

Dr. Tiyyabah Khan
(Gold Medalist)
Assistant Professor (BPS-19)
Department of Plant Pathology
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EDUCATION:

Degree Level	University	CGPA/ %age/ grade	Major Subjects
B.Sc. (Hons.)	Bahauddin Zakariya University (BZU), Multan	3.98/4.00 (89.63%) Distinction (2 nd Position)	Plant Pathology
M.Sc. (Hons.)/M.Phil.	University of the Punjab, Lahore	3.94/4.00 (89.54%) Gold Medal (1 st Position)	Plant Pathology
Ph.D.	University of the Punjab, Lahore	4.00/4.00	Plant Pathology

WORK/PROFESSIONAL EXPERIENCE: 09 year

RESEARCH INTERESTS:

My research program integrates plant pathology and entomology to address the challenge of insect-vectored plant diseases. My work spans three interconnected themes: 1) the fundamental biology of insect-pathogen-plant interactions; 2) the development and deployment of entomopathogenic microorganisms for insect pest management; and 3) the evaluation of integrated pest management (IPM) strategies, including the toxicology and environmental impact of pesticides. This multidisciplinary foundation drives my goal of creating robust and sustainable crop protection systems.

PUBLICATIONS (selected ten)

1. Khan, H. A. A., **Khan, T.**, & Iqbal, N. (2025). Sublethal and hormetic effects of the fungicide tebuconazol on the biology of a nontarget pest insect, *Musca domestica*. *Science of the Total Environment*, 973, 179155. **(Impact factor: 8.0)**
2. Khan, H. A. A., **Khan, T.**, & Iqbal, N. (2025). Biocontrol potential of isolates of *Aspergillus flavus* and *Aspergillus parasiticus* against *Rhizopertha dominica*, *Trogoderma granarium*, and *Tribolium castaneum*. *Journal of Stored Products Research*, 114, 102799. **(Impact factor: 2.8)**
3. Khan, H. A. A., **Khan, T.**, & Iqbal, N. (2024). Characterizing mode of inheritance of permethrin resistance in field strains of rice weevil *Sitophilus oryzae* (Linnaeus) from Pakistan. *Journal of Stored Products Research*, 109, 102422. **(Impact factor: 2.7)**
4. Khan, H. A. A., **Khan, T.**, Iqbal, N., Anwar, W., & Ali, M. (2024). Control efficacy of isolates of *Aspergillus nidulans* and *Aspergillus fumigatus* against three destructive insect pests of stored grain. *Journal of Stored Products Research*, 108, 102357. **(Impact factor: 2.7)**
5. **Khan, T.**, Khan, H. A. A., Haider, M. S., Anwar, W., & Akhter, A. (2023). Selection for resistance to pirimiphos-methyl, permethrin and spinosad in a field strain of *Sitophilus oryzae*: Resistance risk assessment, cross-resistance potential and synergism of insecticides. *Environmental Science and Pollution Research*, 30(11), 29921-29928. **(Impact factor: 5.8)**
6. **Khan, T.**, Khan, H. A. A., Anwar, W., Khan, M. R., & Umer, M. (2023). Natural occurrence of fungal species on the rice weevil, *Sitophilus oryzae* (Coleoptera: Curculionidae), in Punjab, Pakistan. *International Journal of Tropical Insect Science*, 43(5), 1741-1748. **(Impact factor: 1.51)**
7. Khan, H. A. A., & **Khan, T.** (2023). Efficacy of entomopathogenic fungi against three major stored insect pests, *Rhizopertha dominica*, *Sitophilus zeamais* and *Trogoderma granarium*. *Journal of Stored Products Research*, 104, 102188. **(Impact factor: 2.7)**
8. **Khan, T.**, Haider, M. S., & Khan, H. A. A. (2022). Resistance to grain protectants and synergism in Pakistani strains of *Sitophilus oryzae* (Coleoptera: Curculionidae). *Scientific Reports*, 12(1), 12401. **(Impact factor: 4.6)**
9. **Khan, T.**, Khan, H. A. A., Khan, M. R., Umer, M., Akhter, A., & Akram, W. (2022). Comparative evaluation of four agrochemicals against *Cryptolestes ferrugineus* and *Tribolium castaneum* along with subsequent infection inhibition of aflatoxigenic *Aspergillus spp.* in stored wheat. *Pak. J. Zool*, 54, 1637-1642. **(Impact factor: 0.59)**
10. **Khan T**, Shahid AA, Khan HAA. (2016). Could biorational insecticides be used in the management of aflatoxigenic *Aspergillus parasiticus* and its insect vectors in stored wheat?. *PeerJ* 4:e1665. doi: 10.7717/peerj.1665. (Impact Factor = 3.06)

BOOK CHAPTERS:

1. **Tiyyabah Khan**, Hafiz Azhar Ali Khan, Adnan Akhter, Waheed Anwar, Naeem Iqbal and Shakeel Ahmad. Insect-Borne Diseases of Mango – Handbook of Research on Mango Fruit. (2026) Apple Academic Press Inc.
2. Adnan Akhter, Muhammad Taqqi Abbas, Waheed Anwar, **Tiyyabah Khan** and Hafiz Azhar Ali Khan. Impact of Biochar on Plant Pathogen Control- Solid Carbon for Sustainable Agriculture. Bentham Science Publisher, (2024). <https://doi.org/10.2174/97898152380681240101>
3. Muhammad Saleem Haider, **Tiyyabah Khan** and Muhammad Khurshid. Molecular Plant Virology-Pathogen Resistance and Biodiversity in Agriculture. (2024) The Running Line LLC.