

# Dr. Zahir Shah, Curriculum Vitae

## CONTACT INFORMATION:

**Parent Institute:** College of Veterinary Sciences, Faculty of Animal Husbandry & Veterinary Sciences, The University of Agriculture, Peshawar-25130-Pakistan. Passport No. TW 5149023  
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<https://orcid.org/0000-0003-0368-4455>



## EDUCATION PROFILE:

Institutions	Qualification	Passed Years
1. Chinese University of Hong Kong	<b>Post Doc</b> , Field: Molecular Biology	Completed, 23-Feb, 2024
2. Huazhong Agricultural University, Wuhan, <b>China</b>	<b>PhD</b> (Veterinary Clinical Medicine) Field: Surgery & Small Animal Diseases	Conferred <b>2015</b>
3. Sindh Agriculture University Tandojam- <b>Pakistan</b>	<b>MS</b> (Veterinary Surgery & Obstetrics)	Conferred <b>2008</b>
4. Sindh Agriculture University Tandojam- <b>Pakistan</b>	<b>DVM</b> (Doctor of Veterinary Medicine) (Field: Veterinary Sciences & Animal Husbandry)	Conferred <b>2005</b> Noted: DVM degree was taught in English

## ACADEMIA EXPERIENCES:

19-May-2023 to present	Associate Professor, College of Veterinary Sciences, Faculty of AHVS, The University of Agriculture, Peshawar-Pakistan
Dec 2016 -to- 19-May-2023	Assistant Professor, (as above)
Aug 2008 -to- 8-Dec, 2016	Lecturer, (as above)

**PROFESSIONAL TRAININGS:**

<b>2022</b>	ITC Training for international Veterinary Practitioner held in Chang Mai Thailand, 24-October-2022 to 04-November-2022.
<b>Sponsored by:</b>	UK Dog trust
<b>2020</b>	<b>Advanced Small Animal Surgery Techniques</b> at the College of Veterinary Sciences, The University of Agriculture Peshawar-Pakistan.
<b>Resource person</b>	<b>Dr Anayat Khan, Canada</b> Sponsored by North America Veterinary Association.
<b>2020</b>	<b>Small Animal Orthopedic Training.</b> One week, Training program, held at Riphah College of Veterinary Science-Lahore-Pakistan.
<b>Resource person</b>	<b>Dr. Mazhar Hussain, UEA</b>
<b>2017</b>	<b>Advanced Veterinary Surgery and Clinical Skills. 40-hours,</b> Training program, held at UVAS-Lahore-Pakistan, December, 11-15, 2017.
<b>Resource person</b>	<b>Dr. Kamran Jahangir,</b> Director of Bank Street Hospital at Ottawa Canada.
<b>2010</b>	Dairy Farming, Diagnostic Endoscopy in dog, Placement of Irrigation System in the Eye of Horse
<b>2010</b>	Soft Tissue Surgery, Orthopedics Surgery & Clinical Semen Collection from Equines
<b>2009</b>	Inter-medullar pinning placement procedure in dog
<b>2010</b>	Castration of Horse in standing position
<b>Resource person:</b>	<b>Dr. IH. Kathio,</b> Surgeon & Physician of Pittston Animal Hospital 40 Connell St. (Off Broad Street) Pittson PA. 18640; USA.

**PROFESSIONAL LICENSE FOR VETERINARY PRACTICES:**

2006-present	<i>Registered as Veterinary Practitioner by Pakistan Veterinary Medical Counsel, Islamabad-Pakistan. (RVMP (#2503).</i>
Working as a Surgeon with Lucky Animal Protection Shelter-Peshawar-Pakistan	<i>Spay Neuter Network is a volunteer non-profit corporation eliminating Stray dogs overpopulation through subsidized spay/neuter plus vaccination services while empowering communities to care responsibly for dogs and cats.</i> <a href="https://web.facebook.com/LAPSkpk">https://web.facebook.com/LAPSkpk</a>

## **BIBLIOGRAPHY: Publications in Refereed Journals:**

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1. Analgesic and Physiological Effects of electroacupuncture and medetomidine in domestic goats. *J. Anim. Plant Sci.* 3(6): 2023, 1439-1445. [doi.org/10.36899/JAPS.2023.6.0683](https://doi.org/10.36899/JAPS.2023.6.0683)
2. "Comparison of Multiple Machine Learning Algorithms with Deep Learning and Evaluation Metric for TLR4 Receptor and Screening of Small Molecules Inhibitors" submitted, *J. Agri. Food Chem.* Manuscript ID: jf-2023-09265z2023, **submitted to journal.**
3. Comparative analysis of the intestinal microbiome in *Rattus norvegicus* from different geographies. 2023. *Front. Microbiol.* 14:1283453. [doi: 10.3389/fmicb.2023.128345](https://doi.org/10.3389/fmicb.2023.128345)
4. Antinociceptive, physiologic and biochemical effects of electroacupuncture combined with xylazine in hybrid goats. *Vet Anes analg.* 48 (5), 2021, 671-678. [doi.org/10.1016/j.vaa.2021.06.014](https://doi.org/10.1016/j.vaa.2021.06.014)
5. Physiological and biochemical effects of electro acupuncture combined with intramuscular administration of dexmedetomidine to provide analgesia in goats. 2016. *Am. J. Vet. Res.* 77(3): 252-9. [doi: 10.2460/ajvr.77.3.252](https://doi.org/10.2460/ajvr.77.3.252).
6. Combined Physico-chemical and Analgesic Effects of Electroacupuncture Plus Clonidine in Goats. *Sarhad Journal of Agriculture*, 2020. 36(4): 1127-1135. [doi.org/10.17582/journal.sja/2020/36.4.1127.1135](https://doi.org/10.17582/journal.sja/2020/36.4.1127.1135)
7. Pharmacological Research - Modern Chinese Medicine. *Pharmacological Research - Modern Chinese Medicine* 2 (2022) 100029. [doi.org/10.1016/j.prmcm.2021.100029](https://doi.org/10.1016/j.prmcm.2021.100029)
8. New HPLC Method for Determination of Cefquinome in Cattle Plasma and its Application for Pharmacokinetic Study. *Pakistan J. Zool.*, pp 1-8, 2022. [doi.org/10.17582/journal.pjz/20200312100316](https://doi.org/10.17582/journal.pjz/20200312100316)
9. Psychological impact of the COVID-19 pandemic on Chinese population: An online survey. *World J Clin Cases* 2021 November 6; 9(31): 0-0. DOI: [10.12998/wjcc.v9.i31.0000](https://doi.org/10.12998/wjcc.v9.i31.0000)
10. The Intestinal Microbiota: Impacts of Antibiotics Therapy, Colonization Resistance, and Diseases. *Int. J. Mol. Sci.* 2021, 22, 6597. [doi.org/10.3390/ijms22126597](https://doi.org/10.3390/ijms22126597)
11. The role of microbiota in respiratory health and diseases, particularly in tuberculosis. *Biomedicine & Pharmacotherapy.* 143 (2021). 112108. DOI: [10.1016/j.biopha.2021.112108](https://doi.org/10.1016/j.biopha.2021.112108)
12. Therapeutic mechanisms and impact of traditional Chinese medicine on COVID-19 and other influenza diseases. *Pharm Res-Modern Chinese Med.* 2(2022). [doi.org/10.1016/j.prmcm.2021.100029](https://doi.org/10.1016/j.prmcm.2021.100029)
13. Electroacupuncture-Induced dynamic processes of gene, expression levels of endogenous opioid peptide precursors and opioid receptors in the CNS of goats. 2013. *Evidence-Based Complementary and Alternative Medicine.* [doi:10.1155/2012/476457](https://doi.org/10.1155/2012/476457)
14. TNF/TNFR1 pathway and endoplasmic reticulum stress are involved in ofloxacin-induced apoptosis of juvenile canine chondrocytes. 2014. *Toxicology and Applied Pharmacology*, [doi:10.1016/J.Taap.2014.02.003](https://doi.org/10.1016/J.Taap.2014.02.003)

15. A Review on the Current Use of Alpha<sub>2</sub>-agonists in Small Ruminants. 2014. Kafkas Univ Vet Fak Derg. 20(4): 633-639, 2014. [Doi: 10.9775/kvfd.2013.10541](https://doi.org/10.9775/kvfd.2013.10541).
16. Analysis of Pilus Biogenesis Genes in Bacteria Expressing Type IV Pili. 2019. Kafkas Univ Vet Fak Derg. 25 (1): 125-128, 2019. [doi:10.9775/kvfd.2018.19910](https://doi.org/10.9775/kvfd.2018.19910).
17. Genotoxic and Toxicopathological Effect of Aflatoxin B1 in Grass Carp (Ctenopharyngodon idella). Kafkas Univ Vet Fak Derg. 2019. [doi:10.9775/kvfd.2019.21988](https://doi.org/10.9775/kvfd.2019.21988)
18. Degradability of different protein sources and its impact on milk composition. Pak. J. Agri., Agril. Engg. Vet. Sci. 2019 (35-1) 57-62.
19. Effects of Local Sodium Bentonite as Aflatoxin Binder and its Effects on Productions Performance of Laying Hens. Kafkas Univ Vet Fak Derg. 2017 (23-1), 31-37. [doi:10.9775/kvfd.2016.15714](https://doi.org/10.9775/kvfd.2016.15714).
20. Comparative studies on sedative and analgesic effects of xylazine and detomidine in goats. J. Anim. Plant. Sci. 2013 (23-1), 39-42.
21. Evaluation of Biochemical effects of Diclofenac sodium in goats. J. Anim. Plant. Sci. 2012 (22): 1-4.
22. Growth Performance and Immune Status of Broilers Fed Graded Levels of Albizialebbeck Seeds. Pak J Zool. 2014. 46(2), 574-577.
23. Study on post thawing quality of kundhi buffalo semen. J. Anim. Plant. Sci. 2012 (22) 59-62.
24. Factors affecting efficacy and immunological response of peste des petits ruminants (PPR) vaccines in small ruminants. J. Anim. Plant. Sci., 2013 (23), 43-46.
25. Clinico-therapeutical trials of lactic acidosis in small ruminants. 2013. J. Anim. Plant. Sci. 23: 80-83.
26. Molecular Detection of Multi Drug Resistant tuberculosis (MDR-TB) in MDR-TB Patients Attendant in North Western Pakistan. Armed. For. Med. J. 2017 (67-6), 982-87.
27. Antibacterial Activity of Pakistani Honey. *Pak. J. Sci. Ind. Res. Ser. B: Biol. Sci.* 2019 (62B-2) 97-100.
28. Surgical Intervention of Umbilical Hernia in Dairy Cross Holstein Friesian Calf. J. Meat Sci Vet. Pub. Health. 2016 (1), 1-3.
29. Surgical Removal of a Muscle Tumor from a Backyard Hen at the University Teaching Hospital Peshawar, Pakistan. 2016. Journal Meat Sciences and Veterinary Public Health, 1(1): 21-24.

30. Cesarean Sections through Flank Incision in exotic cattle breed. 2016. J. Meat Sci. Vet. Pub. Health. 2016. 2(1):1-4. [doi.org/10.17582/journal.msvph/2017.2.1.1.4](https://doi.org/10.17582/journal.msvph/2017.2.1.1.4).
31. Role of Nitrogen Fertilizer in Crop Productivity and Environmental Pollution. 2014. Inte. J.Agr. Forestry. 4 (3): 201-206. [doi: 10.5923/j.ijaf.20140403.09](https://doi.org/10.5923/j.ijaf.20140403.09).
32. Effect of Medicated Urea Molasses Blocks on Sub-Clinical Parasitic Infestations in Goats. 2016. Online J. Anim. Feed Res. 6(2), 1-6. [pii: S222877011600001.21](https://doi.org/10.5923/j.ojaf.20160201.21)
33. Use of probiotics in broiler feed at starter feed. 2009. Sarhad J. Agric, 25(3), 2009.
34. Nutritional importance of exogenous enzymes in broiler ration at finisher phase. 2009. Sarhad J. Agric. 25(3), 2009.

### **CLINICAL INTERESTS:**

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1. Small/Large Animals Surgery, Soft Tissues Surgery, Orthopedic Surgery, Equine Surgery, Pain Signaling Pathway, Acupuncture, Analgesia, Anesthesia, Diagnostic Imaging Techniques, Small Animal Infectious Diseases

### **RESEARCH PROJECTS EARNED:**

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- 2017-2019 **Pakistan Science Foundation** - Reference #PSF/NSLP/KP-UAP (691)  
*"Comparative study on physiological and biochemical effects of electroacupuncture (EA) combined with morphine and clonidine administration to provide analgesia in goats"*.  
**Funded: PKR 1.8 million; Duration: 18 months,**  
**Note: Completed.**
- 2017-2018 **Higher Education Commission (HEC), Sector H9-Islamabad-Pakistan.**  
*"Physico-chemical effects of acupuncture combined with alpha<sub>2</sub>-agonist drugs to provide analgesia in goats"*  
 Reference: Start-Up Research Grant Program (SRGP#1333);  
**Funded: PKR 0.48 million; Duration: 6 months,**  
**Note: Completed.**

### **PROFESSIONAL DEVELOPMENT AND TRAININGS:**

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- 2023 **25<sup>th</sup> Diabetic & Cardiovascular, East meets West Symposium, Science Park, Hong Kong.**
- 2023 **3<sup>rd</sup> National DVM, Quiz Competition As Quizzer, Held UVAS Lahore.**
- 2022 **Molecular Diagnostics and Bioinformatics for the Infectious Diseases.** CVS, FAHVS, UAP. 2022.
- 2022 **Hand On Ultra-Sonography Training in Dairy Cattle.** CVS, FAHVS, UAP. 2022.
- 2020 Training workshop on **Animal Behavior and Compassionate Handling of Equine Species** Nov-2020. Organized by The Brooke Pakistan.
- 2019 Oral presentation in 4<sup>th</sup> International Conference on Agriculture, **Food and Animal Sciences.** Sindh Agriculture University Tandojam Sindh-Pakistan.

- 2019 Participation in the **Biological Waste Management Workshop Faculty Training COMSTECH Secretariat**, Islamabad-Pakistan, 40hours, Faculty Training Program. Sponsored by Pakistan Society of Biosafety. 2019.
- 2019 **Biorisk Management** (Refresher course) by the association for risk management in collaboration with Health security partners and the University of Agriculture Peshawar. 2019.
- 2019 **One-day Workshop on Acupuncture Techniques** at the Department of College of Veterinary Sciences, The University of Agriculture Peshawar. 2019.
- 2019 Training workshop on “Use of ICT in Agriculture & Applied Research” held at The University of Agriculture Peshawar-Pakistan. 2019.
- 2019 Two-day **Workshop on Conventional and Molecular diagnosis of Colostridium perfringens for the control of enterotoxaemia in small ruminant**. College of Veterinary Sciences, The University of Agriculture Peshawar-Pakistan. 2019.
- 2016 As a resource person for **Ultrasound Training**. Veterinary Teaching Hospital, College of Veterinary Sciences, University of Agriculture, Peshawar, sponsored by Global Trade International, Peshawar Zone. 2016.
- 2016 Attended “**2016 Seminar on Agriculture and Agricultural Products for Pakistan**” in Changsha, Hunan, **PR China**. 2016.
- 2016 **Productive Ultrasonography in Small and Large Ruminants**, at UVAS Lahore. 2016.
- 2016 **Seminar on Control of Trans-boundary Animal Diseases in Pakistan**, organized by FAO, United Nation, Pakistan Division Islamabad, held at AUP. 2016.

#### **Academic goals and Responsibilities TEACHING Experiences:**

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1. Small Animal Surgery (2016-present)
2. General Surgery & Anesthesiology (2015-2017)
3. Surgery Clinic-I; Clinic-II; Clinic-III (2015-present)
4. General & Systemic Anatomy (2008-2010)
5. Shoeing & Soundness in Equine (2008-present)
6. Large Animal Surgery (2009-present)
7. Radiology & Diagnostic Imaging (2008-2012)