



Dr. Adeel Sattar

Personal Information

Name : Dr. Adeel Sattar
Designation : Assistant Professor
Father's Name : Abdul Sattar Zia
Date of Birth : August 06, 1988
CNIC No. : 331009803058-9
Nationality : Pakistani
Marital Status : Married

Contact Details

Postal Address (Office : Department of Pharmacology & Toxicology, Faculty of Bio-Sciences, University of Veterinary & Animal Sciences, Syed Abdul Qadir Gillani (Outfall) Road, Lahore, Pakistan.
(Res) : P-376 Khyaban Garden, Sargodha road, Faisalabad, Pakistan
Mobile/Whatsapp : +92-300-7218004
E-mail : adeel.sattar@uvas.edu.pk
dr.adeel86@yahoo.com

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Academic Qualifications

PhD (2013-2016)

Degree: Basic Veterinary Medicine

Field: Pharmacology and Toxicology

Institute: Huazhong Agricultural University, Wuhan, China

Thesis title: Metabolism and pharmacokinetics of cyadox in dogs and cats following oral, intramuscular and intravenous administration.

M.Phil (2010-2012)

Degree: Pathology

Field: Toxicology

Institute: University of Agriculture, Faisalabad, Pakistan

Thesis title: Immuno-pathological studies of Newcastle disease in arsenic intoxicated broiler birds.

DVM (2005-2010)

Degree: Doctor of Veterinary Medicine

Field: DVM

Institute: University of Agriculture, Faisalabad, Pakistan

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Employment history

- **University of Veterinary and Animal Sciences, Lahore -Pakistan** (05-05-2017 To Date)
as Assistant Professor (TTS).

Research interest

- Metabolism and Pharmacokinetics study of drugs in animals for the safety evaluation and its clinical use.
- Antimicrobial resistance (AMR), synergistic drug interactions, and residue mitigation strategies.
- Development of HPLC method for detection of drug residues.
- Preparation and characterization of drugs nanosuspensions.
- Drug dosage development and therapeutic trials of modern drugs through PK-PD modelling.
- Bioavailability study of different drugs used in poultry or other laboratory animals.
- Laboratory animal handling and postmortem, organ dissection, laboratory animal medicine and animal ethics.

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Research experience and technical skills

- Development of HPLC method for quantification of veterinary drug residues in food producing animals.
- Formation, Preparation and characterization of drugs nanosuspensions.
- Metabolism and Pharmacokinetics evaluation of new drugs for the development of effective dose regimen.
- Experimental design
- Statistical analysis

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Awards

PhD scholarship awarded by Chinese Scholarship Council from September 2013 to December 2016.

Projects completed

1. Bioavailability and pharmacokinetics of cefquinome in layer bird (As PI Rs 0.5 million Higher Education Commission)

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Publications

1. Ahmad, Mehmood, Muhammad Ovais Omer, Zahid Iqbal, Adeel Sattar, and Muhammad Abu Bakr Shabbir (2025). Targeting Antimicrobial Resistance in Salmonella Enteritidis: Synergistic Action of N-acetyl cysteine with Florfenicol and CRISPR-Cas System Involvement. *Pak. Vet. J.* **IF=5.4**
2. Anwar, Umbreen, **Adeel Sattar**, Muhammad Adil Rasheed, Muhammad Abu Bakr Shabbir, and Mateen Abbas (2025). Preparation, characterization and toxicological evaluation of azithromycin-loaded chitosan nanoparticles alone and in combination with cetirizine dihydrochloride. *Asian J. Agric. Biol.* 2024178. **IF=1.6**
3. Ahmad, Mehmood, Naeem Rasool, Rana Muhammad Zahid Mushtaq, Sammina Mahmood, Abdur Rauf Khalid, Waqas Ahmad, Bilal Mahmood Beg, Mostafa A. Abdel Maksoud, Abdul Aziz Alamri, and **Adeel Sattar*** (2025). Understanding the impact of moxifloxacin on immune function: Findings from cytokine analyses and immunological assays in mice." *PLoS One* 20, no. 5: e0321961. **IF=2.6**
4. Shabbir, Muhammad Abu Bakr, Muqaddas Shamim, Adnan Hassan Tahir, **Adeel Sattar**, Wu Qin, Waqas Ahmad, Waqas Ahmad, Farid Ahmed Khan, and Muhammad Adnan Ashraf (2024). Potential of ZnO nanoparticles for multi-drug resistant Escherichia coli having CRISPR-Cas from poultry market in Lahore. *BMC microbiology* 24(1): 355. **IF=4**
5. Saif, Alia, Muhammad Ovais Omer, **Adeel Sattar**, Yasin Tipu, Hanan M. Alharbi, Uzma Saher, and Tanzeela Awan (2024). Comprehensive Analysis of Curcumin Zinc Oxide Nanoparticles, Synthesis, Characterization, and Cytogenotoxic Profiling. *ACS Omega* 9(26) 28186–28193. **IF=3.7**
6. Muhammad Abu Bakr Shabbir, Aziz Ul-Rahman, Muhammad Rizwan Iftikhar, Majeeda Rasheed, Muhammad Kashif Maan, **Adeel Sattar**, Mehmood Ahmad, Farid Ahmad Khan, Waqas Ahmad, Muhammad Ilyas Riaz, and Hassan Bin Aslam (2024). Exploring the Interplay of the CRISPR-CAS System with Antibiotic Resistance in *Staphylococcus aureus*: A Poultry Meat Study from Lahore, Pakistan. *Medicina* 60(1): 130. **IF=2.6**
7. Khan, Ghulam Jilany, Zil E. Humma, Muhammad Ovais Omer, **Adeel Sattar**, Imran Altaf, Zhu Chen, Song Li, Hiui Chen, Yan Deng, and Nongyue He (2024). Effects of Curcuma longa L. and Piper nigrum L. Against Methicillin Resistant Staphylococcus aureus and Infectious Angiogenesis. *Journal of Biobased Materials and Bioenergy* 18(2): 303-314. **IF=0.5**
8. Waqas Ahmad, **Adeel Sattar**, Mehmood Ahmad, Muhammad Waqar Aziz, Asif Iqbal, Muhammad Yasin Tipu, Rana Muhammad Zahid Mushtaq, Naeem Rasool, Hafiz Saleet Ahmed, and Muhammad Ahmad (2023). Unveiling Oxidative Stress-Induced Genotoxicity and Its Alleviation through Selenium and Vitamin E Therapy in Naturally Infected Cattle with Lumpy Skin Disease. *Veterinary Sciences* 10(11): 643. **IF=2.4**

9. Mehmood Ahmad, **Adeel Sattar***, Sadaf Aroosa, Arfa Majeed, Muhammad Adil Rasheed, Waqas Ahmad, Asif Iqbal, Muhammad Ovais Omer, Bilal Mahmood Beg, and Rana Muhammad Zahid Mushtaq (2023). Attitude and Acceptance towards COVID-19 Booster Doses among Literacy Advantaged Population in Pakistan: A Cross-Sectional Study. *Vaccines* 11(7): 1238. **IF= 7.8**
10. Sheeza Arshad, Sohail Raza, Rehan Rafique, Imran Altaf, and **Adeel Sattar** (2023). Lack of antiviral activity of ivermectin against foot-and-mouth disease virus serotype O in BALB/c mice. *Microbial Pathogenesis* 182: 106245. **IF= 3.8**
11. Najam-ul Lail, **Adeel Sattar***, Muhammad Ovais Omer, Mian Abdul Hafeez, Abdur Rauf Khalid, Sammina Mahmood, Muhammad Abubakr Shabbir, Waqas Ahmed, Muhammad Tahir Aleem, Abdulaziz Alouffi and Mashal M. Almutairi (2023). Biosynthesis and characterization of zinc oxide nanoparticles using *Nigella sativa* against coccidiosis in commercial poultry. *Scientific Reports* 13(1): 6568. **IF= 4.9**
12. Aroosa, Sadaf, **Adeel Sattar***, Aqeel Javeed, Muhammad Usman, Mian Abdul Hafeez, and Mehmood Ahmad (2023). Protective Effects of Dexmedetomidine Infusion on Genotoxic Potential of Isoflurane in Patients Undergoing Emergency Surgery. *International Journal of Clinical Practice*. 1 (2023): 7414655. **IF= 3.15**
13. Beg, Bilal Mahmood, Aqeel Javeed, Muhammad Ashraf, Arfan Ahmad, **Adeel Sattar**, and Mehmood Ahmad (2022). Niclosamide Modulates the Cellular and Humoral Immune Response in Balb/c Mice. *Iran. J. Immun.* 19(4), 414-426. **IF= 1.1**
14. Abdul Hafeez, Mian, Muntazir Mehdi, Faiza Aslam, Kamran Ashraf, Muhammad Tahir Aleem, Abdur Rauf Khalid, **Adeel Sattar**. (2022). Molecular characterization of *Toxoplasma gondii* in cats and its zoonotic potential for public health significance. *Pathogens* 11 (4): 437. **IF= 4.5**
15. Hafeez, Mian Abdul, **Adeel Sattar**, Kiran Khalid, Abdur Rauf Khalid, Muhammad Shahid Mahmood, Muhammad Tahir Aleem, Kamran Ashraf (2022). Molecular and Morphological Characterization of *Eimeria crandallis* Isolated from Deer (Cervidae) in Different Captive Animals. *Life* 12(10): 1621. **IF= 3.25**
16. Iqbal, Zahid, Hafiz Iftikhar Hussain, Mohamed N. Seleem, Muhammad Abu Bakr Shabbir, **Adeel Sattar**, Amjad Islam Aqib, Xiuhua Kuang, Awais Ihsan, and Haihong Hao (2021). RNA-seq-based transcriptome analysis of a cefquinome-treated, highly resistant, and virulent MRSA strain. *Microbial Pathogenesis* 160: 105201. **IF= 3.738**
17. Sarwat Shaheen, Aqeel Javeed, **Adeel Sattar**, Aammir Ghafoor, and Shahzada Khurram Syed (2021). Effect of methanolic extract of *Citrus limetta* peel on cellular and humoral immune response in mice. *Pakistan Journal of Pharmaceutical Sciences*, 34(5): 861-1866. **IF=0.68**
18. Hafeez, Mian Abdul, **Adeel Sattar**, Faiza Aslam, Muhammad Imran, Kamran Ashraf, Rashid Zia, and M. Muntazir Mehdi (2021). "Effects of Ibuprofen and Clopidol Alone and in Combination on Experimentally Induced Coccidiosis in Broiler Chickens. *Pakistan Journal of Zoology*: 1-9. **IF=0.83**
19. Areej, Sadaf, **Adeel Sattar***, Aqeel Javeed, and Sohail Raza (2021). Diphenhydramine and levofloxacin combination therapy against antimicrobial resistance in respiratory tract infections. *Future microbiology* 16 (6): 409-420. **IF=3.16**
20. Majeed, Arfa, Aqeel Javeed, Muhammad Ovais Omer, Muhammad Hassan Mushtaq, and **Adeel Sattar** (2021). Evaluation of immunomodulatory effects of lomefloxacin in mice. *Brazilian Journal of Pharmaceutical Sciences* 56. **IF=1.3**
21. Wu, Qin, Qiang Zhu, Muhammad Abu Bakr Shabbir, **Adeel Sattar**, Dapeng Peng, Yanfei Tao, Dongmei Chen, Zonghui Yuan, and Yulian Wang (2021). The search for a microbiological

inhibition method for the rapid, broad-spectrum and high-throughput screening of six kinds of antibiotic residues in swine urine." *Food Chemistry* 339: 127580. **IF=7.51**

22. Maan, Muhammad Kashif, Tamoor Hamid Chaudhry, **Adeel Sattar**, Muhammad Abu Bakr Shabbir, Saeed Ahmed, Kun Mi, Waqas Ahmed, Shuyu Xie, Li Xin, and Lingli Huang (2021). Dose Optimization of Aditoprim-Sulfamethoxazole Combinations against *Trueperella Pyogenes* from Patients with Clinical Endometritis by Using Semi-mechanistic PK/PD Model. *Frontiers in Pharmacology* 12: 753359. **IF= 5.45**

23. Naveed, Khalid, Aqeel Javeed, Muhammad Ashraf, Amjad Riaz, Aamir Ghafoor, and **Adeel Sattar** (2020). Effect of nabumetone on humoral immune responses in mice. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia* 72 (3): 915-920. **IF=0.44**

24. Maan, Muhammad Kashif, **Adeel Sattar**, Kun Mi, Muhammad Abu Bakr Shabbir, Shuyu Xie, Li Xin, Saeed Ahmed, Samah Attia Algharib, Lingli Huang, and Zonghui Yuan (2020). Integration of PK/PD for dose optimization of aditoprim against *Trueperella pyogenes* causing endometritis in bovines. *Microbial Pathogenesis*: 104097. **IF=3.738**

25. **Sattar, Adeel**, Mian Abdul Hafeez, Qin Wu, Adnan Hassan Tahir, Muhammad Abu Bakr Shabbir, Dongmei Chen, Lingli Huang, Shuyu Xie, and Zonghui Yuan (2020). "Disposition of cyadox in domesticated cats following oral, intramuscular, and intravenous administration." *Journal of Veterinary Pharmacology and Therapeutics* 43(2), 97-107. **IF=1.78**

26. Farooq, Rimsha, Mian Abdul Hafeez, Muhammad Oneeb, Azhar Rafique, Kamran Ashraf, Faiza Aslam, Nauman Rauf, Kiran Khalid, Farrukh Bilal, Sammina Mahmood and **Adeel Sattar** (2020). Molecular Characterization and Phylogenetic Analysis of Babesia Species Isolated from Domestic Cattle. "*Pakistan Veterinary Journal*" 40(2). **IF=1.3**

27. Mian Abdul, Hafeez, **Adeel Sattar**, Kamran Ashraf, M. Mehdi, A. Rafique, M.S. Mahmood, F. Aslam, I. Hussain and M.R. Zia (2020). Effect of ibuprofen alone and inconjugation with vitamin e and selenium on experimentally induced coccidiosis in broilers. "*The Journal of Animal & Plant Sciences*" 30(3): 627-633 **IF=0.48**

28. Iqbal, Sehrish, Aqeel Javeed, **Adeel Sattar**, and Rabia Tanvir (2019). Pharmacokinetics of thymoquinone in layer chickens following oral and intravenous administration." *Journal of veterinary pharmacology and therapeutics* 42(6), 707-712. **IF=1.4**

29. Saleem Rabia, **Adeel Sattar***, Aqeel Javeed, Aamir Ghafoor, Mian Abdul Hafeez, and Mahmood Ahmad (2019). "Pharmacokinetics of Cefquinome in Layer Birds Following Intramuscular and Intravenous Administration. "*Pakistan Veterinary Journal*" 39, 493-498.. **IF=1.3**

30. Wu, Qin, Qiang Zhu, Yana Liu, Muhammad Abu Bakr Shabbir, **Adeel Sattar**, Dapeng Peng, Yanfei Tao, Dongmei Chen, Yulian Wang, and Zonghui Yuan (2019). "A microbiological inhibition method for the rapid, broad-spectrum, and high-throughput screening of 34 antibiotic residues in milk." *Journal of dairy science* 102(12), 10825-10837. **IF= 3.08**

31. Muhammad AB Shabbir, Qin Wu, Muhammad Z Shabbir, Abdul Sajid, Saeed Ahmed, **Adeel Sattar**, Yanping Tang, Jun Li, Muhammad K Maan, Haihong Hao and Zonghui Yuan (2018). The CRISPR-cas system promotes antimicrobial resistance in *Campylobacter jejuni*. "*Future microbiology*" 13(16), 1757-1774. **IF= 2.74**

32. **Sattar Adeel**, Dongmei Chen, Lishun Jiang, Yuanhu Pan, Yanfei Tao, Lingli Huang, Zhenli Liu, Shuyu Xie and Zonghui Yuan (2017). Preparation, characterization and pharmacokinetics of cyadox nanosuspension. "*Scientific Reports*" 7: 2289. **IF= 4.3**

33. Hussain, Hafiz I., Zahid Iqbal, Mohamed N. Seleem, Deyu Huang, **Adeel Sattar**, Haihong Hao, and Zonghui Yuan (2017). Virulence and transcriptome profile of multidrug-resistant *Escherichia coli* from chicken. "*Scientific Reports*" 7: 8335. **IF= 4.3**

34. Xie, Shuyu, Yuanhu Pan, Dongmei Chen, Wei Qu, **Adeel Sattar**, Guyue Cheng, Zhenli Liu, Liye Wang, Yanfei Tao, and Zonghui Yuan (2017). "Quantitative Analysis of Bacitracin in Porcine Edible Tissues by High-Performance Liquid Chromatography–Electrospray Ionization Tandem Mass Spectrometry and Its Application to Residue Depletion Study." *Food Analytical Methods* 10 (2): 539-548. **IF= 2.41**
35. **Sattar, Adeel**, Shuyu Xie, Lingli Huang, Zahid Iqbal, Wei Qu, Muhammad A. Shabbir, Yuanhu Pan, Hafiz Iftikhar Hussain, Dongmei Chen, Yanfei Tao, Zhenli Liu, Mujahid Iqbal and Zonghui Yuan (2016). "Pharmacokinetics and Metabolism of Cyadox and Its Main Metabolites in Beagle Dogs Following Oral, Intramuscular, and Intravenous Administration." *Frontiers in Pharmacology* 7:236. **IF= 4.4**
36. **Sattar, Adeel**, Ahrar Khan, Hafiz Iftikhar Hussain, Cheng He, Riaz Hussain, Shen Zhiqiang, Muhammad Kashif Saleemi, and Shafia Tehseen Gul (2016). "Immunosuppressive effects of arsenic in broiler chicks exposed to Newcastle disease virus." *Journal of Immunotoxicology* 13(6): 861-869. **IF= 2.05**
37. **Sattar Adeel**, Shuyu Xie, Xu Wang, Hafiz Iftikhar Hussain, Zahid Iqbal, Yuanhu Pan, Mujahid Iqbal, Muhammad Abubakr Shabbir, and Zonghui Yuan (2016). Metabolism and toxicity of arsenicals in mammals. "*Journal of environmental toxicology and pharmacology*" 48: 214-224. **IF= 2.31**
38. Mujahid Iqbal, Yanfei Tao, Shuyu Xie, Yufei Zhu, Dongmei Chen, Xu Wang, Lingli Huang, Dapeng Peng, **Adeel Sattar**, Muhammad Abu Bakr Shabbir, Hafiz Iftikhar Hussain, Saeed Ahmed and Zonghui Yuan (2016). Aqueous two-phase system (ATPS): an overview and advances in its applications. "*Biological Procedures Online*" 18(1):18. **IF= 1.56**
39. Shabbir, Muhammad AB, Haihong Hao, Muhammad Z. Shabbir, Qin Wu, **Adeel Sattar**, and Zonghui Yuan (2016). "Bacteria vs. Bacteriophages: Parallel Evolution of Immune Arsenals." *Frontiers in Microbiology* 7: 1292. **IF= 4.16**
40. Shabbir, Muhammad Abu Bakr, Haihong Hao, Muhammad Zubair Shabbir, Hafiz Iftikhar Hussain, Zahid Iqbal, Saeed Ahmed, **Adeel Sattar**, Mujahid Iqbal, Jun Li, and Zonghui Yuan (2016). "Survival and Evolution of CRISPR-CAS System in Prokaryotes and its applications." *Frontiers in Immunology* 7: 375. **IF= 5.69**
41. Wan, Dan, Xu Wang, Qinghua Wu, Pingping Lin, Yuanhu Pan, **Adeel Sattar**, Lingli Huang, Ijaz Ahmad, Yuanyuan Zhang, and Zonghui Yuan (2015). "Integrated Transcriptional and Proteomic Analysis of Growth Hormone Suppression Mediated by Trichothecene T-2 Toxin in Rat GH3 Cells." *Toxicological Sciences* 147(2):326-338. **IF= 3.85**
42. Khan, Ahrar, Hussain, Hafiz Iftikhar., **Sattar, Adeel**, Khan, Muhammad Zargham., and Abbas, Rao Zahid (2014). Toxicopathological Aspects of Arsenic in Birds and Mammals: A Review. "*International Journal of Agriculture & Biology*" 16(6): 1213-1224. **IF= 0.758**
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Book Chapters

1. Rimsha Yameen, Sammina Mahmood, Muhammad Adil Rasheed, Qamar Niaz, Rabia Ghaffar, Muhammad Shafique, Yashfa Malik, Bisma Riaz, Iqra Shafeeq and Adeel Sattar,* (2025). Toxicological impacts of biogenic Vs. conventional metal nanoparticles: Safety perspectives and emerging trends. In: Nisa ZU, Altaf S, Zahra A and Saeed K (eds), Nanobiotech in Holistic Health: Innovations for Integrated Well-being. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 11-16. <https://doi.org/10.47278/book.HH/2025.102>

2. Mahmood, Sammina, Umair Ashraf, Munazza Kiran, Muhammad Abdul Rehman Rashid, Adeel Sattar, and Abu Bakar Shabbir (2024). Revolutionary Role of Non-coding RNA in Gene Expression Modulation: Current Status and Future Prospects in Plant Breeding." *ncRNAs: Mediated Regulation: The Unarguable Biological Function to Environmental Constrains*: 75-107.
3. Mahmood, Sammina, **Adeel Sattar**, Adnan Hassan Tahir, and Muhammad Abu Bakar Shabbir (2023). "Biochar Feedstocks, Synthesis and Interaction with Soil Microorganisms." In *Sustainable Agriculture Reviews 61: Biochar to Improve Crop Production and Decrease Plant Stress under a Changing Climate*, pp. 355-373. Cham: Springer International Publishing.
4. Sammina Mahmood, **Adeel Sattar**, Umair Ashraf, and Adnan Hassan (2023). "Endophytic Microbes." *Biofertilizers for Sustainable Soil Management*.

Extension Articles

1. Mehmood Ahmed, Muhammad Adil Rasheed, Adeel Sattar, Asma Gillani (2020). Impact of antibiotic growth promoters (AGPs) in poultry. *Agro Veterinary News*, Pakistan
2. Mehmood Ahmed, Muhammad Adil Rasheed, **Adeel Sattar** (2019). Antibiotic resistance; causes and measures to overcome it. *Veterinary News and Views*, Pakistan

Abstracts accepted for poster presentations at International conferences

1. Shafique, Muhammad, Qamar Niaz, Muhammad Adil Rasheed, Khalid Abdul Majeed, Ghulam Mustafa, Muhammad Ovais Omer, Adeel Sattar, Sania Mehreen, and Muhammad Bilal Khan. "Statins as an alternative therapy to improve the cardiac chronotropic dysfunction in cirrhotic cardiomyopathy in cirrhotic rats." *Journal of Hepatology*, vol. 82. RADARWEG 29, 1043 NX Amsterdam, Netherlands: ELSEVIER, 2025.
2. Seroprevalence, molecular detection and zoonotic potential of *Toxoplasma gondii* in selected district of Punjab. "Paracon19", 2019, Pakistan

Paper Presentations at International Conferences

1. Biosynthesis and Characterization of Zinc oxide Nanoparticles using *Nigella sativa* against Coccidiosis in Commercial Poultry. 13th International Congress on Agriculture, Animal Sciences and Rural Development Usak University, Turkiye November 28-29, 2023
2. Antibacterial activity of levofloxacin alone and in combination with Cetrizine dihydrochloride against *Escherichia coli* and Methicillin-resistant *Staphylococcus aureus* (MRSA). UMTEB - xiv international scientific research congress held online and in-person on September 14-15, 2023 / Naples, Italy
3. Effect of *Bacillus Cereus* on Growth of Tomato (*Solanum Lycopersicum* L.) Irrigated With Textile Waste Water. 13th International Congress on Agriculture, Animal Sciences and Rural Development Usak University, Turkiye November 28-29, 2023
4. Antibacterial activity of Azithromycin against *Escherichia Coli* and *Streptococcus Pneumoniae* alone and in combination with Diclofenac Sodium and *Nigella Sativa* seeds extract. 2nd International Cappadocia Scientific Research Congress in Nevsehir, Turkey. 17-19 June, 2022
5. Biogenic Synthesis and Characterization of Magnesium oxide nanoparticles using *Nigella Sativa* as bio reductant and its antibacterial and cytotoxic evaluation. 3rd International anatomical and Biomedical Scientific Conference organized by University of Malaysia, 22-24 November, 2022
6. Impact of Antibiotic Growth Promoters (AGPs) in Poultry Industry. 1st International Conference on Sustainable Ecological Agriculture, Konya, Turkiye 2022

7. Crispr-cas system: an adaptive immune system's association with antibiotic resistance in salmonella enterica serovar enteritidis. 2nd International Cappadocia Scientific Research Congress in Nevsehir, Turkey. 17-19 June, 2022
8. Molecular Approach to Use Chicken Interleukin-18 and Interferon- α for the Control of Indigenous Avian Influenza H9N2 in Commercial Poultry. 1st International Conference on Sustainable Ecological Agriculture, Konya, Turkiye 2022
9. Antibacterial activity of ofloxacin in combination with ketoprofen against *Staphylococcus aureus* and *Pseudomonas aeruginosa* isolated from clinically infected patients. Virtual one health International Conference organized by University of Veterinary and Animal Sciences, Lahore, Pakistan. 25-26 November, 2020
10. Antibacterial and cytotoxic evaluation of diphenhydramine alone and in combination with levofloxacin against respiratory tract infections. 1st International Conference on Recent Advances and Challenges in Basic and Social Sciences in Contemporary Research organized by Govt. Post-graduate Islamia College for Women, Lahore, Pakistan. 12-13 February, 2020
11. Antibacterial and cytotoxic evaluation of diphenhydramine alone and in combination with levofloxacin against respiratory tract infections. 1st International Conference on Recent Advances and Challenges in Basic and Social Sciences in Contemporary Research organized by Govt. Post-graduate Islamia College for Women, Lahore, Pakistan 12-13 February, 2020

Participation in Conferences/Workshops/Trainings/Seminars etc.

1. Participated in two days training on Institutional Biosafety and Biosecurity organized by Institutional Biosafety Committee, UVAS on 6-7 February, 2025.
2. Participated in one day workshop on Targeted Mastitis Therapy and AMR control organized by Department of Veterinary Medicine, UVAS on 07 August, 2025.
3. Participated as master trainer in five days faculty training on Master Trainers Program for M.Phil and PhD Supervisors (Second Batch) 09-13 September 2024.
4. Participated as organizer in five days faculty training on Master Trainers Program for M.Phil and PhD Supervisors (Second Batch) 09-13 September 2024.
5. Participated in five days faculty training on Master Trainers Program for M.Phil and PhD Supervisors (First Batch) 26-30 August 2024
6. Participated in two days faculty training workshop organized by Centre for Educational Policy and Administration (CEPA), UVAS 7-8 August, 2024
7. Participated in hepatoprotective evaluation of Glycyrrhiza Glabra L. root essential oil against hepatotoxicity induced by isoniazid and rifampicin in mice. 6. international HASANKEYF scientific research and innovation congress . Batman-Turkey 18-19 November 2023
8. Participated in 2 days refresher training on "Biorisk Management" organized by Association of Biorisk Management in collaboration with health Security Partner and University of Veterinary and Animal Sciences, Lahore on 13-14 January, 2022
9. Participated in 4 days training on "serological and molecular techniques for animal disease diagnosis organized by Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad, 19-22 December, 2022
10. Participated in 1st International Two day Virtual conference of zoology Zoological Emerging Scientific Trends(ZEST)- 2022 organized by University of Education, Lahore on 18-19 January, 2022
11. Five days training on "Biorisk Management" organized by Association of Biorisk Management in collaboration with Health Security Partners and University of Veterinary and Animal Sciences, Lahore. 18-22 January, 2021.

12. Two days training on “Research Design” organized by Department of Food Science and Human Nutrition, University of Veterinary and Animal Sciences, Lahore 15-16 September, 2021
13. 1st International Conference of Advanced Veterinary Science and Technologies for sustainable Development organized by Faculty of Veterinary Medicine, Universitas Godjah Mada, Indonesia. 28-29 March, 2021
14. 2nd International Workshop on “ Basic Mechanisms of Disease and Poultry Pathology” organized by Department of Pathology, University of Veterinary and Animal Sciences, Lahore 2nd- 4th March, 2020
15. International webinar on “Health Instruments: Development and Validation” Association of Pharmaceutical Research (ARP) 10th September, 2020.
16. Hands on Training workshop on “Business Plan Development” organized by University of Veterinary and Animal Sciences, Lahore 12th October, 2020.
17. International Webinar on “COVID 19 Biochemical Diagnosis and Community Response” organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore. 21st August, 2020
18. International webinar on “Cyanide Poisoning” organized by Department of Veterinary Medicine, University of Veterinary and Animal Sciences, Lahore. 23rd September, 2020
19. Participated in an online International Symposium on “Camel as Animal of Future” organized by Department of Molecular Biology, Virtual University of Pakistan. 22nd June, 2020
20. Three days online workshop on “Manuscript Writing for Researcher” organized by Dr. A.Q Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi. 9-11 June, 2020
21. Participated in workshop titled 'Awareness on Turnitin Usage & HEC Policy Against Plagiarism' organized by University of Veterinary and Animal Sciences, Lahore. 18 December, 2020
22. One day workshop on ”Research proposal writing and management” organized by ORIC, University of Veterinary and Animal Sciences, Lahore 21 March, 2019
23. Two days Faculty development training on “Constructive alignment of teaching learning context” organized by University of Veterinary and Animal Sciences, Lahore 18-20 March, 2019
24. Two days training workshop on “Recombinant DNA technology for the production of biological products” organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore, Lahore 30-31 October, 2019
25. Two days national workshop on “Brucella Diagnostics and insight to right write” organized by Department of Pathology, University of Veterinary and Animal Sciences, Lahore, Lahore 07-08 October, 2019
26. One day workshop on “ The Art of Writing” organized by Department of Physiology, University of Veterinary and Animal Sciences, Lahore, Lahore 17th October, 2019
27. Participated and organized “International Parasitology Conference” held by University of Veterinary and Animal Sciences, Lahore 6th November 2019
28. Participated in “International Poultry Expo” held in Expo center Lahore 13-14 September, 2019
29. Hands on Training to the laboratory staff of Islamia University Bahawalpur 16-20 September, 2019
30. Organized and participated in Two days hands on training workshop on “Pharmacological and Toxicological procedures” in the department of Pharmacology and Toxicology, University of Veterinary and Animal Sciences, Lahore 6-7-September, 2018

Courses and international trainings

Six months training course “Post Graduate Certificate in Higher Education Learning and Teaching” organized by University of Veterinary and Animal Sciences in collaboration with Royal Veterinary College, UK 29th September, 2020 to 23rd March, 2021

Editorial board member and Reviewer for scientific journals

- ❖ Member of editorial board of journal “Plos One” and “*International Journal Of Clinical Practice*”.
- ❖ Render the services as reviewer for journals
- ❖ Journal of Veterinary Pharmacology and Therapeutics
- ❖ Pakistan Veterinary Journal
- ❖ International Journal of Nanomedicine
- ❖ Infection and Drug Resistance
- ❖ Journal of Thermal Biology
- ❖ Advances in Colloid and Interface Science

Postgraduate Student Supervision**PhD Students under supervision**

Sr. No	Name of Student	Registration No.	Subject	Status
As supervisor				
1.	Ms. Umbreen Anwar	2019-PhD-1031	Pharmacology and Toxicology	Thesis Submitted
2.	Ms. Sadaf Aroosa	2021-PhD-1018	Pharmacology and Toxicology	Research work
3.	Ms. Sara Mehreen	2019-PhD-1190	Pharmacology and Toxicology	Research work
4.	Mr. Hazrat Ali	2021-PhD-1119	Pharmacology and Toxicology	Research work
As Member of supervisory committee				
1.	Ms. Arfa Basharat	2020-PhD-1199	Pharmacology and Toxicology	Research work
2.	Ms. Alia Saif	2019-PhD-1029	Pharmacology and Toxicology	Research work
3.	Mr. Waqas Iftikhar	2021-PhD-1016	Pharmacology and Toxicology	Research work

M.Phil Students under supervision

As Supervisor				
Sr. No	Name of Student	Registration No.	Subject	Status
1.	Ms. Rabia Saleem	2016-VA-09	Pharmacology and Toxicology	Completed
2.	Ms. Sadaf Aroosa	2017-VA-1359	Pharmacology and Toxicology	Completed
3.	Mr. Daniyal Muzaffar	2017-VA-441	Pharmacology and Toxicology	Completed
4.	Ms. Sadaf Areej	2017-VA-427	Pharmacology and Toxicology	Completed
5.	Ms. Aysha Suddle	2019-VA-47	Pharmacology and Toxicology	Completed
6.	Mr. Muhammad Amir Shaheen	2019-VA-29	Pharmacology and Toxicology	Completed
7.	Ms. Mahnoor Hashim	2019-Mphil-	Pharmacology and Toxicology	Completed

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8.	Ms. Madeeha Gohar	2020-Mphil-1990	Pharmacology and Toxicology	Completed
9.	Ms. Najam ul Lail	2020-Mphil-1036	Pharmacology and Toxicology	Completed
10.	Ms. Farah Manzoor	2021-VA-48	Pharmacology and Toxicology	Completed
11.	Ms. Zarmina Arif	2021-VA-28	Pharmacology and Toxicology	Completed
12.	Ms. Mahnoor Irshad		Pharmacology and Toxicology	Completed
13.	Ms. Rameesa Rafique Gill		Pharmacology and Toxicology	Completed
14.	Ms. Nimra Anwar		Pharmacology and Toxicology	Completed
As Member of supervisory committee				
1.	Ms. Sarwat Shaheen	2016-VA-10	Pharmacology and Toxicology	Completed
2.	Ms. Serish Iqbal	2016-VA-10	Pharmacology and Toxicology	Completed
3.	Mr. Rehan Ali	2009-VA-289	Pharmaceutics	Completed
4.	Ms. Anum Sabir	2017-VA-065	Pharmacology and Toxicology	Completed
5.	Mr. Rana Muhammad Zahid	2011-VA693	Pharmacology and Toxicology	Completed
6.	Ms. Iqra Liaqat	2013-VA-354	Pharmacology and Toxicology	Completed
7.	Ms. Uzma Baig	2017-VA-44	Pharmacology and Toxicology	Completed
8.	Ms. Assma Basharat	2013-VA-248	Pharmacology and Toxicology	Completed
9.	Mr .Asad Gulzar	2012-VA--741	Pharmacology and Toxicology	Completed
10.	Mr. Muhammad Osama Yaseen	2014-VA-203	Pharmaceutics	Completed
11.	Ms. Qandeel	2014-VA-173	Pharmaceutics	Completed
12.	Ms. Sadia Butt	2014-VA-184	Pharmaceutics	Completed
13.	Mr. Muhammad Naeem	2020-Mphil-1448	Pharmacology and Toxicology	Completed
14.	Ms. Zil e Huma	2020-Mphil-2445	Pharmacology and Toxicology	Completed
15.	Mr. Rao M. Hamza Aslam	2020-Mphil-1022	Pharmacology and Toxicology	Completed
16.	Mr. Hamza Sharafat	2020-Mphil-1453	Pharmacology and Toxicology	Completed
17.	Mr. M. Ali	2019-Mphil-2438	Pharmacology and Toxicology	Completed

Extension services

External Examiner

1. Appointed as external examiner for comprehensive examination of M.Phil Biotechnology University of Okara, Punjab, Pakistan
2. Appointed as external examiner for Livestock Assistant diploma course “Pharmacology (LAD-102)” Punjab, Pakistan

Administrative activities

1. Secretary, Faculty Scrutiny Committee (SC-1) for M.Phil Synopses of Faculty of Bio-Sciences
 2. Member, Faculty Board of Studies, Faculty of Bio-Sciences, UVAS
 3. In charge Animal Shed, Department of Pharmacology and Toxicology, UVAS
 4. Liaison member for ORIC steering committee of UVAS
 5. Member of Youth Entrepreneurship Society (YES) from Faculty of Bio-Sciences, UVAS
 6. In charge of Evening Budget head of Department
 7. In charge of undergraduate and post-graduate laboratories of department
 8. In charge of departmental dengue surveillance program
 9. In charge of department internal audit
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