

Name **Dr. Mujahid Iqbal**
Education: DVM, PhD (HZAU, China)



Designation: Assistant Professor
Department: Department of Pathology

Name: Dr. Mujahid Iqbal

Contact: 03337656869

Email: mujahidiqbal@cuvas.edu.pk

Office Address: Department of Pathology, Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur

- **Biography:**

Dr. Mujahid Iqbal is an Assistant Professor of Pathology at the Cholistan University of Veterinary and Animal Sciences (CUVAS) in Bahawalpur, Pakistan. His career is dedicated to pathology, where he actively balances teaching, necropsy diagnostics, and the mentorship of postgraduate researchers. Alongside his primary academic responsibilities, Dr. Iqbal remains deeply engaged with the global scientific community, frequently serving in editorial roles and as a peer reviewer for various international scientific publications.

- **Areas of Interest:**

- Investigating the molecular and pathological mechanisms of avian orthopedic diseases, with a specific focus on tibial dyschondroplasia and evaluating potential therapeutic interventions.
- Assessing the toxicological impacts, oxidative stress, and histopathological changes induced by environmental pollutants, agricultural herbicides, and heavy metals on animal health.
- Exploring the role of the gut microbiome and the gut-liver axis in disease progression, as well as the remedial effects of probiotics and plant-based compounds.

- **Trainings/Courses/ Workshops:**

Licenses and Certifications

- AI for Everyone, DeepLearning.AI, Issued July 2025
- What is Data Science? IBM, Issued Aug 2025
- Tools for Data Science, IBM, Issued Sep 2025
- Data Science Methodology, IBM, Issued Sep 2025
- Registered Veterinary Medical Faculty, Pakistan Veterinary Medical Council

-Registered Veterinary Medical Practitioner (RVMP), Pakistan Veterinary Medical Council

Training and Workshops

-Day 1 Competency for Veterinary Graduates (One-day workshop, CUVAS, 01/09/2025)

-Use of Generative Artificial Intelligence in Higher Education (January 31 – February 01, 2024, UVAS, Lahore)

-Data Analysis with R (July 17th to 21st, 2023, CUVAS, Bahawalpur)

-Organizer, International Training in Lumpy Skin Disease (CUVAS and FLI, Germany)

-Webinar, Research Ethics Organized by PASTIC Sub Centre Karachi (July 20, 2022)

-Training on Diagnosis and Control of Lumpy Skin Disease Organized by National Veterinary Laboratory (NVL), Islamabad (8 – 9th March 2022)

-02 Refresher Course on Biorisk Management (06 – 07 October) By Association for Biorisk Management in Collaboration with Health Security Partner and CUVAS

-Knowing Cancer in Small Animals to Improve Their Quality of Life (08 – 10 July 2021) Organized by Pakistan Veterinary Medical Council (PVMC) and UVAS, Lahore

-05 Day Virtual Training on Biorisk Management (28 December – 01 January 2021) By Association for Biorisk Management in Collaboration with Health Security Partner and CUVAS

-Faculty Orientation Training (02 – 06 November 2020) by PHEC

-Organizer, Webinar on Status of Ticks and Tick-Borne Diseases of Ruminants in Pakistan (21 October 2020)

-International Webinar on “Statistical Package R: An Essential Tool for Genomics” (Dated: 14 October 2020) Organized by UVAS, Lahore

-Organizer, One-Day Hands on Training on Quantum Geographic Information System (QGIS) Software for Disease Mapping (11 March 2020) at CUVAS

-Application of SAS Statistical Techniques in Animal Production and Veterinary Sciences (02 May 2019) Organized by ORIC, CUVAS in Collaboration with Department of Livestock Management, CUVAS

-In-Service Competency Enhancement Training for University Faculty (Batch 2) in Collaboration with Center for Educational Policy and Administration, UVAS, Lahore (25 – 26 April 2019)

-Organizer, One-Day Hands on Training Workshop on “Application of Statistical Package for Social Sciences (SPSS) in Research (23 April 2019)

-Attended 1st International Workshop on Biodiversity: Techniques and Tools Organized by Department of Zoology, CUVAS (04 – 05 April 2019)

- **Publications:**

Li, Yuanliang, Yi, J., Liu, K., Liu, X., Yangzom, C., Pan, J., Iqbal, M., Hu, L., Tang, Z., Li, Ying, 2025. Mn₂O₃ NPs-induced liver injury is potentially associated with gut microbiota dysbiosis in broiler chicken. Food and Chemical Toxicology 115487. <https://doi.org/10.1016/j.fct.2025.115487> (IF 3.9)

Arshad, N., Alam, S., Rafay, M., Jabeen, G., Hussain, K., Hussain, R., Ullah, M.I., Iqbal, M., Fouad, D., Ataya, F.S., 2024. Effects of environmental relevant concentrations of acetochlor on growth, hematology, serum biochemistry and histopathology of Japanese quail. PLoS One 19, e0306583. <https://doi.org/10.1371/journal.pone.0306583> (IF 2.9)

Li, L., Xiao, S., Dai, X., Tang, Z., Wang, Y., Ali, M., Ataya, F.S., Sahar, I., Iqbal, M., Wu, Y., 2024. Multi-omics analysis and the remedial effects of Swertiamarin on hepatic injuries caused by CCl₄. Ecotoxicology and Environmental Safety 282, 116734. <https://doi.org/10.1016/j.ecoenv.2024.116734> (IF 6.2)

Xu, C., Ali, M., Sun, J., Li, X., Fouad, D., Iqbal, M., Kulyar, M.F.-A., Wu, Y., Li, K., 2024. Protective effects of *Abrus cantoniensis* Hance against liver injury through modulation of intestinal microbiota and liver metabolites. Ecotoxicology and Environmental Safety 279, 116495. <https://doi.org/10.1016/j.ecoenv.2024.116495> (IF 6.2)

Kulyar, M.F-e-A., Zou, W., Lu, S., Loon, K.S., Akhtar, M., Ihsan, A., Nawaz, S., Ahmed, A.E., Abdelrahman, M., Wu, Y., Iqbal, M. and Li, K., 2023 Editorial: Interaction between food homologous plants and intestinal microbiota. Frontiers in Microbiology 14:1230234. <https://doi.org/10.3389/fmicb.2023.1230234> (IF 5.2)

Chang, Z., Xiao, Q., Ye, Y., Iqbal, M., Duan, M., Chamba, Y., Shang, P., 2023. Isolation, Identification and Biological Characteristics of *Lactobacillus reuteri* from Tibetan Pigs. Pakistan Journal of Zoology 1-6. <https://dx.doi.org/10.17582/journal.pjz/20220702030717> (IF 0.687)

Chang, Z., Bo, S., Xiao, Q., Wang, Y., Wu, X., He, Y., Iqbal, M., Ye, Y., Shang, P., 2022. Remodeling of the microbiota improves the environmental adaptability and disease resistance in Tibetan pigs. Frontiers in Microbiology 13. <https://doi.org/10.3389/fmicb.2022.1055146> (IF 4.076)

Yi, J., Li, Yuanliang, Mai, Q., Li, Yaxuan, Lin, Y., Weng, X., Ai, Z., Li, M., Shang, P., Iqbal, M., Mehmood, K., Chang, Y.F., Tang, Z., Zhang, H., Li, Ying, 2022. Hepatotoxicity and the role of the gut-liver axis in dogs after oral administration of zinc oxide nanoparticles. Metallomics 14, mfac066. <https://doi.org/10.1093/mtomcs/mfac066> (IF 4.52)

Fan, S., Dong, H., Ma, H., Wang, B., Iqbal, M., Zou, M., Qi, M., Cao, Z., 2022. Meta-analysis on the prevalence of bovine hydatid disease in China from 2000 to 2021. *Microbial Pathogenesis* 168, 105586. <https://doi.org/10.1016/j.micpath.2022.105586> (IF 3.68)

Wu, S., Wang, Y., Iqbal, M., Mehmood, K., Li, Y., Tang, Z., Zhang, H., 2022. Challenges of fluoride pollution in environment: Mechanisms and pathological significance of toxicity – A review. *Environmental Pollution* 304, 119241. <https://doi.org/10.1016/j.envpol.2022.119241> (IF 8.07)

Liu, K., Li, Y., Iqbal, M., Tang, Z., Zhang, H., 2022. Thiram exposure in environment: A critical review on cytotoxicity. *Chemosphere* 295, 133928. <https://doi.org/10.1016/j.chemosphere.2022.133928> (IF 7.08)

Hussain, H.I., Iqbal, Z., Iqbal, M., Kuang, X., Wang, Y., Yang, L., Ihsan, A., Aqib, A.I., Kaleem, Q.M., Gu, Y., Hao, H., 2022. Coexistence of virulence and β -lactamase genes in avian pathogenic *Escherichia coli*. *Microbial Pathogenesis* 163, 105389. <https://doi.org/10.1016/j.micpath.2022.105389> (IF 3.68)

Chen, J., Su, Y., Lin, F., Iqbal, M., Mehmood, K., Zhang, H., Shi, D., 2021. Effect of paraquat on cytotoxicity involved in oxidative stress and inflammatory reaction: A review of mechanisms and ecological implications. *Ecotoxicology and Environmental Safety* 224, 112711. <https://doi.org/10.1016/j.ecoenv.2021.112711> (IF 6.29)

Yao, W., Zhang, H., Fakhar-e-Alam Kulyar, M., Ding, Y., Waqas, M., Mehmood, K., Iqbal, M., Du, H., Jiang, X., Li, J., 2020. Effect of total flavonoids of *Rhizoma Drynariae* in thiram induced cytotoxicity of chondrocyte via BMP-2/Runx2 and IHH/PTHrP expressions. *Ecotoxicology and Environmental Safety* 206, 111194. <https://doi.org/10.1016/j.ecoenv.2020.111194> (IF 6.29)

Zhang, H., Mehmood, K., Jiang, X., Li, Z., Yao, W., Zhang, J., Tong, X., Wang, Y., Li, A., Waqas, M., Iqbal, M., Li, J., 2019. Identification of differentially expressed MiRNAs profile in a thiram-induced tibial dyschondroplasia. *Ecotoxicology and Environmental Safety* 175, 83–89. <https://doi.org/10.1016/j.ecoenv.2019.03.043> (IF 3.97)

Li, A., Wang, Y., Suolang, S., Mehmood, K., Jiang, X., Zhang, L., Li, Z., Waqas, M., Iqbal, M., Basang, W., Li, J., 2019. Isolation and identification of potential bacillus probiotics from free ranging yaks of Tibetan Plateau, China. *Pakistan Veterinary Journal* 39, 377–382. <https://doi.org/10.29261/pakvetj/2019.032> (IF 1.38)

Jiang, X., Zhang, H., Mehmood, K., Li, K., Zhang, L., Yao, W., Tong, X., Li, A., Wang, Y., Jiang, J., Iqbal, M., Waqas, M., Li, J., 2019. Effect of anacardic acid against thiram induced tibial dyschondroplasia in chickens via regulation of Wnt4 expression. *Animals* 9, 82. <https://doi.org/10.3390/ani9030082> (IF 1.65)

Wang, Y., Li, A., Jiang, X., Zhang, H., Mehmood, K., Zhang, L., Jiang, J., Waqas, M., Iqbal, M., Li, J., 2018. Probiotic Potential of *Leuconostoc pseudomesenteroides* and *Lactobacillus* Strains Isolated From Yaks. *Frontiers in Microbiology* 9. <https://doi.org/10.3389/fmicb.2018.02987> (IF 4.01)

Yao, W., Zhang, H., Jiang, X., Mehmood, K., Iqbal, M., Li, A., Zhang, J., Wang, Y., Waqas, M., Shen, Y., Li, J., 2018. Effect of total flavonoids of rhizoma drynariae on tibial dyschondroplasia by regulating BMP-2 and Runx2 expression in chickens. *Frontiers in Pharmacology* 9, 1251. <https://doi.org/10.3389/fphar.2018.01251> (IF 3.83)

Mehmood, K., Zhang, H., Jiang, X., Yao, W., Tong, X., Iqbal, M.K., Rehman, M.U., Iqbal, M., Waqas, M., Qamar, H., Zhang, J., Li, J., 2019. Ligustrazine recovers thiram-induced tibial dyschondroplasia in chickens: Involvement of new molecules modulating integrin beta 3. *Ecotoxicology and Environmental Safety* 168, 205–211. <https://doi.org/10.1016/j.ecoenv.2018.10.080> (IF 3.97)

Zhang, H., Mehmood, K., Jiang, X., Yao, W., Iqbal, M., Waqas, M., Rehman, M.U., Li, A., Shen, Y., Li, J., 2018. Effect of tetramethyl thiuram disulfide (thiram) in relation to tibial dyschondroplasia in chickens. *Environmental Science and Pollution Research* 25, 28264–28274. <https://doi.org/10.1007/s11356-018-2824-2> (IF 2.8)

Iqbal, M., Zhang, H., Mehmood, K., Li, A., Jiang, X., Wang, Y., Zhang, J., Iqbal, M.K., Rehman, M.U., Yao, W., Yang, S., Li, J., 2018. Icariin: A Potential Compound for the Recovery of Tibial Dyschondroplasia Affected Chicken Via Up-Regulating BMP-2 Expression. *Biological Procedures Online* 20, 1–7. <https://doi.org/10.1186/s12575-018-0080-y> (IF 3.58)

Jiang, X., Zhang, H., Mehmood, K., Li, K., Ma, M., Song, Q., Liu, F., Zheng, J., Li, A., Zhang, J., Wang, Y., Iqbal, M., Li, J., 2018. Protective effects of herpetospermum caudigerum extracts against liver injury induced by carbon tetrachloride in mouse. *Journal of Biological Regulators and Homeostatic Agents* 32, 699–704. (IF 1.46)

Iqbal, M. K., Nabi, F., Mehmood, K., Ur Rehman, M., Huang, S., Zhang, H., Zhang, L., Ahmad, H.I., Iqbal, M., Li, J., Shen, Y., 2018. Healing of growth plate cartilage by hypoxia inducible factor-1 α inhibitor apigenin on thiram induced tibial dyschondroplasia. *Pakistan Veterinary Journal* 38, 143–148. <https://doi.org/10.29261/pakvetj/2018.034> (IF 0.81)

Zhang, H., Mehmood, K., Jiang, X., Yao, W., Iqbal, M., Li, K., Tong, X., Wang, L., Wang, M., Zhang, L., Nabi, F., Rehman, M.U., Li, J., 2018. Effect of icariin on tibial dyschondroplasia incidence and tibial characteristics by regulating P2RX7 in chickens. *Biomed Research International* 2018. <https://doi.org/10.1155/2018/6796271> (IF 2.58)

Huang, S.C., Zhang, L.H., Zhang, J.L., Rehman, M.U., Tong, X. Le, Qiu, G., Jiang, X., Iqbal, M., Shahzad, M., Shen, Y.Q., Li, J.K., 2018. Role and regulation of growth plate vascularization during coupling with osteogenesis in tibial dyschondroplasia of chickens. *Scientific Reports* 8, 3680. <https://doi.org/10.1038/s41598-018-22109-y> (IF 4.25)

Wang, L., Zhang, H., Rehman, M.U., Mehmood, K., Jiang, X., Iqbal, M., Tong, X., Gao, X., Li, J., 2018. Antibacterial activity of *Lactobacillus plantarum* isolated from Tibetan yaks. *Microbial Pathogenesis* 115, 293–298. <https://doi.org/10.1016/j.micpath.2017.12.077> (IF 2.33)

Wu, Q., Zhang, H., Mehmood, K., Li, K., Chang, Z., Jiang, X., Tian, F., Nabi, F., Iqbal, M., Ijaz, M., Ur Rehman, M., Dong, H., Li, J., 2018. Biological characteristics and phylogenetic analysis of lactic acid bacteria isolated from free-range yaks (*Bos grunniens*) in Qinghai-Tibet plateau. *International Journal of Agriculture and Biology* 20, 902–906. <https://doi.org/10.17957/IJAB/15.0596> (IF 0.86)

Iqbal, M. K., Nabi, F., Rehman, M.U., Mehmood, K., Huang, S., Zhang, H., Zhang, L., Iqbal, M., Li, J., 2018. FK228 recovers thiram-induced tibial dyschondroplasia in chicken via hypoxia inducible factor-1 α . *Journal of Biological Regulators and Homeostatic Agents* 32, 89–95. (IF 1.46)

Mehmood, K., Zhang, H., Iqbal, M.K., Rehman, M.U., Li, K., Huang, S., Shazad, M., Nabi, F., Iqbal, M., Li, J., 2018. Tetramethylpyrazine Mitigates Toxicity and Liver Oxidative Stress in Tibial Dyschondroplasia Chickens. *Pakistan Veterinary Journal* 38, 76–80. <https://doi.org/10.29261/pakvetj/2018.015> (IF 0.81)

Iqbal, M., Tao, Y., Yuan, Z., 2017. Book Review: Food Safety: Emerging Issues, Technologies, and Systems. *Frontiers in Microbiology* 8, 1–2. <https://doi.org/10.3389/fmicb.2017.00987> (IF 4.07)

Ahmad, I., Qu, W., Yuan, Z., Li, J., Mingyue, L., Iqbal, M., Shabbir, M.A.B., Yuan, Z., 2017. Receptor-based screening assays for the detection of antibiotics residues – A review. *Talanta* 166, 176–186. <https://doi.org/10.1016/j.talanta.2017.01.057> (IF 4.16)

Sattar, A., Xie, S., Hafeez, M.A., Wang, X., Hussain, H.I., Iqbal, Z., Pan, Y., Iqbal, M., Shabbir, M.A., Yuan, Z., 2016a. Metabolism and toxicity of arsenicals in mammals. *Environmental Toxicology and Pharmacology* 48, 214–224. <https://doi.org/10.1016/j.etap.2016.10.020> (IF 2.31)

Iqbal, M., Tao, Y., Xie, S., Zhu, Y., Chen, D., Wang, X., Huang, L., Peng, D., Sattar, A., Shabbir, M.A.B., Hussain, H.I., Ahmed, S., Yuan, Z., 2016. Aqueous two-phase system (ATPS): an overview and advances in its applications. *Biological Procedures Online* 18, 1–18. <https://doi.org/10.1186/s12575-016-0048-8> (IF 1.56)

Bakr Shabbir, M.A., Hao, H., Shabbir, M.Z., Hussain, H.I., Iqbal, Z., Ahmed, S., Sattar, A., Iqbal, M., Li, J., Yuan, Z., 2016. Survival and evolution of CRISPR-Cas system in prokaryotes and its applications. *Frontiers in Immunology* 7, 375. <https://doi.org/10.3389/fimmu.2016.00375> (IF 6.42)

Sattar, A., Xie, S., Huang, L., Iqbal, Z., Qu, W., Shabbir, M.A., Pan, Y., Hussain, H.I., Chen, D., Tao, Y., Liu, Z., Iqbal, M., Yuan, Z., 2016b. Pharmacokinetics and metabolism of cyadox and its main metabolites in beagle dogs following oral, intramuscular, and intravenous administration. *Frontiers in Pharmacology* 7, 236. <https://doi.org/10.3389/fphar.2016.00236> (IF 4.4)

- **Books edited Book chapters or monographs published:**

Sahar, I., Bilal, H.M., and Iqbal, M. 2025. The gut microbiome and human diseases. In: Ismael, S.S., Nisa, Q.U., Nisa, Z.U. and Aziz, S., (eds), *Diseases Across Life: From Humans to Land and Sea*. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 64-71.

- **Conferences attended/presented papers or posters**

Molecular characterization of f gene from velogenic strains of Newcastle disease virus isolated from Sahiwal, Pakistan (An International Multidisciplinary Conferences on Innovations in Biochemistry, Veterinary Medicine, and Pharmacology, February 06-07, 2023)

Zoonotic threat resistance and virulent avian pathogenic Escherichia coli: Virtual One Health International Conference. University of Veterinary and Animal Sciences, Lahore (Jhang Campus), Pakistan.

Antibiotic resistance and virulence Characteristics of β lactamase producing avian pathogenic Escherichia coli. University of Swabi, Pakistan.

Residual level of Sulfonamide in the meat available for human consumption in Pakistan. University of Veterinary and Animal Sciences, Lahore, Pakistan
-Symposium, Diagnostic Series: Diagnostic Avian Cases (Dated: 11 December 2020)
Organized by Davis-Thompson DVM Foundation.

- **Any other addition (Please mention Title and details)**
