

CURRICULUM VITAE

Sibtain Ahmad, Ph.D.

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Experience

05.2024-
To date **Associate Professor**
Institute of Animal & Dairy Science/
Center for Advanced Studies-Agriculture and Food Security (CAS-AFS)
University of Agriculture Faisalabad, Pakistan

04.2014-
05.2024 **Assistant Professor**
Institute of Animal & Dairy Science/
Center for Advanced Studies-Agriculture and Food Security (CAS-AFS)
University of Agriculture Faisalabad, Pakistan

02.2014-
04.2014 **Lecturer**
Sub-Campus Toba Tek Singh
University of Agriculture Faisalabad, Pakistan

06.2008-
10.2009 **Research Assistant**
University of Agriculture, Faisalabad
Project entitled “Computer Assisted Identification of Large Ruminants” funded by FDTTPC
for 17 months

Education

Doctorate of Philosophy

Huazhong Agricultural University

Wuhan, Hubei, China

Date of Completion: December, 2013

Dissertation: Identification and cryopreservation of type A spermatogonia in Chinese crossbred buffalo (Swamp × River)

Masters of Science in Livestock Management

University of Agriculture Faisalabad,

Faisalabad, Punjab, Pakistan

Date of Graduation: September, 2009

Thesis: Factors Affecting the milk quality and composition of traditionally managed camels in the peri-urban areas of Jhang

Bachelor of Science (Hons.) Agriculture

University of Agriculture Faisalabad,

Faisalabad, Punjab, Pakistan

Date of Graduation: 2007

Major: Animal Science

Courses Taught

Undergrad
Courses 1. Introduction to Livestock Management
2. Management of Dairy Animals
3. Dairying under difficult Environments
4. Principles of Small Ruminant Production
5. Physiology of Lactation
6. Introductory Molecular Genetics

Postgrad Courses	1. Dairy Production
	2. Milk Secretion and Lactation
	3. Managing Livestock under Stress Conditions
	4. Trends and Potential of Milk and Meat Production

Research Interest(s) and Expertise

Research Interest(s)

- Computational Biology
- Bioinformatics
- Biotechnology
- Protein Modelling
- Dairy Genomics
- Modelling
- Livestock Production Systems

Skills

- R
- Python
- JavaScript
- LIVSim
- SPSS
- Statistix 8.0

Student Research Supervision

Currently supervising 04 students M.Sc. (Hons) thesis under my supervision

12 students completed M.Sc. (Hons)/MPhil thesis under my supervision

12 students completed MPhil thesis under my Co-supervision

Co-Supervisor of 01 PhD student from University of Okara, Okara.

Member Supervisory committee of 01 PhD student (Livestock Management)

Member supervisory committee of 12 M.Sc. (Hons) students

List of publications

1. Besharati, M., **Ahmad, S.**, Jabbar, M., Palangi, V., Esen, S., Esen, V. K., & Lackner, M. (2024). Effects of stress hormones on digestibility and performance in cattle: A review. *Open Agriculture*, 9(1), 20220387.
2. Sajid, M. S., Faiz, S., Qasim, M., Jan, I., **Ahmad, S.**, Fouad, D., & Ataya, F. S. (2024). Molecular Methods for Detecting Antiparasitic Resistance. In *Antiparasitic Drug Resistance in Veterinary Practice* (pp. 110-123). GB: CABI.
3. Bilal, A., Tanvir, F., **Ahmad, S.**, Azam, A. R., Qasim, M., Zafar, H., & Tanvir, F. (2024). Therapeutical evaluation of bioactive compounds of *Nigella sativa* for HER2-positive breast cancer treatment. *Journal of Population Therapeutics & Clinical Pharmacology*. 31 (9), 3149-3164
4. Jawad, M., Tanvir, F., Khan, S., Saqib, U. N., Ishaq, R., Shahin, F., Bilal, A., **Ahmad, S.**, Laiq, M., Usman, M., Rizwan, M., Anees, A., Ditta, S. A., & Yaqub, A. (2024). Epidemiological Insights into Cutaneous Leishmaniasis Surveillance in Tribal District Bajaur, Pakistan. *Journal of Population Therapeutics and Clinical Pharmacology*, 31(8), 684–699.
5. Bilal, A., Tanvir, F., **Ahmad, S.**, Mustafa, R., Ghanwa, F., & Shahin, F. (2024). *In-silico* drug discovery from phytoactive compounds against Estrogen receptor beta (ER β) inducing human mammary carcinoma. *Research*, 7(4), 1-17.
6. Bilal, A., Tanvir, F., **Ahmad, S.**, Kanwal, N., Zulfiqar, H., & Ishaq, R. (2024). Pharmacokinetic properties of bioactive compounds of Aloe vera against pregnancy-associated plasma protein A (PAPP-A) inducing triple-negative breast cancer. *Kurdish Studies*, 12(5), 157–168.
7. Bilal, A., Tanvir, F., **Ahmad, S.**, Shah, S. H. A., Ahmad, H. A., & Kanwal, N. (2024). Pre-clinical study of the bioactive compound Asiaticoside against the proteins inducing human mammary carcinoma using molecular docking and ADME analysis. *Remittances Review*, 9(2), 3543-3576.
8. Hakeem, I. J. A., Kamboh, A. A., Matar, A. M., **Ahmad, S.**, Ahmad, S., Kumar. V., (2024). Prevalence and Antibioqram of *Clostridium perfringens* in Small Ruminants of District Kalat, Balochistan. *Indian Journal of Animal Research*, 58(1)

9. Waheed, S., Ramzan, K., **Ahmad, S.**, Khan, M. S., Wajid, M., Ullah, H., ... & Bari, A. (2024). Identification and In-Silico study of non-synonymous functional SNPs in the human SCN9A gene. *Plos one*, 19(2), e0297367.
10. Zafar, H., Kamboh, A. A., Zain-ul-Abideen, T. M., **Ahmad, S.**, & Zafar, U. (2024). Antimicrobial resistance profiling of *E. coli* isolated from various sources of broiler farms in district quetta, Balochistan. *J. Anim. Health Prod*, 12(1), 24-30.
11. Afzal, M., Ali, U., Riaz, A., Tanvir, F., Bilal, A., **Ahmad, S.**, (2024). *In-silico* analysis of deleterious single nucleotide polymorphisms (SNPS) of leukemia inhibitory factor (LIF), and their conformational predictions. *Journal of Population Therapeutics & Clinical Pharmacology*. 31(1)
12. Dayoub, W., **Ahmad, S.**, Riaz, M., Sajid, M. S., Bilal, G., & Hussain, K. (2024). Forecasting enteric methane emission using autoregressive integrated moving average and Holt–Winters time series models in South Asian countries. *International Journal of Environmental Science and Technology*, 1-10.
13. **Ahmad, S.**, Ramzan, F., Aziz-ur-Rahman, M., Hussain, K., Umer, S., Saleem, M. N., & Thekkiniath, J. (2023). Parasite control strategies: Selective breeding. In *Parasitism and parasitic control in animals: Strategies for the developing world* (pp. 168-182). GB: CABI.
14. Naz, M., Hashmi, R., Nazeer, S., Raza, H. A., Akhtar, N., Hussain, Z., ... & **Ahmad, S.** (2023). Agripreneurship as a sustainable panacea of food security; an emerging issue. *Journal of Global Innovations in Agricultural Sciences*. 11(1)
15. Qudoos, A., Tahir, U. B., **Ahmad, S.**, Tariq, M., Imran, M., Nadeem, R., ... & Rizwan, H. M. (2023). Trace mineral concentration of forages in connection with sheep dietary requirements. *South African Journal of Animal Science*, 53(3), 361-368.
16. Tariq, M., G. Abbas, **S. Ahmad**, R. Mustafa, H. Sultan, M. Abdullah, I. Hussain, M. Arshad, U. Bashir Cheema and S. U. Hassan. (2023). Effect of supplementation of minerals on the productive and reproductive performance of lactating cattle and buffalo. *Pakistan Journal of Science*, 74(4). <https://doi.org/10.57041/pjs.v74i4.803>
17. Bilal, A., **Ahmad, S.**, Nisa, F. U., Ali, F., Ramzan, K., Tariq, M., & Saleem, M. (2022). Role of Tumor Necrosis Factor-Beta (TNF- β) in gastric cancer: Single Nucleotide Polymorphisms analysis: An in-silico study. *The Journal of Microbiology and Molecular Genetics*, 3(3), 191-206.
18. Sharif, M., Hanif, A. R., Shahid, M. S., **Ahmad, S.**, Bilal, M. Q., Riaz, M., & Khalid, M. F. (2022). Effects of dietary substitution of canola meal with yeast fermentative biomass on growth performance, blood metabolites, hematological index and serum minerals in buffalo male calves.
19. Bilal, A., **Ahmad, S.**, Tanvir, F., Tariq, M., Ramzan, K., Saleem, M., & Saleem, M,G,H., (2022). Predictive modeling of N-Acetyl Transferase 2 Single Nucleotide Polymorphisms and breast cancer risk using In-silico approaches. *The Journal of Microbiology and Molecular Genetics*, 3(2), 105-121.
20. Hamid Ullah, Muhammad Saqib, Muhammad Sohail Sajid, Sabir Hussain, Hafiz Muhammad Rizwan, Khurram Ashfaq, Sadia Ghazanfer, Asif Ali Butt, Mahvish Maqbool, **Sibtain Ahmad**, Olivier Andre Sparagano. (2022). Screening of Toxoplasmosis in Domestic and Stray Dogs through Latex Agglutination and Indirect ELISA. *Pathogens*. 11(11):1307.
21. Hasnain, M. J. U., Amin, F., Ghani, A., **Ahmad, S.**, Rehman, Z., Aslam, T., & Pervez, M. T. (2021). Structural and Functional Impact of Damaging Nonsynonymous Single Nucleotide Polymorphisms (nsSNPs) on Human VPS35 Protein Using Computational Approaches. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*.
22. Anwar, U., **Ahmad, S.**, Abdelgayed, S.S., Hussain, M., Rehman, A., Riaz, M., Yousaf, M., Bilal, M.Q., Bhatti, S.A. and Rahman, M.A. 2022. Influence of Phytase with Or without Organic Acid (Sodium Di-Formate) Supplementation on Growth Performance, Carcass Response, Protein and Mineral Digestibility in Starter Phase of Broilers. *Brazilian Journal of Poultry Science*, 24.

23. Aziz ur Rahman, M., Jamal, U., Anwar, U., Bilal, M. Q., Riaz, M., Hussain, M., & **Ahmad, S.** 2021. Effects of potato peels inclusion with exogenous enzymes in broiler diet on growth performance, nutrients digestibility and carcass characteristics. *Science Progress*, 104(4), 00368504211061972.
24. Tariq, M., **S. Ahmad**, G. Abbas, R. Mustafa, H. Sultan, M. Abdullah, M. F. Khalid, U. B. Cheema, M. Arshad and R. A. M. Qureshi. 2022. Pakistan meat industry: prospects and challenges for the future meat supply chain potential. *Pakistan Journal of Science*, 74(1): 1-11.
25. Mehmood, K., Bao, Y., Mushtaq, S., Khan, M.A., Siddique, N., Bilal, M., Heng, Z., Huan, L., Tariq, M. and Ahmad, S., 2022. Perspectives from remote sensing to investigate the COVID-19 pandemic: A future-oriented approach. *Frontiers in Public Health*, 10.
26. Muhammad Farhan Ayaz Chishti, Muhammad Aziz ur Rahman, Karamo Jatta, Sajjad Khan, Muhammad Riaz, Qamar Bilal, Urooj Anwar, **Sibtain Ahmad**, Hassan Munir Bajwa and Fahd Rasul. 2022. Effect of forage to concentrate ratio on growth performance and feeding behavior of Thalli lambs. *Tropical Animal Health and Production*, 54:236.
27. Zhang, S., **S Ahmad**, Yuxia Zhang, Guo-Hua Hua, Jian-Ming Yi, 2021, Long intergenic non-coding RNAs in the mammary parenchyma and fat pad of pre-weaning heifer calves: Identification and functional analysis. *Animals* (Accepted for publication on 24.04.2021)
28. Mustafa, B.M., M. Arshad, **S Ahmad**, M. Ashraf, M. A. Ashraf, U.H. Khan, A. Fayyaz and A. Waheed. 2016. Experimental Trials of Foot and Mouth Disease Vaccines with Different Vegetable Oil Adjuvants in Goats under Field Conditions. *Pakistan Journal of Life and Social Sciences*, 14(3): 178-182
29. **Ahmad, S.**, M. Tariq, M. Rizwan, B. Ayub and P. Akhtar. Nutrigenomic evaluation of herbal growth promoter: growth performance, carcass characteristics and hematology in broiler. International symposium of genetics and human phenomics, May 11-13, 2016. Pp. 39
30. **Ahmad S**, Xiao Y, Han L, Hua H, Riaz H, Liang A, Yang LG. 2013. Isolation, Identification and Enrichment of Type A Spermatogonia from the Testis of Chinese Cross-Bred Buffaloes (Swamp x River). *Reproduction in domestic animals*. 48(3):373-81
31. Fu SB, HL Zhang, H Riaz, **S Ahmad**, XM Wang, X Li, GH Hua, XR Liu, AZ Guo and LG Yang. 2013. Effects of Different Doses of PMSG on Reproductive Performance in Chinese Holstein Dairy Cows *Pakistan Veterinary Journal*. 33(9):209-12
32. Riaz H, Liang A, Khan MK, Dong P, Han L, Shahzad M, Chong Z, **Ahmad S**, Hua G, Yang L. 2013. Somatostatin and its receptors: Functional regulation in the development of mice Sertoli cells. *J Steroid Biochem Mol Biol*. 138: 257-66
33. **Ahmad S**, Yaqoob M, Bilal MQ, Khan MK, Muhammad G, Yang LG, Tariq M. 2012. Factors affecting yield and composition of camel milk kept under desert conditions of central Punjab, Pakistan. *Trop Anim Health Prod*. 44(7):1403-10
34. **Ahmad S**, Yaqoob M, Bilal MQ, Muhammad G, Yang LG, Khan MK, Tariq M. 2012. Risk factors associated with prevalence and major bacterial causes of mastitis in dromedary camels (*Camelus dromedarius*) under different production systems. *Trop Anim Health Prod*. 44(1):107-12
35. Wang S, Liu G, **Ahmad S**, Liu W, Riaz H, Jiang X. 2012. Vasoactive intestinal peptide suppresses ovarian granulosa cell apoptosis in vitro by up-regulating Bcl-2 gene expression. *Anim Reprod Sci*. 132(3-4):201-6
36. Wang SL, Han L, **Ahmad S**, Cao SX, Xue LQ, Xing ZF, Feng JZ, Liang AX and Yang LG. 2012. Effect of a DNA vaccine harboring two copies of inhibin alpha (1-32) fragments on immune response, hormone concentrations and reproductive performance in rats. *Theriogenology*. 78(2):393-401
37. Yao Xiao, HZ, **S. Ahmad**, Liya Bai, Xiaomin Wang, Lijun Huo, Xin Zhang, Wengong Li, Xiang Li, Liguang Yang. 2012. Sperm capacitation combined with removal of sperm acrosome and plasma membrane enhances paternal nucleus remodeling and early development of bovine androgenetic embryos. *Reproduction, Fertility and Development*. 25(4):624-38
38. Wang, SJ. Liu, WJ., Wu, CJ., Ma, FH., **Ahmad, S.**, Liu, BR., Han, L., Jiang, XP., Zhang, SJ., Yang,

- LG. 2012. Melatonin suppresses apoptosis and stimulates progesterone production by bovine granulosa cells via its receptors (MT1 and MT2). *Theriogenology*. 78(7):1517-26
39. Zaman, M. A., Iqbal, Z., Abbas, R. Z., Khan, M. N., Muhammad, G., Younus, M. and **Ahmad, S.** 2012. In vitro and in vivo acaricidal activity of a herbal extract. *Vet Parasitology*. 186(3-4):431-6
 40. Cai K, Hua G, **Ahmad S**, Liang A, Han L, Wu C, Yang F, Yang LG. 2011. Action mechanism of inhibin alpha-subunit on the development of Sertoli cells and first wave of spermatogenesis in mice. *PLoS One*. 6(10): e25585
 41. **Ahmad S.**, M. Yaqoob, N. Hashmi, M. A. Zaman and M. Tariq. 2010. Economic Importance of Camel: A Unique Alternative under Crisis. *Pakistan Veterinary Journal*. 30(4):191-7
 42. **Ahmad S.**, M. Yaqoob, N. Hashmi, M. A. Zaman, and M. S. Amjad. 2009. Farmers' attitude towards interventions regarding buffalo calf health care and management practices under field conditions. *Pakistan Veterinary Journal*. 29(3): 125-128

Book Chapters

1. Sajid, M.S., Faiz, S., Qasim, M., Jan, I., **Ahmad, S.**, Fouad, D. and Ataya, F.S., 2024. Molecular Methods for Detecting Antiparasitic Resistance. In *Antiparasitic Drug Resistance in Veterinary Practice* (pp. 110-123). GB: CABI.
2. **Ahmad, S.**, F. Ramzan, M.A. Rahman, K. Hussain, J. Thekkiniath. 2023. Parasite Control Strategies: Selective Breeding. CABI Publishers.
3. Fiaz, S., Aslam Khan, S., Anis, G.B., Ali, H., Ali, M., Ali, K., Ali Noor, M., **Ahmad, S.** and Ahmad Asad, B., 2021. Application of Genome Engineering Methods for Quality Improvement in Important Crops. *Genome Engineering for Crop Improvement*, pp.43-68.

Seminars/Conferences/Trainings

1. 1st International conference on Zoonoses 22/10/2014 – 24/10/2014 – College of Veterinary and Animal Sciences, Jhang-Pakistan
2. International conference on Advances in Parasitology and Public Health 16/12/2014 – 18/12/2014 – University of Agriculture, Faisalabad & University of Kassel, Germany
3. International workshop on Renewable Energy Technologies in Pakistan 04/11/2015 – 06/11/2015
4. International Workshop on Renewable Energy Technologies for Community Development in Pakistan 16/11/2015 – 18/11/2015
5. Proceeding of 3rd International Workshop Dairy Science Park 14/12/2015 – 15/12/2015 – University of Agriculture, Faisalabad-Pakistan
6. International seminar on Poultry Diseases 16/03/2016 – 17/03/2016
7. International Livestock, Dairy and Poultry Congress ILDP 17/11/2016 – 19/11/2016
8. International Conference on Sustainable Agriculture in Pakistan 08/11/2016 – 09/11/2016
9. International workshop on sustainable energy solutions for community development in Pakistan 20/10/2016 – 21/10/2016 – Bahauddin Zakariya University, Multan, Pakistan
10. 2nd International conference on zoonoses 13/02/2019 – 15/02/2019 – University of Agriculture, Faisalabad-Pakistan
11. Conference on “Innovations in Agriculture” Theme: Nourishing Pakistan in Changing Climate 06/02/2019 – 07/02/2019 – University of Agriculture, Faisalabad-Pakistan
12. International Symposium on “Technologies and materials for renewable energy environment and sustainability 29/10/2019 – 30/10/2019 – ICDD, Germany and University of Agriculture, Faisalabad-Pakistan
13. International Conference on Green Energy Technologies (GET) 11/05/2016 – 13/05/2016
14. International symposium of genetics and human phenomics 17/01/2023 – 17/01/2023 – University of Agriculture, Faisalabad
15. Equine Husbandry - Breeding GMP's 01/06/2023 – 01/06/2023 – University of Agriculture,

Faisalabad

16. World Milk Day (Safe Milk, Safe Nation) 14/02/2024 – 14/02/2024 – University of Agriculture, Faisalabad
17. One Day Training Workshop on Nutrition Mind: Empowering Mental Health Awareness with Special emphasis on Animal Assisted Therapy

Memberships and Professional Activities

1. American Society for Microbiology
2. Pakistan Society of Animal Sciences
3. International Society of Camelid
4. Camel Association of Pakistan

Honors and Awards

1. Received partial fellowship from International Centre for Genetic Engineering and Biotechnology (ICGEB) to attend Workshop on Phenomes and Genome – Fudan University, Shanghai-China
2. The patent on Polyherbal mineral vitamin-based feed additive for broiler chickens – The Patent Office, Karachi-Pakistan
3. Won PhD scholarship under Faculty Development Program (FDP) of UAF

Community Service

1. Volunteer Outreach Programs for Productivity Enhancement of Animals in Rural and Commercial/Corporate Dairy Farms