Dr Sumit Vashisth
Subject Matter Specialist

Specialization: Economic Entomology/ Nematology
Contact: +91 01792 252240
Mobile: 9418355909
E.mail: vashisths@yspuniversity.ac.in; sumitvashisth_hpau@yahoo.co.in

Ongoing Research Projects

- All India Co-ordinated Research Project on Nematodes in Agriculture funded by ICAR for ₹ 4 lakh (Principal Investigator).

Important Research Publications

- 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 *Heterorhabdtis 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* (https://doi.org/10.14720/aas.2022.118.1.2096) **118**(1): 1-15.
- Jaba J, Vashisth S, Golla S and Mishra SP. 2022. Effect of different sowing times on major insect pests and host plant resistance to pod borer *Helicoverpa armigera* in pigeonpea (*Cajanus cajan* (L.) Millsp.). *Pakistan Journal of Zoology* (https://dx.doi.org/10.17582/journal.pjz/20210320070322)
- Vashisth S, Chandel YS and Chandel R.S. 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 & Schiffermuller). *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. ISBN-10: 8164845701

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 (Independent Research Project - Principal Investigator).
- Awarded *Bir Singh Aasi* Memorial **All India Best Publication Award** 2016 to the publication, "Chandel RS, Pathania M, Verma KS, Bhatacharyya B, Vashisth S and Kumar V. 2015. The ecology and control of potato white grubs of India.