

CURRICULUM VITAE

DR. AYESHA AIHETASHAM

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Professional summary

Dr. Ayesha Aihetasham (**HEC approved supervisor**), is a passionate and dedicated teacher with **26 years** of experience specializing in Zoology, including Insect Classification, Animal Behavior, Vector Biology, Medical Entomology, Apiculture, Biodiversity, Wildlife, and Microbiology. Continually self-developing to offer innovative and inspiring curriculum implementation and supervision, aiming for high-quality research results.

Work history

Assistant Professor (Ad-hoc) (BS-19) Institute of Zoology, University of the Punjab - Lahore, Pakistan	10/2021 - Current
Assistant Professor (TTS-19) University of the Punjab - Lahore, Pakistan	06/2009 - 10/2021
Lecturer (BS-18) University of the Punjab - Lahore, Pakistan	04/2004 - 06/2009
Lecturer (BS-17) College for Women University - Lahore, Pakistan	09/2003 - 05/2004
Lecturer (Contract) (BS-17) Government Degree College for Women - Pattoki, Punjab	09/2002 - 09/2003
Asst. Controller of Exams/lecturer (BS-17) Lahore College for Women - Lahore, Pakistan	06/2000 - 05/2001
Lecturer (Honorary) Lahore College for Women University - Lahore, Pakistan	10/1999 - 12/1999

Skills

RESEARCH THESIS SUPERVISION

PhD: awarded (7), submitted (4), ongoing (1)

MS/MPhil: awarded (52), ongoing (2)

BS/MSc: awarded (42), ongoing (2)

RESEARCH PROJECTS

University of the Punjab (12) PKR nearly 2 million

PUBLICATIONS

Total (84)

Published (79)

Under review (3)

Submitted (2)

BOOK PUBLISHED

Economic Zoology for BS

Education

PhD: Zoology University of the Punjab - Lahore - Studies on the Biology of <i>Heterotermes indicola</i> (Wasmann) Merit Scholarship Scheme for PhD studies in Science and Technology (200 Scholarships) was awarded for the completion of PhD from 2004 to 2008, Worth Rs. 815191/-	01/2008
MSc: Zoology University of the Punjab - Lahore - Gold Medalist 1. Dr. Muzaffar Ahmad Gold medal 2. Sir William Robert's Gold medal 3. University Gold medal.	09/1996 - 05/1999
BSc: Botany, Zoology and Chemistry Lahore College For Women, Lahore - Roll of Honor	09/1993 - 11/1995
FSc: Pre-medical Queen Mary College - Lahore - Roll of Honor	09/1991 - 09/1993

Publications

1. AIHETASHAM, A. AND AKHTAR, M.S., 2008. Swarming behaviour and alate sex ratio of *Heterotermes indicola* (Wasmann) (Isoptera: Rhinotermitidae). *Pakistan Journal of Zoology*, 40(2): 75-82. **(Impact factor 0.478, W category, HEC Recognized Journal)**
2. AIHETASHAM, A. AND IQBAL, S. 2012. Feeding preferences of *Microcerotermes championi* (Snyder) for different wooden blocks dried at different temperatures under forced and choice feeding conditions in laboratory and field. *Pakistan Journal of Zoology*, 44(4): 1137-1144. **(Impact factor 0.478, W category, HEC Recognized Journal)**
3. AKHTAR, MS., AIHETASHAM, A., SAEED M., AND ABBASS, G. 2012. *Aedes* survey following a Dengue outbreak in Lahore, Pakistan, 2011. *Dengue Bulletin*, 36:87-93. **(International)**
4. AKHTAR, MS., AIHETASHAM, A. IQTEDAR, M., BEGUM, N. AND AKHTAR, M. 2014. Dengue vectors survey at Punjab University, Lahore, Pakistan, January 2012-April 2014. *Dengue Bulletin*. 38:33-38. **(International)**
5. AIHETASHAM, A., UMER, M., AKHTAR, MS., DIN, MI AND RASIB, KZ.2015. Bioactivity of medicinal plants *Mentha arvensis* and *Peganum harmala* extracts against *Heterotermes indicola* (Wasmann) (Isoptera). *International Journal of Biosciences*, 7(5), 116-126. **(International)**
6. AIHETASHAM, A., QAYYUM, F. AND XAACEPH, M., 2015. Pathogenicity of *Aspergillus parasiticus* against *Coptotermes heimi* (Wasmann). *Punjab University Journal of Zoology*, 30 (2):51-55. **(HEC Recognized Journal, X category)**
7. RASIB, KZ &AIHETASHAM, A. 2016. Constituents and termiticide potential of some wood extracts against *Coptotermes heimi* (Wasmann) (Isoptera: Rhinotermitidae). *Turkish Journal of Entomology*, 40(2):165-174. **(Impact factor 0.375, W category, International)**
8. AIHETASHAM, A., NOOR-E-HIRA AND XAACEPH, M. 2016. Efficacy of seed extracts (*Mentha arvensis*, *Ocimum bacilicum*, *Psyllium ovata*, *Cichorium intybus*) against *Coptotermes heimi* (Wasmann) *Biologia* (PAKISTAN) 62 (1), 103-109. **(HEC recognized Journal, X category)**
9. BODLAH, I., BODLAH, M.A., NAEEM, M., KHALIQ, S. AND AIHETASHAM, A., 2016. First record of *Anisopteromalus calandrae* (Howard, 1881) (Hymenoptera: Chalcidoidea: Pteromalidae) as a potential bio-control agent of stored grain beans from Rawalpindi and Islamabad. *Asian Journal of Agricultural Biology*, 2016, 4(3): 73-76. **(HEC Recognized Journal, Y category)**
10. BODLAH, I., BODLAH, M.A., RASHEED, M.T. AKHTER, T., AIHETASHAM, A. AND YOUSAF, M., 2017. New distibutional records of Pysllid, *Trioza Feletecheri* Minor Crawford, 1912 and records of its first association with two ants's species in Pothwar. *Asian J. Agri & Biol.*, 5(1):1-6. **(HEC Recognized Z category, Y category)**
11. DIN, M.I., ARSHAD, F., RANI, A., AIHETASHAM, A., MUKHTAR, M. AND MEHMOOD, H.A., 2017. Single step green synthesis of stable copper oxide nanoparticles as efficient photo catalyst material. *Journal of Optoelectronics and Biomedical Materials*, 9(1): 41-48. **(Impact factor 0.390, W category, International)**
12. MAHMOOD, T., AKRIM, F., IRSHAD, N., HUSSAIN, R., FATIMA, H., ANDLEEB, S. AND AIHETASHAM, A., 2017. Distribution and illegal killing of the endangered Indian pangolin *Manis crassicaudata* on the Potohwar Plateau, Pakistan. *Oryx*, 1-6. **(Impact factor 2.05, W category, International)**
13. RASIB, K.Z., HIDAYAT, W. AND AIHETASHAM, A., 2017. Feeding preferences and control of a Pakistani termite *Odontotermes obesus* (Rambur) (Isoptera: Rhinotermitidae). *Annual Research & Review in Biology*, 18(5): 1-13. **(International)**
14. IQBAL, Z., NASIR, M.F., BODLAH, I., QURESHI, R. AND AIHETASHAM, A., 2017. Notes on three morphs of *Bulaea lichatschovii* (Hummel) (Coleoptera: Coccinellidae) from Northern Pakistan. *Punjab University Journal of Zoology*, 32(2): 203 -208. **(HEC Recognized Journal, Y category)**

15. AIHETASHAM, A., RASIB, K.Z., HASAN, S.R. AND BODLAH, I., 2017. Effect of *Carica papaya*, *Helianthus annuus* and *Bougainvillea glabra* aqueous extracts against termite *Heterotermes indicola* (Isoptera: Rhinotermitidae). *Punjab University Journal of Zoology*, 32(1):51-56. **(HEC recognized Journal, Y category)**
16. AIHETASHAM, A., AKHTAR, M.S., UMER, M., RASIB, K.Z. AND DIN, M.I., 2017. Bioactivity of extracts of *Foeniculum vulgare* and *Ocimum basilicum* against *Heterotermes indicola* (Wasmann). *Pakistan Journal of Zoology*, 49(6):2193-2199. **(Impact factor 0.491, W category, HEC Recognized Journal)**
17. HASSAN, M.A., BODLAH, I. AND AIHETASHAM, A., 2017. First record of the oriental species, *Saltella setigera* Brunetti, 1909 (Diptera: Sepsidae) from Pakistan. *Punjab University Journal of Zoology*, 32(2): 225-22. **(HEC recognized journal, Y category)**
18. RASIB, K., ARIF, A., AIHETASHAM, A AND AHMED, D. 2017. Bioactivity of some plant extracts against termite *Odontotermes obesus* (Rambur) (Blattodea: Termitidae). *Journal of Biodiversity, Bioprospecting and Development* 4(2):167 **(International Journal)**
19. AIHETASHAM, A., AZIZ, H. AND RASIB, K.Z. 2018. Efficacy of slow acting toxicants on *Heterotermes indicola* (Wasmann) (Isoptera: Rhinotermitidae). *Pakistan Journal of Zoology* 50(1): 373-375. **(Impact factor 0.457, W category, HEC Recognized Journal)**
20. AIHETASHAM, A., AKHTAR, M.S., BIBI, T. AND BODLAH, I. 2018. Efficacy of Biomax and Fiprokill against *Heterotermes indicola* (Wasmann). *Asian Journal of Agriculture & Biology*, 6(1):90-94. **(HEC Recognized Journal, Y category)**
21. RASIB, K., AIHETASHAM, A., ASHRAF, H. AND AFZAL, M. 2018. Effect of sublethal concentrations on population size of termites *Odontotermes obesus* (Rambur) and *Coptotermes heimi* (Wasmann) under laboratory and Field conditions. *Biomedical Journal of Scientific & technical Research*, 3(1):1-7. **(International)**
22. IFTIKHAR, S., IQTEDAR, M., AKHTAR, M.S., ABDULLAH, R., KALEEM, A., AIHETASHAM, A., CHAUDHRY, A., NAZ, S. AND SHARIF, S. 2018. *Bacillus mojavensis* BTCB15-mediated synthesis of silver nanoparticles with mosquito larvicidal activity against vector-borne diseases. *Nanoscience and Nanotechnology Letters*, 10(7):943-949. **(Impact Factor 2.917, W category, International)**
23. AIHETASHAM, A., SHARIQ, S. AND QAZI, JI. 2018. Potential Fungal control of the subterranean termite *Heterotermes indicola* (Wasmann). *Pakistan Journal of Zoology*, 50(6):2093-2098. **(Impact factor 0.457, W category, HEC Recognized Journal)**
24. AIHETASHAM, A., ANAYAT, A. AND XAACEPH, M. 2018. Influence of some plant oils *Eugenia caryophyllata*, *Elettaria cardamomum* and *Citrus sinensis* on the termite species *Coptotermes heimi*. *Asian Journal of Agriculture and Biology*, 6(3):295-299. **(HEC recognized Journal, Y category)**
25. DIN, I., NABI, A.G., RANI, A., AIHETASHAM, A AND MUKHTAR, M. 2018. Single step green synthesis of stable nickel and nickel nanoparticles from *Calotropis gigantea*: Catalytic and antimicrobial potentials. *Environmental Nanotechnology, Monitoring & Management*. 9:29-36. **(Impact factor 0.86, W category, International)**
26. MARYAM, S., SANDHU, A.A., BODLAH, I., AZIZ, M.A. AND AIHETASHAM, A., 2019. Contribution to aphid's fauna of Gujranwala (Punjab), Pakistan. *Punjab University Journal of Zoology*, 34(1):09-16. **(HEC Recognized Journal)**
27. BODLAH, I., GULL-E-FAREEN, A., RASHEED, M. T., AMIN, M. AND AIHETASHAM, A., 2019. First record of *Nothoserphus mirabilis* Brues, 1940 (Hymenoptera: Proctotrupidae) from Pothwar, Pakistan. *Punjab University Journal of Zoology*, 34(1):47-49. **(HEC Recognized Journal, Y category)**
28. NIGHAT, S., NADEEM, M.S., SHAH, S.I., KHALID, A., MAHMOOD, T., AIHETASHAM, A. AND ASIF, M., 2019. Detection of Heavy metals in three micro-bat species from central and Northern Punjab.

29. SHAHZAD, A., SAEED, H., IQTEDAR, I., HUSSAIN, S.Z., KALEEM, A., ABDULLAH, R., SHARIF, S., NAZ, S., SALEEM, F., AIHETASHAM, A., AND CHAUDHARY, A., 2019. Size controlled production of silver nanoparticles by *Aspergillus fumigatus* BTCB 10: Likely Antibacterial and cytotoxic effects. *Journal of Nanomaterials*, 1-14 DOI: [10.1155/2019/5168698](https://doi.org/10.1155/2019/5168698) (Impact factor 2.233, W category, International)
30. HASSAN, M.A., BODLAH, I., AIHETASHAM, A., BODLAH, M.A. AND HUSSAIN, K., 2019. First record of *Baccha maculata* Walker, 1852 (Diptera: Syrphidae) from the Pothwar Punjab, Pakistan. *Punjab University Journal of Zoology*, 34(2):133-135(HEC Recognized Journal, Y category)
31. NIGHAT, S., NADEEM, M.S., SHAH, S.I., BHATTI, R.Z. AKHTER, N., MAHMOOD, T., AIHETASHAM, A., ASIF, M. AND JAVID, A., 2019. Estimation of heavy metals (Cd, Cu, pb, Zn) from six species of Vesper bats. *The Journal of Animal and Plant Sciences*, 29(2): 619-624. (Impact factor 0.529, W category, HEC Recognized Journal)
32. IQTEDAR, M., AFTAB, F., ASIM, R., ABDULLAH, R., KALEEM, A., SALEEM, F. AND AEHTISHAM, A., 2019. Screening and Optimization of Arsenic Degrading Bacterias and their potential role in heavy metal Bioremediation. *Bioscience Journal*, 35(4): 1237-1244. (Impact factor 0.375, W category, International)
33. IQTEDAR, M., WASIM, M., ABDULLAH, R., KALEEM, A., AIHETASHAM, A., CHAUDHARY, A. AND NAZ, S. 2019. Synergistic effect of pretreatment, packaging and cobalt-60 gamma irradiation on nutrition and shelf life of pine nuts. *Progress in Nutrition*, 21(1): 194-201. DOI: 10.23751/pn.v21i1.7548. (Impact factor 0.265, W category, International)
34. DIN, M.I., RANI, A., HUSSAIN, Z., KHALID, R, AIHETASHAM, A. AND MUKHTAR, M. 2019. Biofabrication of size-controlled ZnO nanoparticles using various capping agents and their cytotoxic and antitermite activity. *International Journal of Environmental Analytical Chemistry*, 99(15):1-17 (Impact factor 1.267, W category, International)
35. IQTEDAR, M., MIRZA, N., AIHETASHAM, A., IFTIKHAR, S., KALEEM, A. AND ABDULLAH, R., 2020. Termiticidal activity of mycosynthesized silver nanoparticles from *Aspergillus fumigatus* BTCB15. *Revista Mexicana de Ingenieria Quimica*, 19(3):1201-1211. (Impact factor: 1.139, W category, International)
36. MUKHTAR, M., KHAWAR, F., DIN, M.I., AIHETASHAM, A., HUSSAIN, Z., KHALID, R. AND REHAN, R., 2020. Bio-reduction potentials of *Gentiana kurroo* Rpyle for single-step bio-genic production of silver nanoparticles. *Desalination and water Treatment*,183:248-252. (Impact factor: 0.854, W category, International)
37. IQTEDAR, M., RIAZ, H., KALEEM, A., AIHETASHAM, A., NAZ, S. AND SHARIF, S., 2020. Biosynthesis, optimization and characterization of ZnO nanoparticles using *Bacillus cereus* MN181367 and their antimicrobial activity against multidrug resistant bacteria. *Revista Mexicana de Ingenieria Quimica* 19, Sup. (1) 253-266. (Impact factor: 1.139, W category, International)
38. IQTEDAR, M., RIAZ, S., MIRZA, S.S., ABDULLAH, R., KALEEM, A., AIHETASHAM, A. AND WASIM, M., 2021. Bioethanol production from urban cellulosic waste employing *Alcaligenes faecalis* HI-1 isolated from gut of termite *Heterotermes indicola*. *Bioscience Journal*, 37:1-10.(Impact factor: 0.268, W category, International)
39. CHAUDHARY, A., HUSSAIN, Z., AIHETASHAM, A., EL-SHARNOUBY, M., REHMAN, R. A., KHAN, M.A.U., ZAHRA, S., SALEEM, A., AZHAR, S., ALHAZMI, A., ASKARY, A. E., SAYED, S., ENSHASY, H. A. E., HANAPI, S. Z. AND QAMER, S. 2021.Pomegranate peels waste hydrolyzate optimization by Response Surface Methodology for Bioethanol production. *Saudi Journal of Biological Sciences*, 28:4867-4875. (Impact factor: 4.4, W category, International)
40. BUTT, A., KHAN, M.X., AIHETASHAM, A., KHAN, M.A., NAZLI, H. AND RAMZAN, A. 2021. Assessment of water quality of Soan river using physiochemical parameters and aquatic insect diversity. *Biology Bulletin*, 48(6):813-820. (Impact factor:0.5, W category, Intyernational)
41. AIHETASHAM, A., QURAT-UL-AIN, RAMZAN, A. AND KHAN, M.X. 2021. Efficacy of ethanolic plant extracts of *Zingiber officinale*, *Raphanus sativus*, *Rosa indica* and *Aloe vera* against *Heterotermes indicola*. *BioScientific Review*.3(3):1-12. (HEC Recognized Journal, Y category)

42. RASIB, K., KHAN, A., AIHETASHAM, A. AND MALIK, A. 2021. Termiticidal activity of ethanolic and n-hexane leaf extraction of *Calotropis procera*, *Cannabis indica* and *Mentha longifolia* against a higher termite *Microtermes obesi* Holmgren (Blattodea: Termitidae). *Research and Reviews:Research Journal of Biology*, 9(3):1-18. **(International)**
43. CHAUDHARY, A., AKRAM, A.M., AIHETASHAM, A., HUSSAIN, Z., ABBAS, A.S., REHMAN, R.A., AHMAD, Q., TAHIRA, A., SALEEM, A., QAMER, S., ALGHAMDI, Y., MAHMOUD, S.F. AND SAYED, S. 2021. *Punica granatum* waste to ethanol voloarization employed optimized levels of saccharification and fermentation. *Saudi Journal of Biological Sciences*, 28(7):3710-3719. **(Impact factor: 4.4, W category, HEC Recognized Journal)**
44. PARVEEN, M., AIHETASHAM, A., KHAN, M.K.A., BUKHARI, S.S.I. AND MAHNOOR. 2021. Termiticidal activity of *Dalbergia sissoo*, *Heterophragma adenophyllum*, *Grewia asiatica* and *Punica granatum* against subterranean termite *Heterotermes indicola*. *International Journal of Biosciences*. 19(1):55-64. **(International)**
45. KHAN, M.X., ANUM, B., BIBI, R., BABAR, M.E., ASHRAF, M., RAMZAN, A., AIHETASHAM, A. AND ABBAS, S.H. 2021. Dietary selenium reduces the toxic effect of mercury on different organs (Brain, Gills, Kidneys and Liver) of Rohu fish (*Labeo rohita*). *BioScientific Review*, 3(3):13-28. **(HEC Recognized Journal, Y category)**
46. RASIB, K., SHAFIQUE, H. AND AIHETASHAM, A. 2023. Feeding tendencies and evaluation resistance and non-resistance behavior of *Odontotermes obesus* (Rambur) (Blattodea: Termitidae) on different commercial timbers. *Annals of Ecology and Environmental Science*, 5(1):24-34. **(International)**
47. TABASSUM, R., AIHETASHAM, A., ZUBAIR, A., QURAT-UL-AIN, ASHRAF, S. 2023. Termiticidal activity of ethanolic leaf extracts of medicinal plants *Calotropis gigantea* and *Morus alba* against *Heterotermes indicola* (Wasmann). *Journal of Population Therapeutics and Clinical Pharmacology*, 30(19): 2192-2203. **(Impact factor:1.94, X category, International)**
48. RASIB, K., NADEEM, A.D., AIHETASHAM, A., HAYAT, S. AND IDREESI, Z.H. 2023. Feeding preference of Vexatious *Microtermes obesi* (Wheat Termite) (Blattodea: Termitidae). *Journal of Entomology*, 20(1):1-13. **(International)**
49. HUSSAIN, N., KHAN, B.N., AIHETASHAM, A., BIBI, A., MUKHTAR, A., ABDULLAH, S., ALI, R.M. 2023. In silico analysis of *Bacillus stearothermophilus* as a bioindicator for sterilization. *Pakistan Journal of Biochemistry and Biotechnology*, 4(2):59-69. **(HEC Recognized Journal, Y category)**
50. SHAFIQ, A., ABBAS, F., HAFEEZ-UR-REHMAN, M., KHAN, B.N., AIHETASHAM, A., AMIN, I., HMIDULLAH, MOTHANA, R.A., ALHARBI, M.S.AND KHAN, I. 2023. Parasite Diversity in a freshwater ecosystem. *Microorganisms*. 11:1-16. **(Impact factor: 4.1, W category, International)**
51. RASIB, K.Z., SHAFIQUE, H AND AIHETASHAM, A., 2023. Feeding tendencies and evaluation resistance and non-resistance behavior of *Odontotermes obesus* (Rambur) (Blattodea: Termitidea) on different commercial timbers. *Annals of Ecology and Environmental Science*. 5(1): 24-34. **(International)**
52. IQBAL, A., AIHETASHAM, A., DIN, M.I., HUSSAIN, Z., ALI, M.A., IQBAL. M.M. AND SHAHZADI, S. 2023. Nature driven nanotechnology *Phoenix dactylifera*-mediated synthesis of Nickel oxide nanoparticles for bio-insecticidal and antibacterial applications. *Journal of Xi'an Shiyou University*, 19(2): 1970-1980. **(Impact factor:0.5, X category, International)**
53. TABASSUM, R., AIHETASHAM, A., HUSSAIN, N., ASHRAF, S. AND ZUBAIR, A. 2024. Efficacy of *Ficus religiosa* and *Curcuma longa* leaf extracts on *Heterotermes indicola* under laboratory conditions. *Journal of Survey in Fisheries Sciences*, 11(4):190-196. **(HEC recognized journal, Y category)**
54. AZHAR, S., AIHETASHAM, A., CHAUDHARY, A., HUSSAIN, Z., REHMAN, R.A., ABBAS, G., ALHARBI, S.A., ANSARI, M.J. AND QAMER, S. 2024. Cellulolytic and ethanologenic evaluation of *Heterotermes indicola*'s gut associated bacterial isolates. *ACS Omega*.12084-12100. **(Impact factor:4.3, W category, International)**
55. CHAUDHARY, A., AIHETASHAM, A., YOUNAS, S., BASHEER, N., HUSSAIN, N., NAZ, S., AZIZ, T. AND ALBEKAIRI, T.H. 2024. Statistical optimization for comparative hydrolysis and fermentation for hemicellulosic ethanolgenesis. *Italian Journal of Food Science*, 36(2):231-245. **(Impact factor:3.6, W category, International)**
56. QURAT-UL-AIN, AIHETASHAM, A. AND TABASSUM, R., 2024. Assessing the efficacy of *Cassia fistula* and *Pongamia pinnata* extracts against *Coptotermes heimi*. *Journal of Population therapeutics & Clinical Pharmacology*, 31(5):478-488. **(Impact factor:1.94, X category, International)**

57. HUSAIN, M., AIHETASHAM, A., AKRAM, A.M., WAHEED, S., TABASSUM, R., ASHRAF, S., IQBAL, A., SHAH, S.S.A.A., MOBEEN, A. AND SALEEM, G.F. 2024. The dysregulated expression of the P53 gene is associated with poor prognosis in CEBPA mutant acute myeloid leukemia patients. *Journal of Population therapeutics & Clinical Pharmacology*, 31(6):216-227. **(Impact factor:1.94, X category, International)**
58. SHEHZADI, A., CHAUDHARY, A., AIHETASHAM, A., HUSSAIN, N., NAZ, S., AZIZ, T., & ALASMARI, A. F. 2024. Determination of hydrolyzing and ethanolic potential of cellulolytic bacteria isolated from fruit waste. *Italian Journal of Food Science*. 36(1). 127-141. **(Impact factor:3.3, W category, International)**
59. HAIDER, R., KHAN, N., AIHETASHAM, A., SHAKIR, H.A., FATIMA, M., TANVEER, A, BANO, S., ALI, W., TAHIR, M., ASGHAR, M., FAROOQ, A., AFTAB, S., ABRAR UL HAQ. & SARWAR, M. 2024. Dietary inclusion of black soldier fly (*Hermetia illucens*) larvae meal, with exogenous protease supplementation, in practical diets for striped catfish (*Pangasius hypophthalmus*, Sauvage 1878). *PLOS One*, 19(12) (Impact factor: **(Impact factor:2.6, W category, International)**)
60. CHAUDHARY, A., HUSSAIN, Z., AJMAL, H., ABDUL REHMAN, R., ABBAS, G., AIHETASHAM, A., TAHIRA, S.A. 2024. Efficient Bioconversion of Mango Waste into Ethanol Employing Plackett-Burman and Central Composite Models. *ACS Omega*. 9(38):39652-39662. **(Impact factor:4.3, W category, International)**
61. TARIQ, S., TINDYALA, E., BUTT, A.A., ZEHRA, U.U.B., TINDYALA, H., YOUSAF, A., AIHETASHAM, A., SIDDIQA, A & HUSSAIN, N. 2024. Effect of Sleep Deprivation on Reaction Time towards Visual Stimuli in Medical Students. *The Journal of Microbiology and Molecular Genetics*. 5(2). 181-187. **(HEC Recognized Journal, Y category)**
62. ASHFAQ, Y., KHAN, B.N., SALEEM, G., AIHETASHAM, A., BIBI, F., AZHAR, M., TUFAIL, A., NAWAZ, S.K., DURRANI, A.Z AND HUSSAIN, N. 2024. Advancing wildlife management: Pioneering non-invasive urinalysis protocol for captive ungulates in Pakistan. *Journal of Wildlife and Biodiversity*. 8(4): 294-310. **(HEC Recognized Journal, Y category)**
63. PERVAIZ, S., AIHETASHAM, A & HUSSAIN, N. 2024. Antitermiticidal efficacy of propolis (*Apis mellifera*) against *Heterotermes indicola* (Wasmann). *Journal of Population Therapeutics and Clinical pharmacology*. 31(6). 3621-3629. **(Impact factor:1.94, X category, International)**
64. ASHRAF, S. & AIHETASHAM, A. 2024. Field evaluation of Fipronil and Lambda cyhalothrin for the control of sugarcane leaf hopper (*Pyrilla perpusilla*) on sugarcane. *Journal of Population Therapeutics and Clinical Pharmacology*. 31(6). 3555-3562. **(Impact factor:1.94, X category, International)**
65. TABASSUM, R. & AIHETASHAM, A. 2024. Bioactivity of medicinal plants *Piper nigrum* and *Tamarindus indica* against *Heterotermes indicola* (Wasmann). *BioScientific Review*. 6(3):01-12. **(HEC Recognized Journal, Y category)**
66. AIHETASHAM, A., MUJAHID, A., CHAUDHRY, A., TABASSUM, R & IQBAL, A. 2024. Toxic effect of *Acacia nilotica* and *Bauhinia alba* leaf extracts on the gut fauna of *Heterotermes indicola* (Wasmann). *Zoo Botanica*, 02(3). 141-146. **(HEC Recognized Journal, Y category)**
67. GHULAM, R., AIHETASHAM, A., ALI, Z. AND AHMAD, R. 2024. Avian richness, assemblages and migration connectivity of geese species with habitat suitability in wetlands of the Punjab, Pakistan. *Pakistan Journal of Zoology*, 56(5): 2401-2410. **(Impact factor: 0.5)**
68. QURAT-UL-AIN & AIHETASHAM, A. (2024). Bioactivity of Ethanolic Leaf Extracts of *Acacia nilotica* and *Eucalyptus camaldulensis*, against *Coptotermes heimi*. *LGU journal of Life Sciences*, 8(3). 379-393. **(HEC Recognized Journal, Y category)**
69. SHAH, S.S.A.A., AIHETASHAM, A & RASIB, K. 2024. Effect of Drying Temperature on Resistance of Commercial and Non-Commercial Woods Against *Microtermes obesi* (Holmgren) under Laboratory and Field Conditions. *Pakistan Journal of Zoology*, 57. 1-7. **(Impact Factor: 0.5)**
70. SHAHEEN, A., AIHETASHAM, A., CHAUDHARY, A., HUSSAIN, N., AZIZ, T., ALHARBI, M AND ALASMARI, A.F. 2025. Phylogenetic analysis of bacterial cellulolytic ethanologens from *Coptotermes heimi* (Termite). *Applied Ecology and Environmental Research* 23(2):1957-1984. **(Impact factor: 0.6, W category)**
71. AHMAD, S., MEHMOOD, A., BEGUM, Q., RAFIQ, K., AIHETASHAM, A., LODHI, M., HAYAT, O., WAHEED, F. AND NAEEM, S. 2025. Synergistic effects of silver nanoparticle-Amoxicillin combinations against multidrug-resistant bacterial pathogens. *Frontier in Medical & Health Research*, 3(3):1236-1245. **(HEC Recognized Journal, Y category)**

72. HUSSAIN, B., NADEEM, M.S., ULLAH, A., MAHMOOD, T., KAYANI, A.R. AND AIHETASHAM, A. 2025. Preliminary study of bird diversity and abundance in community game reserves of Lower Dir District, Pakistan. *Journal of Wildlife and Ecology*, 9(3):216-224. **(HEC Recognized Journal, Y category)**
73. TABASSUM, R., ASHRAF, S., AIHETASHAM, A. AND LATIF, A.A. 2025. Cryptosporidiosis: An underestimated infection. *Frontier in Medical & Health Research*. 3(8):1-8. **(HEC Recognized Journal, Y category)**
74. KHAN, B.N., TUFAIL, A., JUNAID, M., BIBI, F., AIHETASHAM, A., BATOOL, F., UROOJ, S., MAQBOOL, M., GANG, S., KHAN, M.U.Z., AZHAR, M. AND SALEEM, G. 2025. Possible role of companion birds in one health implication of multidrug-resistant *Pseudomonas aeruginosa* isolated from feces of captive wild birds. *Journal of Wildlife and Biodiversity*, 9(1):262-279. **(HEC Recognized Journal, Y category)**
75. AIHETASHAM, A., UROOJ, S., IQBAL, A. AND CHAUDHARY, A. 2025. Biogenic synthesis and antibacterial efficacy of Nickel oxide nanoparticles from *Allium sativum* and *Cinnamomum verum* extracts. *Zoo Botanica*. 03(1):89-96. **(HEC Recognized Journal, Y category)**
76. IQBAL, A., AIHETASHAM, A., DIN, M.I., HUSSAIN, Z. AND CHEEMA, M.M.I. 2025. Eco-friendly synthesis of copper oxide nanoparticles using *Moringa oleifera* and *Syzygium cumini*: termiticidal and antibacterial comparisons. *Zoo Botanica*, 03(2):175-188. **(HEC Recognized Journal, Y category)**
77. CHAUDHARY, A., SYEDA, A., AIHETASHAM, A., FATIMA, P., ASGHAR, A. AND ALI, S. 2025. Comparison of ethanologenic potential of *Saccharomyces cerevisiae* and *Metschnikowia cibodasensis* employing watermelon pulp hydrolysate. *Zoo Botanica*, 03(3): 567-577. **(HEC Recognized Journal)**
78. ZAHID, A., SAEED, T., AIHETASHAM, A., ALI, M.A., SHAKIR, J., GULL-E-TOOBA, TABASSUM, I., KHALIL, I., IQBAL, M., TARIQ, S., ALI, Z., ZAHID, E. AND ZAHID, L. 2025. Effect of leaf extract of *Syzygium cumini* and *Curcuma longa* on gut fauna of *Heterotermes indicola*. *Agricultural Research Reports*, 03(01). **(HEC Recognized Journal)**
79. MIRZA, S.S., AZIZOGLU, M., ASLAM, F., ROY, D., HERAL, H.R., AWAIS, Z., AIHETASHAM, A., SIDDIQA, A., WASEEM, M., MASOOD, A., IRAM, S., RASHEED, A. 2026. The evolutionary study of oncogenes and tumor suppressor genes in breast carcinoma among different vertebrate ancestors *International Journal of Drug delivery Technology*, 16 (1) **(Impact factor: 0.184)**

Research Supervision

PhD SUPERVISION

PhD AWARDED

1. Ghulam Rasool, systematic monitoring, wintering pattern, feeding biology and habitat suitability of geese species in Punjab. 2024.
2. Maria Mukhtar, Biologically synthesized Ag and ZnO nanoparticles as wood protectant against termites, (submitted for evaluation)2024
3. Qurat-ul-Ain, Integrated control of *Coptotermes heimi* by using local plant extracts and fungi. 2024.
4. Syed Shamsheer Abbas Ali Shah, Feeding and swarming behaviour of termite in different localities of Gujranwala Punjab, Pakistan. 2025
5. Rafia Tabassum, Integrated control of *Heterotermes indicola* (Wasmann) by applying extracts of selected local plants and fungi. 2025
6. Muhammad Hussain, Study of p53 Gene Alterations and their Expression Analysis in CEBPA Mutant Acute Myeloid Leukemia Patients.2025
7. Sonia Pervaiz, Antitermiticidal Antibacterial and Antifungal Efficacy of Propolis of *Apis mellifera*. 2025

PHDTHESIS SUBMITTED

8. Salma Ashraf, Optimization chemical control of sugarcane leaf hoppers (*Pyrilla perpusilla*)
9. Anjum Shaheen Biodegradation of cellulolytic bacteria from Termites: An ecofriendly waste managing technique

10. Asma Iqbal, Identification and characterization of some potential plant extracts as termiticidal and antimicrobial agents.
11. Sana Azhar, Elucidation of cellulolytic bacteria from termite for ethanol production employing water melon waste

MS/MPHIL THESIS SUPERVISION

1. Attiya Perveen, 2009. Studies on the effect of Prevent (fipronil) and Bouncer (Bifenthrin and Cypermethrin) on *Heterotermes indicola* (Wasmann)
2. Amna Siddiqui, 2010. Study on feeding preferences of *Coptotermes heimi* (Wasmann) on eight commercial wooden species under forced and choice feeding, field and laboratory insecticides.
3. Sumbal Iqbal, 2010. Feeding activities of *Microcerotermes championi* (Snyder) on eight commercial wooden species and its response to different insecticides
4. Javaria Ata, 2011. Effect of different plant extracts and essential oils on *Microcerotermes championi* (Snyder).
5. Umer Nazir, 2013. Impact of plant essential oils on subterranean termite (*Heterotermes indicola*, Wasmann).
6. Saira Shariq, 2013. Fungal control of *Heterotermes indicola* (Wasmann).
7. Nabeela Islam, 2014. Antitermitic and antimicrobial potentials of oils against termite (*Coptotermes heimi*) gut flora.
8. Sobia Khan, 2014. Antitermitic and antimicrobial potentials of oils against termite (*Heterotermes indicola*) gut flora.
9. Muhammad Xaaceph Khan, 2015. Seasonal variation of water quality and insect taxa of Soan river
10. Maryam Umer, 2015. Bioactivity of plant extracts against *Heterotermes indicola* (Wasmann).
11. Hiba Nazir, 2016. Bioactivity of plant mediated metal nanoparticles against *Heterotermes indicola* (Wasmann).
12. Khalida Kousar, 2016. Bioactivity of plant extracts mediated via metal nanoparticles against subterranean termite.
13. Gulam Zaineb Nazeer, 2016. Effect of different plant extracts (*Zinziber officinale*, *Raphanus sativus*, *Rosa indica*, *Aloe vera*) on *Coptotermes hiemi*.
14. Qurat ul Ain. 2016. Bioactivity of plant extracts of *Zinziber officinale*, *Raphanus sativus*, *Rosa indica*, *Aloe vera* against *Heterotermes indicola*.
15. Raana Zafar, 2016. Daily use of sunflower oil by *Homo sapiens* and its stabilization by natural antioxidants.
16. Maria Mukhar, 2016. Bioefficacy performance of different plant extracts against *Heterotermes indicola* (Wasmann)(Isoptera: Rhinotermitidae).
17. Hafiz Muhammad Awais Sarwar, 2017. Diversity of termites and their role in chemical alteration of soils in Arifwala, District Pakpattan.
18. Anjum Shaheen, 2017. Cellulase inhibition by Zinc oxide nanoparticles in *Heterotermes indicola* (Wasmann).
19. Muhammad Hussain, 2017. Diversity of termites and their role in chemical alteration of soils in Lahore area.
20. Iqra Younas, 2017. Effect of leaf extracts of *Tagetes erecta*, *Nicotiana tabacum*, *Pennisetum perpureum* and *Polyalthia longifolia* on *Heterotermes indicola* (Wasmann).
21. Afzaal Anwar, 2018. Termiticidal and protozoacidal effect of the extracts of *Melia azedarach*, *Syzygium cumini*, *Morus alba* and *Cordia myxa* on *Odontotermes obesus*
22. Munazza Parveen, 2018. Effect of *Grewia asiatica*, *Heterophragma adenophyllum*, *Dalbergia sisso* and *Punica granatum* leaves extracts on gut protozoans of *Heterotermes indicola*
23. Arshad Ali, 2018. Optimization and determination of cellulose degrading and nitrogen fixing ability of actinobacteria isolated from *Heterotermes indicola* (Wasmann).
24. Faiza Iqbal, 2018. Isolation and application of Actinomycetes from fungus growing termite (*Odontotermes obesus*).

25. Rabia Ghaffar, 2018. Termiticidal and protozoacidal effect of different plant extracts on subterranean lower termite *Coptotermes heimi*.
26. Alia Iqbal, 2018. Analysis of genetic variants of LSP1 gene and 8q24 regions of susceptibility of breast cancer in Pakistani females.
27. Naveed Ahmad, 2019. Biochemical and physiological characterization of gut actinomycetes isolates against *Heterotermes indicola*.
28. Qaisar Nawaz, 2019. Efficacy of *Sygium cumini*, *Melia azedarch*, *Cardia myxa* and *Morus alba* extracts against *Heterotermes indicola*.
29. Sidra Alim, 2019. Low-cost production of bacterial extracellular polysaccharides
30. Sidra Munawar, 2019. Antibacterial potential of ethanolic extracts of *Coptotermes heimi* and its nest.
31. Mobeen Naz, 2020. Isolation and characterization of gut microbiota of *Periplaneta americana*
32. Shamaym Mustafeen, 2020. Synergistic effect of Insect growth regulator Lufenuron and Fiprokil against *Coptotermes heimi*
33. Azka Intizar, 2020. Termiticidal effect of *Jasminum grandiflorum*, *Jasminum sambac*, *Hibiscus rosa-sinensis* and *Cestrum nocturnum* on *Heterotermes indicola* (Wasmann)
34. Andleeb Khalid, 2020. Isolation and biochemical characterization of gut microbiota of *Heterotermes indicola*
35. Zeeshan Mahmood, 2021. Synergistic effect of fungus and plant extract on *Odontotermes obesus*.
36. Muhammad Noman Safdar, 2021. Comparative efficacy of different insecticides against *Odontotermes obesus*
37. Rabia Anwer, 2021. Responses of *Coptotermes heimi* (Wasmann) to seed extracts of *Eruca vasicaria*, *Momordica charantia*, *Prunus dulcis* var. *amara* and *Cucurbita maxima*.
38. Zartashia Amin, 2021. Bioactivity of extracts of *Eruca vesicaria*, *Momordica charantia*, *Prunus dulcis* var. *amara* and *Cucurbita maxima* against *Odontotermes obesus*.
39. Hafiza Saman Akram, 2021. Efficacy of *Jasminum grandiflorum*, *Jasminum sambac*, *Hibiscus rosa-sinensis* and *Cestrum nocturnum* against *Odontotermes obesus*.
40. Sadaf Liaqat, 2021. Efficacy of *Jasminum grandiflorum*, *Jasminum sambac*, *Cestrum nocturnum* and *Hibiscus rosa-sinensis* against *Coptotermes heimi*.
41. Filza Mughal, 2022. Termiticidal and anti-feedant activity of seed oils of *Azadirachta indica* and *Syzygium aromaticum* against *Coptotermes heimi* (Wasmann).
42. Aleeza Fatima, 2022. Termiticidal and antifeedant activity of seed oils of *Azadirachta indica* and *Syzygium aromaticum* against *Heterotermes indicola* (Wasmann).
43. Irum kousar, 2022. Comparative toxicity of leaf extract of *Calotropis gigantea* and *Morus alba* on *Coptotermes heimi*.
44. Rabia Amjad, 2022. Extraction and characterization of flavonoids from bee pollen and investigation of their anti-oxidative properties.
45. Maryam Farmaish, 2022. Comparative toxicity of leaf extract of *Morus alba* and *Calotropis gigantea* on gut fauna of *Heterotermes indicola*.
46. Rabia Haider, 2023. Partial replacement of fishmeal with insect meal supplemented with exogenous protease in the diets of *Pangasius hypophthalmus* (striped catfish)
47. Iqra Khursheed, 2023 Pathogenicity of *Metarhizium anisopliae* and *Polyalthia longifolia* against *coptotermes heimi*.
48. Ayesha Mujahid, 2023. Comparative effects of *Acacia nilotica* and *Bahunia alba* leaf extracts on gut fauna of *Heterotermes indicola* (Wasmann).
49. Anam Mobeen, 2024. Biogenic synthesis of cobalt oxide nanoparticles for antimicrobial activities.
50. Noor ul Huda, 2024. Plant mediated synthesis of Nickel oxide nanoparticles for termite control.

51. Saiqa Saleha, 2025. Biosynthesized copper oxide nanoparticles derived from *Carica papaya* and *Salvadora persica* as an antimicrobial agent.
52. Beenish Akram, 2025. Green synthesis of copper oxide nanoparticles using leaf extracts of *Carica papaya* and *Salvadora persica* against *Heterotermes indicola*.

BS THESIS SUPERVISION

1. Tanzeela Riaz, 2007. Comparison of efficacy of Torque and Mirage against *Heterotermes indicola* (Wasmann).
2. Javaria Ata, 2008. Effect of different insecticides on *Microcerotermes championi* (Synder).
3. Shaima Afreen, 2009. Study on the effect of Prevent (Fipronil) on *Microcerotermes championi* (Snyder).
4. Nosheen Noor, 2010. Responses of *Heterotermes indicola* (Wasmann) on different plant extracts.
5. Zarina Iqbal, 2011. Effect of different plant extracts on *Coptotermes heimi* (Wasmann).
6. Humaira Aziz, 2012. Study on the efficacy of two slow acting toxicants on *Heterotermes indicola*
7. Faiza Qayyum, 2013. Fungal control of a subterranean termite *Coptotermes heimi* (Wasmann).
8. Nida Ahsan, 2014. Antitermitic activity of plant oils (*Azadiracta indica* (A. Juss), *Trachyspermum ammi* (L), *Foeniculum vulgare* (M.) and *Brassica Juncea* (L.) against termite *Heterotermes indicola*.
9. Nadia Irfan, 2014. Responses of *Heterotermes indicola* (Wasmann) to different plant oils (*Eruca sativa*, *Azadiracta indica*, *Helianthus annuus* and *Trachyspermum ammi*).
10. Roheen Hafeez, 2015. Responses of *Coptotermes heimi* against ethanolic extracts of *Foeniculum vulgare*, *Peganum harmala*, *Psoralea corylifolia* and *Cassia fistula*.
11. Noor-e-Hira, 2015. Efficacy of plant extracts (*Mentha arvensis*, *Ocimum bacilicum*, *Psyllium ovate*, *Cichorium intybus*) against *Coptotermes heimi*.
12. Syeda Rida Hassan, 2016. Effect of *Carica papaya*, *Helianthus annuus* and *Bougainvillea glabra* extracts on *Heterotermes indicola* (Wasmann).
13. Sana Shehzin, 2016. Responses of termite *Coptotermes heimi* (Wasmann) to plant extracts of *Carica papaya*, *Helianthus annuus* and *Bougainvillea glabra*.
14. Khuzama Farrukh, 2017. Responses of termites *Coptotermes heimi* (Wasmann) to plant extracts of *Nicotiana tabacum*, *Penisetum purpureum* and *Polyalthia longifolia*.
15. Shaista Fajar, 2018. Effect of different plant extracts on Acetylcholinesterase activity of *Coptotermes heimi*.
16. Arooj Babar, 2019. Protozoacidal termiticidal effect of ethanolic plant extracts on *Heterotermes indicola* (Wasmann)
17. Nagina Hamza, 2019. Effect of ethanolic plant extracts on gut microbes of *Coptotermes heimi*.
18. Hooria Naseem, 2020. Repellent effect of plant extracts on subterranean Termite (*Odontotermes obesus*)
19. Huda Malik, 2021. Effect of ethanolic leaf extracts of *Piper nigrum* and *Tamarindus indica* on *Coptotermes heimi*.
20. Aqsa Shakeel, 2021. Effect of ethanolic leaf extracts of *Piper nigrum* and *Tamarindus indica* on *Heterotermes indicola*.
21. Muhammad Usman, 2022. Bio chemical analysis of red velvet mites.
22. Amna Safdar, 2023. Quantitative analysis of biodiversity of district Palandri, AJK, Pakistan.
23. Aqsa, 2024. Plant mediated synthesis of cobalt oxide nanoparticles for termite control
24. Amna Shahid, 2025. Green synthesis of copper oxide nanoparticle from *Citrus sinensis* and *Calotropis gigantea* leaves for termiticidal activity

M.SC THESIS SUPERVISION

1. Usman-ul-Haq, 2008, Study on the effect of chlorpyrifos and imidacloprid on *Coptotermes heimi* (Wasmann).
2. Mehwish Riaz, 2009, Effect of bouncer (Bifenthrin and Cypermethrin) on *Coptotermes heimi* (Wasmann).

3. Momina Azam, 2010. Tunneling behavior of *Heterotermes indicola* (Wasmann) against imidacloprid and pyrethroid insecticides.
4. Muqadas Ayub, 2011. study on the efficacy of two slow acting toxicants on *Coptotermes heimi* (Wasmann)
5. Nuzhat, 2012. Effect of different plant extracts on *Heterotermes indicola*.
6. Ayesha Anayat, 2013. Effect of different plant extracts on *Coptotermes heimi* (Wasmann)
7. Zainab Anwar Ali, 2014. Antitermitic activity of plant extracts on termite *Heterotermes indicola* (Wasmann).
8. Summer Mehmood, 2015. Responses of *Odontotermes obesus* against ethanolic extracts of *Psoralea corylifolia*, *Psyllium ovate*, *Cichorium intybus* and *Cassia fistula*.
9. Tayyaba Bibi, 2016. Study of toxicity and repellency of Biomax and Fiprokill against *Heterotermes indicola* (Wasmann).
10. Saman Iqbal, 2017. Effect of leaf extracts of *Tagetes erecta*, *Nicotiana tabacum*, *Pennisetum purpureum* and *Polyalthia longifolia* on *Odontotermes obesus* (Rambur)
11. Ayesha Ayub Khan, 2018. Toxic effects of different plant extracts against *Coptotermes heimi*.
12. Maryam Parveen, 2019. Effect of ethanolic plant extracts on *Odontotermes obesus*
13. Samra Hamid, 2020. Toxic and repellent effect of Lufenuron and Fipronil on *Heterotermes indicola*.
14. Kashaf Noor, 2021. Effect of *Trigonella foenum-graecum* and *Curcuma longa* leaf extracts on *Coptotermes heimi*.
15. Tayyaba Saeed, 2022. Effect of leaf extract of *Syzygium cumini* and *Curcuma longa* on gut fauna of *Heterotermes indicola*
16. Faheema Naz, 2023. Antitermitic Activity of *Tamarindus indica* and *Bauhinia variegata* Leaf Extracts on *Heterotermes indicola*.
17. Saba Urooj, 2024. Biogenic synthesis of nickel oxide nanoparticles for antimicrobial activities
18. Irsa Sajid, 2025. Green synthesis of copper oxide nanoparticle from *Melia azedarach* and *Syzygium cumini* leaves for termiticidal activity.

Administrative Experience

- Student advisor 2020-2023
- In-charge Honey bee research farm 2021-2023
- Member antinarcotic team 2022
- Member Admission Committee for M.Sc. 2020
- Member Admission Committee BS 5th semester (Morning/ Evening) programs 2021
- Member admission committee for MS/MPhil admission Fall semester 2022
- Member Faculty of life sciences 2020 onwards
- Member Board of Studies 2019-2026
- Member DDPC
- Member Purchase Committee 2011-2013
- In-charge sports 2016-2022
- Member sports committee 2013-2022
- Member Honey bee committee
- Member IDPC (Institutional Doctoral Program Committee) 2024 onwards
- Member of the Board of Faculty of Sciences
- Examiner for BSc and MSc Practical Examination
- Examiner for MSc Examination
- Sub-Examiner, Zoology, Paper A, B.A/B.Sc. Annual Examination, 2013-2018
- Head examiner for BS 4year program for Animal Behavior, Medical entomology, Apidae
- Member Admission Committee for M.Sc. 2017-2018
- Member Admission Committee for B.S (Hons) 2009-2013

- Member Admission Committee for MS and MPhil 2009-2010
- Stock checking of all store items (chemical and glassware) 2009.
- Museum stock checking 2010,2012
- Member Discipline and arrangement committee for 117th special convocation 2009
- Paper setter for admission test of MPhil and PhD
- Paper setter and external examiner for Medical Entomology, ZOOL-413 for B.S. 4year programme 7thSemester, 2015
- Paper setter and external examiner for Vector Biology, BS 4year programme 8th Semester since 2015
- Sub examiner for BA/BSc Annual Examination for Zoology A 2010-2012
- Member security arrangements for 118th convocation 2010
- Member Dengue Research Group 2011-2013
- Paper setter/external examiner for B.S. 4year programme, semester 7th for Zool-411, Zool-413. 2017
- Paper setter/Head examiner 2024 of BSFYDP-IG24 ZOOL-101, BSFYDP-III-F-24, ZOOL-101, ZOOL-210, ZOOL-318, BIO-211, ZOOL-405, ZOOL-427, UZ 403, ES-44, GNS 101.
- Sub Examiner in BA/BSc-I-A principles in animal life
- Paper setter (2025) GNS-101, ZOOL-409, ES-44, ZOOL-210, ZOOL-427, UZO-523, UZO-403, ZOOL-318, UZO-403.

Workshops, Conferences and Trainings

- 18th Pakistan Congress of Zoology (International) University of the Punjab
- One-year German language course 2000-2001.
- Basic Computer skills Programme under the Government Teacher's Training Programme 2000
- Computer Assisted learning Workshop 2001
- Information Technology Workshops SPSS 2002
- Environmental Science and Management LCWU 2003
- 6th HRDC national faculty development program 2004
- Staff Development Course under the scheme National Academy of Higher Education 2005
- 26th Pakistan Congress of Zoology (International) 2006
- In Service teachers training course in Zoology 2006
- National conference on Life Sciences 2006
- Conference and training workshop for natural photography and GIS 2008
- Zoological Techniques 2009
- Honey bee farming and management 2009
- (People Soft Campus Solutions v 9.0, Students records, Grade book and Student financials) 2009
- English language course (3 months duration, 2009)
- Honey bee farming and management training 2010
- Exploring electronic resources, for research 2011
- Managing human resources in Universities HRDC, IAS 2011
- Research ethics, Endnote and Turnitin 2012
- Office Management for officers 2012
- Co-Chairman during Academic Session 32nd Pakistan Congress of Zoology (International) 2012
- 2nd In-service faculty training program for the core modules: Professional ethics, Management & grooming: Assessment & Evaluation 2013
- 3rd Faculty training Program at University of the Punjab, Lahore; Modules: (1) The learner's psychology (2) Academic writing: process and skills 2014
- Punjab Youth Festival, 2014
- Parasitology & its immunological aspects 2015
- Use of bioinformatics in high through put sequencing, genomics, proteomics and Transcriptomics 2015
- The women empowerment and leadership 2015
- Reviewer of the project of Higher Education Commission 2015

- 4th in service faculty training program (2016) on the modules: 1. Patent system of Pakistan and Patent Filing. 2. Communication skills
- Organizer of local organizing committee of 38th Pakistan Congress of Zoology (international) 2018
- Co-chairperson during academic session of 38th Pakistan Congress of Zoology (international) 2018
- Animal handling & modelling for advance research 2018
- International symposium on Integrated Pest Management for food safety 2019
- Member of local organizing committee of 41st Pakistan Congress of Zoology (International) 2023
- Co-chairperson during academic session of 41st Pakistan Congress of Zoology (International) 2023
- International fisheries and aquaculture conference 2023, Pakistan-China Belt and Road Advancement towards Modern Aquaculture 2023
- Organizer of world fisheries Day-2023
- Organized workshop on Application of Computational Genomics and Epitranscriptomics in Animal Sciences 2023.
- Co-chaired session at two days international conference (Hybrid) of Zoology on Zoological Emerging Scientific trends at the Department of Zoology, University of Education, October 16-17, 2024.
- Participated in one day seminar on “materials revolution: Advance materials for sustainable future” organized by Research Innovation and Commercialization (ORIC) University of the Punjab, Lahore on September 3, 2025.
- Session chair in the 8th international conference on Applied zoology (ICAZ-2025) October 13-14, 2025, University of the Lahore.
- Session chair at 4th two-day international conference of Zoology (Hybrid) on Zoological Emerging Scientific trends at the Department of Zoology, University of Education, Lahore on November 19-20, 2025.
- Participated in one day workshop on “Meta Analysis: Techniques, Tools and Best Practices” jointly organized by Punjab university Library and Institute of Information management on Wednesday, January 29, 2025.

Punjab University Research projects

Year	Title	Worth
2010	Comparison of efficacy of imidacloprid and pyrethroid insecticides against <i>Heterotermes indicola</i> (Wasmann)	Rs. 125,000/-
2011	Effect of plant extracts of <i>Aloe barbadensis</i> , <i>Allium sativum</i> , <i>Ficus religiosa</i> , <i>Ficus racemosa</i> and <i>Ficus bengalensis</i> on <i>Heterotermes indicola</i> (Wasmann)	Rs. 150,000/-
2012	Impact of plant extracts of <i>Datura alba</i> , <i>Lantana camara</i> , <i>Eucalyptus globulus</i> , <i>Carica papaya</i> , <i>Piper nigrum</i> and <i>Trachyspermum copticum</i> on <i>Heterotermes indicola</i> (Wasmann)	Rs. 150,000/-
2013	Impact of plant essential oils from <i>Eugenia caryophyllata</i> , <i>Citrus sinensis</i> , <i>Trachyspermum copticum</i> , <i>Azadiracta indica</i> , <i>Elettaria cardamomum</i> and <i>Eucalyptus globules</i> against the subterranean termite (<i>Heterotermes indicola</i> Wasmann)	Rs. 150,000/-
2014	Responses of <i>Coptotermes heimi</i> (Wasmann) to different plant essential oils	Rs. 150,000/-
2015	Antimicrobial potentials of essential oils against termite (<i>Heterotermes indicola</i>) gut flora	Rs. 150,000/-
2016	Responses of <i>Coptotermes heimi</i> (Wasmann) to the leaf extract of Papaya (<i>Carica papaya</i>)	Rs. 150,000/-
2017-2018	Effect of leaf extracts of <i>Tagetes erecta</i> , <i>Nicotiana tabacum</i> , <i>Pennisetum perpureum</i> and <i>Polyalthia longifolia</i> on <i>Coptotermes heimi</i> .	Rs. 150,000/-
2021-2022	Screening of bacterial isolates to evaluate cellulolytic potential from termite gut	Rs. 200,000/-

2022-2023	Toxic effects of <i>Acacia nilotica</i> and <i>Bahunia alba</i> leaf extracts on the gut fauna of <i>Heterotermes indicola</i>	Rs. 200,000/-
2024-2025	Green synthesis of copper oxide nanoparticles using leaf extracts of <i>Carica papaya</i> and <i>Salvadora persica</i> for termiticidal and antimicrobial activities	Rs. 200,000/-
2026	Comparative bioactivity of <i>Pongamia pinnata</i> and <i>Bauhinia variegata</i> methanolic extracts against gut symbionts of <i>Heterotermes indicola</i>	Rs. 300,000/-

Oral presentations

- Study on the effect of prevent (fipronil) on *Microcerotermes championi* (snyder), 30th Pakistan Congress of Zoology 2010.
- Study of repellency and toxicity of Mirage (imidacloprid) and Torque (chlorpyrifos) against *Microcerotermes championi* (Snyder) 30th Pakistan Congress of Zoology 2010
- Feeding preferences of *Heterotermes indicola* (Wasmann) 32nd Pakistan congress of Zoology 2012
- 30th Pakistan congress of Zoology 2010
- Sustainable approaches for pest and vector control management 2011
- Effect of different plant extracts on *Heterotermes indicola* (Wasmann) in the 33rd Pakistan congress of Zoology 2013
- Fungal control of subterranean termite *Heterotermes indicola* (Wasmann) in the 34th Pakistan congress of Zoology 2014
- 38th Congress of Zoology 2018 entitled: Bioactivity of plant extract mediated via metal nanoparticles against subterranean termite
- Effects of essential oils on the intestinal microflora of termite (*Heterotermes indicola*)
- Actively participated and presented a poster in the Poster Exhibition Session held during PAFP FAMILYCON-2025 from 13 to 16 November 2025 at PC Hotel Lahore.

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