



**Lasbela University
of Agriculture, Water & Marine Sciences
Uthal District Lasbela, Balochistan**

Postcode: 90150, Tel: 0853-610770

Name:	Prof. Dr. Muhammad Umar Chhagari		
Designation:	Professor		
Email:	umerchhagari81@yahoo.com		
Cell #:	+923490649721		
Research Area:	Theriogenology & Cytogenetics		
QUALIFICATION			
DEGREE	PASSING YEAR	MAJOR	UNIVERSITY
Ph. D	2016	Theriogenology and Cytogenetics	Universiti Putra Malaysia (UPM), Selangor, Malaysia
M.Sc. Hons.	2007	Animal Reproduction	University of Agriculture Faisalabad (UAF), Punjab, Pakistan
Doctor of Veterinary and Medicine, (D.V.M)	2004	Veterinary and Animals Sciences	University of Agriculture Faisalabad (UAF), Punjab, Pakistan
PUBLICATIONS (NATIONAL/INTERNATIONAL)			
PATENTS: - Caseous Lymphadenitis Vaccine, Malaysian Patent filling no: P12017700282 PUBLICATIONS: ✓ Books (Chapters) - Zohaib A. B., M. A. Arain, M. Alagawany, M. Umar, I. B. Marghazani, Nasrullah, F. Soomro, M. E. Abd El-Hack, M. Saeed, M. R. Farag, A. Noreldin and K. Dhama, <i>Cassia Fistula: Potential Health-Promoting Candidate for Livestock and Poultry. Natural Feed Additives Used in the Poultry Industry, (2021): Pp. 154-175 (22).</i> - Muhammad, <u>A. A.</u>, M. Alagawany, <u>M. Saeed</u>, M. Umar, Nasrullah, F. Soomro, Mayada R. Farag, M. E. Abd El-Hack, <i>Importance of Quinoa (Chenopodium Quinoa) in Poultry Nutrition: In book: Natural</i>			

Feed Additives Used in the Poultry Industry, Betham Science: 2021, 6.

4. Illahi, B. M., Z. A. Bhuto., Nasrullah, **M. Umar**, A. Hameed and M. Jan, *Animal Health Prospectives, In book: Ketosis in Dairy Animals Animals: 2022: Pp. 232-237.*

✓ **Newspapers Publications**

5. Balochistan main Bhair Bakrion Ki Naslain in Daily Jung on 1st July, 2006.
6. Hewanat Ki Afzaish-e-Nasal Masnoi Tukham Rezi ki Ehmiat, in Daily Jung on 8th September, 2007.
7. Balochistan main Ultrasound Ki Ehmiat, in Daily Jung on 6th July, 2008.
8. Ghass puss ko Mehfoos Karney Ke Tarikey, in Livestock Corner, 2009.

✓ **Research papers**

9. Akhtar, M. F., Zhang, Y., Umar, M., Xinru, S., Ahmad, E., Ma, Q., ... & Chunhua, M. (2025). Reducing aflatoxins (*Aspergillus flavus*) in food and animal feed by physical methods and chemical degradation: An update. *Journal of Animal and Feed Sciences*, 34(2), 161-178.
10. Akhtar, M. F., Umar, M., Chai, W., Li, L., Ahmad, E., & Wang, C. (2025). Effect of Inhibin Immunization on Reproductive Hormones and Testicular Morphology of Dezhou Donkeys During the Non-Breeding Season. *Animals*, 15(6), 813.
11. Ghotia, A. G., Ahmed, N., Umer, M., Hakeem, A., Ahmed, N., Hayat, M., ... & Baseer, A. (2024). Livestock Resources, Current Management Practices And Socio-Economic Analysis Of Cholistan Desert, Pakistan. *Journal of Advanced Zoology*, 45(5).
12. Umer, M., Jameel, M., Baseer, A., Ahmed, Z., & Ghotia, A. G. (2023). An Overview of Semen Extenders and Future Challenges to Development of Artificial Insemination in Camel. *Pakistan Journal of Agriculture, Agricultural Engineering and Veterinary Sciences*, 39(2), 114-123.
13. Umer, M., Jesse, F. F. A., Saleh, W. M. M., Chung, E. L. T., Haron, A. W., Saharee, A. A., ... & Sharif, A. (2020). Histopathological changes of reproductive organs of goats immunized with *Corynebacterium pseudotuberculosis* killed vaccine. *Microbial pathogenesis*, 149, 104539.
14. Kakar, M. U., Kakar, I. U., Mehboob, M. Z., Zada, S., Soomro, H., Umair, **M. Umar**, ... & Deng, Y. (2020). A review on polysaccharides from *Artemisia sphaerocephala* Krasch seeds, their extraction, modification, structure, and applications. *Carbohydrate Polymers*, 117113.
15. Umer, M., Ali, S., & Syed, S. F. (2021). Management of dystocia due to breech presentation in doe: A case report. *Pure and Applied Biology (PAB)*, 11(2), 505-508.

16. **Umar, M.**, S. S. Faraz, Bhunesh, Shah, Q. A., and Kakar, E., Pathogenesis, Treatment, and Control of Bovine Clinical Endo-metritis: A Review. *Pak. J. Agri., Agril. Engg., Vet. Sci.*, 2022, 38 (1): 57-64.
17. Atif, M., **Umar, M.**, Zahir, M., Kakar, M. U. H., Bangulzai, N., Naeem, M., ... & Shah, S. U. (2022). Therapeutic management of Demodicosis (*Damodex canis*) in a labrador dog: A case report. *Pure and Applied Biology*. Vol. 11, Issue 4, pp907-910.
18. Nabi, F., Arain, M. A., Hassan, F., **Umar, M.**, Rajput, N., Alagawany, M., ... & Liu, J. (2020). Nutraceutical role of selenium nanoparticles in poultry nutrition: a review. *World's Poultry Science Journal*, 76(3), 459-471.
19. Hasan, S. M., Ullah, S., **Umer, M.**, Shah, M. K., Zaman, A., Hussain, I., ... & Khan, M. S. (2021). Mini Review An-overview on Buffalo Condensed Milk and its Products with Emphasis of Their Biochemical Properties. *Biological Sciences-PJSIR*, 64(3), 301-306.
20. Ahmad, T., Fiaz, M., Sharif, A., Nadeem, M., & **Umer, M.** (2022). 6. In vitro and in vivo evaluation of antimicrobials in *Escherichia coli* infection in broilers and evaluation of ciprofloxacin in induced colibacillosis. *Pure and Applied Biology (PAB)*, 11(3), 744-754.
21. Nabi, F., M. A. Arain, N. Rajput, M. Alagawany, J. Soomro, **M. Umar**, . . . L. Juan. (2020). Health benefits of carotenoids and potential application in poultry industry: A review. *Journal of Animal Physiology and Animal Nutrition*. 00:1–10.
22. Memon, A. M., Kaka, U., **Umer, M.**, Kamboh, A. A., Behan, A. A., Janyaro, H., ... & Kalhor, A. B. Benefits of Incorporating Atipamezole in Medetomidine-ketamine Anaesthesia in Pigeons. *Pakistan J. Zool.*, pp 1-8, 2021.
23. **Umer, M.**, Akhtar, N., Sharif, A., Ahmad, N., Ali, S. 2009. Toxicological effects and biochemical expression of prepubertal female rabbits in response to adenohipophysis (anterior pituitary) hormones of buf-falo. *Pakistan Journal of Zoology.*, 9 (2), 601–612, Suppl. Ser. No.9 (part-2).
24. Kakar, M. U., Matloob, M., Dai, R., Deng, Y., Ullah, K., Kakar, I.U., Khaliq, G., **Umer, M.**, Bhutto, Z.A., Fazlani, S.A. and Mehboob, M.Z., 2021. In silico screening and identification of deleterious missense SNPs along with their effects on CD-209 gene: An insight to CD-209 related-diseases. *PLoS one*, 16(2), e0247249.
25. Tanveer, A., Fiaz, M., Sharif, A., Nadeem, M., Rehman, S. U., Rizwan, M., **Umer, M.**, 2022. In vitro and in vivo evaluation of antimicrobials in *Escherichia coli* infection in broilers and evaluation of ciprofloxacin in induced colibacillosis. *Pure Appl. Biol.*, 11(3):744-754.
26. Saeed, M., Arain, M. A., Ali Fazlani, S., Marghazani, I. B., **Umar, M.**, Soomro, J., ... & Alagawany, M. (2021). A comprehensive review on the health benefits and nutritional significance of fucoidan

polysaccharide derived from brown seaweeds in human, animals and aquatic organisms. *Aquaculture Nutrition*.

27. Faeza, N. M. N., Jesse, F. F. A., Hambali, I. U., Yusuf, A., Odhah, M. N., Wessam, M. Umar & Mohd-Azmi, M. L. (2019). Clinico-pathological responses in reproductive system and its associated lymph nodes of bucks challenged with *Corynebacterium pseudotuberculosis* and its mycolic acid extract. *Comparative Clinical Pathology*, 1-12.
28. Rehman, A., Ullah, S., Malik, M. I., **Umar, M.**, & Shah, S. M. K. (2019). Shakirullah, Muhammad Shuaib Khan, Khalid Muhammad, Muhammad Noman and Muhammad Naeem. Prevalence of *F. hepatica* infestation and pathological examination in sheep (*Ovis aries*) in Dera Ismail Khan. *Pure and Applied Biology*. Vol. 9, Issue 1, pp105-111.
29. Faeza, N. M. N., Jesse, F. F. A., Hambali, I. U., Odhah, M. N., **Umer, M.**, Wessam, M. M. S., ... & Wahid, A. H. (2019). Responses of testosterone hormone concentration, semen quality, and its related pro-inflammatory cytokines in bucks following *Corynebacterium pseudotuberculosis* and its mycolic acid infection. *Tropical Animal Health and Production*, 1-12.
30. Khan, M.S., Ullah, S., Nisha, A.R., **Umar, M.**, Malik, M.I., Shah, S.M.K., Zaman, A., Ullah, S., Ullah, I. and Khan, S.A., 2020. Donkeys as an alternate domestic pack-animal in the arid zone of Dera Ismail Khan, Pakistan. *Punjab Univ. J. Zool.*, 35(1): 51-54 (2020).
31. Marghazani, I. B., Kakar, M. U. H., **Umar, M.**, Luni, F. A., Saleem, M., Hamayoon, K., & Safi, J. M. (2019). 50. The Camels in Balochistan: Status, farming practices and camel centered measures. *Pure and Applied Biology, (PAB)*, 8(1), 503-508.
32. **Umer, M.**, Yusuf A, Faez F. J. A., Wessam, M. M. S., Abdul W. H., Abdul A. S., Arbakaria B. A., Falah H. A. B., Idris U. H. and Aamir S., 2017. Caseous lymphadenitis in small ruminants: An overview on reproductive implications. *International Journal of Veterinary Sciences and Animal Husbandry*. 2(2): 23-31.
33. **Umer, M.**, Yusuf, A., Faez F. J. A., Wessam, M. M. S., Abd, W. H., Abdul, A. S., Arbakaria B. A., 2017. Isolation and Identification of *Corynebacterium pseudotuberculosis* in Reproductive Organs and Pituitary Gland of Goats Vaccinated with Prototype Vaccine against Caseous Lymphadenitis. *Saudi Journal of Pathology and Microbiology*. 2(3):70-77.
34. Saeed, M., Kalhor, S., Naveed, M., Hassan, F., **Umar, M.**, Rashid, M., ... & Chao, S. (2018). Prospects of royal jelly as a potential natural feed additive in poultry diets. *World's Poultry Science Journal*, 1-10.
35. Saeed, M., Kamboh, A., Syed, S., Babazdeh, D., Suheryani, I., Shah, Q. A. Shan, **M. Umar**, ... &

- Alghney, M. (2018). Phytochemistry and beneficial impacts of cinnamon (*Cinnamomum zeylanicum*) as a dietary supplement in poultry diets. *World's Poultry Science Journal*, 74(2), 331-346.
36. Syed, S. F., Zhao, Q., **Umar, M.**, Alagawany, M., Ujjan, I. A., Soomro, F., ... & Arain, M. A. (2018). Past, present and future of hepatitis E virus infection: Zoonotic perspectives. *Microbial pathogenesis*.
37. Saeed, M., Arain, M. A., Kamboh, A. A., Memon, S. A., **Umar, M.**, Rashid, M., ... & Alagawany, M. (2017). Raw propolis as a promising feed additive in poultry nutrition: trends and advances. *Journal of Animal Health and Production*, 5(4), 132-142.
38. Falah, H. B., Abd, W. H., Rosnina, H. Y., Mohamed, A. O., Nurhusien, Y., Zaid, J., Salman, H., Tarig, A. A., Wan-Nor, F. and **Umer, M.**, 2017. Kinetic Motilities of Cryopreserved Bull Spermatozoa: Owing to the Effect of *Eurycoma longifolia* Jack Aqueous Extract. *American Journal Animal and Veterinary Sciences*. 9, 252-262.
39. Sharif, A., **Umer, M.**, & Ahmad, T. (2017). Production of Quality Milk from Dairy Animals. *Gomal University Journal of Research*, 33(2).
40. Sharif, A., T. Ahmed, **M. Umer**, M. Q. Bilal, G. Muhammad, and M. A. Sharif, 2009. Quarter Based Determination of Milk Lactose Contents and Milk Somatic Cell Count Dairy Buffalo from Dairy under field condition in Pakistan. *Pakistan Journal of Zoology, Suppl. Ser.*, 9, pp. 313-321.
41. Odhah, M. N., Abdullah, F. F. J., Haron, A. W., Mohd. Lila M. A., Zamri-Saad, M., Khuder, Z., Hambali, I. U., **Umar, M.**, Saleh, W. M., (2017). Hemogram responses in goats toward challenged with *Corynebacterium pseudotuberculosis* and its immunogen mycolic acids, *Veterinary World*, 10(6): 655-661.
42. Nisha, A.R., D. Kumar, S. Arivudainambi, **M. Umer**, M. S. Khan, 2015. Polycyclic aromatic hydrocarbons in processed meats: A toxicological perspective. *Research Journal of Chemistry and Environment*. 19(6):72-76.
43. Muhammad, A. A., M. Khaskheli, I. R. Rajput, S. Rao, S. A. Fazlani, **M. Umer** and K. Devrajani. 2009. Examination of physical properties of Goat Meat. *Pakistan Journal of Nutrition*, 9(5), 422-425.
44. Muhammad, A. A., , I. R. Rajput, M. Khaskheli, S. Faraz, S. Rao, **M. Umer** and K. Devrajani. 2009. Effects Slaughtering Age on Chemical Composition of Goat Meat. *Pakistan Journal of Nutrition*, 9(4), 404-408.
45. Ali, S., Hamza, A., Aslam, A., Hussain, R., Maan, M. K., Nawaz, A., & Khosa, N. B. **M. Umer**. 2017. Surgical Correction of Lacerated Tongue in Cattle (Case Study). *Lasbela University Journal of Science*

and Technology. 4, pp.47-48.

46. Pansota, F. M., Sharif, A., Rizvi, F., Ahmad, T., **Umer, M.**, Hussain, I., & Ali, S. 2017. Production and Use of Hyper immune Serum in Newcastle Disease: A Review. *Lasbela University Journal of Science and Technology*. pp.117-123.
47. Sharif, A., **M. Umer**, T. Ahmad, 2014. Prevention and Control of Avian Influenza in Poultry Production. *International Journal of Agriculture Innovations and Research*, 2 (6), 976-981.
48. Sharif, A., **M. Umer**, F. M. Pansota, P. M., T. Ahmad, M. Q. Bilal, 2014. Parasitic Control in Dairy Buffaloes. *International Journal of Agriculture Innovations and Research*, 2(6), 967-970.
49. Sharif, A., **M. Umer**, T. Ahmad, M. Q. Bilal, G. Muhammad, 2014. Lactose as an Indicator of Udder Health Status under Modern Dairy Production. *International Journal of Agriculture Innovations and Research*, 2 (6), 971-975.
50. Sharif, A., **M. Umer**, and G. Muhammad, 2009. Mastitis Control in Dairy Production. *Journal of Agriculture and Social Science*, 5: 102-105.
51. Sharif, A., T. Ahmad, **M. Umer**, 2014. Parasitic Control in Poultry Flocks. *Lasbela University Journal of Science and Technology*, 1:24-28.
52. Sharif, A., T. Ahmad, **M. Umer**, A. Rehman, Z. Hussain, 2014. Prevention and Control of Newcastle Disease. *International Journal of Agriculture Innovations and Research*, 2(2), 454-460
53. Shah, M.S., A. Sarwar, M. Reissmann, H. J. Schwartz, J. A. Gandahi, A. R. Nisha, **M. Umar**. Phenotypic Characteristics and Performance Traits of Kohi Camel (*Camelus Dromedarius*), 2015. *International Journal of Biological and Pharmaceutical Sciences*, 2 (2), 13-19.
54. Tariq, M., M. S. Khan, M. G. Shah, A. R. Nisha, **M. Umer**, S. M. Hasan, A. Rahman, 2015. Exogenous antioxidants inclusion during semen cryopreservation of farm animals. *Journal of Chemical and Pharmaceutical Research*, 7 (3), 2273-2280.
55. Arif, M., R. U. Rind, M. G. Shah, A. R. Nisha, **M. Umer**, U. Kaka, A. Zaman, M. Tariq, 2015. Sero-prevalence of avian influenza in broilers of district Quetta, Balochistan, Pakistan. *Journal of Chemical and Pharmaceutical Research*, 7 (4), 1378-1384.
56. Khan, M. K., M. G. U. Shah, J. A. Gandahi, **M. Umer**, A. R. Nisha, T. A. Khatak, 2015. Donkey conservation in Pakistan: Research and welfare needs in rural and semi-urban areas of Kyber Pakhtoon Khawa, Pakistan. *Advances in Applied Science Research*, 6(4):118-124.
57. Jesse, F. F. A., Y. Abba, M. A. Sadiq, **M. Umer**, E. L. T. Chung, A. A. Bitrus, L. S. Nadhirah, H. I. Umar, A. W. Haron and M. A. M. Lila. 2016. A Suspected Case of Suppurative Frontal Sinusitis in a Friesian Heifer - Clinical Management. *International Journal of Livestock Research*, 6(8), 50-55.

58. Hassan, S. M., Khaskheli, M., Shah, A. H., Shah M. G., **Umer M.**, Nisha A. R., Tariq M., Rahman A. and Khan M. S. 2015. Physio-chemical evaluation of skimmed and condensed milk of Buffalo. *Journal of Chemical and Pharmaceutical Research*, 2015, 7(2):698-707.

PAPER PRESENTATIONS IN INTERNATIONAL CONFERENCES

✓ **Abstract published in Congress**

1. **Umer, M.**, N. Akhtar, A. Sharif, Nazir Ahmed and Shujaat Ali, 2009. Toxicological effects and Biological expression of perpubertal Female Rabbits to adenohipophysis (anterior pituitary) hormones of buffalo. 6th Asian Buffalo Congress of Pakistan Journal of Zoology. Pp. 288.
2. Sharif, A., T. Ahmed, **M. Umer**, M. Q. Bilal, G. Muhammad, and M. A. Sharif, 2009. Quarter Based Determination of Milk Lactose Contents and Milk Somatic Cell Count Dairy Buffalo from Dairy under field condition in Pakistan. 6th Asian Buffalo Congress of Pakistan Journal of Zoology. Pp. 288.

INTERNATIONAL CONFERENCES

1. 7th MAVP Scientific Conference 2015 will be held on 20th - 23rd August, 2015 at Mahkota Hotel, (Malacca).
8th Malaysian Associated of Veterinary Pathology (MAVP) Conference, 28 to 31st July, 2016 at Suites Hotel, Johor Baru, Malaysia.

TEACHING EXPERIENCE:

Designation	From	To	Organization
Lecturer	01-09 2009	01-09-2010	Department of Animal Reproduction, FVAS, LUAWMS, Uthal,
Assistant Professor	02-09-2010	14-12-2017	Department of Animal Reproduction, FVAS, LUAWMS, Uthal,
Associate Professor	14-12-2017	20-09-2021	Department of Animal Reproduction, FVAS, LUAWMS, Uthal,
Professor	20-09-2021	Update	Department of Animal Reproduction, FVAS, LUAWMS, Uthal,

WORKSHOPS/SEMINARS/TRAININGS ATTENDED AND CONDUCTED:

SHORT COURSES / TRAININGS:

1. Attained 5 days virtual training on Bio-risk Management at pathology Laboratory, Faculty of Veterinary and Animal Sciences, Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS), Uthal, Balochistan organized by Association of Bio-risk Management in collaboration with Health Security Partners and LUAWMS.

2. Attained two days' workshop on "Cyclic Self-Assessment of Degree Programs-A tool to academic excellence" helps at Quality Enhancement Cell LUAWMS, Uthal from 14-15 March, 2018.
3. One week training program attained on Advanced Veterinary Surgical and Clinical Skills on dated December 11-15, 2017 Pakistan Veterinary Medical Council (PVMC), Islamabad at Ripha College of Veterinary Sciences, Lahore.
4. Two weeks Faculty training program attained on Veterinary Clinical Procedures in Large and Small Animals on dated, December 11-15, 2017 organized by joint venture of Pakistan Veterinary Medical Council (PVMC), Islamabad and University of Veterinary and Animal Sciences, Lahore.
5. Thirteen workshop attained on Livestock Ecology sustainable Land use & Livestock system organization by Department of Veterinary Anatomy, University of Agriculture Faisalabad.
6. Two weeks workshop was received from Govt. Rural Poultry Farm conducted by Livestock & Dairy Development, Baluchistan, Quetta.
7. Attainted Two weeks workshop was received from Govt. Rural Poultry Farm conducted by Livestock & Dairy Development, Baluchistan, Quetta.
8. Attended 15 days training at Poultry Farm, Livestock and Dairy Department, Baluchistan, Quetta.
9. Two week training completed at Animal Breeding and Genetics, Livestock department, Quetta, Baluchistan.
10. Also received one day training as a presiding officer for National Elections, 2008.
11. Fifteen days attended the training at Civil Veterinary hospital Livestock, Quetta.
12. Two week training completed at Diseased Investigation Laboratory Livestock Department,

SHORT BIOGRAPHY:

Position & Department: Professor; Department of Animal Reproduction, Faculty of Veterinary and Animal Science, Lasbela University of Agriculture Water & Marine Sciences, (LUAWMS).

Research Interests: Improving reproductive efficiency, genetic conservation, and sustainable livestock production. Key areas include animal cell culture techniques, gamete technology, cryopreservation of reproductive cells and tissues, in vitro fertilization and embryo culture, embryo transfer technology, and assisted reproductive technologies.