

CURRICULUM VITAE

Dr. Harpreet Singh

Entomologist

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EDUCATIONAL QUALIFICATIONS

1. Ph.D. Entomology (2021-2024), Punjab Agricultural University, Ludhiana

Major: Entomology, Minor: Plant Pathology, OCPA: 8.21/10

Thesis title: Bases of resistance in wild wheat (*Aegilops tauschii* Coss.) against bird cherry oat aphid (*Rhopalosiphum padi* L.)

2. M.Sc. Ag. Entomology (2018-2020), Lovely Professional University, Phagwara

Major: Entomology, Minor: Plant Pathology, CGPA: 8.11/10

Thesis title: Impact of insect pollinators on mustard crop (*Brassica juncea* Linn.) productivity in North-West region of Punjab

3. B.Sc. Ag. (Integrated) (2012-2018), Guru Kashi University, Talwandi Sabo

Elective: Crop Protection, CGPA: 8.05/10

4. Matriculation (2012), CBSE, Guru Ram Das Public School, Lehra Mohabbat, Bathinda

Subjects: English, Punjabi, Hindi, Social Science, Mathematics

CGPA: 7.80/10

ACHIEVEMENTS

- Qualified **ASRB-NET Entomology** 2021
- **Awarded with University Academic Honour** for standing first in the merit in M.Sc. Ag. Entomology
- Got **1st prize** in Oral Poster Presentation at National Symposium on Smart and Sustainable Agriculture (AGRICON-2019), Lovely Professional University, Phagwara
- Got **3rd prize** in Project Expo 2019, Lovely Professional University, Phagwara
- Successfully completed a six-week online course on Diagnosis of crop and stored grain pests and their management with **distinction** from **agMOOCs**
- Successfully completed eight-week online course on Integrated Pest Management from **agMOOCs**

AREA OF INTEREST

- Host Plant Resistance
- Insect Toxicology
- Integrated Pest Management
- Insect Physiology
- Apiculture

SKILLS

- Screening and identification of novel insect-pest resistant gene sources
- Field and lab trials execution for insecticides against insect-pests
- In-depth knowledge of insect physiology and pesticide modes of action
- Skilled in analytical methods like HPLC, GC-MS and LC-MS to quantify pesticides
- Experienced in carrying out Genome-wide association studies (GWAS)
- Trained in carrying out various biochemical analysis
- Data analysis skills - statistical software like MS Excel, R, GraphPad Prism

WORK EXPERIENCE

Group Leader during Rural Awareness Work Experience Programme (RAWEP), Guru Kashi University, 2018

RESEARCH/REVIEW PAPERS

1. Devi R K, Kumari S, **Sekhon H**, Chamroy T and Chattopadhyay S B (2019). Mutation Frequency, Efficiency and Effectiveness of Gamma Rays and Ethyl Methane Sulphonate in Okra. *Plant Archives*, 19:2, 2785-2791 (NAAS: 4.73)
2. **Sekhon H**, Devi Y K, Nath R and Kaur S (2020). Impact of different modes of pollination on the productivity of Indian mustard (*Brassica Juncea* L.) in Punjab. *Journal of Entomology and Zoology Studies*, 8:4, 1515-1518. (NAAS: 5.53)
3. Kaur S, Nath R, Deep G and **Singh H** (2020). Impact of type and extent of sugars on the oral toxicity of imidacloprid on honeybees, *Apis mellifera* (Linn.). *Journal of Entomological Research*, 44:4, 595-599. (NAAS: 5.89)
4. Nath R, **Singh H** and Mukherjee S (2022). Insect Pollinators Decline: An Emerging Concern of Anthropocene Epoch. *Journal of Apicultural Research*. <http://doi.org/10.1080/00218839.2022.2088931> (NAAS: 8.67) (Review paper)
5. **Singh H**, Devi Y K, Nath R (2023). Foraging behavior of hive bees (*Apis mellifera* L.) in the northwest region of Punjab on Indian mustard (*Brassica juncea* L.). *Journal of Entomological Research*. (NAAS: 5.89)
6. Singh B and **Singh H** (2023). Relative susceptibility of advanced breeding lines to major insect pests of wheat (*Triticum aestivum* L.). *Journal of Cereal Research*, 15:2, 261-272 (NAAS: 4.57)

POPULAR ARTICLES

1. **Sekhon Harpreet** and Nath R (2019). Pesticides and their threats to insect pollinators. *Agrobios Newsletter* Vol. 18, Issue 6, Page No. 84
2. **Sekhon Harpreet** and Nath R (2019). Colony Collapse Disorder (CCD). *Agrobios Newsletter* Vol. 18, Issue 7, Page No. 81
3. **Sekhon Harpreet** and Nath R (2020). The sterile insect technique. *Agrobios Newsletter* Vol. 19, Issue: 1, Page No. 125

AWARDS

- **Young Professional Award, 2023** by Society of Agricultural Research and Social Development (SARSD), New Delhi at 6th International conference on Advances in Agriculture Technology and Allied Sciences

CONFERENCES

- Attended **India International Conference on Crop Protection**, IARI, New Delhi, 2018
- Participated in **106th Indian Science Congress**, Lovely Professional University, Phagwara, 2019

TRAINING

- Participated in virtual training program on **QTL analysis and genome-wide association studies** under DBT funded project during February 15-24, 2022 at Division of Agricultural Bioinformatics, ICAR-Indian Agricultural Statistics Research Institute, Library Avenue, PUSA, New Delhi-12
- Participated in the NAHEP sponsored 12 days Short Training on “**Skill in Handling and Management of Agrochemicals and their impact on Health and Environment after 75 years of Independence**” organized by Department of Entomology in collaboration with Department of Biochemistry & Agricultural Chemistry, Assam Agricultural University, Jorhat from 8th to 19th February, 2022 via virtual mode

LINGUISTIC ABILITIES (FULLY PROFICIENT)

- English
- Hindi
- Punjabi

REFERENCES

1. **Dr Beant Singh, Principal Entomologist (Wheat), Punjab Agricultural University, Ludhiana**
Contact: 99880-95878, beant19@pau.edu
2. **Dr Jawala Jindal, Principal Entomologist (Maize), Punjab Agricultural University, Ludhiana**
Contact: 99884-01521, jawalajindal@pau.edu
3. **Dr. Ankush Raut, Associate Professor and Head, Department of Entomology, Lovely Professional University, Phagwara**
Contact: 97796-13278, ankushento@gmail.com

DECLARATION

I hereby declare that the details furnished above are true and correct.

Harpreet Singh