

DR. MUHAMMAD YASIR WAQAS**Assistant Professor | Veterinary Physiology | Basic Veterinary Medicine**Department of Physiology and Biochemistry, Faculty of Biosciences
Cholistan University of Veterinary and Animal Sciences, Bahawalpur,
Pakistan**Official Contact: +92 300 1709190 | +92 332 7548035 | myasirwaqas@cuvas.edu.pk | Yasir_waqas1387@yahoo.com****1. PERSONAL INFORMATION**

Particular	Details
Name	Dr. Muhammad Yasir Waqas
Father's Name	Qazi Muhammad Aslam
Date of Birth	December 18, 1987
Place of Birth	Kot Addu, Punjab, Pakistan
Marital Status	Married
Official Address	Department of Physiology and Biochemistry, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Pakistan
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Total Experience	>09 Years (>09 years post PhD)
Total Impact Factor	~210

2. ACADEMIC QUALIFICATIONS

Degree / Certificate	Year	Institution	Division	Subject / Specialization
PhD	2016	Nanjing Agricultural University, China	First	Veterinary Physiology (Basic Veterinary Medicine)
M.Phil	2013	University of Agriculture, Faisalabad	First	Clinical Medicine and Surgery
DVM	2011	PMAS, Arid Agriculture University, Rawalpindi	First	Veterinary Sciences
FSc	2005	BISC, D.G. Khan	First	Pre-Medical
Matriculation	2002	BISC, D.G. Khan	First	Science

3. THESIS TITLES

1. Ph.D.: Ultrastructural Characterization of the Reproductive System with special emphasis on oviduct secretions in hen (*Gallus domesticus*) and Chinese soft-shelled turtle (*Pelodiscus sinensis*).
2. M.Sc. (Hons.): Prophylactic and Therapeutic Efficacy of Hypervitaminosis C as an Adjunct to Conventional Therapy in Treatment of Septic Shock in Dog.

4. TEACHING EXPERIENCE

1. Assistant Professor, Department of Physiology and Biochemistry, Faculty of Biosciences, Cholistan University of Veterinary and Animal Sciences, Bahawalpur (November 15, 2018 to date).
2. Assistant Professor, Department of Biosciences, Faculty of Veterinary Sciences, Bahauddin Zakariya University, Multan (September 29, 2016 to June 01, 2018).

5. ADMINISTRATIVE EXPERIENCE

1. Officer In-Charge, Department of Physiology and Biochemistry, Faculty of Biosciences, Cholistan University of Veterinary and Animal Sciences, Bahawalpur (January 1, 2022 to 30 December, 2023).
2. Member, Admission Committee, Faculty of Biosciences, Cholistan University of Veterinary and Animal Sciences, Bahawalpur (July 06, 2022 to Date).
3. Member, Purchase Committee for PVMC Missing Facilities and Remaining Civil Works (June 27, 2023 to Date).
4. Member, Organizing Committee for International Multidisciplinary Conference on Innovation in Biochemistry, Veterinary Medicine and Pharmacology at Cholistan University of Veterinary and Animal Sciences, Bahawalpur (February 06, 2023).
5. Member, Technical Purchase Committee for Laboratory Equipment of Cholistan University of Veterinary and Animal Sciences, Bahawalpur (January 2, 2022 to Date).
6. Member, MOU signed an ERASMUS Mobility Agreement for Academic Staff (Department of Physiology and Biochemistry), and Postgraduate Students (Department of Biochemistry) to and fro Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, Pakistan, and Department of Chemistry, Siedlce University of Natural Sciences and Humanities, Poland (February 07, 2023).
7. External Examiner of M.Phil Physiology Thesis and Viva Voce, University of Agriculture, Faisalabad.
8. Member, Committee to execute BS Chemistry Programme in Faculty of Biosciences, Cholistan University of Veterinary and Animal Sciences, Bahawalpur (August 03, 2021).

6. ADDITIONAL QUALIFICATIONS / ACTIVITIES

1. Certificate, International Multidisciplinary Conference on Innovation in Biochemistry, Veterinary Medicine and Pharmacology at Cholistan University of Veterinary and Animal Sciences, Bahawalpur (Organizer, 06-02-2023).
2. Certificate, Training workshop on animal health mentoring framework and farriery mentoring framework, organized by Faculty of Veterinary Sciences, BZU Multan (17 October, 2023).
3. Training workshop on Green Synthesis of Nanomaterial and application in Biomedical Sciences, IUB (24 November, 2022).
4. 5 days Virtual training on biorisk management for research scholars and faculty staff of CUVAS (21-06-2021 to 25-06-2021).
5. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (24-11-2021 to 26-11-2021).

6. “In-Service Competency Enhancement Training for Young University Faculty” at the Cholistan University of Veterinary and Animal Sciences, Bahawalpur (January 28-30, 2019).
7. International workshop on biodiversity techniques and tools in the Department of Zoology, CUVAS, Bahawalpur (04-05-2019).

7. DISTINCTIONS

1. Awarded 2nd Position in poster competition for presenting poster entitled “Development of artificial skin for second degree burn wounds using chia seeds gel” in 2nd Two-Day National Training Workshop on “Bioassays for the exploration of Bioactives” during 25-26 October, 2021, conducted by Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.
2. Awarded 1st Position in poster competition for presenting poster entitled “Development of novel biomedical material using Chia seed gel combined with plant extracts for antibacterial, wound healing and drug delivery.” Presented in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan (03.11.2020).
3. Awarded 3rd Position in poster competition for presenting poster entitled “Ultraviolet radiation A: Modulation of oxidative stress responsive Nrf2/HO1 pathway to combat CoVID-19.” Poster presented in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan (03.11.2020).
4. Awarded Chinese Government Scholarship for the Ph.D. study during November 2013 to June 1, 2016, at College of Veterinary Medicine, Nanjing Agricultural University, China.

8. FELLOWSHIP / MEMBERSHIP OF PROFESSIONAL SOCIETIES / AUTHORITIES / COMMITTEES

1. Member, Pakistan Veterinary Medical Association.
2. Member, International Society of Zoological Sciences, Chinese Academy of Sciences, China.
3. Member, International Society of Physiology, Nanjing Agricultural University, China.
4. Reviewer, several impact factor journals.

9. RESEARCH PUBLICATIONS

HEC RECOGNIZED IMPACT FACTOR PUBLICATIONS — Reported Impact Factor: ~210

1. Majeed, A., Latif, M., Naqvi, S. A. A., Qazi, A. A., Munawar, S. H., Waqas, Y., Farooq, Z., Naz, H., Shakeel, R., Wadood, F., & Ramzan, A. (2026). Seasonal heavy metal bioaccumulation in edible freshwater fish (*Labeo rohita* and *Cirrhinus mrigala*) from Head Panjnad, Punjab, Pakistan, with human health risk indices for Pb, Ni, and Cd (2022) [Dataset bundled publication]. PANGAEA. <https://doi.org/10.1594/PANGAEA.995293>.
2. Majeed, A., Latif, M., Naqvi, S. A. A., Qazi, A. A., Munawar, S. H., Waqas, Y., Farooq, Z., Naz, H., Shakeel, R., Wadood, F., & Ramzan, A. (2026). Seasonal heavy metal bioaccumulation in edible freshwater fish (*Labeo rohita* and *Cirrhinus mrigala*) from Head Panjnad, Punjab, Pakistan (2022) [Dataset]. PANGAEA. <https://doi.org/10.1594/PANGAEA.995398>.
3. Majeed, A., Latif, M., Naqvi, S. A. A., Qazi, A. A., Munawar, S. H., Waqas, Y., Farooq, Z., Naz, H., Shakeel, R., Wadood, F., & Ramzan, A. (2026). Biometric data of edible freshwater fish (*Labeo rohita* and *Cirrhinus mrigala*) from Head Panjnad, Punjab, Pakistan (2022).
4. Raheel, S.M.M.U.; Qazi, A.A.; Latif, M.; Naz, H.; Waqas, Y.; Lackner, 2025. Unveiling the microplastics menace in freshwater: Evidence from the Panjnad Barrage, South Punjab, Pakistan. *Fishes*. *Fishes* 2025, 10, 198. <https://doi.org/10.3390/fishes10050198>.
5. Muhammad Abdul Basit, Arifah Abdul Kadir2, Muhammad Yasir Waqas, Muhammad Nawaz, Hafiz Muhammad Arshad. 2024. Quantitative Phytochemical Screening And Acute Oral Toxicity Study Of Piper Betle And

- Persicaria Odorata Leaf Extract In Broiler Chickens. *Journal of Population Therapeutics & Clinical Pharmacology*. Vol.31 No.5 (2024): JPTCP (61-82). DOI: 10.53555/jptcp.v31i5.6088.
6. Farooq, A.A., Murtaza, S., Ahmad, E., Lashari, M.H., Javid, M.A., Saleem, M.U., Basit, M.A., Waqas, M.Y., Asif, M., Shah, M.H., Akhtar, M.S., Ahmad, T., Nasreen, S. (2024). Surgical treatment of severe ruminal impaction and dystokia in beetal goat. *Biol. Clin. Sci. Res. J.*, 2024: 771. doi: <https://doi.org/10.54112/bcsrj.v2024i1.771>. Impact factor: 1.3.
 7. Farooq, A.A., Javid, M.A., Murtaza, S., Lashari, M.H., Shah, M.H., Saleem, M.U., Basit, M.A., Asif, M., Waqas, M.Y., Akhtar, M.S., Ahmad, E., Ahmad, T., Rasheed, H.B., Nasreen, S., Arshad M. (2023). Post-operative complications encountered by the students during canine surgery: a retrospective study. *Biol. Clin. Sci. Res. J.*, 2023: 591. Impact factor: 1.3.
 8. M. Arshad Javid, M. Usman Saleem, Yasir Waqas, M. Asif et al., 2023. Advance techniques for skelton preparation and preservation. *Pure and Applied Biology* vol: 12 issue 2 page 448-452. Impact factor: 0.5.
 9. Ke, Y., Khaliq, H., Jiafu, L., Waqas, M. Y., Javid, M. A., Basit, M. A., Bhatti, S. A., Saleem, M. U., Farooq, A. A., & 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*, 1–7. <https://doi.org/10.1002/jez.275>. Impact factor: 2.65.
 10. Khan, M.; Manzoor, Z.; Rafiq, M.; Munawar, S.H.; Waqas, M.Y.; Majeed, H.; Shah, S.Z.A.; Hussain, R.; Hussain, H.I.; Tahir, T.; et al. Phytochemical Screening, Anti-Inflammatory, and Antidiabetic Activities of Different Extracts from *Caralluma edulis* Plant. *Molecules* 2022, 27, 5346. <https://doi.org/10.3390/molecules27165346>. Impact factor: 4.9.
 11. Muhammad Yasir Waqas, Muhammad Farrukh Nisar et al. *Journal of Physiology and Biochemistry*. Extracellular vesicles and exosome: Insight from physiological regulatory prospectives. February 2022 *Journal of Physiology and Biochemistry* 78(5) DOI: 10.1007/s13105-022-00877-6. Impact factor: 5.08.
 12. MA, Javid, M Masood, H, Zenab, Waqas MY., et al. Effect of Dietary Growth Promoter Supplementations on the Serum Biochemistry and Morphometric Characteristics of Tibia Bone in Broiler Chicken. January 2022. *Revista Brasileira de Ciência Avícola* 24(4) DOI: 10.1590/1806-9061-2021-1454. Impact factor: 0.5.
 13. Muhammad Yasir Waqas. Nasir Niaz. Aisha Mahmood, Muhammad Farrukh Nisar, Muhammad Arslan Akbar, Muhammad Haseeb Khaliq, Zahid Manzoor. Therapeutic Interventions for Corona Virus. December 2021. *Journal of Pharmaceutical Research International*. DOI: 10.9734/JPRI/2021/v33i60B34891. Impact factor: 0.5.
 14. Muhammad Farrukh Nisar, Maryam Yousaf, Muhammad Saleem, Hamad Khalid, Kamal Niaz, Mustansara Yaqub, Muhammad Yasir Waqas, Arsalan Ahmed, et al. Development of Iron Sequester Antioxidant Quercetin@ZnO Nanoparticles with Photoprotective Effects on UVA-Irradiated HaCaT Cells. *Oxidative Medicine and Cellular Longevity*, Volume 2021, Article ID 6072631, 11 pages. Impact Factor 7.3.
 15. Waqas MY, Zhang Q, Ahmed N, Yang P, Xing G, Akhter M, Basit A, Liu T, Hong C, Arshad M, Rahman HMS, Chen Q. 2017. Cellular evidence of exosomes in the reproductive tract of Chinese soft-shelled turtle *Pelodiscus sinensis*. *J. Exp. Zool.* 00:1-10.
 16. M. Y. Waqas, P. Yang, N. Ahmed, Q. Zhang, T. Liu, Q. Li, L. Hu, C. Hong, Q. Chen: Characterization of the ultrastructure in the uterovaginal junction of the hen. *Poultry Science* 03/2016; DOI:10.3382/ps/pew141.
 17. Muhammad Yasir Waqas, Tengfei Liu, Ping Yang, Nisar Ahmed, Qian Zhang, Lisi Hu, Chen Hong, Qiusheng Chen: Morphological and ultrastructural study of the efferent ductules in the Chinese soft-shelled turtle *Pelodiscus sinensis*. *Journal of Experimental Zoology Part A Ecological Genetics and Physiology* 12/2015; DOI:10.1002/jez.2002.
 18. Muhammad Yasir Waqas, Hu Lisi, Ping Yang, Shakeeb Ullah, Linli Zhang, Qian Zhang, Quanfu Li, Nisar Ahmad, Wei Chen, Basit Zeshan, Qiusheng Chen: Novel Cellular Evidence of Oviduct Secretions in the Chinese Soft-Shelled Turtle *Pelodiscus sinensis*. *Journal of Experimental Zoology Part A Ecological Genetics and Physiology* 09/2015; 323(9). DOI:10.1002/jez.1957.
 19. Ping Yang, Ya'an Liu, Yasir Waqas, Nisar Ahmed, Qiusheng Chen: Developmental Changes in Morphology and Distribution of AChE Positive Neurons in the Submucosal Plexus of the Chicken Ileum. *Pakistan Veterinary Journal* 03/2015; 35(3).

20. Nisar Ahmed, Huang Yufei, Ping Yang, Waqas Muhammad Yasir, Qian Zhang, Tengfei Liu, Chen Hong, Hu Lisi, Chu Xiaoya & Qiusheng Chen. Cytological study on Sertoli cells and their interactions with germ cells during annual reproductive cycle in turtle. *Ecology and Evolution*. doi: 10.1002/ece3.2193.
21. Shaofan Chen, Linli Zhang, Yuan Le, Yasir Waqas, Wei Chen, Qian Zhang, Shakeeb Ullah, Tengfei Liu, Lisi Hu, Quanfu Li, Ping Yang: Sperm storage and spermatozoa interaction with epithelial cells in oviduct of Chinese soft-shelled turtle, *Pelodiscus sinensis*. *Ecology and Evolution* 05/2015; 5(15). DOI:10.1002/ece3.1575.
22. Quanfu Li, Lisi Hu, Ping Yang, Qian Zhang, Yasir Waqas, Tengfei Liu, Linli Zhang, Shuai Wang, Wei Chen, Yuan Le, Shakeeb Ullah, Qiusheng Chen: Expression of TLR2/4 in the sperm-storing oviduct of the Chinese soft-shelled turtle *Pelodiscus sinensis* during hibernation season. *Ecology and Evolution* 09/2015; 5(19). DOI:10.1002/ece3.1726.
23. Linli Zhang, Ping Yang, Xunguang Bian, Qian Zhang, Shakeeb Ullah, Yasir Waqas, Xiaowu Chen, Yi Liu, Wei Chen, Yuan Le, Bing Chen, Shuai Wang, Qiusheng Chen: Modification of sperm morphology during long-term sperm storage in the reproductive tract of the Chinese soft-shelled turtle, *Pelodiscus sinensis*. *Scientific Reports* 11/2015; 5. DOI:10.1038/srep16096.
24. Ping Yang, Nisar Ahmad, Yufei Hunag, Shakeeb Ullah, Qian Zhang, Yasir Waqas, Yi Liu, Quanfu Li, Lisi Hu, Qiusheng Chen: Telocytes: Novel interstitial cells present in the testis parenchyma of the Chinese soft-shelled turtle *Pelodiscus sinensis*. *Journal of Cellular and Molecular Medicine* 11/2015; 19(12):2888-2899. DOI:10.1111/jcmm.12731.
25. Qian Zhang, Shakeeb Ullah, Yi Liu, Ping Yang, Bing Chen, Yasir Waqas, Huijun Bao, Lisi Hu, Quanfu Li, Qiusheng Chen: Lymphocyte migration in the micro-channel of splenic sheathed capillaries in Chinese soft-shelled turtles, *Pelodiscus sinensis*. *Micron* 09/2015; 80. DOI:10.1016/j.micron.2015.09.003.
26. Shakeeb Ullah, Ping Yang, Linli Zhang, Qian Zhang, Yi Liu, Wei Chen, Yasir Waqas, Yuan Le, Bing Chen, Qiusheng Chen: Identification and characterization of telocytes in the uterus of the oviduct in the Chinese soft-shelled turtle, *Pelodiscus sinensis*: TEM evidence. *Journal of Cellular and Molecular Medicine* 09/2014; 18(12). DOI:10.1111/jcmm.12392.
27. Qian Zhang, Bing Chen, Ping Yang, Linli Zhang, Yi Liu, Shakeeb Ullah, Li Wu, Yasir Waqas, Yuan Le, Wei Chen, Qiusheng Chen: Identification and structural composition of the blood–spleen barrier in chickens. *The Veterinary Journal* 01/2015; 204(1). DOI:10.1016/j.tvjl.2015.01.013.
28. Hong Chen, Ping Yang, Xiaoya Chu, Yufei Huang, Tengfei Liu, Qian Zhang, Quanfu Li, Lisi Hu, Yasir Waqas, Nisar Ahmed, Qiusheng Chen: Cellular evidence for nano-scale exosome secretion and interactions with spermatozoa in the epididymis of the Chinese soft-shelled turtle, *Pelodiscus sinensis*. *Oncotarget* 03/2016; DOI:10.18632/oncotarget.8092.
29. Tengfei Liu, Ping Yang, Hong Chen, Yufei Huang, Yi Liu, Yasir Waqas, Nisar Ahmed, Xiaoya Chu, Qiusheng Chen: Global analysis of differential gene expression related to long-term sperm storage in oviduct of Chinese Soft-Shelled Turtle *Pelodiscus sinensis*. *Scientific Reports* 09/2016; 6. DOI:10.1038/srep33296.
30. Nisar Ahmed, Yi Liu, Hong Chen, Ping Yang, Yasir Waqas, Tengfei Liu, Jameel Ahmed Gandahi, Yufei Huang, Lingling Wang, Xuejing Song, Imran Rashid Rajput, Taozhi Wang, Qiusheng Chen: Novel cellular evidence of lipophagy within the Sertoli cells during spermatogenesis in the turtle. *Aging* 10/2016; DOI:10.18632/aging.101070.
31. Hu Lisi, Quanfu Li, Ping Yang, Jameel Ahmed Gandahi, Tamseel Saleem Arain, Yuan Le, Tengfei Liu, Yasir Waqas Muhammad, Nisar Ahmad, Yi Liu, Qiusheng Chen: Expression of TLR2/4 on Epididymal Spermatozoa of the Chinese Soft-Shelled Turtle *Pelodiscus sinensis* During the Hibernation Season. *The Anatomical Record* 08/2016; DOI:10.1002/ar.23463.
32. Qian Zhang, Yasir Waqas, Ping Yang, Xuejing Sun, Yi Liu, Nisar Ahmed, Bing Chen, Quanfu Li, Lisi Hu, Yufei Huang, Hong Chen, Bing Hu and Qiusheng Chen. Cytological study on the regulation of lymphocyte homing in the chicken spleen during LPS stimulation. *Oncotarget*, Advance Publications 2017.

10. CHAPTERS IN BOOKS (PUBLISHED BY FOREIGN PUBLISHER)

1. Amir Javed, Sania Shaheen, Asif Ali, Safia Sana, Muhammad Rafiq, Muhammad Yasir Waqas, Muhammad Farrukh Nisar. Non-coding RNAs: recent advancements in the development and biochemistry as novel anti-tumor drug molecules. Current Studies in Health and Life Sciences 2023.
2. Nisar, M. F., Uddin, A., Niaz, K., Munawar, S., Sidique, F., Waqas, M.Y., and Farooq, A. (2021). Ultraviolet Radiation A (UVA): Modulates the Production of Nitric Oxide (NO) to Combat COVID-19 Production of Nitric Oxide (NO) Coronavirus Disease. Bentham Publishers, Coronavirus Disease-19 (COVID-19), 2021, Vol. 2, 192-218. ISBN (Online): 978-981-4998-93-2.
3. Muhammad Farrukh Nisar, Chunpeng Wan, Zahid Manzoor, Muhammad Yasir Waqas, Kamal Niaz, Muhammad Mazhar Ayaz. Glycosidic derivatives of flavonoids, A Book Chapter, Elsevier Book Series (Recent Advances in Natural Products Analysis). Accepted in a book being published by Elsevier, 01.09.2019.
4. Manzoor, Z., Hussain, S. M., Nisar, M.F., Waqas, M.Y., and Munir, M.M. (2021). Computational Methods for COVID-19 Treatment. Bentham Publishers, Coronavirus Disease-19: A Perspective of New Scenario, 2021, Vol. 2, 288-313. ISBN (Online): 978-981-4998-93-2.
5. Hussain, S. M., Manzoor, Z., Nisar, M. F., Waqas, M. Y., and Khan, I. A. (2021). Evaluation of SARS-CoV-2 Neutralizing Antibodies in Sera Using Live Virus Microneutralization Assay. Bentham Publishers, COVID-19: Epidemiology, Biochemistry and Diagnostics, 2021, Vol. 1, 301-314. ISBN (Online): 978-981-4998-93-2.

11. POSTERS / CONFERENCE PROCEEDINGS

1. Muhammad Farrukh Nisar, Haseeb Khaliq, Muhammad Yasir Waqas, Zahid Manzoor, Nasir Niaz, and Muhammad Rafiq. Photomedicine: Ultraviolet radiation A and Heme Oxygenase (HO) system. 1st International Conference on Recent Updates in Biotechnology, 16-18 October, 2019 (ICRUB-2019). Abstract No. ICRUB-00205. Organized by Department of Biotechnology, Abdul Wali Khan University, Mardan, KPK, Pakistan.
2. Muhammad Farrukh Nisar, Zahid Manzoor, Haseeb Khaliq, Muhammad Sajid, Muhammad Yasir Waqas, and Kamal Niaz. Development of novel biomaterial using Chia seed gel with plant extracts for wound healing therapy and drug delivery. A poster at 2nd International Pharmacy Conference & Exhibition (IPCE 2020 - IUB). New Paradigms of Pharmacy Education & Practice in Pakistan, February 20-21, 2020. PP. 120-121.
3. Mariam Bashir, Saba Hassan, Hina Noreen, Muhammad Rafiq, Muhammad Yasir Waqas, Muhammad Farrukh Nisar. Ultraviolet radiation A: Modulation of oxidative stress responsive Nrf2/HO1 pathway to combat CoVID-19. Poster presented in Poster Presentation Competition on One World One Health Day, organized by One Health Club, CUVAS, Bahawalpur, Pakistan. 03.11.2020.
4. Sabba Hassan, H Noreen, AI Aqib, MY Waqas, Qurat ul Ain, M Bashir, MA Qureshi, M Jan, M Rafiq, Muhammad Farrukh Nisar. Study of the Antioxidants, antimicrobial, and cytotoxicity potential of Vernonia cinerascens. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-36, pp 78.
5. Qurat ul Ain, H Noreen, M Nisar, S Hassan, M Bashir, MY Waqas, M Rafiq, M Sajid, Muhammad Farrukh Nisar. Ultraviolet Radiations A (UVA) mediated oxidative stress modulates microRNAs expression and involvement of Nrf2/HO-1 pathway in increasing telomere length. International Conference on Interdisciplinary Innovation and Invention in Biotechnology and Nanotechnology (IIBN)-2021, Women University, Multan, Pakistan. November, 24-26.11.2021. Abstract ID# P-IIBN-34, pp 76.

12. ABSTRACTS

1. Asif Ali, Sania Shaheen, Fariha Bashir, Muhammad Rafiq, Muhammad Farrukh Nisar, Muhammad Yasir Waqas. Anti-tyrosinase Anti-browning and Antioxidant potential of Oxystelma Esculentum plant Extract. Intermultidisciplinary conference on innovation in biochemistry, pharmacology and veterinary medicine. 06-07-2023.

2. Marium Bashir, Muhammad Rafiq, Muhammad Yasir Waqas, Muhamma Farrukh Nisar. Development of artificial skin using chia seeds and chitosan complex for laceration wound healing in diabetic rats. 37th European Cardiology Conference October 31, 2022.
3. Sajid, M., Khaliq H., Nisar, M. F., K., Waqas, M. Y., Manzoor, Z., and Siddique, F (2021). Recent trends in stem cell technology. 1ST International Conference of Science and Technology, The Islamia University Bahawalpur, 2021.
4. Khaliq, H., Nisar, M. F., Waqas, M. Y., and Manzoor, Z. (2021). Biotechnology approaches to insight in the medical and veterinary sectors. 1st International Conference of Science and Technology, The Islamia University Bahawalpur.

13. VIRTUAL SEMINARS

Sr. No.	Title	Date
1	Genomic Selection--Pipeline developed for goat using SNP-chip data	22-10-2021
2	Integrating Genetic Improvement in Livestock Production for Improving Productivity and Profitability, CUVAS	11-10-2021— 15-10-2021
3	Whole genomic sequencing of buffaloes-state of knowledge and implications for Pakistan, CUVAS	22-09-2021
4	Genetic Improvement under Resource-Poor Conditions Using ICT Tools, CUVAS	16-09-21
5	Implementation steps, progress, and lessons in Sheep and Goat community based Breeding Programs, CUVAS	02-09-2021
6	Community-based Breeding Programs: Attracting options for Genetic improvement of Sheep and Goat in low input Systems, CUVAS	26-08-2021
7	Genomic Potential of Adaptation and Improvement of Indigenous Cattle for Food Production in a Challenging World, CUVAS	12-08-2021
8	Economical Choices for Early Weaning Lambs, CUVAS	05-08-2021
9	Alternate Feed Stuffs for Poultry Diets	29-07-2021
10	International Webinar on Status and Importance of Indigenous Knowledge in Veterinary and Animal Sciences	15-07-2021
11	Dairy Cooperatives in Pakistan - Lessons from Past	03-07-2021
12	CAMEL- THE ANIMAL OF FUTURE	22-06-2021
13	Improving Dairy Animal Quality in Pakistan through Selected Genetics: A Novel Proposal	22-05-2021

14. POSTGRADUATE SUPERVISION

Role	Number / Status
M.Phil as a Supervisor	7
MSc (Hons) / M.Phil as Co-supervisor	14
MSc (Hons) / M.Phil as Member Supervisory Committee	>25

A. MSc (Hons) / M.Phil as a Co-Supervisor

1. Anti-tyrosinase, Anti-browning and anti-oxidant potential of *Abutilon muticum* plant extracts. Sania Niaz Bhatti. 2023.
2. Prophylactic and therapeutic efficacy of methanolic extract of *Oxystelma esculantum* as alternative therapy in septic arthritis model of Rabbit. Muhammad Ahsan Rafiq. 2023.
3. Antioxidant and antimicrobial potential of various solvent extracts of *Calligonum polygonoides*. Azkia Hoorain. 2023.
4. Nephroprotective, anti-anxiety/anti-stress, and anticancer activity of crude extracts of *Vernonia cinerascens* plant. Fatima Mazhar, 2023.
5. Investigation on the anti-diabetic and hepatoprotective efficacy of extracts of *Vernonia cinerascens*. Safia Sana, 2023.
6. Prophylactic and therapeutic efficacy of vitamin C as an adjunct to Conventional Therapy in Treatment of septic shock in Rabbits. Waqas Amin, 2023.
7. Anti-bacterial, Anti-fungal and anti-oxidant activities of crude extracts of *Sonchus asper* (L.) Hill. Hira Abid. 2023.
8. Therapeutic efficacy of *Heliotropium curassavicum* extract against CLP- induced septic shock in rabbits. Maryum Jan, 2022.

B. MSc (Hons) / M.Phil as a Member of Supervisory Committees

Reg. #	Student	Title of M.Phil. Thesis	Year
21-CUVAS-0074	Fariha Bashir	Phytochemical screening, anti-oxidant, and nephroprotective properties of <i>Abutilon muticum</i> plant extracts.	2023
21-CUVAS-0075	Sania Shaheen	Determination of phytochemicals, anti-oxidant and hepatoprotective effects of <i>Gisekia pharnacioides</i> plant extracts	
21-CUVAS-0078	Muhammad Rizwan	Investigating the Anti-diabetic, Anti-depressant and Anti-anxiety effect of <i>Euphorbia prostrata</i> in Streptozotocin (STZ) induced mice.	2023
21-CUVAS-0084	Asif Ali	Anti-tyrosinase, Anti-browning and ROS potential of <i>Oxystelma esculantum</i> plant extract.	2023
20-CUVAS-0610	Mahnoor Khadim	Peppermint essential oil nanoemulsion as edible coating for shelf stability of <i>Solanum lycopersicum</i> L.	2023
19-CUVAS-ZOOL-061	Abdul Rehman	Exploring antidiabetic potential of <i>Cinnamomum verum</i> plant using network pharmacology and molecular docking.	2023
21-CUVAS-0185	Fatima Qadeer	Microplastics in <i>CIRRHINUS MRIGALA</i> from the Head Punjnad, Pakistan.	2022
21-CUVAS-0161	Fazeelat Bibi	Microplastics in fish (<i>Wallago Attu</i>) from the Head Punjnad, Pakistan.	2023
21-CUVAS-0121	Iqra Mehwish	Feeding behaviour of an aquatic snail as a simple endpoint to assess the exposure to cadmium.	2023
21-CUVAS-0126	Bisma Amin	Fish parasites and heavy metals relationship in <i>Oreochromis niloticus</i> as potential health risk assessment in south Punjab.	2023

21-CUVAS-0129	Sharjeel Imam	Microplastic in Labeo rohita from Head Taunsa Barrage, Pakistan.	2023
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15. LANGUAGE PROFICIENCY

English: Fluent in all modules of English (Native Level, British phonetics).

16. TECHNICAL / LABORATORY SKILLS

Skill	Skill
• Western Blotting (Immunoblotting)	• qRT-PCR
• semi qRT-PCR	• cDNA PCR
• Cell Culture techniques	• ELISA
• Flow cytometry (Apoptosis, Cell cycle assay, Autophagy, ROS)	• Colony Formation assay
• Zymography (Gelatin and Casein)	• Gel electrophoresis
• UVA/UVB/UV/CAP irradiations	• ROS (Reactive Oxygen species) Detection Assays
• Cell Damage Analysis assays (MDA/LDH/SOD)	• Cell Viability/Cytotoxicity Assays
• Transfection of target genes and Gene Silencing	• Protein and RNA extraction & quantification assays
• Immunofluorescence assay	• Cell migration assay
• Preparation of routine lab consumables/reagents/media etc.	• Centrifugation
• Xenograft assays in animal models	• Treatment/handling of animal model
• Preparation of biomedical materials and characterization	