

Dr Anil Handa

Professor

Specialization: Plant Virology
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Ongoing Research Projects

- Genomics led improvement of biotic and abiotic stress tolerance in mustard rape for economic and environmental sustainability funded by BBSRC, UK and DBT, India for ₹ 71.73 Lakhs from September 2018 to September 2023 (Principal Investigator).
- Himachal Pradesh Horticulture Development Project (HPHDP)- Post Entry Quarantine funded by World Bank for ₹ 837.76 Lakhs from August 2016 to July 2024 (Dr Anil Handa).
- Creation of Smart Classrooms (Quality education in Horticulture and Forestry to generate human resource with entrepreneurial skills) funded by NAHEP, ICAR for ₹ 166.98 lakhs in year 2020.

Important Research Publications

- Robin, Rakesh Kumar and **Handa A.** 2022. Evidence for upholding the association of whitefly species *Bemisia tabaci* and *Trialeurodes vaporariorum* with tomato yellow leaf curl virus. *Plant Pathology Journal* **22**: 25-38.
- Karn M, Sharma SK, **Handa A**, Sharma A, Sharma S and Sharma U. 2022. Lytic bacteriophages in preventing the bacterial blight of pomegranate caused by *Xanthomonas axonopodis* pv. *punicae*. *Vegetos*. <https://doi.org/10.1007/s42535-022-00451-x>.
- Watpade S, Raigond B, Pramanic KKK, Sharma N, **Handa A** and Sharma, U. 2013. Simultaneous detection of apple chlorotic leaf spot virus and apple mosaic virus in crab apples and apple rootstocks by duplex RT-PCR. *Scientia Horticulturae* **164**: 88–93.
- Brakta A, Thakur PD and **Handa A.** 2013. First Report of Apple Top Working Disease Caused by Viruses (ASGV, ACLSV, and ASPV) in Apple in India. *Plant Disease* **97**(7): 1001.
- Sharma Neha, Bhardwaj SV, Jaryal Kumud, Thakur PD, Kaur R and **Handa A.** 2011. Comparative silico analysis of partial coat protein gene sequence of Zucchini yellow mosaic virus infecting summer squash (*Cucurbita pepo* L.) isolated from India. *Journal of Proteomics* **4**(3):68-73.
- Gadiou S, Kundu JK, Paunovic S, Garcia-Diez P, Komorowska B, Gospodaryk A, **Handa A**, Massart S, Birisik N, Thakur PD. and Polischuk V. 2010. Genetic diversity of flexiviruses infecting pome fruit trees. *Journal of Plant Pathology*: **92** (3): 685-691.
- Chandel V, Rana T, **Handa A**, Thakur PD, Hallan V and Zaidi A A. 2008. Incidence of *Prunus necrotic ringspot virus* on *Malus domestica* in India. *Journal of Phytopathology* **23** (12): 441-452.
- Rana T, Chandel V, Hallan V, Thakur PD, **Handa A** and Zaidi A.A. 2007. Molecular evidence of Apple chlorotic leaf spot virus in Himachal Pradesh. *Indian Journal of Virology* **67**(54): 448-457.
- **Handa A** and Bhardwaj SV. 1994. Comparative study of the use of alkaline phosphatase and penicillinase based direct antigen coating ELISA for the detection of a potyvirus from faba bean. *FABIS* **34**: 79-84.
- Dhanju KS, Chowfla SC and **Handa A.** 1995. Effect of barrier crops and spacing on the incidence of mosaic disease and yield of French bean. *Legume Research* **18** (2): 113-116.

Books

- Gautam, HR, Bharat NK, **Handa A** and Sharma SK. 2022. Novel Strategies in Plant Disease Diagnosis and Management. Neoti Book Agency Private Limited, New Delhi, p444.ISBN 978-81-952185-5-4.

Awards & Recognitions

- Visiting Professor at School of Life Sciences, University of Warwick, United Kingdom, March 2023.
- Honoured with Excellence in Service Award by Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan in 2019.
- Visiting Professor at Faculty of Horticulture, Mendel University of Agriculture and Forestry, Brno, Czech Republic in 2008.
- Awarded University Gold Medal and certificate of Honour for securing first position in the University for Ph. D. programme in 1995.