

Dr. M. TARIQ MAHMOOD, PhD (Genetics)

Assistant Professor

Department of Zoology

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WORK EXPERIENCE

• **Assistant Professor (December 2018 – Present)**

Department of Zoology, Cholistan University of Veterinary & Animal Sciences (CUVAS), Bahawalpur, Pakistan

Assistant Professor (October 2018 – December 2018)

Department of Zoology, Ghazi University, Dera Ghazi Khan, Pakistan

TECHNICAL SKILLS

- Background in quantitative genetics and Zoology.
- DNA Sequencing
- DNA Barcoding, Molecular Phylogenetics and Evolutionary Analysis

QUALIFICATIONS

Ph.D. (Sci.) (2015)– Massey University, New Zealand

Dissertation Title: Avian Raptor Evolution

(My study encompasses both Macro- and Micro-evolution with the help of mitogenomic data.)

Dissertation Co-Chairs: Dist. Prof. David Penny, Prof. Michael P. Wink, Assoc. Prof. Barbara Holland, Dr. Gillian Gibb

Post Grad. Cert. (2008-2009) - Massey University, New Zealand

M.Sc. Zoology (2004-2005), Bahauddin Zakariya University, Pakistan

B. Sc. Hons. Zoology (2001-2004) - Bahauddin Zakariya University, Pakistan

JOURNAL PUBLICATIONS

Mahmood, M.T., Mclenachan, P.A., Gibb, G.C., and Penny, D. 2014. Phylogenetic Position of Avian Nocturnal and Diurnal Raptors. *Genome Biology and Evolution*. 6(2) 326-332

Irfan, M., Kumar, S., Sultana, R., **Mahmood, M. T.**, & Niaz, K. (2025). COI-based DNA barcoding and genetic diversity analysis of *Euconocephalus pallidus* (Tettigoniidae: Orthoptera) from Bahawalpur, Pakistan.. *Plant Protection*, **9(3)**, 577–585.

Irfan, M., Sultana, R., **Mahmood, M. T.**, Niaz, K., & Kuma, S. (2025). Taxonomic and ecological observations on katydids (Conocephaline: Tettigonioidae) in the arid zones of Bahawalpur division, Punjab, Pakistan. *Plant Protection*, **9**(2), 403–415.

Khan, M. J., Sakhi, S., Azam, N., Ahmad, Z., Hadayat, N., Ahmad, B., Hussain, F., Shuaib, M., Khan, S., Hussain, F., Tahir, A.Q., Ali, B., **Mahmood, M.T.**, & Gaafar, A. R. Z. (2024). Effect of Chitosan and Gibberellic Acid on Fruit Yield and Production of Peach (*Prunus persica* L.). *Polish Journal of Environmental Studies*, *33*(1), 721-726.

Hakim, A., Srivastava, A.K., Hamza, A., Owais, M., Habib-ur-Rahman, M., Qadri, S., Qayyum, M.A., Khan, F.Z.A., **Mahmood, M.T.**, and Gaiser, T. (2025). Yolo-pest: an optimized YoloV8x for detection of small insect pests using smart traps. *Sci Rep* **15**, 14029
<https://doi.org/10.1038/s41598-025-97825-3>

Qazi, A. A., Ali, M., Jabeen, F., Iqbal, R., Iqbal, M. A., Latif, M., ... & Jalbani, S. (2022). Presence of selected organochlorine pesticides (OCPs) in sediments and biota of River Satluj, Pakistan: first report. *Brazilian Journal of Biology*, *83*, e243905.

Ali, S., Jalees, M. M., Ashraf, W., Sadia, M., Anwar, R., & Zafar, S. (2024). Emergence of extensive drug resistance typhoid in hospitalized COVID-19 patients in South Punjab, Pakistan. *J. Popul. Ther. Clin. Pharmacol*, *31*, 753-763.

Ahsan, M., Jalees, M. M., Ashraf, W., Ghafoor, A., **Mahmood, M. T.**, Saddique, F., Hussain, S. M., Aslam, B., Nawaz, Z., Shafqat, A., & Ali, S. (2024). Immunization potency and protective efficacy of a bivalent inactivated fowl cholera and avian influenza vaccine in poultry. *Journal of Population Therapeutics and Clinical Pharmacology*, *31*(7), 501–513.
<https://doi.org/10.53555/jptcp.v31i7.6973>

Anwar, F., Ullah, S., Aziz, A. U. R., Rehman, A. U., Khan, J., Tayyab, M., ... & **Mahmood, M. T.** (2022). Epidemiological and hematological investigation of dengue virus infection. *Microbiology and immunology*, *66*(9), 426-432.

Hakim, A., & **Mahmood, M. T.** (2021). Automated birdsong clustering and interactive visualization tool. *Pakistan Journal of Agricultural Sciences*, *58*(4), 1395.