

Dr. Sumit Vashisth

Scientist

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Ongoing Research Projects

- ICAR-All India Network Project on Soil Arthropod Pests (Principal Investigator) volunteer centre at Dr YSP UHF Nauni (Solan), Himachal Pradesh.
- ICAR-All India Coordinated Research Project (AICRP) on Nematodes in Agriculture (Principal Investigator) volunteer centre at Dr YSP UHF Nauni (Solan), Himachal Pradesh.
- Management of root knot nematode under protected cultivation (Principal Investigator, Research and Development Grant, UHF, Nauni, Solan, Himachal Pradesh)

Important Research Publications

- Vashisth S, Joshi S, Singh SJ, Kumar P, Rathore MS, Verma S. 2025. New report of *Eulecanium tiliae* infestation in apple orchards of the Western Himalayan cold desert: morphological and molecular insights. *Applied Fruit Science* 67(41) <https://doi.org/10.1007/s10341-025-01262-5>
- Vashisth S, Kumar P, Chandel VGS, Kumar R, Verma SC, Chandel RS. 2024. Unraveling the enigma of root-knot nematodes: from origins to advanced management strategies in agriculture. *Planta* 260, 36 (2024). (<https://doi.org/10.1007/s00425-024-04464-5>)
- Vashisth S and Verma S. 2024. Influence of frontline demonstration of plant protection on the yield and quality of apple in dry temperate zone of Himachal Pradesh. *International Journal of Agriculture Extension and Social Development* 7(11): 36-40. <https://doi.org/10.33545/26180723.2024.v7.i11Sa.1312>
- Vashisth S, Jagdish J, Sharma SP and Sharma HC. 2022. Biochemical mechanisms of induced resistance to *Chilo partellus* in sorghum. *International Journal of Pest Management* (<https://doi.org/DOI:10.1080/09670874.2022.2036863>)
- Vashisth S, Chandel YS, Chandel RS and Kalia M. 2022. Pathogenic and reproductive potential of three Himalayan EPN strains (Nematoda: Heterorhabditidae) and the commercial strain of *Heterorhabditis indica* against *Spodoptera litura*. *Russian Journal of Nematology* 30(1): 1-9. (<https://doi.org/10.24412/0869-6918-2022-1-1-9>)
- Jaba J, Pavani T, Vashisth S, Mishra SP and Sharma HC. 2022. Assessing the impact of varietal resistance and planting dates on pest spectrum in chickpea. *Acta Agriculturae Slovenica* 118(1): 1-15 (<https://doi.org/10.14720/aas.2022.118.1.2096>)
- Vashisth S, Chandel YS and Chandel RS. 2019. Comparative efficacy of indigenous heterorhabditid nematodes from north western Himalaya and *Heterorhabditis*

indica (Poinar, Karunakar & David) against the larvae of *Helicoverpa armigera* (Hubner). *International Journal of Pest Management* 65(1), 16-22. (<https://doi.org/10.1080/09670874.2018.1453099>)

- Vashisth S, Chandel YS and Chandel RS. 2018. Biological control potential of North West Himalayan strains of heterorhabditid nematodes against turnip moth, *Agrotis segetum* (Denis & Schifferrmuller). *Egyptian Journal of Biological Pest Control* 28(1): 37. (<https://doi.org/10.1186/s41938-018-0040-5>)
- Vashisth S, Chandel YS, Chandel RS and Sharma PK. 2017. Pathogenicity of Heterorhabditid nematodes isolated from northwestern Himalayas, India against the larvae of *Plutella xylostella* (L.) (Lepidoptera: Plutellidae). *Annales de la Société Entomologique de France* 53(3): 204-210. (<http://dx.doi.org/10.1080/00379271.2017.1324320>)
- Vashisth S, Chandel YS and Kumar S. 2013. Observations on insect-pest problems of polyhouse crops in Himachal Pradesh. *Journal of Entomological Research* 37(3):253-258.
- Vashisth S and Chandel YS. 2013. Morphometrics of *Spodoptera litura* Fab.) on tomato. *Indian Journal of Plant Protection* 41(2): 175-177.
- Chandel YS, Kumar S, Jain RK and Vashisth S. 2010. An analysis of nematode problem in greenhouse cultivation in Himachal Pradesh and avoidable losses due to *Meloidogyne incognita* in tomato. *Indian Journal of Nematology* 40(2): 198-203.

Books

- Chandel R and Vashisth S. 2020. Pests of Fruit and Plantation Crops (Biology, Economic Importance and Control). Kalyani Publishers. p230.
- Daroch RK, Verma SC, Singh J, Chandel VGS and Vashisth S. 2024. उच्च घनत्व सेब बागवानी में कीट प्रबंधन। कीट विज्ञान विभाग, डॉ. यशवन्त सिंह परमार औद्योगिकी एवं वानिकी विश्वविद्यालय नौणी, जिला- सोलन 173 230 (हिमाचल प्रदेश) भारत (पृ 24+8)

Awards & Recognitions

- Awarded International Exposure / Overseas Training as Visiting Scientist at Plant Protection Centre, Agricultural Research Organization, The Volcani Centre, Israel from 21st February to 30th March, 2023 under Faculty Overseas Training Program of Institutional Development Plan (IDP)– NAHEP, ICAR, New Delhi.
- SCIENCE & ENGINEERING RESEARCH BOARD (SERB), Department of Science and Technology, Government of India - Young Scientist Fellowship Award 2015-2018.
- Awarded Bir Singh Aasi Memorial All India Best Publication Award 2016 to the publication, “Chandel RS, Pathania M, Verma KS, Bhattacharyya B, Vashisth S and Kumar V. 2015. The ecology and control of potato whitegrubs of India. *Potato Research* 58(2): 147-164.