Curriculum Vitae

Dr. Mughees Aizaz Alvi
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Current Position: Assistant Professor,
Department of Clinical Medicine and Surgery,
University of Agriculture, Faisalabad, Pakistan.

ACADEMIC QUALIFICATION

Ph.D. Veterinary Preventive Science

Lanzhou Veterinary Research Institute, Chinese Academy of Agricultural Science (CAAS), China.

Dissertation Topic: Epidemiological Investigations of Cystic Echinococcosis in Pakistan and Assessment of Associated Risk Factors

Master of Philosophy (M. Phil.)

University of Agriculture, Faisalabad, Pakistan.

Research Topic: Seroprevalence of bluetongue in sheep at Livestock Experimental Stations in Punjab.

Doctor of Veterinary Medicine (DVM)

University of Agriculture, Faisalabad, Pakistan.

Distinctive Subjects: General Parasitology and Prootozoology, Helminthology, Veterinary Entomology, General Microbiology and Immunology, Virology, Molecular Biology, Veterinary Epidemiology and Public Health, General and Systemic Pathology, General and Systemic Medicine.

PROFESSIONAL EXPERIENCE (ACADEMICS & RESEARCH)

1. Assistant Professor, Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan. **(January 2022 to Date)**
2. Lecturer, Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan. **(September 2015 to January 2022)**
3. Member Awareness Campaign for Prevention and Eradication of Congo Virus (2016)
4. Laboratory In-Charge (Laboratory of Veterinary Preventive Medicine & Public Health, Section of Parasitic Zoonoses and Population Genetics)
5. Served as In-Charge Veterinary Teaching Hospital, University of Agriculture, Faisalabad, Pakistan.
6. Ex-Member Faculty Synopsis Scrutiny and Seminar Committees for the Students of M. Phil / Ph.D. Parasitology and Epidemiology & Public Health
7. Secretary, Department Board of Studies, Department of Clinical Medicine and Surgery, University of Agriculture, Faisalabad, Pakistan.
8. Ex-Secretary Faculty Board of Studies, Faculty of Veterinary Science, University of Agriculture, Faisalabad, Pakistan.
9. Served as Member Internship Research Group Committee
10. Undergraduate Student Advisor, University of Agriculture, Faisalabad, Pakistan.
11. Guest Associate Editor (Frontiers in Veterinary Sciences, Parasitology Section)
12. Review Editor (Frontiers in Veterinary Sciences, Comparative and Clinical Medicine Section)
13. Reviewer (Frontiers in Veterinary Science, Frontiers in Public Health, PLOS ONE)

Academic Awards

1. University Merit Scholarship awarded by University of Agriculture, Faisalabad, Pakistan for two consecutive academic years (2012-2013 and 2013-2014)
2. Outstanding Graduate Award by Chinese Academy of Agricultural Sciences (CAAS), China

Impact Factor Publications

1. Haq SU, Javaid T, Wakid MH, Usmani MW, Saqib M, Malik MA, Hussain S, Rab SO, Saeed M, Butt AA, Gao F, Yan HB, Li L and **Alvi MA***, 2025. Global Scale Insights into Genetic Variation in Mitochondrial cox1 and nad1 Genes of *Clonorchis sinensis*. Pak Vet J. http://dx.doi.org/10.29261/pakvetj/2025.153
2. Abbas, M.Z.; Ghafoor, M.; Hussain, M.H.; **Alvi, M.A***.; Jamil, T.; Sajid, M.S.; Aslam, M.; Hassan, A.; Hussain, S.; Hafeez, M.A.; et al. A Cross-Sectional Serological Study to Assess the Prevalence and Risk Factors of *Anaplasmosis* in Dromedary Camels in Punjab, Pakistan. Vet. Sci. 2024, 11, 657. https://doi.org/10.3390/vetsci11120657
3. Haq SU, Malik MA, Alshammari A, Yameen AB, Wakid MH., **Alvi MA***, Kabli AM, Saqib M, Qamar W, Sajid MS, Gao F, Li L, Fu BQ, Yan HB, and Jia WZ. **(2024)**. Genetic variation and population structure of *Taenia multiceps (Coenurus cerebralis)* based on mitochondrial cox1 gene: A comprehensive global analysis. **Infection, Genetics and Evolution**. 125, 105676. https://doi.org/10.1016/j.meegid.2024.105676
4. Alshammari A, Ali U, Kabli AM, Wakid MH, Saqib M, Hussain S, Qamar W, **Alvi MA*. 2024.** Global scenario of genetic diversity in *cox*1 and *nad*1 genes of *Moniezia expansa*. **Parasite Epidemiology and Control.** 24. e00333. https://doi.org/10.1016/j.parepi.2023.e00333
5. Alshammari A, Subhani MI, Wakid MH, Alkhaldi AAM, Hussain S, Malik MA, Saqib M, Qamar W, **Alvi MA*. 2024.** Genetic diversity and population structure of *Echinococcus multilocularis*: an in-silico global analysis. **Journal of Advanced Veterinary and Animal Research.** 11(2):264–274. http://doi.org/10.5455/javar.2024.k772
6. Malik MA, Sajid MS, Al-Akeel RK, **Alvi MA**, Rizwan HM, Abbas H, Maqbool M. **2024**. Stegomyia indices and pattern recognition of *Aedes aegypti* (Diptera: Culicidae) in selected agrogeoclimatic zones of Punjab, Pakistan. **Saudi Journal of Biological Sciences**. 31. 103919. https://doi.org/10.1016/j.sjbs.2023.103919
7. Zeeshan M, Sajid MS, Razzaq A, Imran M, **Alvi MA**. **2024**. In vitro comparative acaricidal efficacy of ivermectin and *Metarhizium anisopliae* (Hypocreales: Clavicipitaceae) against adult *Hyalomma anatolicum* ticks (Acari: Ixodidae). **Pakistan Journal of Agricultural Sciences**. Vol. 61(1), 267-275. DOI:10.21162/PAKJAS/24.131
8. Malik MA, Subhani MI, **Alvi MA***, Wakid MH, Alkhaldi AAM, Saqib M, Li L, Khan MA, Liu Y-Y, Fu B-Q, Yan H-B, Jia W-Z, **2024**. High genetic variability in full-length *cox*2 and *nad*6 genes of *Echinococcus granulosus* sensu stricto and *Echinococcus ortleppi* recovered from cattle. **Pakistan Veterinary Journal**. 44(1): 148-154. http://dx.doi.org/10.29261/pakvetj/2024.141
9. **Alvi MA,** Alshammari A, Ali RMA, Ul Haq S, Bashir R, Li L, Saqib M, Sajid MS, Ghafoor M, Imran M, Ijaz MU, Fu B-Q, Saeed M, Ahmad I, Liu Y-Y, Yan H-B, Jia W-Z. **2023.** Revealing novel *cyt*b and *nad*5 genes-based population diversity and benzimidazole resistance in Echinococcus granulosus of bovine origin. **Frontiers in Veterinary Science**. 10:1191271. doi: 10.3389/fvets.2023.1191271
10. **Alvi MA,** Khalid A, Ali RMA, Saqib M, Qamar W, Li L, Ahmad B, Fu BQ, Tyan HB, Jia WZ. **2023.** Genetic variation and population structure of *Fasciola hepatica*: an in silico analysis. **Parasitology Research**. 122: 2155-2173.
11. **Alvi MA**, Ali RMA, Khan S, Saqib M, Qamar W, Li L, Fu B, Yan H, Jia WZ. **2023.** Past and present of diagnosis of echinococcosis: A review (1999–2021)**. Acta Tropica**. 243:106925. https://doi.org/10.1016/j.actatropica.2023.106925
12. **Alvi MA**, Ali RMA, Li L, Saqib M, Qamar W, Hassan A, Ghafoor M, Rahman SU, Khan MUZ, Fu BQ, Liu Y, Yin H, Yan HB, Jia WZ. **2023**. Phylogeny and population structure of *Echinococcus granulosus* (sensu stricto) based on full-length *cyt*b-*nad*2-*atp*6 mitochondrial genes - First report from Sialkot District of Pakistan. **Molecular Biochemical Parasitology**. 253:111542. doi: 10.1016/j.molbiopara.2022.111542.
13. Muhammad N, Li D-X, Ru S-S, Suleman, Saood D, **Alvi MA**, Li L. **2023**. Characterization of the complete mitochondrial genome of Acanthogyrus (Acanthosentis) bilaspurensis Chowhan, Gupta & Khera, 1987 (Eoacanthocephala: Quadrigyridae), the smallest mitochondrial genome in Acanthocephala, and its phylogenetic implications. **Journal of Helminthology**. 97, e87, 1–9 https://doi.org/10.1017/S0022149X23000561
14. Ijaz MU, Ishtiaq A, Tahir A, **Alvi MA**, Rafique A, Wang P, Zhu GP. **2023**. Antioxidant, anti-inflammatoryand anti-apoptotic effects of genkwanin against aflatoxin B1-induced testicular toxicity. **Toxicology and Applied Pharmacology**. 481. 116750. https://doi.org/10.1016/j.taap.2023.116750
15. **Alvi MA**, Alshammari A, Ali RMA, Rashid I, Saqib M, Qamar W, Shafeeq M, Askar H, Abdelsater N, Li L, Ashfaq K, Butt AA, Fu BQ, Yan HB, Jia WZ. **2023**. Molecular characterization of *Hydatigera taeniaeformis* recovered from rats: An update from Pakistan. **Pakistan Veterinary Journal**. 43(3): 601-605. http://dx.doi.org/10.29261/pakvetj/2023.049
16. Tahir S., Abbas R.Z., Qamar W., Arshad M.I., **Alvi M.A.**, Mahmood M.S., Zaheer T. **2023**. Exploring the biogenic peptide's potential in combating bacterial zoonosis: application and future prospect. **Annals of Animal Science**. DOI: 10.2478/aoas-2023-0058
17. **Alvi MA**, Li L, Bahadur SUK, Saqib M, Ohiolei JA, Ali RMA, Rashid I, Ashfaq K, Butt AA, Abbas MZ, Tayyab

MH, Aqib AI, Qamar W, Hassan A, Alvi AA, Aslam A, Fu BQ, Yan HB, Jia WZ. **2022**. First comparative biochemical profile analysis of cystic fluids of *Taenia hydatigena* and *Echinococcus granulosus* obtained from slaughtered sheep and goats. **Pakistan Veterinary Journal**. 42(2): 215-221. **http://dx.doi.org/10.29261/pakvetj/2022.001**.

18. Anwar MA, Aziz S, Ashfaq K, Aqib AI, Shoaib M, Naseer MA, **Alvi MA**, Muzammil I, Bhutta ZA, Sattar H, Saleem A, Zaheer T, Khanum F, Mahmood A. **2022**. Trends in frequency, potential risks, and antibiogram of *E. coli* isolated from semi-intensive dairy systems. **Pakistan Veterinary Journal**. 42(2): 167-172. **http://dx.doi.org/10.29261/pakvetj/2022.018**.
19. **Alvi MA**, Khan S, Ali RMA, Qamar W, Saqib M, Faridi NY, Li L, Fu BQ, Yan HB, Jia WZ. 2022. Herbal Medicines against Hydatid Disease: A Systematic Review (2000-2021). **Life**. 12(5):676. doi: 10.3390/life12050676. PMID: 35629345; PMCID: PMC9145516.
20. Badar SN, Sajid MS, Rizwan HM, Abbas H, Maqbool M, Malik MA, Nisar RHA, Rajput M, Shamim A, Akram Q, Naeem MA, **Alvi MA**, Iqbal Z, Hassan MA, Ghazanfer S, Iqbal Z. **2022**. In vitro and in vivo anthelmintic response of the seeds of Amomum subulatum roxb and Vitex negundo. **Brazilian Journal Biology**. 84:e261768. doi: 10.1590/1519-6984.261768. PMID: 35674590.
21. Hussain S, Saqib M, El-Adawy H, Hussain MH, Jamil T, Sajid MS, **Alvi MA**, Ghafoor M, Tayyab MH, Abbas Z, Mertens-Scholz K, Neubauer H, Khan I, Mansoor MK, Muhammad G. **2022**. Seroprevalence and Molecular Evidence of Coxiella burnetii in Dromedary Camels of Pakistan. **Frontiers in Veterinary Science**. *9*. https://doi.org/10.3389/fvets.2022.908479.
22. Qurishi SA, Yan HB, Li L, Ohiolei JA, **Alvi MA**, Zhang LS, Da H, Qiao HM, Shumuye NA, Hua B, Bai BX, Tian WJ, Xu JM, Fu BQ, Jia WZ. **2022.** Comparison of mitochondrial genetic variation of *Taenia hydatigena* cysticerci from China and Mongolia. **Parasitology Research.** 121(12):3455-3466. doi: 10.1007/s00436-022-07669-3. Epub 2022 Sep 23. PMID: 36149499.
23. **Alvi, MA**, Alshammari A, Asghar F, Ali RM, Li L, Saqib M, Khan MK, Imran M, Qamar W, Askar H, Abdelsater N, Fu BQ, Yan HB, Jia WZ. **2022**. Prevalence, risk factors and first record of mitochondrial cox1 gene-based molecular characterization of *Paramphistomum epiclitum* from Pakistan. **Frontiers in Veterinary Science**. *9*. https://doi.org/10.3389/fvets.2022.1018854.
24. **Alvi MA**, Alsayeqh AF. **2022**. Food-borne zoonotic echinococcosis: A review with special focus on epidemiology. **Frontiers in Veterinary Science**. *9*. https://doi.org/10.3389/fvets.2022.1072730.
25. Ohiolei JA, Yan HB, Li L, Li WH, Wu YD, **Alvi MA**, Zhang NZ, Fu BQ, Wang XL, Jia WZ. **2021.** A new molecular nomenclature for *Taenia hydatigena*: mitochondrial DNA sequences reveal sufficient diversity suggesting the assignment of major haplotype divisions. Parasitology. 148(3):311-326. doi: 10.1017/S003118202000205X. Epub 2020 Oct 23. PMID: 33092662.
26. Khan MUZ, Humza M, Yang S, **Alvi MA**, Iqbal MZ, Zain-ul-Fatima H, Khalid S, Munir T, Cai J. **2021.** Occurrence and Toxicogenetic Profiling of *Clostridium perfringens* in Buffalo and Cattle: An Update from Pakistan. **Toxins**. 13(3):212. https://doi.org/10.3390/toxins13030212.
27. **Alvi MA,** Li L, Saqib M, Ohiolei JA, Tayyab MH, Tahir MM, Qamar W, Altaf W, Usman M, Hassan A, Bajwa MRK, Fu B, Yan HB, Jia WZ. **2021.** Copro-Antigenic Sandwich ELISA based Epidemiological Survey on Prevalence of *Echinococcus granulosus* Infection in Dogs: First Insight from Pakistan. **International Journal of Agriculture & Biology.** ISSN Print: 1560–8530; ISSN Online: 1814–9596 20–1674/2021/25–4–881–887 DOI: 10.17957/IJAB/15.1742.
28. **Alvi MA,** Li L, Ohiolei JA, Qamar W, Saqib M, Tayyab MH, Altaf J, Ashfaq K, Hassan A, Jamal M, Wahab A, Alvi AA, Usman M, Bajwa MRK, Fu B, Yan HB, Jia WZ. **2021**. *Hydatigera taeniaeformis* in urban rats (*Rattus rattus*) in Faisalabad, Pakistan, **Infection, Genetics and Evolution**. Volume 92, 2021, 104873, ISSN 1567-1348, https://doi.org/10.1016/j.meegid.2021.104873.
29. **Alvi MA**, Li L, Saqib M, Ohiolei JA, Younas MW, Tayyab MH, Hassan A, Qamar W, Alvi AA, Fu BQ, Yan HB, Jia WZ. **2021**. Serologic evidence of *Echinococcus granulosus* in slaughterhouses in Pakistan: global alarm for butchers in developing countries. **Journal of Infection in Developing Countries**. 15:861–869. doi: 10.3855/jidc.14029.
30. **Alvi MA**, Ohiolei JA, Saqib M, Li L, Tayyab MH, Alvi AA, Wu YT, Fu BQ, Yan HB, Jia WZ. **2020**. *Echinococcus granulosus* (*sensu stricto*) (G1, G3) and *E. ortleppi* (G5) in Pakistan: phylogeny, genetic diversity and population structural analysis based on mitochondrial DNA. **Parasites and Vectors.** 13: 347. https://doi.org/10.1186/s13071-020-04199-8.
31. Ohiolei JA, Yan HB, Li L, Li WH, YD Wu, **Alvi MA**, Zhang NZ, Fu BQ, Wang XL, Jia WZ. **2020**. A new molecular nomenclature for *Taenia hydatigena*: Mitochondrial DNA sequences reveal sufficient diversity suggesting the assignment of major haplotype divisions. **Parasitology**. https://doi.org/10.1017/S003118202000205X.
32. **Alvi MA**, Ohiolei JA, Saqib M, Li L, Muhammad N, Tayyab MH, Qamar W, Alvi AA, YD Wu, Li XR, Fu BQ, Yan HB, Jia WZ, **2020**. Preliminary information on the prevalence and molecular description of *Taenia hydatigena* isolates in Pakistan based on mitochondrial *cox*1 gene. **Infection Genetics and Evolution.** 85:

104481. https://doi.org/10.1016/j.meegid.2020.104481.

33. **Alvi MA**, Ohiolei JA, Saqib M, Tayyab MH, Khan MUZ, Li L, Aqib AI, Hassan A, Alvi AA, Qamar W, Fu FQ, Yan HB, Jia WZ. **2020**. First Report on Molecular Characterization of *Taenia multiceps* Isolates from Sheep and Goats in Faisalabad, Pakistan. **Frontiers in Veterinary Science**. https://doi.org/10.3389/fvets.2020.594599.
34. **Alvi MA**, Ohiolei JA, Li L, Saqib M, Hussain MH, Tayyab MH, Ghafoor M, Qamar W, Faridi NY, Alvi AA, Fu BQ, Yan HB, Jia WZ. **2020**. In-house Developed ELISA Indicates High Prevalence of anti-*Echinococcus granulosus* IgG in Sheep Population – An Update from Pakistan. **Pathogens**. 9: 905. https://doi.org/10.3390/pathogens9110905.
35. Ohiolei JA, Yan HB, Li L, Magaji AA, Luka J, Zhu GQ, Isaac C, Odoya ME, Wu YT, **Alvi MA**, Muku RJ, Fu BQ, Jia WZ. **2019**. Cystic echinococcosis in Nigeria: first insight into the genotypes of *Echinococcus granulosus* in animals. **Parasites and Vectors**. 12: 392. https://doi.org/10.1186/s13071-019-3644-z.
36. Ohiolei JA, Luka J, Zhu GQ, Yan HB, Li L, Magaji AA, **Alvi MA**, Wu YT, Li JQ, Fu BQ, Jia WZ. **2019**. First molecular description, phylogeny and genetic variation of *Taenia hydatigena* from Nigerian sheep and goats based on three mitochondrial genes. **Parasites and Vectors**. 12: 520. https://doi.org/10.1186/s13071-019-3780-5.

Non-Impact Factor Publications

1. Qamar W, Shahid MU, Irfan M, Abbas RZ, Faraz A, Hussain R, **Alvi MA***. 2023. Thiamethoxam toxicity: A review in one-health perspective. **Kafkas Univ Vet Fak Derg**. 29 (5): 557-570, 2023. DOI: 10.9775/kvfd.2023.30161
2. **Alvi MA**, I Rashid, K Ashfaq, MU Ijaz, MH Tayyab, NY Faridi. **2018**. Actinomycosis (Lumpy Jaw) in Capra hircus Buck: A Case Report. International Journal of Molecular Veterinary Research. 8(1): 1-3.
3. **Alvi MA**, MK Javaid, W Qamar, MH Ahmed, A Ahmed. **2018**. Unusual case of foot and mouth disease in a ram (Ovis aries) in Pakistan and evaluation of symptomatic and supportive therapy. International Journal of Current Research in Life Sciences. 7(3): 1342-1344.
4. **Alvi MA**, S Ahmad, AI Aqib, MH Tayyab, A Murtaza, K Ashfaq, I Rashid, M Ghafoor, Hafiz Aftab Ahmed. **2018**. Diagnosing post parturient hemoglobinuria in goat on the basis of hematology, serum biochemistry and treatment response. Matrix Science Medica (MSM) 2(2): 34-36.
5. **Alvi MA**, A Hassan, Q Tanvir, A Saleem, W Qamar, **2017**. Peste des Petits Ruminants: An Overview and a Case Report from Pakistan. Matrix Science Medica. 1(2): 20-22.
6. **Alvi MA**, M Saqib, K Ashfaq, I Rashid, MH Tayyab, **2017**. Significance of antioxidants in maintaining dairy and beef animals' health. Matrix Science Medica. 1(2): 11-12.

Book Chapters

1. Ahmed HA, Hashmi HA, Muzammal U, Akram AW, **Alvi MA,** Talib MT, Basharat A, Rauf U, Rahman HMS and Rahman HMHU, 2024. Use of natural feed additives as a remedy for diseases in veterinary medicine. In: Abbas RZ, Akhtar T, Asrar R, Khan AMA and Saeed Z (eds), Complementary and Alternative Medicine: Feed Additives. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 104-111. https://doi.org/10.47278/book.CAM/2024.345
2. Shareef M, Imran M, Saleemi MK, Aoun M, Gul AHSTK, Imran M, **Alvi MA,** Nawaz S, Ahmad M, Hafeez F, Iftakhar Z, 2024. Innovative strategies: redefining e. coli control in poultry without antibiotics. in: Farooqi SH, Aqib AI, Zafar MA, Akhtar T and Ghafoor N (eds), Complementary and Alternative Medicine: Prebiotics and Probiotics. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 376-385. https://doi.org/10.47278/book.CAM/2024.456
3. **Alvi MA,** Ali RMA, Asghar F, Saqib M, Ashfaq K, Rashid I, Abbas MZ, Shafeeq M, Ahmad F. **2023**. Drug Resistance in Parasitic Infections. In: Rizwan HM and Sajid MS (eds), Parasitism and Parasitic Control in Animals: Strategies for the Developing Countries, CABI Publishers. Vol 1: 111-123. https://doi.org/10.1079/9781800621893.0000
4. **Alvi MA**, Ali RMA, Ashfaq K, Rashid I, Imran M, Abbas MZ, Saqib M, Shafeeq M, Ahmad F. **2023**. Global review of human taeniasis. In: Aguilar-Marcelino L, Younus M, Khan A, Saeed NM and Abbas RZ (eds), One Health Triad, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. 3, pp: 86-91. https://doi.org/10.47278/book.oht/2023.81
5. Imran M, Aslam M, Saleemi MK, Cao S, Ye J, Gul A-HST, Khatoon A, Usmani MW, **Alvi MA**, Nawaz S, Imran M, Naeem MA, Jamil M. **2023**. Zika Virus: A Pathological and Clinical Perspective. In: Aguilar-Marcelino L, Abbas RZ, Khan A, Younus M and Saeed NM (eds), One Health Triad, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. I, pp: 121-127. https://doi.org/10.47278/book.oht/2023.19
6. Khan A, **Alvi MA,** Haq S, Khan MF, Jan AW, Usmani MW, Saddiqui SA. **2023.** Zoonotic parasites and food safety: the case of *Taenia solium*. In: Abbas RZ, Hassan MF, Khan A and Mohsin M (eds), Zoonosis, Unique Scientific Publishers, Faisalabad, Pakistan, Vol 2: 275-288. https://doi.org/10.47278/book.zoon/2023.7
7. **Alvi MA**, Ali RMA, Qamar W, Saqib M, Rashid I, Ashfaq K, Abbas MZ, Shafeeq M, Shahid S. Ejaz F. **2022**. Immune evasion mechanisms of parasites with special focus on *Fasciola hepatica*. In: Abbas RZ, Khan A, Liu P

and Saleemi MK (eds), Animal Health Perspectives, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. I, pp: 30-38. https://doi.org/10.47278/book.ahp/2022.05

8. Qamar W, **Alvi MA**, Asghar F, Ali RMA, Qamar MF, Ejaz F, Arshad Z, Abbas MZ, Abbas RZ. **2022**. Development and advancement in vaccines against *Haemonchus contortus*. In: Abbas RZ, Khan A, Liu P and Saleemi MK (eds), Animal Health Perspectives, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. I, pp: 16-22. https://doi.org/10.47278/book.ahp/2022.03
9. Imran M, Sajid MS, Sindhu ZuD, Khan MK, Mahmood MS, **Alvi MA**, Naseer MU, Malik MA, Kauser S and Asad M. **2022**. Selection of parasites resistant breeds of small ruminants: a perspective. In: Abbas RZ, Khan A, Liu P and Saleemi MK (eds), Animal Health Perspectives, Unique Scientific Publishers, Faisalabad, Pakistan, Vol. I, pp: 39-46. https://doi.org/10.47278/book.ahp/2022.06
10. **Alvi MA**, Ali RMA, Qamar W, Saqib M and Tanveer B. **2021**. Introduction to Echinococcosis and a review of treatment panels. Section A: Parasitic Diseases, Veterinary Pathobiology and Public Health, pp: 1-9. https://doi.org/10.47278/book.vpph/2021.011

Abstracts

1. **Alvi MA**, Tahir M, Ashfaq K, Tahir UB, Saqib M. 2024. LAT-based diagnosis of toxoplasmosis in small ruminants hosted at Government Livestock Experimental Stations in Punjab – A zoonotic and food security perspective. First International Conference on Animal Production and Biosafety – 2024 organized by Shaheed Benazir Bhutto University of Veterinary and Animals Sciences, Sakrand. 23-23 February, 2024. Page 71.
2. **Alvi MA,** Tariq K, Ijaz M, Imran M. **2024**. Prevalence of *Echinococcus granulosus* in client-owned dogs in Faisalabad – An emerging threat to dog handlers. First International Conference on Animal Production and Biosafety – 2024 organized by Shaheed Benazir Bhutto University of Veterinary and Animals Sciences, Sakrand. 23-23 February, 2024. Page 72.
3. Imran M, Sindhu Z, Khan MK, **Alvi MA**, Imran M, Asad M. **2023**. Wildlife and transboundary in one health world: An overview. Proceedings of 1st International Conference on Transboundary Diseases of Animals and Public Health (1st IC-TD&PH-23). Shaheed Benazir Bhutto University of Veterinary and Animal Sciences (SBBUVAS), Sakrand, Sindh, Pakistan; 1st & 2nd March, 2023, pp: 61.
4. **Alvi MA**, Ali RMA, Rashid I, Bashir R, Imran M, Li L, Saqib M, Qamar W, Sajid MS, Ghafoor M, Imran M, Ashfaq K, Fu BQ, Yan HB, Jia WZ. **2023**. Investigations on *cytB* and *nad5* gene based population diversity and benzimidazole resistance in *Echinococcus granulosus* isolates recovered from bovines slaughtered at Sialkot, Pakistan. Proceedings of 1st International Conference on Transboundary Diseases of Animals and Public Health (1st IC-TD&PH-23). Shaheed Benazir Bhutto University of Veterinary and Animal Sciences (SBBUVAS), Sakrand, Sindh, Pakistan; 1st & 2nd March, 2023, pp: 62.
5. Imran M, Saleemi MK, Rizvi F, Gul ST, **Alvi MA**, Imran M, Nawaz S. **2023**. Immunosuppressive and toxicological effects in broiler chicks fed Ochratoxin-A and inoculated with adenovirus serotype-4 associated with hydropericardium syndrome. Proceedings of 1st International Conference on Transboundary Diseases of Animals and Public Health (1st IC-TD&PH-23). Shaheed Benazir Bhutto University of Veterinary and Animal Sciences (SBBUVAS), Sakrand, Sindh, Pakistan; 1st & 2nd March, 2023, pp: 64.
6. Qamar W, Abbas RZ, **Alvi MA**, Saeed Z, Tahor I. **2023**. *Toxoplasma gondii* in Pakistan: a focus on food-borne transmission. Proceedings of Eurasia International Scientific Research and Innovation Congress, Turkiye. September 6-8, 2023. Pp: 176.
7. **Alvi, MA**, Imran M, Imran M, Qamar W. **2023**. Parasitism in backyard poultry - issues to address. Proceeding of International Poultry Science Conferences organized by University of Veterinary and Animal Sciences, Lahore, Pakistan. Page 82.
8. Ahmed S, Saleemi MK, Rizvi F, Khatoon A, **Alvi MA**, Imran M, Gul AST Imran N. **2023**. Autolyzed yeast: a promising intervention for countering ochratoxin-induced hematobiochemical and histopathological alterations in broiler birds. Proceeding of International Poultry Science Conferences organized by University of Veterinary and Animal Sciences, Lahore, Pakistan. Page 58.
9. Imran M, Abbas RZ, Sindhu Z, **Alvi MA**, Imran M, Ijaz MU. **2022**. Negative impact of global warming on wildlife: A Food for thought. Proceedings of International Conference on "Remote Sensing and GIS Integration in Veterinary, Agricultural & Health Sciences (RGVAHS-2022). Faculty of Veterinary and Animal Sciences, MNS-University of Agriculture, Multan, Pakistan; 23 & 24 February, 2022, pp: 40-41.
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Professional Trainings

1. One-Day Sino-Pakistan Workshop on Control of Major Livestock Diseases (November 17, 2023) **(International)**
2. Training Program on Regional Guidelines for Collecting and Transporting Priority Pathogens in Pakistan (Sponsored
by the U.S. National Academies of Science, Engineering, and Medicine, NIH-Pakistan, Pakistan Academy of Sciences, Health Security Partners) (June 19 – June 21, 2023) **(International)**
3. Hands on Workshop on Study Design and Analysis in Biomedical Research (2-3 June, 2022) **(National)**
4. One Day Workshop on Primer Designing, Optimization, Phylogenetic Analysis and Its Applications in Biomedical Field **(24-08-2022) (National)**
5. Induction Training Workshop for Newly Appointed Faculty (15-17 March, 2022) **(National)**
6. National Training Workshop on ELISA based Diagnostics (26-05-2022) **(National)**
7. 1st National Hands-on-Training Workshop on Primer Designing (28-09-2019) **(National)**
8. 20-Days International Training on Traditional Chinese Veterinary Medicine, China (July 8 – July 27, 2019) **(International)**
9. Training Workshop on Mycoplasma Isolation and Identification in Animals: Special Focus on *Mycoplasma capricolum* subsp. *Capri pneumonia* (Mccp) **(International)**
10. Three-Days Training Workshop on Statistics for Veterinary and Animal Sciences, using R-software (July 17 to July 19, 2017) **(National)**
11. Advanced Training on Isolation and Quarantine Response Strategies in Events of a Biological Disease Outbreak held in Thailand, **2017** (27 contact hours, conducted and funded by University of Tennessee, USA) **(International)**
12. One-Day Workshop on Next Generation Sequencing Using Bioinformatics Approaches (13-03-2017) **(National)**
13. One day workshop on Techniques in Eukaryotic Cell Culture (07-02-2017) **(National)**
14. Capacity Building Workshop on Biosafety Measures in Agriculture (February 20-21, 2017) **(National)**
15. Workshop on Technical & Patent Writing (28-01-2017) **(National)**
16. Training on Isolation and Quarantine Response Strategies in Events of Biological Disease Outbreak held in Malaysia, **2016** (28 contact hours, conducted and funded by University of Tennessee, USA) **(International)**
17. Workshop on Research Methods in Nutrition (December 13-14, 2016) **(National)**
18. One-Day Workshop on Strategic Use of Digital Technology in University Education organized by U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security (October 17, 2016) **(International)**
19. Training Workshop on Diagnosis of Viral Diseases (September 20-22, 2016) **(National)**
20. Four-Day Workshop on Diagnostic Imaging (20-23 June, 2016) **(National)**
21. Two-Days Workshop on Applied Physiology and Pharmacological Techniques for Young Scientists (February 12-13, 2016) **(National)**
22. Workshop on Holding Effective Seminars: Engaging the Audience (12-01-2016) **(International)**
23. Six-Days Workshop on Young Faculty Capacity Sharing Program (October 15-20, 2015) **(National)**

Seminars

1. National Symposium on One-Health (September 08, 2021) **(National)**
2. Seminar on Investigation of circulatory liver-specific microRNAs as non-invasive diagnostic biomarkers of hepatitis (27-02-2018) **(National)**
3. Seminar on Role of Microbes in Sustainable Development (22-12-2017) **(National)**
4. Dairy Business Potential – Some Facts and Future Projections **(National)**
5. National One Day Symposium on One-Health organized by U.S.-Pakistan Center for Advanced Studies in Agriculture and Food Security (08-08-2016) **(National)**
6. Seminar on Epidemiology and Control of Hepatitis (November 21, 2015) **(National)**
7. Epidemiology and Control of Brucellosis (November 28, 2015) **(National)**
8. Epidemiology and Control of Mastitis (December 05, 2015) **(National)**
9. International Seminar on Poultry Diseases organized by World Veterinary Poultry Association (14-15 December, 2015) **(International)**
10. Vaccination and Immunogenesis (December 19, 2015) **(National)**

Conferences

1. Two Dyas International Conference on Dairy Animal Health Challenges (17-18 January, 2018) **(International)**
2. International Conference of Biochemistry, Biotechnology and Biomaterials (February 22-24, 2016) **(International)**
3. The 4th International Conference on New Horizons in Basic and Applied Sciences organized by Al-Azhar University, Egypt (26-29 July, 2019) **(International)**

Events Organized (As Member of Committees)

1. 4th BRI Sino-Pakistan Agriculture Forum 2023 **(International)**
2. The Pirbright Institute's Knowledge Exchange Seminar at UAF. (06-04-2022) **(International)**
3. Member Organizing Committee to Celebrate World Animal Day (04-10-2022) **(National)**
4. Drug Abuse and Advances in Blood Testing (24-03-2022) **(National)**
5. Healthy Heart Symposium (29-09-2021) **(National)**

Scientific skills / expertise

1. Expertise in wide range of serological and molecular techniques
2. Epidemiological investigations
3. Sequencing analyses and Bayesian phylogeny
4. Population structural analyses
5. Well versed with statistical tools and analysis of data (WinPepi, Statistix, R-software)
6. Excellent command over computer and IT skills