit crops (CS04 package) under HPSHIVA funded by Department of Horticulture HP for 66.5 lakhs from 2022 to 2023 (Co-Principal Investigator)
- Development of cost-effective micro propagation technique of commercial Citrus rootstock Rangpur lime (*Citrus limonia Osbeck*) funded by RKVY, GOI for Rs. 55 lakhs from 2021 to 2023 (Co-Principal Investigator)
- Development of fruit-based crop modules and production of feathered plants to generate technical know-how for extension of area under fruits in frost and non- frost subtropics of Himachal Pradesh funded by RKVY, GOI for Rs. 148 lakhs from 2021 to 2023 (Co-Principal Investigator)
- All India Coordinated Research Project on Fruits funded by ICAR – long term (Co-Principal Investigator)

Important Research Publications

- Banyal, AK, Guleria, T, **Banyal, SK**, Thakur, A and Pathania, S. 2022. Standardization of Wedge Grafting Technique in Guava (*Psidium guajava* L.) under Subtropical Conditions of Himachal Pradesh. *International Journal of Bio-resource and Stress Management*, 2022; 13(3), 252-260. [HTTPS://DOI.ORG/10.23910/1.2022.2762](https://doi.org/10.23910/1.2022.2762).
- **Banyal, SK**, Shivandu, SK and Patial, U R. 2021. Effect of Pre-sowing Treatments on Vegetative Growth and Production of Graftable Rootstocks in Mango. *International Journal of Bio-resource and Stress Management* 2021, 12(6), 655-662. [HTTPS://DOI.ORG/10.23910/1.2021.2209b](https://doi.org/10.23910/1.2021.2209b)

- Singh, Harpreet and **Banyal, SK**. 2020. Effect of dormancy breaking chemicals, garlic extract and summer pruning on the cropping behaviour of low chilling peach (*Prunus persica* L. Batsch). *Journal of Crop and Weed*, 16(2): 181-189
- **Banyal, SK** and Banyal, AK. 2019. Refinement of Propagation Techniques of Aonla (*Emblica officinalis* Gaertn.) in North Western Himalayan Region. *International Journal of Bio-resource and Stress Management*. 10(1): 87-91
- **Banyal, SK**, Sharma, Deepa and Jarial, Kumud. 2015. Effect of nitrogen fertigation on yield and fruit quality of low chilling peaches under subtropical conditions of Himachal Pradesh. *Indian Journal of Horticulture* 72(4): 457-460
- **Banyal, SK** and Sharma, D. 2015. Effect of hormonal treatment and mulching on fruit-drop and quality in mango. *J. Hort. Sciences* 10(1) : 102-106
- **Banyal, SK** and Sharma, SK. 2011. Effect of growth regulators on growth and harvest maturity in Kiwifruit (*Actinidia deliciosa*). *J. Hort. Sci.* 6(1): 25-28
- **Banyal, SK** and Rehalia AS. 2010. Fruit quality and water use efficiency as affected by various drip irrigation levels and rootstocks in apple. *Environment and ecology*. 28(1A) :413-417
- **Banyal, SK** and Sharma, SK. 2011. Effect of fertigation and rootstocks on yield and quality of apple under high density plantation. *Indian Journal of Horticulture* 68(3): 328-31
- **Banyal, SK**, Rehalia AS. 2008. Effect of drip irrigation on growth, cropping and yield of apple under sub-temperate conditions. *Indian Journal of Horticulture* 65 (3), 268-271

Books and manuals

- **Banyal, SK**; Banyal, AK; Sharma, SD and Sharma, Deepa. 2021. Uposhan phal paudhshala- sthapna, pravardhan avm prabandhan. Pawana Printers, Developers and Advertiser. Hamirpur, HP. 86p. ISBN:9789354572814
- Sharma, SD; Sharma, VK; **Banyal, SK**; Banyal, AK; Rana, V; Pandey, V; Yadav, A; Jarial, K and Sharma, R. 2021. Himachal Pradesh mein aam ki kheti. Dr. YSPUH&F, Nauni, Solan, HP. 84p. ISBN:9778194566441
- Sharma, Deepa; Chauhan, Aanchal and **Banyal, SK**. 2021. Pyaj Utpadan. Sunny Copy House. Hamirpur, HP. 55p. ISBN:9780691120218
- Sharma, SD; Rana, VK; Sharma, R; Sharma, VK; **Banyal, SK**; Banyal, AK; and Jarial, K. 2023. Farmer's training manual under HPSHIVA. Dr. YSP University of

Horticulture and Forestry, Solan. 116p.

- Sharma, D; **Banyal, SK**; Sharma, SD; and Sharma, PP. 2022. Peoples Biodiversity Register of District Chamba, Himachal Pradesh. Surindera Enterprises, Hamirpur. 310p ISBN: 9789356363182
- Sharma, D; Sharma, K; **Banyal, SK**; Sharma, D; Bhardwaj, R and Salwan, R. 2022. Peoples Biodiversity Register of District Hamirpur, Himachal Pradesh. Surindera Enterprises, Hamirpur. 252p ISBN: 9789356359352
- Sharma, D; Sharma, K; **Banyal, SK**; Sharma, D; Bhardwaj, R and Salwan, R. 2022. Peoples Biodiversity Register of District Una, Himachal Pradesh. Surindera Enterprises, Hamirpur. 247p ISBN: 9789356363717
- Sharma, D; Sharma, K; **Banyal, SK**; Sharma, D; Bhardwaj, R and Salwan, R. 2022. Peoples Biodiversity Register of District Bilaspur, Himachal Pradesh. Surindera Enterprises, Hamirpur. 258p ISBN: 9789356363182

Awards & Recognitions

- Received **best paper award** in 9thNational Seminar - on "Doubling Farmers Income by 2022: Challenges, Opportunities and Way Forward" at Career Point University, Bhoranj, Hamirpur w.e.f. February 15-17, 2020.