

Dr. HASEEB KHALIQ, PhD

Assistant Professor, Department of Anatomy & Histology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur

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OBJECTIVE

Dedicated researcher with a background in teaching, research, and laboratory techniques related to organ development and microscopic analysis. Seeking a position where I can contribute my expertise while continuing to advance knowledge in comparative anatomy and tissue-based diagnostics through innovative research and collaboration.

BIOGRAPHY

Dr. Haseeb Khaliq is Assistant Professor in the Department of Anatomy & Histology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur. He completed his DVM and M.Sc. (Hons.) at the University of Agriculture, Faisalabad, Pakistan, and earned his PhD from Huazhong Agricultural University, Wuhan, China. He is a motivated researcher with strong time-management and interpersonal skills, experienced in developing and implementing laboratory techniques, and has published numerous articles in SCI-indexed journals. His major responsibilities include teaching, research, and departmental administration.

EDUCATION

2014 – 2018	PhD, Anatomy, Histology & Embryology Huazhong Agricultural University, Wuhan 430070, China
2011 – 2014	M.Sc. (Hons.), Livestock Management University of Agriculture, Faisalabad
2006 – 2011	Doctor of Veterinary Medicine (DVM) University of Agriculture, Faisalabad

WORK EXPERIENCE

2011 – Present	Teaching and Research
2018-Present	Assistant Professor (Anatomy & Histology Department)

MANAGEMENT EXPERIENCE

2018 – Present	Head of Department
2018 – Present	In-Charge, Board of Study
2018 – Present	Member, Scheme of Studies
2018 – Present	Member, Board of Faculty

HONORS AND AWARDS

2024	Best Researcher Award Cholistan University of Veterinary & Animal Sciences
2017	Distinguished International Scholar Award Huazhong Agricultural University, Wuhan, China
2014	International Scholarship Award Chinese Government

AREAS OF INTEREST / SKILLS

- Histomorphology
- Immunohistochemistry
- TUNEL assay
- Immunoblotting
- Morphometric analysis
- Various staining protocols
- Signaling-pathway studies
- qPCR

PUBLICATIONS

Journal Publications

1. Wu J, **Khaliq H**, Ke Y, Ullah Q, Sehgal SA, Yi X. 2026. Network pharmacology and integrative bioinformatics analyses identify PDE1A as a key target of pirfenidone in idiopathic pulmonary fibrosis. *PLoS One*. 21(4):e0342991.
2. Sarfraz M, Baboo I, Farooq Z, **Khaliq H**, Palangi V. 2026. Synergistic protection: integrating in silico and in vivo evidence for *Moringa oleifera* flavonoids as potent mitigators of deltamethrin toxicity. *Research in Veterinary Science*. 7:106187.
3. Usman M, Ashraf S, Yousaf MS, Hussain HI, Ijaz N, Ullah Q, **Khaliq H**, Rauf M, Raiz S, Gondal MA, Zaneb H. 2026. Effect of dietary supplementation of mannan oligosaccharide on gut morphology of pre-weaning calves. *Sarhad Journal of Agriculture*. 42(1):326-38.
4. Rehman AU, Farooq Z, Baboo I, **Khaliq H**. 2025. The protective role of *Moringa oleifera* in reproductive traits of cadmium chloride-exposed Japanese quails. *JAPS: Journal of Animal & Plant Sciences*. 35(4).
5. Khan MT, Afzal Z, Arslan M, Asad T, Nisa Q, Akhtar R, Siddique B, Nazir S, Farooq Z, Wadood F, Younas U, **Khaliq H**. 2025. Effect of water-based nutritional supplement on growth performance, carcass characteristics, serum biochemistry, and immunological response of broiler chicken. *Journal of the Hellenic Veterinary Medical Society*. 76:9209-16.
6. Shafiq M, Hussain J, Mehmood S, Farooq U, Mustafa R, Aslam S, Khan MT, Ali F, Khalid MF, Ullah MI, **Khaliq H** et al. 2025. Phenotypic characterisation of four naked neck chicken ecotypes indigenous to Pakistan. *South African Journal of Animal Science*. 55(4):212-224.
7. Raziq F, Khan MT, Ullah A, Farooq U, Akhtar R, Siddique B, Abbas G, Ali F, Aslam S, **Khaliq H**, Ali H. 2025. Effects of various semen extenders on the hatching characteristics of Japanese quail. *Brazilian Journal of Poultry Science*. 27(01):eRBCA-2024.
8. Sharif MN, Hina A, Gull D, Tariq M, **Khaliq H**, Mahmood W, Zakir A, Hassan WU, Altaf S, Sajjad A. 2025. Eco-friendly biosynthesis of iron oxide nanoparticles for targeted cancer imaging and therapy. *Journal of Medical & Health Sciences Review*. 2(2).
9. Mujtaba G, Ghous M, Arif A, **Khaliq H**, Basheer K, Ahmed CU. 2025. Study of the relationship of low density lipoprotein to lymphocyte ratio (LLR) in COPD presenting to Mayo Hospital Lahore. *The Research of Medical Science Review*. 3(1):684-690.
10. **Khaliq H**. 2025. Exploring the role of boron-containing compounds in biological systems: potential applications and key challenges. *Journal of Trace Elements in Medicine and Biology*. p.127594.
11. Chaudhry SM, Najeeb M, Fatima SZ, Sikandar A, Durrani R, **Khaliq H**. 2025. Unprocessed nutrition: biochemical mechanisms, health benefits, and therapeutic potential. *Journal of Medical & Health Sciences Review*. 2(2).
12. Khan F, Tehseen M, Ali S, Ali B, Fatima K, **Khaliq H**, Chohan AA, Tahir W. 2025. Environmental toxicology of heavy metals: chemical strategies for mitigation. *Kashf Journal of Multidisciplinary Research*. 2(02):1-17.
13. Dar M, Ali Z, **Khaliq H**. 2025. Comparison of blood loss in patients undergoing abdominal myomectomy treated with and without a single preoperative dose of per vaginal misoprostol. *The Research of Medical Science Review*. 3(1):691-696.

14. Asif A, Javeed S, Khurshid T, Zuberi SA, Soomro QA, Amirullah QA, Rizwan M, **Khaliq H**. Association of serum albumin levels with AFP and PIVKA-II in patients with hepatocellular carcinoma. *Journal of Population Therapeutics & Clinical Pharmacology*.
15. Kumar M, Ali HMM, Faran G, Kamran Z, Aditya S, Khan MT, Nisa Q, Akhtar R, Siddique B, Abbas G, **Khaliq H**, et al. 2024. Effect of Citrullus colocynthis fruit pulp and antibiotic growth promoter on performance, blood biochemistry and intestinal microbial count of broilers. *Brazilian Journal of Poultry Science*. 26(04):eRBCA-2024.
16. Wang F, Li Z, Chen S, Feng Y, Luo X, **Khaliq H**, Lei Z, Sun T. 2024. Typhoid and paratyphoid fever epidemiological indicators and spatiotemporal analysis in China from 2004 to 2019. *Acta Tropica*. 258:107335.
17. Ke Y, **Khaliq H**, Jiafu L, Waqas MY, Javid MA, Basit MA, Bhatti SA, Saleem MU, Farooq AA, Murtaza S. 2023. Distribution and developmental changes of IL-21 immunopositive cells in the bursa of Fabricius of Jinhu silky chicken. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*. 341:41-47.
18. **Khaliq H**, Ke X, Keli Y, Lei Z, Jing W, Pengpeng S, Zhong J, Peng K. 2023. Morphological and transcriptomic analysis of supplemental boron in the liver of ostrich chicks. *Biological Trace Element Research*. 201:4022-4042.
19. Waqas MY, Javid MA, Nazir MM, Niaz N, Nisar MF, Manzoor Z, Bhatti SA, Hameed S, **Khaliq H**. 2022. Extracellular vesicles and exosomes: insight from physiological regulatory perspectives. *Journal of Physiology and Biochemistry*. 78(3):573-580.
20. Waqas MY, Javid MA, Nazir MM, Aslam A, Bhatti SA, Faraz A, Akram Q, Niaz N, Nisar MF, Ahmed T, Asif M, **Khaliq H**, Munawar S, Manzoor Z, Ali Q. 2021. A review on emerging therapeutic interventions for coronavirus. *Journal of Pharmaceutical Research International*. 33(60B):2393-2402.
21. Xiao K, Yang K, Jing W, Sun P, Huang H, **Khaliq H**, Naeem MA, Zhong J, Peng K. 2019. Transcriptional study revealed that boron supplementation may alter the immune-related genes through MAPK signaling in ostrich chick thymus. *Biological Trace Element Research*. 189:209-223.
22. Lei Z, Liu Q, **Khaliq H**, Cao J, He Q. 2019. Resistant cutoff values and optimal scheme establishments for florfenicol against Escherichia coli with PK-PD modeling analysis in pigs. *Journal of Veterinary Pharmacology and Therapeutics*. 42:324-335.
23. **Khaliq H**, Wang J, Xiao K, Yang KL, Sun PP, Lei C, Qiu WW, et al. 2018. Boron affects kidney development through modulation of apoptosis, antioxidant capacity, and Nrf2 pathway in African ostrich chicks. *Biological Trace Element Research*. 186:226-237.
24. **Khaliq H**, Zhong J, Peng K. 2018. The physiological role of boron on health. *Biological Trace Element Research*. 186:31-51.
25. Lei Z, Liu Q, Yang B, **Khaliq H**, Xiong J, et al. 2018. Optimal regimens and cutoff evaluation of tildipirosin against Pasteurella multocida. *Frontiers in Pharmacology*. 9:765.
26. Lei Z, Liu Q, Yang B, **Khaliq H**, Cao J, et al. 2018. Comparative pharmacokinetics and preliminary pharmacodynamics evaluation of Piscidin 1 against PRV and PEDV in rats. *Frontiers in Chemistry*. 6:244.
27. Liu Q, Lei Z, Guo J, Liu A, Lu Q, Fatima Z, **Khaliq H**, et al. 2018. Mequindox-induced kidney toxicity associated with oxidative stress and apoptosis in mice. *Frontiers in Pharmacology*. 9:436.
28. **Khaliq H**, Wang J, Xiao K, Yang KL, Sun PP, et al. 2018. Effects of boron supplementation on Hsp70 expression in the spleen of African ostrich chicks. *Biological Trace Element Research*. 182:317-327.
29. Lei Z, Liu Q, Yang B, **Khaliq H**, Cao J, He Q. 2018. Evaluation of marbofloxacin in beagle dogs after oral dosing: preclinical safety and pharmacokinetics of two tablets. *Frontiers in Pharmacology*. 9:306.
30. Lei Z, Liu Q, Yang B, **Khaliq H**, Cao J, He Q. 2018. PK-PD integration modeling and cutoff value of florfenicol against Streptococcus suis in pigs. *Frontiers in Pharmacology*. 9:2.

31. Lei Z, Liu Q, Yang B, **Khaliq H**, Cao J, He Q. 2017. PK-PD analysis of marbofloxacin against *Streptococcus suis* in pigs. *Frontiers in Pharmacology*. 8:11.
32. Xiao K, Ansari AR, Rehman ZU, **Khaliq H**, Song H, et al. 2015. Effect of boric acid supplementation of ostrich water on Foxn1 expression in the thymus. *Histology and Histopathology*. 30:1367-1378.
33. Huang HB, Xiao K, Lu S, Yang KL, Ansari AR, **Khaliq H**, et al. 2015. Increased thymic cell turnover under boron stress may bypass the TLR3/4 pathway in African ostrich. *PLoS One*. 10:e0129596.
34. Yang KL, Xiao K, Huang H, Lu S, Zhong J, Ansari AR, **Khaliq H**, et al. 2015. Molecular cloning, expression, and bioactivity of BAFF in African ostrich. *International Immunopharmacology*. 28:686-694.
35. Tang J, Zheng X, Xiao K, Wang K, **Khaliq H**, Zhong J, Peng KM. 2016. Effect of boric acid supplementation on BDNF expression in African ostrich chick brain. *Biological Trace Element Research*. 170:208-215.

Book Chapters

1. Naz S, Ullah S, Ullah Q, Farooq M, Khan MS, Ramzan A, Butt W, Siddique I, **Khaliq H**, Abbasi M, Sajid M, Ullah I, Khan MFU. 2026. Ecotoxicological impacts of Ferterra (chlorantraniliprole) on freshwater fish: behavioural, histopathological, and genotoxic evaluation. In: Zaib un Nisa, Majeeda Rasheed, Warda Mustfa, Saleha Tahir (eds), *Sustainable Fisheries and Aquaculture: Integrating Technology, Health, and Environmental Stewardship*. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 260-267. <https://doi.org/10.47278/book.TL/2026.367>
2. Naz S, Ullah Q, Farooq M, Ullah S, Sajid M, Malik S, Khan MS, **Khaliq H**, Ullah I, Khan MFU, Butt W, Siddique I. 2026. Chromium contamination in aquatic ecosystems: bioaccumulation and toxic effects on freshwater fish. In: Zaib un Nisa, Majeeda Rasheed, Warda Mustfa, Saleha Tahir (eds), *Sustainable Fisheries and Aquaculture: Integrating Technology, Health, and Environmental Stewardship*. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 268-277. <https://doi.org/10.47278/book.TL/2026.368>
3. Naz S, Ullah Q, Sajid M, **Khaliq H**, Farooq M, Butt W, Ullah I, Khan MFU, Siddique I, Hussain R, Jabeen I, Ullah S. 2026. Smart aquaculture for sustainable food production: innovations in biosensing, electronic monitoring, and automated management systems. In: Zaib un Nisa, Majeeda Rasheed, Warda Mustfa, Saleha Tahir (eds), *Sustainable Fisheries and Aquaculture: Integrating Technology, Health, and Environmental Stewardship*. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 278-285. <https://doi.org/10.47278/book.TL/2026.369>
4. Naz S, Ullah Q, Ullah S, Farooq M, Ullah I, Khan MFU, Siddique I, Butt W, Siddique A, **Khaliq H**, Akram N, Sajid M. 2026. Emerging nanotechnology applications for sustainable animal health, environmental remediation, and aquaculture development. In: Mughees Aizaz Alvi, Majeeda Rasheed, Shazia Perveen, Ghunwa Javed (eds), *Biotechnology and Nanotechnology in the 21st Century: From Precision Medicine to Sustainable Development*. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 446-454. <https://doi.org/10.47278/book.TL/2026.370>
5. Naz S, Ullah S, **Khaliq H**, Farooq M, Sajid M, Malik S, Butt W, Siddique I, Eeman A, Ullah Q, Ullah I, Khan MFU, Iqbal S. 2026. Bioinformatics tools for integrating genomic, transcriptomics, and proteomic data in invertebrates. In: Walaa Abdallah Gad, Yi Wu, Saleha Tahir (eds), *Reproductive Genetics and Disorders: From Molecular Pathways to Clinical and Veterinary Perspectives*. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 153-161. <https://doi.org/10.47278/book.TL/2026.371>
6. Malik S, Naz S, Ullah Q, Ullah S, Ullah I, Khan MFU, Farooq M, Butt W, **Khaliq H**, Siddique I, Hussain R, Sajid M. 2026. Epidemiological insights into the trends and patterns of infectious diseases. In: Rao Zahid Abbas, Tayyaba Akhtar, Shahid Hussain Farooqi, Shamreza Aziz (eds), *Emerging Infectious Diseases in the 21st Century: Zoonoses, Vectors and Global Health Challenges*. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 218-227. <https://doi.org/10.47278/book.TL/2026.264>
7. Malik S, Naz S, Ullah Q, Ullah S, Farooq M, Maqbool B, Hussain R, Ullah I, Khan MFU, **Khaliq H**, Sajid M, Butt W, Siddique I. 2026. Herbal nutraceuticals: extraction, formulation, therapeutic applications, and toxicological perspectives. In: Ahrar Khan, Kaynat Saeed, Maria Rehman (eds), *Natural Products in Modern*

Medicine: Nutraceuticals, Phytochemicals and Herbal Therapeutics. Unique Scientific Publishers, Faisalabad, Pakistan. pp: 142-151. <https://doi.org/10.47278/book.TL/2026.265>

8. Naz S, Chatha AMM, Ullah Q, **Khaliq H**, Sajid M, Farooq M, Ashraf I, Eeman A. 2025. Integrative approaches: genomic, transcriptomic and proteomic data in vertebrate studies. pp: 218-228. <https://doi.org/10.47278/book.HH/2025.99>
9. Naz S, Malik S, Chatha AMA, Ullah Q, Jamil T, **Khaliq H**, Sajid M, Iqbal S, Yasin F. 2025. Epidemiology and surveillance of bacterial, viral, fungal, and parasitic diseases in fish: challenges and advances in aquaculture. In: Trends in Infectious Diseases of Animals, Eagle Scholars Publishers, Faisalabad, Pakistan, Vol. 1. <https://doi.org/10.5281/zenodo.15809232>

Conference Papers

1. Sajid M, **Khaliq H**, Qureshi AS, Siddique F, Masood S, Abbas A, Nisar F. Socio-ecological factors affecting camel production. International Conference (Hybrid Mode) on Sustainable Bioeconomy in Livestock and Crop Production (ICSBLCP-2021), 20-21 October 2021, MNS-University of Agriculture, Multan, Pakistan. ISBN: 978-969-2201-02-5.
2. Nisar MF, **Khaliq H**, Waqas MY, Manzoor Z, Niaz N, Rafiq M. Photomedicine: ultraviolet radiation A and heme oxygenase (HO) system. 1st International Conference on Recent Updates in Biotechnology (ICRUB-2019), 16-18 October 2019. Abstract No. ICRUB-00205.
3. **Khaliq H**, Younas M, Sajid M, Siddique F, Abbas A. Comparative efficiency of biogas production from livestock and agriculture residues. International Conference (Hybrid Mode) on Sustainable Bioeconomy in Livestock and Crop Production (ICSBLCP-2021), 20-21 October 2021, MNS-University of Agriculture, Multan, Pakistan. ISBN: 978-969-2201-02-5.
4. Siddique F, Babar W, Sajid M, **Khaliq H**, Abbas A, Hussain K, Rehman A, Yasin R, Javaid A. Honeycomb gum as an immune-boosting agent in poultry for its application in COVID-19; a review. International Conference (Hybrid Mode) on Sustainable Bioeconomy in Livestock and Crop Production (ICSBLCP-2021), 20-21 October 2021, MNS-University of Agriculture, Multan, Pakistan. ISBN: 978-969-2201-02-5.
5. Sajid M, **Khaliq H**, Nisar MF, Manzoor Z, Waqas Y, Siddique F, Masood S. STEMS026: recent trends in stem cell technology. 1st International Conference on Science, Technology, Engineering, Mathematics and Social Sciences, 30-31 March 2021, The Islamia University of Bahawalpur, Pakistan. pp. 44-45.
6. **Khaliq H**, Nisar MF, Sajid M, Waqas Y, Manzoor Z. STEMS025: biotechnology approaches to insight in the medical and veterinary sector. 1st International Conference on Science, Technology, Engineering, Mathematics and Social Sciences, 30-31 March 2021, The Islamia University of Bahawalpur, Pakistan. pp. 43-44 (Abstract).
7. Nisar FN, Manzoor Z, **Khaliq H**, Sajid M, Waqas MY, Niaz K. Chia seeds gel: a new biomedical material for drug delivery and wound healing. 2nd International Pharmacy Conference & Exhibition (IPCE 2020-IUB), "New Paradigms of Pharmacy Education & Practice in Pakistan", 20-21 February 2020, The Islamia University of Bahawalpur.
8. Nisar M, Mazhar F, Javed A, Rizwan M, **Khaliq H**, Sajid M, Nisar MF. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology.
9. Ishaq K, **Khaliq H**, Rafiq M, Younas M. Livestock production and its role in overcoming poverty. ICDD Conference on Linkages, Value Chains and Development along the Rural-Urban Interface, 9-12 January 2014.
10. Rafiq M, **Khaliq H**, Younas M, Raziq A, Khan AQ. Bio-cultural community protocol at Cholistan Desert. International Camel Conference, 19-21 December 2013.
11. Younas M, **Khaliq H**, Yaqoob M. Value addition to FYM as a substitute for energy production for rural livestock farmers. International Conference on Renewable Energy Technologies in Pakistan, 1-3 October 2013.

PROFESSIONAL SERVICE

2023	<i>Symposium Co-Organizer</i> International Multidisciplinary Conference on Innovations in Biochemistry, Veterinary Medicine & Pharmacology
2020 – Present	<i>Member, Scheme of Studies</i> Developed curriculum for undergraduate and postgraduate students
2018 – Present	<i>Supervisor</i> Supervised MS and PhD students
2018 – Present	<i>Peer Reviewer</i> Reviewed manuscripts for: Frontiers in Endocrinology, Frontiers in Nutrition, Reports, Pharmaceuticals, Animal Diseases, Regulatory Toxicology and Pharmacology, Veterinary Medicine and Science, Journal of Experimental Zoology, Poultry Science, Frontiers in Veterinary Science

LANGUAGES

Urdu	Native language
English	Fluent

COMPUTER SKILLS

Platforms	Windows, AWS Cloud, Google Workspace
Applications	Microsoft Office, GraphPad Prism, SPSS, Adobe Photoshop, EndNote, Mendeley

TRAININGS / WORKSHOPS / SEMINARS / COURSES

- Workshop organized by the Center for Educational Policy and Administration (CEPA)
- One-year internship, Civil Veterinary Hospital, Mirpur
- International Workshop on Techniques in Mesenchymal Stem Cells
- International Camel Conference, University of Agriculture Faisalabad
- International Poultry Conference, University of Agriculture Faisalabad
- Diabetes Mellitus in Dogs and Cats
- Managing Pain in Zoological Companion Animals
- Introduction to Forensic Veterinary Medicine and Pathology
- Rational Antibiotic Use in Cats and Dogs
- Zoonosis Workshop, CUVAS Bahawalpur
- The Assessment of Student Performance in Online Education
- Veterinary Public Health and Zoonosis
- Early Nutrition Effects on Future Broiler Immunity & Performance
- Biorisk Management Training
- Managing Aviary Systems to Maximize Egg Quality
- 49th Annual Midwest Poultry Federation Convention
- Pak-China Workshop, "Use of New Technology in Locust Control"
- Red Crescent First Aid Training
- Computer Course
- SPSS Training Course
- EndNote Training Course