

Dr SUKHPREET KAUR

MCB Z- 5 00314 Guru Gobind Singh Nagar, Bathinda
Punjab, India-151001

Ph: +91-6283506057
e-mail: sukhpreetbrar652@gmail.com

QUALIFICATIONS

Ph.D. Entomology (Minor: Plant Pathology)

2025

Punjab Agricultural University, Ludhiana, India
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: 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 Hons(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

EXPERIENCE

Assistant professor, MRSPTU, Bathinda

(Jan 2025- Till date)

SKILLS

- Practical training on diagnosis of major diseases, insect pests of field crops and horticultural crops and their management
- Adaptive 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
- Adaptive in Vegetative Propagation methods like grafting, budding, layering and cutting under both field and protected conditions
- Experienced 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
- Experienced 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

TRAININGS AND WORKSHOP:

- Industrial training related to agriculture and allied subjects at Department of plant pathology, PAU Ludhiana formation of bio-control agent (*Trichoderma harzianum*).
- 4 week Industrial training course (ELP 402) related to chemicals at (crop chemicals) factory Kotkapura, Punjab (24-4-2017 to 22-5-2017).
- 6th month Rural Agricultural Work Experience (RAWE) in Agri-Production
- 30 day International agriculture Training Program on Ministry of Agriculture & Farmers Welfare Sponsored Agriculture Scheme & Indian Agriculture Vision -2050 (1-30 April, 2024).
- 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 (25th to 31 August, 2024).
- Participated in the workshop on intellectual property rights (IPR) is being organized in partnership with the intellectual property facilitation centre (IPFC), Ludhiana sponsored by development commissioner (MSME). Ministry of MSME, GOI and SASE, MRSPTU, Bathinda on 16 Jan, 2026
- Participated in workshop on genome editing in agriculture: science, potential and policies organized by Pau, Ludhiana collaborate with biotech consortium India limited, New Delhi and national agri-biotechnology institute, Mohali on May 11, 2022.
- 30 day international training-cum-summer school on “Natural farming and emerging technologies (AI, Drones, IoT): Advancing sustainable agriculture” held from (16 August to 16 September 2025).
- Participated in the online workshop on “Panch Kosh: Theory to Practice Application in Teaching” organized by guru kasha university Talwandi Saboo (Bathinda) on 16 January 2026.

FDP PROGRAMME:

- Faculty development program on AI for academic research in higher education held on September 1-5, 2025 at GKU Talwandi saboo in collaborate with association of Indian universities (AIU)-AADC.
- Participated on 7 Day Faculty Development Programme cum training on “Faculty Upgradation and Skill Enhancement for Researchers and Educators- FUTURE 2026” from (14-20 April 2026).
- Participated and successfully completed 3 day Face to Face FDP on the theme “Inculcating universal human values in technical education” organized by All India Council for Technical Education (AICTE) at MRSPTU, Bathinda from (19 to 21 February 2026).
- 5 Day International faculty development program on research methodology & statistical techniques, held from (12th to 16th July 2026).

MEMBERSHIPS:

- Member of Entomological Society of India ESI Membership ID: ESI-A-1368
- Member of Hindustan Agricultural Research & Welfare Society, Agra Membership ID: HARWS/AM/174

CONVENER AND APPRECIATION

- Appreciation certificate support as **organizing committee member** on the occasion of 30 day **international agriculture training** cum summer school on “Natural farming and emerging

technologies (AI, Drones, IoT): Advancing sustainable agriculture through initiatives of the ministry of agriculture & farmers welfare, Government of India held from 16 August to 16 September 2025

- Certificate of Recognition support as **co- convenor** on the occasion of **International Conference On Agriculture Resurgence** 13-15 December, 2025
- Certificate of Recognition support as **Convenor** on the occasion of **30- Day international agriculture winter school training** cum certificate program on ICAR& Ministry of Agriculture Framework for Sustainable and Climate- Resilient Agriculture Natural Farming and Allied Sciences 1-30 April 2026

INTERNATIONAL CONFERENCES:

- Participated and **poster presentation** on “To study the effect of temperature change and CO₂ concentration on development of *Bemisia tabaci*” under theme “International Conference on Precision Mechanical and Agriculture Solutions (ICPMAS-2026) at MRSPTU, Bathinda on 16-17 April, 2026.
- Participated and **oral paper presentation** entitled “Influence of Weather Parameters on population of whitefly, *Bemisia tabaci* and leafhopper, *Empoasca* sp. in *kharif* mungbean” in the 12th International conference on “Emerging Issues in Agricultural, Food Technology, Biological & Applied Sciences for Global Development (EIAFTBASGD-2025)” held on November 15-17, 2025 at MPUAT, Udaipur, Rajasthan, India.
- International conference on sustainable environment, climate resilience and green innovations (**SECRGI 2026**) jointly organized by (BSAEU), Kolkata and (SAAST) Odisha on 20-21 June, 2026.
- 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 on “Transforming Agrifood Systems in the Face of Climate Changes and Energy Transitions” (IESIC-2024) held at Punjab Agricultural University, Ludhiana November 12-15, 2024.
- 2nd international conference on “Frontiers in Science & Technology for Agricultural Transformation (FSTAT-2025) participated and **oral presentation** on “Impact of Agro-Climatic Factors on Infestation Dynamics of whitefly (*Bemisia tabaci*) and leafhopper in *kharif* Mungbean” 25-26 September, 2025.
- 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” November 3-5, 2024.

AWARDS / ACHIEVEMENTS:

- **Best poster award** in “International Conference on Precision Mechanical and Agriculture Solutions (ICPMAS-2026) at MRSPTU, Bathinda on 16-17 April, 2026
- Punjab state agricultural marketing board **scholarship** throughout degree programme August 2011 to June 2017

- **One year training** completion under National Sports Organization (**NSO**)
- **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

BOOK PUBLICATION/ BOOK CHAPTER:

- One book publication practical manual “**Fundamentals of Entomology**” for B.Sc (Hons.) Agriculture students with ISBN “978-93-5829-028-8” Certificate ID BHP/2026/051
- One book chapter “ **Climate- Smart Agriculture and Resilient Food Systems: Pathways Toward Sustainable Production in a Changing Climate**” accepted for publication upcoming edited book current trends in Agriculture and Allied Sciences (volume 7)

SYMPOSIUMS AND SEMINAR:

- Indian ecological society international conference 2024, **Symposium-workshop** on agriculture, climate changes, and energy transitions: Building capacity to maintain yields of innovative agrifood systems November 13,2024 Punjab Agricultural University, Ludhiana
- National Symposium on Technological Advancements: Emerging Trends in Entomology (ESI-ETE-2025) held at Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Srinagar from 8-9 October, 2025 **RAPID VIRTUAL ORAL presentation** entitled Eco-Friendly Formulations Against Pod Bug (*Calvigralla Gibbosa*) in *Kharif* Mungbean in the session
- Participated in the Indian council of social science research – North Western Regional Centre (ICSSR-NWRC) sponsored **National Seminar** on “ **Strengthening farmer producer organizations and on- farm processing for sustainable rural development: A step towards Viksit Bharat 2047**” held on 24 March 2026 at Central University of Punjab Gudda, Bathinda, Punjab

NEWSPAPER ARTICLE:

- ਗਰਮੀਆਂ 'ਚ ਸ਼ਹਿਦ ਦੀਆਂ ਮੱਖੀਆਂ ਲਈ ਬਨਸਪਤੀ ਅਤੇ ਜੀਵ ਜੰਤੂ (Ajit Newspaper) (21/7/26)
- ਗਰਮੀਆਂ 'ਚ ਸ਼ਹਿਦ ਦੀਆਂ ਮੱਖੀਆਂ ਪਾਲਣ ਨੂੰ ਸਫਲ ਬਣਾਉਣ ਦੇ ਢੰਗ (Ajit Newspaper) (5/5/26)

PUBLICATIONS:

International journal

- **Brar, Sukhpreet Kaur** and Sandhu, Inderpal Singh (2026). Influence of weather parameters on population of whitefly, *Bemisia tabaci* and Leafhopper, *Empoasca* sp. in *Kharif* mungbean. Internat. J. agric. Sci., 22 (1): 63-66, DOI:10.15740/HAS/IJAS/22.1/ 000-000. Copyright@2026: Hind Agri-Horticultural Society.

- **Brar, Sukhpreet Kaur** and Sandhu, Inderpal Singh (2026). Biology of whitefly, *Bemisia tabaci* (gennadius) on Kharif mungbean. Internat. J. agric. Sci., 22 (1): 76-80, DOI:10.15740/HAS/IJAS/22.1/000-000. Copyright@2026: Hind Agri-Horticultural Society.
- **Brar, Sukhpreet Kaur** and Sandhu, Inderpal Singh (2026) Evaluation of Plant Based Products for the Management of Whitefly, *Bemisia tabaci* (Gennadius) on kharif mungbean. International Journal of Tropical Insect Science (Under Review).

National journal

- **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.**, Sandhu, I.P.S (2025) Seasonal Incidence of thrips (*Megalurothrips usitatus*) and pod bug (*Clavigralla gibbosa*) on kharif mungbean in Tropical zone. *Indian Journal of Ecology*, 52(2), 389-393.
- **Brar, S. K.**, Bhullar, H. S., & Rani, N. (2025). Effect of Colours and Shapes of Sticky Traps on Sucking Insect Pests in BT Cotton. *Indian Journal of Entomology*, 442–447. <https://doi.org/10.55446/IJE.2025.2189>

International conference

- **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 Theme 1/A-1046(145) ISBN: 978-81-981919-9-1
- **Sukhpreet kaur Brar** and Inderpal Singh Sandhu (2025) Eco Friendly formulations against pod bug (*Clavigralla gibbosa*) in Kharif mungbean, National Symposium on Technological advancements: Emerging Trends in Entomology, Theme IV, ESI-ETE-2025 8-9 Oct 2025 ISBN: 9788199-273047
- **Sukhpreet kaur Brar** and Inderpal Singh Sandhu (2025) Impact of agro climatic factors on infestation dynamics of whitefly (*Bemisia tabaci*) and leafhopper (*Empoasca sp.*) in kharif mungbean. 25-26 september 2025 ISBN: 978-81-988269-7-8
- **Sukhpreet kaur** and Inderpal Singh Sandhu (2026) To study the effect of temperature change and CO₂ concentration on development of *Bemisia tabaci*. ICPMASAG-20: (184) ICPMAS-2026 (16th -17th April 2026) ISBN: 978-93-5635-722-8
- **Sukhpreet kaur Brar** (2026) Honey bee Pollination Challenges: Threats, Technological Interventions and Conservation Strategies. ICPMASMD-15: (802) ICPMAS-2026 (16th -17th April 2026) ISBN: 978-93-5635-722-8
- **Sukhpreet kaur Brar** Climate-Smart Farming :Reimagining Food Production For Warning World (SECRGI 2026) Publishing in (Agriculture and Allied Sciences Volume 7) (Accepted article)

COMPETENCIES

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

REFERENCES

Dr Manmeet Brar Bhullar Head, Department of Entomology, PAU, Ludhiana manmeet@pau.edu 9872971350	Dr Makhan Singh Bhullar Director of Extension Education, PAU, Ludhiana bhullarms@pau.edu 9872811350	Dr. Vijay Kumar Principal Entomologist Department of Entomology, PAU, Ludhiana Vijay_ento@pau.edu +91-97794-51214
--	---	---