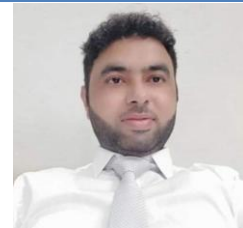


Curriculum Vitae

Dr. Muhammad Imran
Assistant Professor
Department of Pathology
University of Agriculture, Faisalabad, Pakistan



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Career Objective

Dedicated veterinary pathologist with specialized expertise in poultry toxicopathology and molecular pathology. Committed to high-quality research, innovative teaching, and translational diagnostics that contribute to One Health and sustainable livestock production.

Education

Ph.D. in Molecular Pathology – Huazhong Agricultural University, Wuhan, China (2017–2021)

Marks: 715/800

Thesis: Antiviral Strategies Against Flaviviruses and Molecular Pathogenesis

Supervisor: Prof. Cao S.

M.Phil. in Veterinary Pathology – University of Agriculture, Faisalabad, Pakistan (2014–2017)

CGPA: 3.86/4.00

Thesis: Immunopathological Effects of Ochratoxin A and Adenovirus in Broiler Birds

Supervisor: Dr. Muhammad Kashif Saleemi

Doctor of Veterinary Medicine (D.V.M.) – University of Agriculture, Faisalabad, Pakistan (2009–2014)

CGPA: 3.88/4.00

Academic Positions

Assistant Professor (TTS), Department of Pathology, University of Agriculture, Faisalabad (2022 – Present)

Lecturer (Pathology), University of Agriculture, Faisalabad (2015 – 2022)

Supervision

Ph.D.: 1 (ongoing)

M.Phil.: 10 (completed), 3 (ongoing)

Undergraduate Projects: Numerous

Conferences & Workshops

Presenter, Poultry Expo, Lahore, 2023

Organizer, International Symposium on Poultry Health, 2023

Attendee, BRM/HEC Capacity Workshops (2022–2024)

Awards & Recognitions

- Silver Medalist (DVM 2009–2014), UAF
- PVMA Silver Medal, 2014
- PIF Research Grant Awardee (MoPD&SI), 2023

Academic/Administrative Services

Co-Incharge, Diagnostic Laboratory (since 2022)

Member: Course Review, Stakeholder Linkage, Skill Development, QEC Committees

Advisor and Tutor, DVM Students

Reviewer: International Journal of Veterinary Sciences, Infectious Medicine

Research Projects & Grants

- **Principal Investigator**, “Development of a Novel Herbal Product for the Treatment of Colibacillosis in Poultry as a Sustainable Alternative to Antibiotics” – Funded by Pakistan Innovation Fund (PIF), PKR 6.033 million, 2024–2027 (ongoing)
- **Principal Investigator**, “Molecular Epidemiology and Antimicrobial Susceptibility Profile of Avian Salmonella Isolates in Commercial Poultry of Faisalabad” – Submitted to Endowment Fund Secretariat (EFS), PKR 3.587 million (submitted)
- **Principal Investigator**, “Comparative Antimicrobial Resistance Profiling and Genomic Characterization of Human and Poultry-Derived Salmonella Strains” – Submitted to National Institutes of Health (NIH), PKR 1.5 million (under review), PKR 1.5 million (under review)

Publications

Imran M, Saleemi MK, Khan A, Gul ST, Jamil M, Alvi MA, Yar A. Immunopathological effects of co-exposure to ochratoxin A and FAdV-4 in broilers. *British Poultry Science*. 2025 Dec 3:1-2.

Aslam M, **Imran M***, Saleemi MK, Anwar MN, Hassan SU, Auon M, Jamil M, Yar A. Amelioration of ochratoxin A-Induced immunotoxicity and lymphoid tissue injury in poultry using pumpkin seed supplementation: A natural feed-based approach. *Microbial Pathogenesis*. 2025 Dec 1;209:108112.

Tanveer M, **Imran M***, Saleemi MK, Shareef M, Imran M, Umar S. N-acetylcysteine as a feed additive to counteract ochratoxin A toxicity in poultry. *Food Additives & Contaminants: Part A*. 2025 Aug 13:1-5.

Atif FA, Arif S, **Imran M**, Arshad M. Molecular Epidemiology and Detection of Mutation in Cytochrome b Gene of *Theileria annulata* Associated with Buparvaquone Resistance in Bovines from Punjab, Pakistan. *Pakistan Veterinary Journal*. 2025 Apr 1;45(2).

Imran M, Saleemi MK, Chen Z, Wang X, Zhou D, Li Y, Zhao Z, Zheng B, Li Q, Cao S, Ye J. Decanoyl-arg-val-lys-arg-chloromethylketone: An antiviral compound that acts against flaviviruses through the inhibition of furin-mediated prM cleavage. *Viruses*. 2019

Nov;11(11):1011.

Imran M, Zhang L, Zheng B, Zhao Z, Zhou D, Wan S, Chen Z, Duan H, Li Q, Liu X, Cao S, Ke S, Ye J. Screening of Novel Synthetic Derivatives of Dehydroepiandrosterone for Antivirals against Flaviviruses Infections. *Virologica Sinica*. 2022 Feb 1;37(1):94-106.

Imran M, Cao S, Wan SF, Chen Z, Saleemi MK, Naseem NW, Munawar J. Mycotoxins—a global one health concern: A review. *Agrobiological records*. 2020;2:1-6.

Imran M, Ye J, Saleemi MK, Shaheen I, Zohaib A, Chen Z, Cao S. Epidemiological trends of mosquito-borne viral diseases in Pakistan. *Animal Diseases*. 2022 2(1):1-0.

Ma J, Wu D, Xu C, He Q, Wang M, **Imran M**, Nazar M, Li K. Lactobacillus salivarius alleviated Dextran sulfate sodium (DSS)-induced colitis in mice by mitigating oxidative stress and inflammatory responses through modulation of the intestinal flora. *Microbial Pathogenesis*. 2025 May 10:107696.

Jamil M, Khatoon A, Saleemi MK, Abidin ZU, Abbas RZ, Ul-Hassan Z, Bhatti SA, Irshad H, **Imran M**, Raza QS. Use of phytochemicals to control the Mycotoxicosis in poultry. *World's Poultry Science Journal*. 2024 Jan 2;80(1):237-50.

Saleemi MK, Raza A, Khatoon A, Zubair M, Yongping X, Murtaza B, Li X, Jamil M, **Imran M**, Muhammad F, Zubair K, Bhatti SA, Rafique MK, Ahmed I, Azal F, Jubeen F and Basit A, 2023. Toxic effects of aflatoxin B1 on hematobiochemical and histopathological parameters of juvenile white leghorn male birds and their amelioration with vitamin E and Moringa oleifera. *Pak Vet J*. <http://dx.doi.org/10.29261/pakvetj/2023.053>

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 and Jia W-Z (2023) Revealing novel cytb and nad5 genes-based population diversity and benzimidazole resistance in *Echinococcus granulosus* of bovine origin. *Front. Vet. Sci.* 10:1191271. doi: 10.3389/fvets.2023.1191271

Zhang L, Zhou D, Li Q, Zhu S, **Imran M**, Duan H, Cao S, Ke S, Ye J. The Antiviral Effect of Novel Steroidal Derivatives on Flaviviruses. *Frontiers in Microbiology*. 2021:2920.

Ashraf A, Saleemi MK, Mohsin M, Gul ST, Zubair M, Muhammad F, Bhatti SA, Hameed MR, **Imran M**, Irshad H, Zaheer I. Pathological effects of graded doses of aflatoxin B1 on the development of the testes in juvenile white leghorn males. *Environmental Science and Pollution Research*. 2022 Mar 12:1-0.

Chen Z, Zhao Z, Liu Y, **Imran M**, Rao J, Cai N, Ye J, Cao S. Nucleotide-Binding Oligomerization Domain 1 (NOD1) Positively Regulates Neuroinflammation during Japanese Encephalitis Virus Infection. *Microbiology Spectrum*. 2022 May 31:e02583-21.

Gul ST, Mahmood S, Bilal M, Saleemi MK, **Imran M**, Zubair M. Acute phase proteins as biomarkers in perspective to animal diseases diagnosis. *Agrobiological Records*. 2022;9:45-57.

Wang X, Zheng B, Ashraf U, Zhang H, Cao C, Li Q, Chen Z, **Imran M**, Chen H, Cao S, Ye J. Artemisinin inhibits the replication of flaviviruses by promoting the type I interferon

production. *Antiviral research*. 2020 Jul 1;179:104810.

Li Y, Ashraf U, Chen Z, Zhou D, **Imran M**, Ye J, Chen H, Cao S. Genome-wide profiling of host-encoded circular RNAs highlights their potential role during the Japanese encephalitis virus-induced neuroinflammatory response. *BMC genomics*. 2020 Dec;21(1):1-1.

Huang S, Li B, Ashraf U, Li Q, Lu X, Gao X, Cui M, **Imran M**, Ye J, Cao F, Gu J. Quaternized Cationic Carbon Dots as Antigen Delivery Systems for Improving Humoral and Cellular Immune Responses. *ACS Applied Nano Materials*. 2020 Aug 5;3(9):9449-61.

Zhao Z, Tao M, Han W, Fan Z, **Imran M**, Cao S, Ye J. Nuclear localization of Zika virus NS5 contributes to suppression of type I interferon production and response. *Journal of General Virology*. 2021 Mar 1;102(3):001376.

Zohaib A, Niazi SK, Saqib M, Sajid MS, Khan I, Athar MA, Taj Z, Abbas G, Abbas G, Rathore MA, Ghani E, Naeem MA, **Imran M**, Iqbal N, Rehman S, Waruhiu C, Shi ZL. Detection of West Nile virus lineage 1 sequences in blood donors, Punjab Province, Pakistan. *International Journal of Infectious Diseases*, 2019, 81:137-139

Naseem MN, Saleemi MK, Abbas RZ, Khan A, Khatoon A, Gul ST, **Imran M**, Sindhu Z-u-D, Sultan A. Hematological and Serum Biochemical Effects of Aflatoxin B1 Intoxication in Broilers Experimentally Infected with Fowl Adenovirus-4 (FAdV-4). *Pakistan Veterinary Journal*, 2018, 38

Teaching Experience

Courses taught (2014-17, 2022-2025):

- General Veterinary Pathology
- Poultry Pathology
- Necropsy Practice
- Forensic Pathology
- Pathology of Avian, Ruminant, Pet, and Wildlife Diseases

Professional Memberships

- Pakistan Veterinary Medical Council (PVMC)
- Pakistan Society of Veterinary Pathology (PSVP)
- World Veterinary Poultry Association (WVPA)

Skills

- Toxicological pathology, Molecular diagnostics, Histopathology
- *In-vitro* and *In-vivo* experimentations, different techniques like cell culture, viral infections, RNA/DNA/protein extraction, gene expression analysis, plaque assay, immunofluorescence assay, Western blotting, transfection, microscopic examination, ELISA, PCR, RT-PCR, qRT-PCR, ELISA, Histopathology, Immunohistochemistry, HAI, Necropsy, Bacterial culture
- SPSS, GraphPad Prism, EndNote, MS Office

Book Chapters

Imran M, et al., 2023. *Zika Virus: A Pathological and Clinical Perspective*. In: One Health Triad, Vol. I, pp. 121-127. <https://doi.org/10.47278/book.oh/2023.19>

Imran M, et al., 2022. *Metabolic Disorders of Poultry*. In: Animal Health Perspectives, Vol. I,

pp. 221–226. <https://doi.org/10.47278/book.ahp/2022.29>

Jamil M, Imran M, et al., 2023. *An Overview of Copper Toxicity and Public Health Concerns*. In: One Health Triad, Vol. II, pp. 162–167. <https://doi.org/10.47278/book.oht/2023.564>

Bilal M, Imran M, et al., 2023. *Emerging Infectious Diseases in Perspective to Climatic Conditions*. In: One Health Triad, Vol. I, pp. 201–208. <https://doi.org/10.47278/book.oht/2023.30>

Jamil M, Imran M, et al., 2023. *COVID-19 Pandemic: Its Public Health Concern and Economic Outcomes*. In: One Health Triad, Vol. I, pp. 86–91. <https://doi.org/10.47278/book.oht/2023.14>

Haider A, Imran M, et al., 2022. *Handling of Anthrax Outbreaks: Future Perspectives*. In: Animal Health Perspectives, Vol. II, pp. 78–85. <https://doi.org/10.47278/book.ahp/2022.45>

Jamil M, Imran M, et al., 2022. *Mycotoxins Prevalence and Preventive Strategies in Poultry*. In: Animal Health Perspectives, Vol. II, pp. 190–200. <https://doi.org/10.47278/book.ahp/2022.59>

Conference Presentations & Abstracts

Imran M, et al., 2022. *Impact of Climate Change and Arbovirus Dispersal in Pakistan*. MNS-University of Agriculture Multan.

Imran M, et al., 2022. *Negative Impact of Global Warming on Wildlife*. MNS-University of Agriculture Multan.

Alvi MA, Imran M, et al., 2022. *Climate Change and Tick-Borne Diseases*. MNS-University of Agriculture Multan.

Abbas G, Imran M, et al., 2016. *Molecular Basis of CTX-M Beta-lactamases*. University of South Asia, Lahore.

Samiullah M, Imran M, et al., 2015. *Oil-Based Vaccine Against Pigeon Paramyxoviruses*. UAF Poultry Seminar.

Samiullah M, Imran M, et al., 2015. *Detection of Paramyxoviruses from Pigeon Outbreaks*. UAF Poultry Seminar.

Saleemi MK, Imran M, et al., 2016. *Toxicopathology of Sangrovit® in Broilers*. XXV World Poultry Congress, Beijing.

Saleemi MK, Imran M, et al., 2016. *Moldy Feed Toxicity in Leghorns and Bentonite Clay Use*. XXV World Poultry Congress, Beijing.

Asghar HMU, Imran M, et al., 2016. *Side Effects of Gossypol in Livestock*. Veterinary News and Views.

Conference Workshops & Training (Organized/Attended)

Enhancing Diagnostic Labs – Biorisk Management Program, 2022

Workshop on Chicken Infectious Anemia & IB – UAF, 2021

3rd National Symposium on One Health – UAF, 2021

Molecular Diagnosis of Viral Diseases – UAF, 2017

Isolation & Quarantine Response Strategies – Bangkok, Thailand, 2016

All-Hazards Training Program – Kuala Lumpur, Malaysia, 2017

Vaccination and Immunogenesis – UAF, 2015

Epidemiology and Control of Brucellosis – UAF, 2015

International Seminar on Poultry Diseases – UAF, 2015

References

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