

## Dr Ajay Kumar Banyal

Associate Professor

Specialization: Plant Propagation of subtropical and temperate fruits,

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## Ongoing Research Projects

- All India Coordinated Research Project (Fruits) funded by ICAR for long term (since 2018 onward) as Co-PI
- Consultant's service for Preparation of Package of Practices (CS04 package) for Himachal Pradesh Subtropical Horticulture, Irrigation and Value Addition (HPSHIVA) Project of Department of Horticulture, HP and funded by ADB for 60.0 lakhs from 2021-2023 as Co-PI
- Survey, *ex-situ* selection, introduction and on farm demonstration of wild, underutilized fruit and vegetables for crop diversification under changing climate in Himachal Pradesh as Co-PI

## Important Research Publications

- Banyal AK and Rangra AK. 2011. Response of yield and quality attributes of litchi cultivar Dehradun to soil and foliar application of Boron. *Journal of Hill Agriculture* 2(1):33-37 (NAAS Rating:5.04)
- Banyal Ajay Kumar, Sharma Uday and Thakur Jitender. 2013. Effect of different chemicals and mulch materials on fruit quality and productivity of litchi cv. Dehradun. *Progressive Research: An International Journal* 8 (2): 254-256. (NAAS Rating: 3.84)
- Banyal Ajay Kumar, Sharma Uday and Thakur Jitender. 2013. Impact of pruning intensities on growth and yield of apple cv. Royal Delicious in Chamba district of Himachal Pradesh. *Progressive Research: An International Journal* 8 (2): 321-322. (NAAS Rating: 3.84)
- Banyal Ajay Kumar, Sharma Uday and Thakur Jitender. 2013. Enhancement of apple productivity by improved pollination and fruit set approaches *Progressive Research: An International Journal* 8 (Special) : 105-108. (NAAS Rating: 3.84)
- Banyal Ajay Kumar, Raina Rajeev and Kaler Rajesh Kumar. 2013. Improvement in fruit set, retention, weight and yield of apple cv Royal Delicious through foliar

application of plant growth regulator. *Journal of Krishi Vigyan* **2**(1): 30-32 (NAAS Rating: 4.41)

- Banyal Ajay Kumar.2014. Effect of soil and foliar application of zinc on fruit set, fruit retention, fruit drop, fruit cracking, quality and yield of litchi cv. Dehradun. *Progressive Research: An International Journal* **9**(1):50-53. (NAAS Rating:3.84)
- Kapoor, Renu; Sandal, Sanjeev Kumar and Banyal, Ajay.2017. Response of drip irrigation, fertigation and mulching in fruit crops for enhanced quality attributes and productivity—A review. *Progressive Research, An International Journal* **12**(1): 1-6. (NAAS Rating: 3.84)
- Banyal, Sanjeev Kumar and Banyal, Ajay Kumar. 2019. Refinement of Propagation Techniques of Aonla (*Embolica officinalis* Gaertn.) in North Western Himalayan Region. *International Journal of Bio-resource and Stress Management* **10**(1): 87-91. (NAAS Rating: 5.11)
- Banyal, Ajay Kumar and Banyal, Sanjeev Kumar. 2020. Forchlorfenuron (CPPU): A Promising Plant Growth Regulator Augments Fruit Size, Fruit Weight, Quality and Yield of Kiwifruit (*Actinidia deliciosa*) cv. Hayward. *International Journal of Current Microbiology and Applied Sciences* **9**(05): 2091-2101 (NAAS Rating: 5.14)
- Sharma R and Banyal AK. 2020. Effect of summer pruning intensities on growth, quality and yield of low chill peach (*Prunus persica* L. Batsch.) cv. Early Grande. *Journal of Crop and Weed* **16**(3): 210-215. (NAAS Rating: 5.46)
- Patial, Uday Raj, Banyal, SK, Banyal, Ajay and Shiv Kumar. 2020. Pruning for Winter Crop Production in High-Density Guava Plantations – A Review. *International Journal of Current Microbiology and Applied Sciences* **9**(5): 672-679 (NAAS Rating: 5.14)
- Banyal, Ajay Kumar, Guleria, Tarun, Banyal, Sanjeev Kumar, Thakur, Asha and Pathania, Sunita. 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. (NAAS Rating: 5.11)
- Banyal, Ajay Kumar, Guleria, Tarun and Banyal, Sanjeev Kumar. 2022. Improving Seed Germination and Seedling Growth of Guava under Protected Conditions by Pre-Sowing Chemical and Hormonal Seed Treatments. *Biological Forum – An International Journal* **14**(1): 151-157. (NAAS Rating: 5.11)

## **Books**

- Banyal, SK; Banyal, AK; Sharma, SD and Sharma. Deepa. 2021. Uposhan phal paudhshala- sthapna, pravardhan avm prabandhan. Pawana Printers, Developers and Advertiseris. Hamirpur, HP.86p.
- 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.