

Faculty Profile Format – Institute of Microbiology (IOM)

1. General Information

Full Name: Mateen Abbas

Designation/Position: Associate Professor

Department/Section: Quality Operations Laboratory

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Phone (Official): 92-333-6546752

Date of Birth: 05-07-1980

2. Academic Qualifications

Degree	Field	University/Institute	Year	Country
Ph.D	Chemistry	University of Agriculture, Faisalabad	2009	Pakistan
M.Sc	Chemistry	University of Agriculture, Faisalabad	2003	Pakistan
B.Sc	Chemistry, Botany, & Zoology	Government College, Faisalabad.	2001	Pakistan
F.Sc	Pre-medical	Government College, Faisalabad.	1999	Pakistan
Matric	Science	Faisal Public High School, Faisalabad	1997	Pakistan

3. Professional Experience

Position	Institute	Duration (Years)	From – To
Associate Professor	University of Veterinary and Animal Sciences, Lahore	Six years	2019-onward
Assistant Professor	University of Veterinary and Animal Sciences, Lahore	Nine years	2010-2019
Lecturer	University of Veterinary and Animal Sciences, Lahore	Two years	2008-2010

4. Research Contributions

4.1 Research Papers (APA style):

1. Abbas, M., Nawaz, R., Mahmood, T., & Sani, M. A. (2005). Analysis of metabolites of mefenamic acid in urine of human volunteers. *Science International*, 17(3), 227–231.
2. Abbas, M., Nawaz, R., Shahid, M., Nawaz, M., Alim, M., & Asi, M. R. (2009). Evaluation of urinary excretion and renal clearance of deferiprone, creatinine, iron and zinc in humans. *Asian Journal of Chemistry*, 21(6), 4583–4592.
3. Alim, M., Nawaz, R., Shahid, M., Abbas, M., Iqbal, S. Z., & Asi, M. R. (2010). Biokinetic study of pioglitazone in female volunteers by a validated high performance liquid chromatography method. *Saudi Medical Journal*, 31(2), 447–448.
4. Tipu, M. M. Y., Mateen, A., Khan, A. M., & Ahmad, A. (2010). Monitoring of aflatoxin M1 in market raw milk in Lahore city, Pakistan. *Pakistan Journal of Zoology*, 42(6), 697–700.
5. Alim, M., Nawaz, R., Asi, M. R., Shahid, M., Iqbal, S. Z., & Abbas, M. (2011). Study of urinary excretion and renal clearance of pioglitazone in male volunteers. *Asian Journal of Chemistry*, 23(1), 63–66.
6. Abbas, M., Shaukat, A., Nawaz, M., Nawaz, R., Iqbal, T., & Saeed, M. (2010). Bioequivalence of two formulations of gabapentin 400 mg capsules: Single-dose, open-label, randomized, two-period crossover comparison in healthy Pakistani adult subjects. *Review of Clinical Pharmacology and Pharmacokinetics, International Edition*, 24, 116–119.
7. Abbas, M., Riffat, S., Khan, A. M., & Nawaz, M. (2011). Bioequivalence evaluation of a combined formulation of pioglitazone/metformin in healthy Pakistani volunteers. *Journal of Bioequivalence and Bioavailability*, 3(5), 92–96.
8. Tipu, M. Y., Muhammad, K., Abbas, M., Khan, A. M., & Ali, S. (2012). Monitoring of sulfamethoxazole and sulfadiazine in chicken meat in Lahore city, Pakistan. *Asian Journal of Chemistry*, 24(1), 471–472.
9. Abbas, M., Nawaz, R., Iqbal, T., Alim, M., & Asi, M. R. (2012). Quantitative determination of deferiprone in human plasma by reverse phase high-performance liquid chromatography and its application to pharmacokinetic study. *Pakistan Journal of Pharmaceutical Sciences*, 25(2), 343–348.

10. Mahmood, T., Anwar, F., Abbas, M., Boyce, M. C., & Sarri, N. (2012). Compositional variation in sugars and organic acids at different maturity stages in selected small fruits from Pakistan. *International Journal of Molecular Sciences*, 13(2), 1380–1392. <https://doi.org/10.3390/ijms13021380>
11. Mahmood, T., Anwar, F., Abbas, M., & Saari, N. (2012). Effect of maturity on phenolics (phenolic acids and flavonoids) profile of strawberry cultivars and mulberry species from Pakistan. *International Journal of Molecular Sciences*, 13(4), 4591–4607. <https://doi.org/10.3390/ijms13044591>
12. Abbas, M., Khan, A. M., Waheed, N., Riffat, S., Ashraf, M., & Amin, S. (2012). Bioequivalence study of deferiprone in healthy Pakistani volunteers. *Latin American Journal of Pharmacy*, 31(2), 344–347.
13. Abbas, M., Khan, A. M., Amin, S., Riffat, S., Ashraf, M., & Waheed, N. (2012). Pervasiveness of aflatoxin in peanuts growing in the area of Pothohar, Pakistan. *World Academy of Science, Engineering and Technology*, 69, 624–627.
14. Abbas, M., Khan, A. M., Amin, S., Riffat, S., Ashraf, M., & Waheed, N. (2013). Bioequivalence study of montelukast tablets in healthy Pakistani volunteers. *Pakistan Journal of Pharmaceutical Sciences*, 26(2), 255–259.
15. Rehman, Z. U., Ashraf, M., Khan, M. A., Jabbar, M. A., Abbas, M., & Khan, A. M. (2013). Pharmacokinetics of ketoprofen in healthy buffalo calves in Pakistan. *Journal of Animal and Plant Sciences*, 23(2), 416–419.
16. Qayyum, A., Najmi, M. H., & Abbas, M. (2013). Comparative bioavailability and pharmacokinetics of two oral formulations of flurbiprofen: A single-dose, randomized, open-label, two-period, crossover study in Pakistani subjects. *Pakistan Journal of Pharmaceutical Sciences*, 26(6), 1221–1227.
17. Munir, B., Ghaffar, A., Iqbal, T., Yameen, M., Abbas, M., Kamal, S., Bokhari, T. H., & Saleem, S. (2013). Hematological and biochemical indices of β -thalassemia patients on deferiprone therapy. *Jökull Journal*, 63(10), 128–135.
18. Rafique, N., Tariq, S. R., & Abbas, M. (2014). Effect of Fe^{2+} amendment on photodegradation kinetics of imidacloprid in moist soil. *Environmental Earth Sciences*, 71(6), 2869–2874. <https://doi.org/10.1007/s12665-013-2663-x>
19. Iram, W., Anjum, T., Abbas, M., & Khan, A. M. (2014). Aflatoxins and ochratoxin A in maize of Punjab, Pakistan. *Food Additives & Contaminants: Part B*, 7(1), 57–62.
20. Mahmood, T., Abbas, M., Ilyas, S., Khan, A. M., & Nawaz, R. (2014). Analysis of metabolites of trimethoprim in urine of human male volunteers. *International Journal of Chemical and Biochemical Sciences*, 5, 59–62.
21. Aziz ul Hassan, Tabinda, A. B., Abbas, M., & Khan, A. M. (2014). Organochlorine and pyrethroid pesticides analysis in dairy milk samples collected from cotton growing belt of Punjab, Pakistan. *Pakistan Journal of Agricultural Sciences*, 51(2), 331–335.
22. Abbas, M., Khan, A. M., Riffat, S., Tipu, M. Y., Nawaz, H. A., & Usman, M. (2014). Assessment of sex differences in pharmacokinetics of carvedilol in human. *Pakistan Journal of Pharmaceutical Sciences*, 27(5), 1265–1269.
23. Zafar, S., Naz, N., Nazir, S., Abbas, M., & Khan, A. M. (2014). Analysis of selected amino acids in different varieties of wheat available in Punjab, Pakistan. *Chromatography*

Research International, 2014, Article ID 867070.
<https://doi.org/10.1155/2014/867070>

24. Qayyum, A., Najmi, M. H., Khan, A. M., Abbas, M., Naveed, A. K., & Jameel, A. (2015). Determination of S- and R-warfarin enantiomers by using modified HPLC method. *Pakistan Journal of Pharmaceutical Sciences*, 28(4), 1315–1321.
25. Iram, W., Anjum, T., Iqbal, M., Ghaffar, A., & Abbas, M. (2015). Mass spectrometric identification and toxicity assessment of degraded products of aflatoxin B1 and B2 by *Corymbia citriodora* aqueous extracts. *Scientific Reports*, 5, 14672. <https://doi.org/10.1038/srep14672>
26. Sharif, A., Ashraf, M., Anjum, A. A., Javeed, A., Altaf, I., Akhtar, M. F., Abbas, M., Akhtar, B., & Saleem, A. (2016). Pharmaceutical wastewater being composite mixture of environmental pollutants may be associated with mutagenicity and genotoxicity. *Environmental Science and Pollution Research*, 23(3), 2813–2820. <https://doi.org/10.1007/s11356-015-5503-3>
27. Iram, W., Anjum, T., Iqbal, M., Ghaffar, A., & Abbas, M. (2016). Structural elucidation and toxicity assessment of degraded products of aflatoxin B1 and B2 by aqueous extracts of *Trachyspermum ammi*. *Frontiers in Microbiology*, 7, 346. <https://doi.org/10.3389/fmicb.2016.00346>
28. Naz, N., Kashif, A., Sheikh, W., Abbas, M., & Khan, A. M. (2016). Analysis of water soluble vitamins (thiamine, nicotinamide and pyridoxine) in fortified infant food products by HPLC. *Oriental Journal of Chemistry*, 32(2), 947–953. <https://doi.org/10.13005/ojc/320235>
29. Iram, W., Anjum, T., Iqbal, M., Ghaffar, A., Abbas, M., & Khan, A. M. (2016). Structural analysis and biological toxicity of aflatoxins B1 and B2 degradation products following detoxification by *Ocimum basilicum* and *Cassia fistula* aqueous extracts. *Frontiers in Microbiology*, 7, 1105. <https://doi.org/10.3389/fmicb.2016.01105>
30. Khan, A. M., Altaf, I., Saeed, S., Abbas, M., Waris, A., Haq, R., & Bashir, R. (2016). Mycotoxin (aflatoxin & ochratoxin) and pesticide residues in *Capsicum frutescens* in Punjab, Pakistan. *International Journal of Biology, Pharmacy and Allied Sciences*, 5(7), 1646–1654.
31. Naz, N., Kashif, A., Kanwal, K., Khan, A. M., & Abbas, M. (2016). Quantitative scrutinization of aflatoxins in different spices from Pakistan. *International Journal of Analytical Chemistry*, 2016, Article ID 4907425. <https://doi.org/10.1155/2016/4907425>
32. Ali, H., Naz, N., Abbas, M., & Khan, A. M. (2016). Quantitative analysis of quercetin in vegetable pulps and peels. *Journal of Agricultural Research*, 54(1), 75–83.
33. Riaz, G., Tabinda, A. B., Iqbal, S., Yasar, A., Abbas, M., Khan, A. M., Mahfooz, Y., & Baqar, M. (2017). Phytoremediation of organochlorine and pyrethroids pesticides by aquatic macrophytes and algae in freshwater system. *International Journal of Phytoremediation*, 19(10), 894–898. <https://doi.org/10.1080/15226514.2017.1290580>

34. Abbas, M., & Khalid, M. A. (2017). Mini review on the consequences of pesticides exposure in dairy animal. *Journal of Dairy and Veterinary Sciences*, 4(2), 555-635. <https://doi.org/10.19080/JDVS.2017.03.555635>
35. Ghumman, S. A., Bashir, S., Noreen, S., Khan, A. M., Riffat, S., & Abbas, M. (2018). Polymeric microspheres of okra mucilage and alginate for the controlled release of oxcarbazepine: In vitro & in vivo evaluation. *International Journal of Biological Macromolecules*, 111, 1156–1165. <https://doi.org/10.1016/j.ijbiomac.2018.01.118>
36. Iram, W., Anjum, T., Jabeen, R., & Abbas, M. (2018). Isolation of stored maize mycoflora, identification of aflatoxigenic fungi and its inhibition using medicinal plant extracts. *International Journal of Agriculture and Biology*, 20(9), 2149–2160. <https://doi.org/10.17957/IJAB/15.0621>
37. Nawaz, H. A., Masood, M. I., Abbas, M., Usman, M., Khan, A. M., Rasheed, H., & Riffat, S. (2019). Evaluation of gender difference in pharmacokinetics of candesartan cilexetil in the fasted state by RP-HPLC: A single dose comparative study. *Pakistan Journal of Pharmaceutical Sciences*, 32(3), 1019–1024.
38. Sana, S., Anjum, A. A., Yaqub, T., Nasir, M., Ali, M. A., & Abbas, M. (2019). Molecular approaches for characterization of aflatoxin producing *Aspergillus flavus* isolates from poultry feed. *Pakistan Veterinary Journal*, 39(2), 169–174. <https://doi.org/10.29261/pakvetj/2019.031>
39. Abdullah, N., Karamat, F., Qamar, S., Abbas, M., Khan, A. M., & Ullah, N. (2019). Development and validation of RP-HPLC method for simultaneous quantification of sulfacetamide sodium and prednisolone sodium phosphate. *Acta Poloniae Pharmaceutica: Drug Research*, 76(1), 37–47. <https://doi.org/10.32383/appdr/93843>
40. Naz, N., Abbas, M., Rubab, A., & Kanwal, K. (2019). Occurrence of aflatoxin M1 in milk-based mithae samples from Pakistan. *Open Chemistry*, 17(1), 1140–1145. <https://doi.org/10.1515/chem-2019-0123>
41. Anjum, T., Iram, W., Iqbal, M., Ghaffar, A., & Abbas, M. (2020). Identification of degradation products of aflatoxin B1 and B2 resulting after their biodegradation by aqueous extracts of *Acacia nilotica*. *World Mycotoxin Journal*, 13(4), 499–514. <https://doi.org/10.3920/WMJ2018.2411>
42. Saleem, R., Khan, H. M., Usman, M., Khokhar, M. I., Rasheed, H., Abbas, M., Khan, R. R., Maqsood, Z., & Zaman, M. (2021). Population pharmacokinetics of ciprofloxacin in Pakistani patients suffering from enteric fever. *International Journal of Clinical Pharmacology and Therapeutics*, 59(1), 47–54. <https://doi.org/10.5414/CP203823>
43. Zaman, M., Khan, H. M., Usman, M., Khokhar, M. I., Rasheed, H., Khan, R. R., Abbas, M., & Saleem, R. (2021). Population pharmacokinetics of meropenem among post-operative patients in Pakistan. *International Journal of Clinical Pharmacology and Therapeutics*, 59(5), 398–408. <https://doi.org/10.5414/CP203790>
44. Landry, K. B., Azam, S., Rehman, S., Tariq, S., Iqbal, B., Abbas, M., Lembè, D. M., & Ijaz, B. (2021). Phytochemical analysis of *Berberis lyceum* methanolic extract and its antiviral activity through the restoration of MAPK signaling pathway modulated by HCV NS5A. *Asian Pacific Journal of Tropical Biomedicine*, 11(3), 132–140. <https://doi.org/10.4103/2221-1691.306133>

45. Munir, M. M., Rasheed, H., Khokhar, M. I., Khan, R. R., Saeed, H. A., Abbas, M., Ali, M., Bilal, R., Nawaz, H. A., Khan, A. M., Qamar, S., Anjum, S. M., & Usman, M. (2021). Dose tailoring of vancomycin through population pharmacokinetic modeling among surgical patients in Pakistan. *Frontiers in Pharmacology*, 12, 721819. <https://doi.org/10.3389/fphar.2021.721819>
46. Anjum, T., Iram, W., Iqbal, M., Abbas, M., Akram, W., & Li, G. (2022). Structure elucidation and toxicity analysis of the byproducts formed after biodegradation of aflatoxins B1 and B2 using extracts of *Mentha arvensis*. *Toxins*, 14(1), 24. <https://doi.org/10.3390/toxins14010024>
47. Mehmood, T., Saleem, F., Javed, S., Nawaz, S., Sultan, A., Safdar, A., Ullah, A., Waseem, R., Saeed, S., Abbas, M., Bilal, M., Ahmad, M. M., & Firyal, S. (2022). Biotransformation of agricultural by-products into biovanillin through solid-state fermentation (SSF) and optimization of different parameters using response surface methodology (RSM). *Fermentation*, 8(5), 206. <https://doi.org/10.3390/fermentation8050206>
48. Khan, A. M., Imran, M., Hashmi, A. S., Shehzad, W., & Abbas, M. (2022). Quantification of selected polycyclic aromatic hydrocarbons (PAHs) in soil, water and blood by an optimized and validated HPLC-UV-DAD method. *Polish Journal of Environmental Studies*, 31(4), 3633–3644. <https://doi.org/10.15244/pjoes/147994>
49. Mushtaq, Z., Khayam, U., Abbas, M., Jilani, K., Ali, M., Ayub, N., & Zubair, M. (2022). Enzyme inhibition studies of ethyl acetate extract of *Pinus wallichiana* needles from Azad Kashmir, Pakistan. *International Journal of Chemical and Biochemical Sciences*, 21(1), 156–166.
50. Mughis, Z., Ali, M. A., Anjum, A. A., Omer, M. O., Abbas, M., & Najeeb, M. (2022). Molecular characterization of mycotoxin-producing *Aspergillus parasiticus* and sensitivity pattern to different disinfectants. *Malaysian Journal of Microbiology*, 18(5), 524–532. <https://doi.org/10.21161/mjm.220705>
51. Rafique, M., Qamar, F., Abbas, M., & Zahra, N. (2022). Determination and detoxification of aflatoxin in cereal samples collected from different areas of Lahore. *Pakistan Journal of Science*, 74(4), 295–302. <https://doi.org/10.57041/pjs.v74i4.764>
52. Naz, G., Anjum, A. A., Ali, T., Nawaz, M., Iqbal, S., Abbas, M., & Manzoor, R. (2023). Molecular characterization of ochratoxin A producing indigenous *Aspergillus* strains from poultry feed in Pakistan. *Sains Malaysiana*, 52(3), 821–835. <https://doi.org/10.17576/jsm-2023-5203-13>
53. Khan, A. M., Imran, M., Hashmi, A. S., Shehzad, W., & Abbas, M. (2023). Adsorbent filters for removing polycyclic aromatic hydrocarbons from the atmosphere. *Environment Protection Engineering*, 49(2), 91–107. <https://doi.org/10.37190/epe230202>
54. Umar, U., Ahmed, S., Iftikhar, A., Iftikhar, M., Majeed, W., Liaqat, A., Shahzad, S., Abbas, M., Mehmood, T., & Anwar, F. (2023). Phenolics extracted from *Jasminum sambac* mitigates diabetic cardiomyopathy by modulating oxidative stress, apoptotic mediators and the Nfr-2/HO-1 pathway in alloxan-induced diabetic rats. *Molecules*, 28(14), 5453. <https://doi.org/10.3390/molecules28145453>
55. Shah, S. I., Nosheen, S., Abbas, M., Khan, A. M., & Fatima, A. (2024). Determination of phthalate esters in beverages and milk using high performance liquid chromatography

- (HPLC). Polish Journal of Environmental Studies, 33(1), 837–846. <https://doi.org/10.15244/pjoes/159729>
56. Shah, S. I., Nosheen, S., Mamoon, Riaz, S., Shahid, S., Abbas, M., & Mughal, T. A. (2024). Phytotoxic effect of dibutyl phthalate, dimethyl phthalate, diethyl phthalate and di-n-octyl phthalate on malondialdehyde content and total phenolic content of leaves and roots of edible plants. Soil and Sediment Contamination: An International Journal, 33(2), 1–11. <https://doi.org/10.1080/15320383.2024.2301891>
 57. Ahmad, F., Javed, K., Tahir, A., Khan, M. U. G., Abbas, M., Rabbani, M., & Shabbir, M. Z. (2024). Identifying key soil characteristics for *Francisella tularensis* classification with optimized machine learning models. Scientific Reports, 14(1), 1743. <https://doi.org/10.1038/s41598-024-59397-1>
 58. Islam, S., Shujaat, S., Hussain, E. A., & Abbas, M. (2024). Comparative study of the phenolic profile and antibacterial activity of honeybee propolis from different regions of South Punjab, Pakistan. Punjab University Journal of Zoology, 39(1), 127–134. <https://doi.org/10.17582/journal.pujz/2024.39.1.127.134>
 59. Ashraf, S., Tayyab, M., Mehmood, T., Saleem, G., & Abbas, M. (2024). Camel milk casein hydrolysates and its fractions having antioxidative and antibacterial properties against selected bacteria. Journal of Xi'an Shiyou University, Natural Science Edition, 20(7), 271–283. <https://doi.org/10.5281/zenodo.14878604>
 60. Khan, K., Shahzad, M., Saeed, S., Abbas, M., Rehman, M. S. U., Mamoon, Riaz, S., & Jamshaid, H. (2024). Green synthesis of silver-based nanocomposites using indigenous plant waste and their lab scale application for targeted environmental remediation. Global NEST Journal, 26(7), 06188. <https://doi.org/10.30955/gnj.06188>
 61. Anwar, U., Sattar, A., Rasheed, M. A., Shabbir, M. A. B., & Abbas, M. (2025). Preparation, characterization and toxicological evaluation of azithromycin-loaded chitosan nanoparticles alone and in combination with cetirizine dihydrochloride. Asian Journal of Agriculture and Biology. <https://doi.org/10.35495/ajab.2024.178>
 62. Maryam, E., Ahmed, S., Majeed, W., Iftikhar, A., Iftikhar, M., Abbas, M., & Mehmood, T. (2025). Rhoifolin improves glycometabolic control in streptozotocin-induced diabetic rats by up-regulating the expression of insulin signaling proteins and down-regulating the MAPK/JNK pathway. Pharmaceuticals, 18(3), 361. <https://doi.org/10.3390/ph18030361>

4.2 Books/Chapters:

1. Aslam, N., Godfrey, S. S., Abbas, M., Tipu, M. Y., Ishaq, M., McGill, D. M., Warriach, H. M., Husnain, M., & Wynn, P. C. (2019). Analysing informal milk supply chains data to identify seasonal occurrences of antibiotic residues. In A. Rahman (Ed.), Statistics for Data Science and Policy Analysis (Chapter 10, pp. 129–142). Singapore: Springer. https://doi.org/10.1007/978-981-15-1735-8_10
2. Abbas, M. (2019). Co-occurrence of mycotoxins and its detoxification strategies. In P. B. Njobeh (Ed.), Mycotoxins: Impact and Management Strategies (Chapter 5, pp. 91–107). London: IntechOpen. <https://doi.org/10.5772/intechopen.76562>

3. Abbas, M. (2021). Chromatographic techniques for estimation of aflatoxins in food commodities. IntechOpen. <https://doi.org/10.5772/intechopen.98508>

4.3 Conferences:

1. *Analysis of metabolites of mefenamic acid in urine of human male volunteers*. 5th International & 15th National Chemistry Conference, Quaid-i-Azam University, Islamabad, 2004. (Oral Presentation)
2. *Quantitative determination of deferiprone in human plasma by reverse phase high-performance liquid chromatography and its application to pharmacokinetic study*. 3rd International Conference for Young Chemists (ICYC), Universiti Sains Malaysia, Penang, Malaysia, 2010. (Oral Presentation)
3. *Bioequivalence of two oral montelukast formulations in healthy Pakistani subjects: A single dose, open-label, randomized, two-period crossover study*. 3rd International Conference for Young Chemists (ICYC), Universiti Sains Malaysia, Penang, Malaysia, 2010. (Oral Presentation)
4. *Comparison of different extraction methods of chloramphenicol from blood plasma*. National Seminar and Workshop on Environmental Toxicology and Health, University of Veterinary and Animal Sciences, Lahore, 2011. (Oral Presentation)
5. *Assessment of milk adulterants (urea and formalin) from different areas of Lahore*. 10th International & 22nd National Chemistry Conference, University of Agriculture, Faisalabad, 2011. (Oral Presentation)
6. *Prevalence of aflatoxin and ochratoxin in animal feed*. National Science Conference, PMAS-Arid Agriculture University, Rawalpindi, 2012. (Oral Presentation)
7. *Pharmacokinetic comparison of two different brands of deferiprone in healthy male volunteers*. International Conference of Toxicology, University of Veterinary and Animal Sciences, Lahore, 2012. (Oral Presentation)
8. *Elimination kinetics of iodide in healthy goats after administration of Rennessans capsule*. International Conference on Pharmaceutical Toxicology, University of Veterinary and Animal Sciences, Lahore, 2013. (Oral Presentation)
9. *Occurrence of aflatoxin in animal feed and its ingredients (oil-seed cakes) in Punjab, Pakistan*. 5th International Conference for Young Chemists (ICYC), City Bayview Hotel, Penang, Malaysia, 2015. (Oral Presentation)
10. *Chelation of iron and zinc ions by deferiprone in healthy human male volunteers*. 5th International Conference for Young Chemists (ICYC), City Bayview Hotel, Penang, Malaysia, 2015. (Oral Presentation)
11. *Monitoring of aflatoxin M1 in raw milk collected from different areas of Punjab*. International Conference on Foods of Animal Origin, University of Agriculture, Faisalabad, 2017. (Oral Presentation)
12. *Sample preparation techniques in chromatography*. National Workshop on Chromatographic Techniques, University of Veterinary and Animal Sciences, Lahore, 2017. (Invited Talk)

13. *Sample preparation techniques and instrumentation of chromatography*. Hands-on Training on High Performance Liquid Chromatography (HPLC), University of Veterinary and Animal Sciences, Lahore, 2018. (Invited Talk)
14. *Absorption kinetics of fixed-dose combination of sitagliptin and metformin in healthy humans*. International Conference of Biochemistry, Biotechnology and Biomaterials (ICBBB), University of Agriculture, Faisalabad, 2018. (Oral Presentation)
15. *Simultaneous determination of imidacloprid and acetamiprid insecticides by HPLC using a modified QuEChERS extraction technique*. 1st International Conference on Science, Technology and Innovation, Kinnaird College for Women, Lahore, 2019. (Oral Presentation)
16. *Degradation of acetamiprid and imidacloprid insecticides by using biochar of rice husk*. 1st International Conference on Advances and Challenges in Basic & Social Sciences in Contemporary Research, Govt. Post-Graduate Islamia College for Women, Lahore, 2020. (Oral Presentation)
17. *Detoxification of neonicotinoid insecticides using different fruit peels*. 1st International Conference on Advances and Challenges in Basic & Social Sciences in Contemporary Research, Govt. Post-Graduate Islamia College for Women, Lahore, 2020. (Oral Presentation)
18. *Degradation of neonicotinoid insecticides (acetamiprid and imidacloprid) using biochar of rice husk and fruit peels*. International Conference on Pesticides and Pesticide Technologies (ICPPT), Zurich, Switzerland, 2021. (Oral Presentation)
19. *Co-occurrence of mycotoxins (aflatoxins, ochratoxins and zearalenone) in poultry feed*. Poultry Science Conference (Abstract #PSC-100), Expo Center, Lahore, 2022. (Oral Presentation)
20. *Impact of mycotoxins on poultry feed and strategies for their mitigation*. PSC@IPEX-2023 (Abstract #PSC-101), Expo Center, Lahore, 2023. (Oral Presentation)
21. *Microbial contaminants in food products: Addressing food safety challenges in Pakistan*. 1st International Conference on Global Sustainability: Gender, Economics and Environmental Impacts, Lahore College for Women University, Lahore, 2024. (Oral Presentation)
22. *Addressing the challenge of food adulteration: A focus on milk safety in Pakistan*. 1st International Conference on Global Sustainability: Gender, Economics and Environmental Impacts, Lahore College for Women University, Lahore, 2024. (Oral Presentation)
23. *Role of modern analytical techniques in detecting food contaminants: Enhancing food safety in Pakistan*. 1st International Conference on Global Sustainability: Gender, Economics and Environmental Impacts, Lahore College for Women University, Lahore, 2024. (Oral Presentation)
24. *Rising fumonisin contamination in poultry feed: An emerging poultry risk in Pakistan*. PSC@IPEX-2024 (Abstract #PSC-14), Expo Center, Lahore, 2024. (Oral Presentation)
25. *Green synthesis of iron nanoparticles using Tagetes erecta flower extract for the detoxification of various mycotoxins*. 9th International Conference for Young Chemists (ICYC), Bayview Hotel, Penang, Malaysia, 2024. (Oral Presentation)

5. Trainings

5.1 Trainings Received

Title	Institution	Year	Duration
Master Trainers Program for M.Phil/Ph.D Supervisors	Faculty of Veterinary Sciences, UVAS, Lahore.	2024	5 days
Intellectual Property Rights	Office of Research Innovation & Commercialization (ORIC), UVAS, Lahore.	2022	1 day
ISO-17025-2017 Standard	University Diagnostic Laboratory, Institute of Microbiology, UVAS, Lahore	2020	1 day
Hands-on-training on LCMS	H.A. Shah & Sons	2019	5 days
Hands-on-training on GCMS	H.A. Shah & Sons	2019	5 days
Hands-on-training on CHARM Sciences products (CHARM-EZ & CHARM EZM)	Pakfil Technologies Training Program, Lahore	2017	1 day
In-Service Competency Enhancement Training for Teachers (I-SCETT)	UVAS, Lahore	2014	5 days
Training course on Accreditation of Halal Certification Bodies based on PS 4992	Pakistan National Accreditation Council (PNAC)	2014	1 day
Training workshops on ISO-17025:2005	Quality Operations Laboratory, UVAS, Lahore	2011	15 days
Training of High-performance liquid chromatography (HPLC)	H.A. Shah & Sons	2010	2 days
Five-day Assessor training course on ISO 17025	Pakistan National Accreditation Council (PNAC)	2009	5 days
WHO workshop on prequalification program for medicines	Ministry of Health, Government of Pakistan	2008	5 days

Three months training on the use and maintenance of High-performance liquid chromatography (HPLC)	NIAB, Faisalabad	2007	3 month
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5.2 Trainings Conducted

Title	Audience	Institution	Year	Duration
Workshop on Advanced Analytical Techniques for Mycotoxin Detection and Biochemical Detoxification Strategies	Students and Faculty members	UVAS, Lahore	2025	2 days
Workshop on Detection techniques for mycotoxins and toxigenic fungi in food & feed	Students and Faculty members	UVAS, Lahore	2023	2 days
Hands-on training on High Performance Liquid Chromatography (HPLC)	Students and Faculty members	UVAS, Lahore	2018	2 days
National Workshop on Chromatographic Techniques	Students and Faculty members	UVAS, Lahore	2017	2 days

6. Memberships & Accreditations

- ISO 17025 Internal Auditor (Certified, 2009)
- Member editorial board of SF journal of Pharmaceutical and Analytical Chemistry
- Member, The Chemical Society of Pakistan

7. Services & Contributions

• Public Sector:

Government-funded research projects, teaching & lab services.

- **Private Sector:**

Commercial testing for estimation of Mycotoxins in Food & Feed, drug residue analysis in meat and milk

- **Community Services:**

Conducting hands-on training workshops for students and professionals on chromatography and mycotoxin analysis

8. Awards & Recognitions

- Hafiz-i-Quran (1995)
- N.C.C. (National Cadet Course) (1998)
- HEC Indigenous Scholarship for Ph.D (2004-2008)
- Won Travel Grant to present research paper at the 3rd International Conference for Young Chemists (ICYC), 23rd 25th June, 2010 held at Universiti Sains Malaysia, Penang, Malaysia.
- Certificate of appreciation for being the resource person in Student's Orientation Program held from 28th September to 8th October, 2010
- Appreciation letter of project completion by ICHR, USA.
- Won Travel Grant to present research paper at the 5th International conference for young chemists (ICYC), 5th -7th August 2015, City Bayview Hotel, Penang, Malaysia.
- Won Travel Grant to present research paper at the 9th International Conference for Young Chemists (ICYC 2024), George Town, Malaysia, October 9-11, 2024.

9. Administrative Roles

Role	Institute/Committee	Period
Coordinator QOL	Institute of Microbiology, UVAS, Lahore	11-08-2023 to onward
Management Representative (MR), QOL, UVAS, Lahore	Institute of Microbiology, UVAS, Lahore	02-03-2017 to 28-12-2020
Technical Management Representative (TMR), Toxicology, QOL, UVAS, Lahore	Institute of Microbiology, UVAS, Lahore	2009 to onward

10. Research Interests & Future Plans

Research Interests

- Mycology
- Food Chemistry
- Pharmaceutical chemistry

Future Plans

- Exploring field-oriented, cost-effective, and sustainable approaches for the detoxification of mycotoxins in food and feed systems.
- Investigating the role of microbial and enzymatic interventions in reducing mycotoxin load under real-world agricultural and storage conditions.

11. Additional Information

• Reviewer:

- World Mycotoxin Journal
- Food Control
- Food and Chemical Toxicology
- Environmental Toxicology and Pharmacology

• Editorial Roles:

- Member, SF journal of Pharmaceutical and Analytical Chemistry