

SUKHPREET KAUR BRAR

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QUALIFICATIONS

Ph.D. Entomology (minor in Plant Pathology)

(Pre final thesis submitted)

Punjab Agricultural University, Ludhiana

OCA: 7.90/10

Dissertation Topic: – Biology Of *Bemisia Tabaci* (Gennadius) and Management of Sucking Insect Pests in *Kharif* Mungbean with Botanicals

M.Sc. Entomology (minor in Plant Pathology)

2021

Punjab Agricultural University, Ludhiana, India

OCA: 7.46/10

Thesis Topic: Assessment of Losses and Potential of Sticky Traps for The Management of Sucking Insect Pests in Bt Cotton

B.Sc. Agriculture (Plant protection)

2017

Punjab Agricultural University, Ludhiana, India

OCA: 6.86/10

RESEARCH INTERESTS

- Insect behavior and communication
- Evolution and diversity of Insects
- Insect Ecology
- Physiology and Morphology of insects
- Economic Entomology

SKILLS

- Practical training on diagnosis of major diseases, insect pests of field crops and horticultural crops and their management
- Adept in emasculation, crossing and tagging of crops such as Wheat, Rice, Maize, Cotton, and Oats
- Experience in Field layout and assigning various designs such as RBD for field crops
- Adept in Vegetative Propagation methods like grafting, budding, layering and cutting under both field and protected conditions
- Virtuoso in identification, collection, pinning and labeling of Insect-pest and Diseases of various field and Horticultural crops
- Practical knowledge in transplanting of vegetable crops, designing layout for kitchen garden, intercultural operations in vegetable crops
- Practical knowledge for soil testing (bulk density, particle density, macro nutrients availability etc.), soil sampling, nutrient availability from fertilizers, vermicomposting
- Adept in operating the wheat thresher, tractor, straw reaper, maize Sheller, power sprayer
- Practical knowledge in processing and post-harvest handling of horticultural produce
- Experience of growing vegetable crops on soilless growing media, vegetable forcing, nursery growing for vegetable crops

KEY PROJECTS, TRAININGS and CONFERENCES

- Industrial training related to agriculture and allied subjects at Department of plant pathology, PAU Ludhiana formation of bio-control agent (*Trichoderma harzianum*)
- Industrial training related to chemicals at (crop chemicals) factory Kotkapura, Punjab
- Rural Agricultural Work Experience (RAWE) in Agri-Production
- International agriculture Training Program on Ministry of Agriculture & Farmers Welfare Sponsored Agriculture Scheme & Indian Agriculture Vision -2050
- Indian ecological society international conference, Symposium-workshop on agriculture, climate changes, and energy transitions: Building capacity to maintain yields of innovative agrifood systems
- 7 Days online training on “Advanced plant protection strategies: tackling pests, diseases and nematodes (APPS-2024) organized by society for the advancement of agricultural, horticultural and allied science (SAAHAS), Haryana.

PUBLICATIONS

- **Brar, S. K.**, and Bhullar, H. S. (2023). Assessment of Yield Losses Due to Sucking Pests in BT Cotton. *Indian Journal of Entomology*, 85(4), 1043–1046. <https://doi.org/10.55446/IJE.2022.158>
- **Brar, S. K** and Sandhu I.P.S (2024) Influence of weather parameters on seasonal incidence of *Bemisia tabaci* (Gennadius) in *kharif* mungbean. IESIC-2024 12-15 November 2024 (Published)
- **Brar, S. K.**, Bhullar, H. S. & Rani, N (2023) The effect of different colours and shapes of sticky traps against sucking insect pest in Bt cotton (*Indian journal of entomology*) (Accepted)
- **Brar, S. K.**, Sandhu, I.P.S (2024) Biology of whitefly, *Bemisia tabaci* (Gennadius) on *kharif* mungbean. (*Agricultural Research Journal*) (Submitted)
- **Brar, S. K.**, Sandhu, I.P.S (2024) Seasonal Incidence of thrips (*Megalurothrips usitatus*) and pod bug (*Clavigralla gibbosa*) on *kharif* mungbean and their correlation with weather parameters (*Indian Journal of Ecology*) (Submitted)
- Rani. N., Sandhu, I.P.S., Cheema, R.S, **Brar, S.K** (2024) Assessing Host Plant Suitability for Development of *Spodoptera litura* (Fabricius). (*Austral Entomology*) (Submitted)

ACHIEVEMENTS

- Punjab State Marketing Board Scholarship 2011-2015
- Complete one year training under National Sports Organization
- 1st position in high jump and long jump in PAU Annual Athletic Meet during 2011-12 and 2012-13
- 3rd position in 800 M and 400 M in PAU Annual Athletic Meet during 2011-12 and 2013-14
- Participated in North zone Intervarsity Basketball Tournament held at Kurkshetra University, Kurkshetra during 2011-12
- Participated in North zone Intervarsity Basketball Tournament held at DCRUST, Murthal (Sonipat) 2012-13
- Participated in poster presentation entitled “Influence of weather parameters on seasonal incidence of *Bemisia Tabaci* in *kharif* mungbean” in Indian ecological society international conference 2024 (IESIC-2024)
- Participated in abstract entitled “Efficacy of botanicals against whitefly, *Bemisia tabaci* of mungbean in 2nd International agriculture conference on “Natural farming innovations: enhancing soil health and seed quality with AI and drones for greener agricultural future”

COMPETENCIES

Languages:
Competencies:

English (Proficient), Punjabi (Native) and Hindi (Native)
Meticulous, Scientific inquiry, Team work, Coordination

REFERENCES

Dr. Inderpal Singh Sandhu Principal Entomologist Department of Entomology PAU, Ludhiana inderpalsandhu@pau.edu +91-98769-51020	Dr. Harpal Singh Bhullar Entomologist Department of vegetable science, PAU, Ludhiana harpalsinghbhullar@pau.edu +91-93566-62522	Dr. Vijay Kumar Principal Entomologist Department of Entomology, PAU, Ludhiana Vijay_ento@pau.edu +91-97794-51214
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