



Dr. Yasir Waqas

Ph.D (Nanjing Agricultural University, China)

Assistant Professor

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Biography:

Dr. Yasir Waqas is working as an Assistant Professor in the Department of Physiology & Biochemistry, Faculty of Bio-Sciences, Cholistan University of Veterinary and Animal Sciences, Bahawalpur-Pakistan since 14th November, 2018. He has completed his DVM degree in July, 2011 from the ARID Agricultural University, Rawalpindi and MPhil degree in Clinical Medicine from the Department of Medicine and Surgery, Faculty of Veterinary Sciences, University of Agriculture, Faisalabad in June 2013. Furthermore, he got his Ph.D degree in Physiology from Nanjing Agriculture University, China in 2016. His primary area of research is reproductive Physiology. His research work includes investigating the role of oviduct secretions during long-term sperm storage in different animal models. Moreover, he has also worked on Nanoparticles (exosomes, endosomes, apoptotic bodies and multivesicular bodies) and their role in long-term sperm storage.

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 Zakriya University Multan (September 29, 2016 to June 01, 2018).

ADMINISTRATIVE EXPERIENCE

3. **Officer Incharge**, Department of Physiology and Biochemistry Faculty of Biosciences Cholistan University of Veterinary and Animal Sciences, Bahawalpur (May,02, 2024 to Date).
4. **Officer Incharge**, Department of Physiology and Biochemistry Faculty of Biosciences Cholistan University of Veterinary and Animal Sciences, Bahawalpur (January,1, 2022 to 30 December, 2023).
5. **Member, Admission Committee**, Faculty of Biosciences Cholistan University of Veterinary and Animal Sciences, Bahawalpur (July,06, 2022 to Date).
6. **Member Purchase Committee** for PVMC Missing Facilities and Remaining Civil works (June 27, 2023 To Date)
7. **Member, Organizing Committee** for International Multidisciplinary Conference on Innovation in Biochemistry, Veterinary Medicine and Pharmacology at Cholistan University of Veterinary and Animal Sciences Bhawalpur. (Febuary, 06-, 2023).
8. **Member, Technical Purchase Committee** for Laboratory Equipments of Cholistan University of Veterinary and Animal Sciences, Bahawalpur (January 2, 2022- Date).
9. **Member, Mou Signed an ERASMUS Mobility Agreement** for Academic staff (Department of Physiology and Biochemistry), and Post graduate 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. Febuary,07, 2023.
10. **External Examiner** of M. Phil Physiology Thesis and Viva voice, University of Agriculture Faisalabad.
11. **Member Committee to execute BS Chemistry Programme** in Faculty of Biosciences Cholistan University of Veterinary and Animal Sciences, Bahawalpur (August,03, 2021).

ADDITIONAL QUALIFICATIONS/ACTIVITIES

12. **Certificate International Multidisciplinary Conference** on Innovation in Biochemistry, Veterinary Medicine and Pharmacology at Cholistan University of Veterinary and Animal Sciences Bhawalpur. (Organizer, 06-02-2023).
13. **Certificate, Training workshop** on animal health mentoring framework and farriery mentoring framework, Organized by Faculty of Veterinary Sciences BZU Multan. (17 October, 2023).
14. **Training workshop** on Green Synthesis of Nanomaterial and applicaton in biomedical Sciences, IUB (24 November, 2022)
15. **5 days Virtual training** on biorisk management for research scholars and faculty staff of CUVAS (21-06-2021-25-06-2021)
16. **International Conference** on interdisciplinary innovation and invention in biotechnology and Nanotechnology 24-11-2021-26-11-2021
17. **"In-Service Competency Enhancement Training** for Young University Faculty" at the Cholistan University of Veterinary and Animal Sciences, Bahawalpur January, 28-30 2019
18. **International workshop** on biodiversity techniques and tools in the Department of Zoology CUVAS, Bahawalpur 04-05-2019.

DISTINCTIONS:

1. Awarded with **Chinese Government Scholarship** for the Ph.D. study during November 2013 to June1.2016, at College of Veterinary Medicine, Nanjing Agriculture University China.

2. **Awarded Outstanding Research Award** entitled Characterization of the Reproductive System with special emphasis on oviduct secretions in hen in **5 days International Gechara Conference** Inner Magnolia, 2 August 2015.
3. Awarded with **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 25-26th October, 2021, conducted by Department of Biochemistry, University of Agriculture, Faisalabad, Pakistan.
4. Awarded with **1st Position** in the 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.
5. Awarded with **3rd Position** in the 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.

FELLOWSHIP/MEMBERSHIP OF NATIONAL AND INTERNATIONAL PROFESSIONAL SOCIETIES/ AUTHORITIES/COMMITTEES

6. Member, Pakistan Veterinary Medical Association
7. Member, International Society of Zoological Sciences, Chinese Academy of Sciences, China
8. Member International Society of Physiology, Nanjing Agriculture University China
9. Reviewer, several impact factor journals.

RESEARCH PUBLICATIONS (Total=27; Impact Factor Papers = 120)

HEC RECOGNIZED IMPACT FACTOR PUBLICATIONS

1. 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
2. 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>
3. 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.
4. M. Arshad javid, M. Usman Saleem, Yasir Waqas, M. Asif et al., 2023. Advance techniques for skelton preparation and preservation. Pure and Apllied Biology vol: 12 issue 2 page 448-452.
5. 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>

6. 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>.
7. **Muhammad Yasir Waqas**, Muhammad Farrukh Nisar et al. Journal of Physiology and Biochemistry. Extracellular vesicles and exosome: Insight from physiological regulatory perspectives. February 2022 *Journal of Physiology and Biochemistry* 78(5) DOI: [10.1007/s13105-022-00877-6](https://doi.org/10.1007/s13105-022-00877-6).
8. 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](https://doi.org/10.1590/1806-9061-2021-1454)
9. **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](https://doi.org/10.9734/JPRI/2021/v33i60B34891)
10. 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.
11. **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](https://doi.org/10.3382/ps/pew141).
12. **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](https://doi.org/10.1002/jez.2002).
13. **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](https://doi.org/10.1002/jez.1957).
14. 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).
15. 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](https://doi.org/10.1002/ece3.2193).
16. 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](https://doi.org/10.1002/ece3.1575).
17. 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](https://doi.org/10.1002/ece3.1726).
18. 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](https://doi.org/10.1038/srep16096).

19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. Hu Lisi, Quanfu Li, Ping Yang, Jameel Ahmed Gandahi, Tamseel Saleem Arain, Yuan Le, Qian Zhang, 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.
27. 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.
28. **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.

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 (COVID-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

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.

ABSTRACTS

6. 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.
7. 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.
8. 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.
9. Khaliq, H., Nisar, M. F., **Waqas, M. Y.**, and Manzoor, Z.,. (2021). Biotechnology approaches to insight in the medical and veterinary sectors. Ist International Conference of Science and Technology, The Islamia University Bahawalpur.

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)

POSTGRADUATE SUPERVISED

MSc	(Hons)/M.Phil	as	Co-
supervisory			
As	Co-supervisor		14
MSc (Hons)/MPhil as member supervisory committee		>25	
MSc			(Hons)/M.Phil
As a Co-Supervisor			

Anti-tyrosinase, Anti-browning and anti-oxidant potential of *Abutilon muticum* plant extracts. Sania Niaz Bhatti. 2023.

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

MSc(Hons)/M.Phil As a Members Supervisory Committees

Sr. No.	Reg. #	Name of Student	Title of M.Phil. Thesis
1	21-CUVAS-0074	Fariha Bashir	Phytochemical screening, anti-oxidant, and nephroprotective properties of <i>Abutilon muticum</i> plant extracts. 2023
2	21-CUVAS-0075	Sania Shaheen	Determination of phytochemicals, anti-oxidant and hepatoprotective effects of <i>Gisekia pharnacioides</i> plant extracts
3	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
4	21-CUVAS-0084	Asif Ali	Anti-tyrosinase, Anti-browning and ROS potential of <i>Oxystelma esculantum</i> plant extract. 2023
5	20-CUVAS-0610	Mahnoor Khadim	Peppermint essential oil nanoemulsion as edible coating for shelf stability of <i>Solanum lycopersicum</i> L. 2023
6	19-CUVAS-ZOOL-061	Abdul Rehman	Exploring antidiabetic potential of <i>Cinnamomum verum</i> plant using network pharmacology and molecular docking. 2023
7	21-cuvas-0185	Fatima Qadeer	Microplastics in CIRRHINUS MRIGALA from the Head Punjnad, Pakistan. 2022
8	21-cuvas-0161	Fazeelat Bibi	Microplastics in fish (<i>Wallago Attu</i>) from the Head Punjnad, Pakistan. 2023
9	21-cuvas-0121	Iqra Mehwish	Feeding behaviour of an aquatic snail as a simple endpoint to assess the exposure to cadmium. 2023
10	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
11	21-cuvas-0129	Sharjeel Imam	Microplastic in <i>Labeo rohita</i> from Head Taunsa Barrage, Pakistan. 2023

LANGUAGE PROFICIENCY:

Fluent in all modules of English (Native Level, British phonetics) and Urdu

SKILLS:

Techniques being used in Biochemistry (Cell Biology, Molecular Biology, and biorheology) labs viz.,

1. Restraining and Handling Lab Animals
2. Immunological Assays
3. Transmission Electron Microscopy
4. semi qRT-PCR
5. cDNA PCR
6. Gel Electrophoresis
7. ELISA
8. Flow cytometry (Apoptosis, Cell cycle assay, Autophagy, ROS)
9. Antioxidant Capacity Assays
10. Histopathology through different staining procedures
11. ROS (Reactive Oxygen species) Detection Assays.
12. Cell Viability/Cytotoxicity Assays
13. Protein and RNA extraction & quantification assays
14. Immunofluorescence assay
15. Centrifugation
16. Xenograft assays in animal models.
17. Treatment/handling of animal model.