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DATE OF BIRTH: August 14th, 1981
FIELD OF SPECIALIZATION: Pharmacology and Toxicology
Total No. of Publication : 32
Book chapter : 3

Education

- **Ph.D. 'Pharmacology and Toxicology' – 2022,** Department of Preclinical Sciences, Faculty of Veterinary Medicine, University Putra Malaysia (UPM).
  Thesis Title: ***Piper betle* L. AND *Persicaria odorata* (Lour.) Soják AS ALTERNATIVE TO ANTIMICROBIAL GROWTH PROMOTERS IN BROILER CHICKENS.**
- **M.Sc. (Hons.) -2007,** in Veterinary Pharmacology**,** University of Agriculture Faisalabad, Pakistan.
- **Doctor of Veterinary Medicine (DVM)-2005,** University of Agriculture Faisalabad, Pakistan.

Professional Experience

- Worked as a **Lecturer** (Pharmacology) in in Faculty of Veterinary Sciences Bahauddin Zakariya University Multan Pakistan from 19.08.2008 to 25.09.2014.
- Working as **Assistant Professor** (Pharmacology) in Faculty of Veterinary Sciences, Bahauddin Zakariya University Multan Pakistan from 26-09-2014 till date.
- **Master Trainer** in PARA-VETS training Program executed by Faculty of Veterinary Sciences, Bahauddin Zakariya University, Multan- Pakistan funded by IFAD-Assisted Southern Punjab Poverty Alleviation Project (SPPAP), Planning and Development Department, Government of the Punjab- Pakistan. From May 2016- May 2017

Projects

- A preliminary study of competitive efficacy of herbal drug (Arnica) with Cicatrin® for wound healing in rabbits funded by B.Z University Multan in May 2013. **(Completed)**
- Qualitative and quantitative phytochemical screening, antioxidant activity, antimicrobial potential and toxicity of selected medicinal pants *Eleocharis dulcis* fruit and *Eleocharis peel* extracts **(ongoing)**

Publications

1. Kaka, U., Degu, N.Y., Kumar, P., Abubakar, A.A., Goh, Y.M., Aslam, M.W., Bhutto, K.U.R., **Basit, M.A.,** Qadi, W.S., Misnan, N.M. and Mediani, A., (2025). Do bulls experience pain or stress during electroejaculation? Evidence from electroencephalography, behavioral, hormonal, and metabolite profiling. *Veterinary World*, *18*(4), p.763.
   DOI: 10.14202/vetworld.2025.763-772

2. **Muhammad Abdul Basit**, Arifah Abdul Kadir, Ubedullah Kaka, Muhammad Arshad Javid, Muhammad Usman Saleem, Sheraz Ahmed Bhatti, Abdul Asim Farooq, Saeed Murtaza, 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 and Clinical Pharmacology*, 31(5), 61-82. https://doi.org/10.53555/jptcp.v31i5.6088

3. 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. *Biological and Clinical Sciences Research Journal*, 5 (1), 771 (HEC; Y). https://doi.org/10.54112/bcsrj.v2024i1.771; https://bcsrj.com/ojs/index.php/bcsrj/article/view/771
4. Farooq, A., Khan, M., Akbar, H., Lashari, M., Inayat, S., Javid, M., Saleem, M., Murtaza, S., Shah, M., **Basit, M. A**., Hayat, M., & Nasreen, S. (2024). Incidence Of Fracture In Small Ruminants: A Retrospective Study. *Biological and Clinical Sciences Research Journal*, *2024*(1), 738. https://doi.org/10.54112/bcsrj.v2024i1.738
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. (2024). 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*(1), 41-47.

6. Maqsood, A., P, Saira., G. Sadaf., G, Maria., Saleem, M. U., Farooq, A. A., Javid, M. A., **Basit, M. A**., Bhatti, S.A., & Nawaz, M., (2024). Assessment of Histo-Physiological and Biochemical changes in Quails (*Coturnix coturnix*) supplemented by Zinc and Protexin reared under heat stress. *Journal of Population Therapeutics and Clinical Pharmacology*, *31 (4),* 154-163. (IF= 0.28) DOI.10.53555/jptcp.v31i4.5330
7. Murtaza, S., Sattar, A., Ahmad, N., Khan, I. R., Ijaz, M., Ahmad, T., Farooq, A. A., **Basit, M. A**., Javid, M. A., Saleem, M.U., Ahmad, J., & Azam, B. (2024). Effect of long-term, exogenous administration of oxytocin on milk production, composition, somatic cell count, and progesterone in postpartum Nili-Ravi buffalo. *South African Journal of Animal Science*, *54*(1), 37-46. https://doi.org/10.4314/sajas.v54i1.05
8. **Basit, M. A**., Kadir, A. A., Chwen, L. T., Salleh, A., Kaka, U., Idris, S. B., Farooq, A. A., Javid, M. A., & Murtaza, S. (2023). Qualitative and quantitative phytochemical analysis, antioxidant activity and antimicrobial potential of selected herbs Piper betle and Persicaria odorata leaf extracts. *Asian Journal of Agriculture and Biology (3),* 2023. (IF=0.178, HEC; X). https://doi.org/10.35495/ajab.2023.038
9. Farooq , A., Javid , M., Murtaza , S., Lashari , M., Shah , M., Saleem , M., **Basit, M. A**., Asif, M., Waqas, M., Akhtar, M., Ahmad, E., Ahmad, T., Rasheed, H., Nasreen, S., & Arshad, M. (2023). Post-Operative Complications Encountered By The Students During Canine Surgery: A Retrospective Study. *Biological and Clinical Sciences Research Journal*, *2023*(1), 591. https://doi.org/10.54112/bcsrj.v2023i1.591
10. Farooq, A. A., Khan, M. A., Akbar, H. A., Hayat, M. A., Murtaza, S. M., Shah, M. H., Javid, M.A., Saleem, M.U., **Basit, M. A**., Inayat, S.I., Lashari, M.H., & Sajjad, M. T. (2023). Effects of autologous bone marrow on the healing of long bones fractures reduced by external skeletal fixators in goats. *Iraqi Journal of Veterinary Sciences*, *37*(4), 963-969. https://doi.org/10.33899/ijvs.2023.137990.2759
11. Javid, M. A., Saleem, M. U., Waqas, M. Y., Farooq, A. A., Murtaza, S., Asif, M., **Basit, M.A**., & Shah, M. H. (2023). Improvement of veterinary anatomy by using recent scientific techniques for skeleton preparation and preservation. *Pure and Applied Biology (PAB)*, *12*(2), 848-853. http://dx.doi.org/10.19045/bspab.2023.120084
12. Lashari, M. H., Waheed, A., Nasreen, S., Anam, M., Farooq, A. A., Inayat, S., Saleem, M. U., Murtaza, S., Shah, M. H., **Basit, M. A**., Javid, M.A., & Mohyuddin, S. G. (2023). Serologic Prevalence Of Toxoplasmosis In Women's Visiting Bahawal Victoria Hospital,

Bahawalpur. *Pakistan Journal of Science*, *75*(1). http://paas-pk.com/SubPages/Journal/ResearchPaper.aspx?fcso=2&menuid=1006&manid=6931

13. Idris, S. B., Kadir, A. A., Abdullah, F. F.J., Ramanoon, S. Z., **Basit, M. A.,** & Abubakar, M. Z. Z. (2022). Efficacy and Toxicity Studies of Oxytetracycline-loaded Calcium Carbonate Nanoparticles in Corynebacterium pseudotuberculosis Infected BALB/C Mice. *Iranian Journal of Toxicology*, *16*(2), 99-112. http://dx.doi.org/10.32598/IJT.16.2.915.1
14. Javid, M. A., Masood, S., Zaneb, H., Rehman, H. U., Nazir, M. M., Waqas, M. Y., Asif, M., **Basit M. A**., Abbas, G., & Sufyan, A. B. (2022). Effect of dietary growth promoter supplementations on the serum biochemistry and morphometric characteristics of tibia bone in broiler chicken. *Brazilian Journal of Poultry Science*, *24*(04), eRBCA-2021. http://dx.doi.org/10.1590/1806-9061-2021-1454
15. Idris, S.B., A. Abdul kadir, J.F. F. Abdullah,S.Z. Ramanoon, M. A. Basit and M.Z.A.B. Zakaria, 2021. Antibiofilm activity of oxytetracycline loaded calcium carbonate aragonite loaded nanoparticle against *Corynebacterium pseudotuberculosis*. Int. J. Pharmacol., 17: 73-83. DOI: 10.3923/ijp.2021.73.83
16. Idris, S. B., Arifah, A. K., Jesse, F. F., Ramanoon, S. Z., **Basit, M. A**., & Zakaria, M. Z. (2021). In vitro cytotoxicity evaluation of oxytetracycline loaded cockle shell derived calcium carbonate aragonite nanoparticles. *Nanoscience & Nanotechnology-Asia*, *11*(2), 237-242 https://doi.org/10.2174/2210681210999200420083144 .
17. Quddus, A., Yimer, N., Jesse, F. F. A., **Basit, M. A**., Amir, M., & Islam, M. S. (2021). Edible bird's nest protects histomorphology of rat's uterus against cadmium (Cd) toxicity through a reduction of Cd deposition and enhanced antioxidant activity. *Saudi Journal of Biological Sciences*, *28*(12), 7068-7076. https://doi.org/10.1016/j.sjbs.2021.08.012
18. Quddus, A., Yimer, N., Jesse, F. F. A., Noordin, M. M., Hiew, M. W. H., **Basit, M. A**., Amir, M., M, Islam., M.S., & Kaka, U. (2021). Protective effect of edible bird's nest on ovaries of cycling female rats subjected to cadmium toxicity. *J. Anim. Health Prod*, *9*(4), 496-503. http://dx.doi.org/10.17582/journal.jahp/2021/9.4.496.503
19. Quddus, A., Yimer, N., **Basit, M. A**., Khan, S., & Amir, M. (2021). Review of antioxidant-rich natural dietary products as protective and therapeutic factors against cadmium toxicity in living organisms. *Pertanika Journal of Tropical Agricultural Science*, *44*(1).
20. **Basit, M. A**., Kadir, A. A., Loh, T. C., Abdul Aziz, S., Salleh, A., Zakaria, Z. A., & Idris, S.B. (2020). Comparative efficacy of selected phytobiotics with halquinol and tetracycline on gut morphology, ileal digestibility, cecal microbiota composition and growth performance in broiler chickens. *Animals*, *10*(11), 2150. https://doi.org/10.3390/ani10112150
21. **Basit, A. M**., Abdul Kadir, A., Loh, T. C., Abdul Aziz, S., Salleh, A., Kaka, U., & Banke Idris, S. (2020). Effects of inclusion of different doses of Persicaria odorata leaf meal (POLM) in broiler chicken feed on biochemical and haematological blood indicators and liver histomorphological changes. *Animals*, *10*(7), 1209. https://doi.org/10.3390/ani10071209
22. **Basit, M. A**., Arifah, A. K., Loh, T. C., Saleha, A. A., Salleh, A., Kaka, U., & Idris, S. B. (2020). Effects of graded dose dietary supplementation of Piper betle leaf meal and Persicaria odorata leaf meal on growth performance, apparent ileal digestibility, and gut morphology in broilers. *Saudi Journal of Biological Sciences*, *27*(6), 1503-1513. https://doi.org/10.1016/j.sjbs.2020.04.017
23. Idris, S. B., Kadir, A. A., Abdullah, J. F., Ramanoon, S. Z., **Basit, M. A**., & Abubakar, M. Z. Z. (2020). Pharmacokinetics of Free Oxytetracycline and Oxytetracycline Loaded Cockle Shell Calcium Carbonate-Based Nanoparticle in BALB/c Mice. *Frontiers in Veterinary Science*, *7*, 270. https://doi.org/10.3389/fvets.2020.00270
24. Idris, S. B., Kadir, A. A., Jesse, F. F. A., Ramanoon, S. Z., **Basit, M. A**., Zakaria, Z. A., & Zakaria, M. Z. A. B. (2019). Synthesis, characterization, and in vitro release of oxytetracycline

loaded in pH-responsive CaCO3 nanoparticles. *Journal of Applied Pharmaceutical Science*, *9*(11), 019-027. https://doi.org/10.7324/JAPS.2019.91103

25. Javid, M. A., Abbas, G., Waqas, M. Y., **Basit, M. A**., Asif, M., Akhtar, M. S., Masood, S., Saleem, M. U., Qamar, S. H., & Kiani, F. A. (2019). Evaluation of comparative effect of feed additive of Allium sativum and Zingeber officinale on bird growth and histomorphometric characteristics of small intestine in broilers. *Brazilian Journal of Poultry Science*, *21*(02), eRBCA-2019. http://dx.doi.org/10.1590/1806-9061-2019-0993
26. Waqas, M. Y., Zhang, Q., Ahmed, N., Yang, P., Xing, G., Akhtar, M., **Basit, M. A**., Liu, T., Hong, C., Arshad, M., Rahman, H. M., & Chen, Q. (2017). Cellular evidence of exosomes in the reproductive tract of Chinese soft-shelled turtle Pelodiscus sinensis. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, *327*(1), 18-27. DOI: 10.1002/jez.2065

Book Chapter

1. Saleem MU, Farooq AA, Javid MA, Basit MA, Bhatti SA, Murtaza S, Shah MH, Asif M, Nawaz M and Kiani FA, 2025. Role of nutrition, supplements and feed additives in animals exposed to heat stress. In: Şahin T, Ameer K, Abid M and Tahir S (eds), Nutritional Foundations of Holistic Health: From Supplements to Feed Strategies. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 298-305. https://doi.org/10.47278/book.HH/2025.487

2. Javid M A, Gandahi J A, Shah M G, Saleem M U, Gandahi N S, Farooq A A, Basit M A, Murtaza S, Bhatti S A, Shah M H, 2025. Use of prebiotics and probiotics in heat stress. In: Aadil RM, Salman M, Mehmood K and Saeed Z (eds), Gut Microbiota and Holistic Health: The Role of Prebiotics and Probiotics. Unique Scientific Publishers, Faisalabad, Pakistan, pp: 325-331. https://doi.org/10.47278/book.HH/2025.488

3. Alshelmani, M. I., Abdalla, E. A., Kaka, U., & **Basit, M. A.** (2021). Nontraditional feedstuffs as an alternative in poultry feed. In Advances in Poultry Nutrition Research. IntechOpen. DOI: 10.5772/intechopen.95946