

CURRICULAM VITA

Prof. Dr. Sarzamin Khan



I am highly committed to explore new horizons in the field of animal and poultry production for contribution in the betterment of public health and environment without compromising the animal welfare. I believe in excellence of research standards.

Date of Birth: 06.05.1970
Current position: Professor in Poultry Science and Ex- Dean Faculty of Animal Husbandry and Veterinary Science, the University of Agriculture Peshawar.
Controller: Avian Disease Diagnostic and Research Lab
Visiting Expert Wildlife Department (Avian Section) Govt of Pakistan
Head Biosecurity Expert Panel of the KPK Province of Pakistan
Academic Qualification: DVM (Distinction), M.Sc (Hons) , PhD, Post Doc (Japan), Post Doc(USA) Fulbright Research Fellow
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Academic and Professional Qualifications

| Degree/ Certificate | Year | Discipline | University/ Board | Division / Grade |
|------------------------|------|-----------------------------------|---|---------------------|
| Post Doctorate | 2019 | NextGene Sequencing | University of Minnesota, USA | - |
| Post Doctorate | 2010 | Dairy Physiology and Lactation | University of Tsukuba, Japan | - |
| PhD | 2007 | Animal Sciences | The University of Agriculture Peshawar | Ist |
| M.Sc (Hons) | 1996 | PoultrySciences | The University of Agriculture Peshawar | Ist |
| DVM | 1994 | VeterinarySciences | University of Agriculture Faisalabad | Ist |
| F.Sc | 1988 | Pre-Medical | FBID Islamabad | Ist |
| S.Sc | 1986 | Science | BISE Peshawar | Ist |

EMPLOYMENT RECORD/ POSITION HELD

| Position | BPS | Status | Period |
|---|-----|-----------|--------------------------|
| Professor in Poultry Science | 21 | Regular | 1.6.2012 to date |
| Associate Professor Livestock management | 20 | Regular | 01.01.2010 to 30.5.2012 |
| Assistant professor Livestock management | 19 | Regular | 31.12.2004 to 31.21.2009 |
| Lecturer | 17 | Regular | 27.09.1998 to 31.12.2004 |
| Veterinary Officer (Avian Health and Biosecurity) | 17 | Regular | 06.03.1995 to 26.09.1998 |
| Technical Officer | 17 | Temporary | 24.04.1994 to 06.03.1995 |

Awards:

1. PCST Productive Scientist Award.(2014)
2. HEC Best University Teacher Award. (2015)
3. Fulbright Post Doctoral Award, USA. (2018)

Skills:

Besides academics also got expertise in: Broiler, layers and breeder production, Dairy production, Sheep and goat production, Lab techniques including PCR, Real time PCR, Histo-pathology and ELISA diagnostic tests.

Languges: Pushto, Urdu, English (Expert) Arabic (intermediate) Japanese (Beginner):

Dynamic Projects:

1. Worked on artificial insemination in broiler breeders and introduced the technology breeder farms of Pakistan.
2. Developed model farm for biogas production and utilized the biogas as energy source in Broiler breeder environmentally controlled sheds
3. Developed poultry manure as bio Fertilizer and was adopted by the layer industry of Pakistan.
<https://www.youtube.com/watch> prof. Dr. Sar Zamin Khan
4. Initiated insect protein production and utilization of insect protein in poultry and animal ration.
<https://www.youtube.com/watch?v=OutycNAGJ88> Prof. Dr. Sar Zamin Khan
5. Developed killed vaccines for mastitis, Infectious bronchitis and Infectious bursal diseases

List of Patents:

The following patents were developed and are under review with IPO Pakistan since last years:

1. Sar Zamin Khan and Bilal Islam (2022). Aqueous blend of Garlic, Onion and Chilli as phytobiotics for poultry.
2. Sar Zamin Khan, Amjed Usman, Zarak Khan and Asad Sultan (2023). Production and assessment of Meal worm based chitosan on gut health and performance.
3. Sar Zamin Khan and Perviz Ali. (2022). Production and assessment of superworm based prebitoccs for poultry production.
4. Sar Zamin Khan and Perviz Ali. (2022). Production and assessment of superworm as probitoccs in poultry.

List of Projects

| S. No | Name Project | Amount (M. Rs) | Funding Agency | Status |
|-------|---|----------------|------------------------------|-----------|
| 1 | Up gradation of Local Rabbits for Meat Production | 3.99 | ALP (PI) | Completed |
| 2 | Utilization of maggot meal as Animal Protein source in meat and egg type birds | 2.7 | PSF (PI) | Completed |
| 3 | Study on the hygienic status of poultry eggs and meat | 0.5 | Relief International (PI) | Completed |
| 4 | Prevalence of <i>Salmonella</i> and differentiation of its serotypes from commercial and rural poultry eggs and meat" Fighting Zoonosis in Pakistan | 0.5 | Relief International (Co-PI) | Completed |
| 5 | Study on digestibility of Sorghum meal in broiler birds | 0.5 | HEC (Co-PI) | Completed |

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|----|--|-------|---------------|-----------|
| 6 | Production of Unicellular protein and its Utilization in Poultry and Animal ration | 15.00 | HEC (Co -PI) | completed |
| 7 | Evaluation of economic welfare and environmental aspects of naturally mated and artificially inseminated broiles breeders under cages versus floor systems | 8.9 | HEC (PI) | Completed |
| 8 | Genetic Improvement Of Selected Indigenous Naked Neck By Crossing With Exotic Poultry Breeds Of Rhode Island Red And Black Australop | 4.32 | ALP (PI) | Completed |
| 9 | Genetic Improvement Of Selected Indigenous Naked Neck By Crossing With Exotic Poultry Breeds Of Rhode Island Red And Black Australop (Phase II) | 14.00 | ALP (PI) | completed |
| 10 | Optimizatation of envionmental and nutritional standards for mass production of mealworm meal under tropical environmental conditions of Pakistan | 6.18 | PSF (PI) | complted |
| 11 | Establishment of Simple, Rapid, and Specific Method for The Identification of Meat of Halal Animal Species and Halal Processed Meat Products | 10.00 | PSF | In hand |
| 12 | Establishment of fresh and cold water aquaculture facility at the University of Agriculture Peshawar | 150 | ADP | completed |
| 13 | Detection and control of newly emerging respiratory viruses of poultry in Pakistan | 8.9 | PSF (PI) | In hand |

LEADERSHIP AND ACHIEVEMENTS

- Working Experience:** Total, **28** with **12** years Administrative experience
- Brioler breeder consultant:** 21 years with paradise chicks Pakistan (1998-2019)
- Dairy Farm consultant:** 13 years Durani Dairy Farm Nowshera (2005 to 2017)
- International Research Linkages:** Developed with China, USA, Turkey, Netherlands, Malaysia and Japan.
- National Research Linkages:** Poultry Research Institute (Jabba), VRI (Peshawar), Wildlife Department (KPK), BSP (Business for Social Welfare, Lahore), SRSP (Sarhad Rural Support Programm, KPK).
- The Higher Education Commission (HEC) Fellowship award for PhD and Postdoctoral studies.
- Member Association of American Avian Pathologists.
- Nomination as Approved/accredited Supervisor at national level by HEC, Pakistan.
- Successful completion of research projects and submission of developmental projects .
- Served Provincial Public Service Commission (**PSC**) as Advisor Animal Sciences

11. **Member Selection Board** Islamia University Bahawalpur, Rawalakoat University, SBBU (Dir), AWKU (Mardan).
12. **Member, Board of Studies** AWKU (Mardan), SBBU (Upper Dir).
13. **Expert nomination** in the Poverty Alleviation Program by the Government of Pakistan
14. Attended two academic council meetings and a number other routine meetings.
15. Member Editorial Board Sarhad Journal of Agriculture (2013-2018)
16. **Trainings received abroad:** Total Five (5) in China, Netherland, Bangkok, Dubai and Japan.
17. **Farmers trainings:** Arrange a total 14; with five for women and 9 for male farmers
18. Appreciation certificates by Civil societies for contributions in the uplift of rural community.
19. Federal Government nominee for Pakistan Veterinary Medical Council (2019-2023)
20. Member Prime minister committee for Livestock improvement from KP province

RECENT DEVELOPMENTS IN AVIAN SCIENCES

- **Courses developed:** Five (5) New courses were developed for Postgraduate students
- Establishment of Modern Avian Disease Diagnostic Research lab
- Developed new cage system for rearing of wild birds for nutrition and breeding studies
- Collection of rear avian species for understanding of their breeding potentials and propagating their population
- Assessment of behavioral studies to improve the welfare standards of birds
- Establishment of Falcon Unit to propagate its progeny using artificial insemination
- Reproduction unit for avian semen evaluation and hatchability potentials.

LIST OF PUBLICATIONS

Published Books

1. **Title: Lactation-Reproduction Interaction in Dairy Buffaloes**
Publisher: VDM Verlag Dr. Muller Aktiengesellschaft & Co. KG (2009).
ISBN-10: 3639144449
ISBN-13: 978-3639144444
2. **Title: Practical Manual of Veterinary Anatomy**
Publisher: Department of Animal Health, Faculty of Animal Husbandry and Veterinary Science(2009)
3. **Title: Quails production manual for farmers**
Publisher: Department of Poultry Science , Faculty of Animal Husbandry and Veterinary Science(2012)
4. **Broiler production Manual: Publisher:** Department of Poultry Science, Faculty of Animal Husbandry and Veterinary Science(2013) .
5. **Rabbit production Manual: Publisher:** Department of Poultry Science, Faculty of Animal Husbandry and Veterinary Science(2013).
6. **Layers production Manual: Publisher:** Department of Poultry Science, Faculty of Animal Husbandry and Veterinary Science(2014)

7. **Vets Career Manual** published by Faculty of Animal Husbandry and Veterinary Science, the University of Agriculture Peshawar
8. **Biosecurity and its importance in Public health** (under publication)

I. List of Publications in Peer Reviewed International Impact Factors Journals (72)

1. **Sar Zamin Khan**, Amjad Usman · Kamran Khan · Jabbar Tanveer · Mohammad Israr. (2024). Effect of stocking density on performance, survival and nutrient composition of super worm *Zophobas Morio* (Coleoptera:Tenebrionidae). *Tropical Animal Health and Production* (2024) 56:95.
2. Zia Ul Isam, Sultan A., **Khan S.**, and Abdullah Alasmari. (2024). Effects of an organic acids blend and coated essential oils on broiler growth performance, blood biochemical profile, gut health, and nutrient digestibility. *Italian Journal of Animal Science* 23(1):152-163.
3. Rafiullah, Athar Mahmud, **Sar Zamin Khan**, Asad Sultan, Naseer Ahmad, Majid Ali and Baitullah Khan. (2024). Feeding Value of Extruded Hatchery Waste Meal and its Impact on Egg production and Quality in Laying Hens. *PVJ*. Pp.1-4, 2024.
4. Momin Khan, Naila Chand, **Sar Zamin Khan** , Shabana Naz, Abdulwahed Fahad Alrefaei , Mikhliid H. Almutairi , Dai Sifa d, Rifat Ullah Khan (2023). Partial and total replacement of soybean meal with maggot larvae meal in broiler chicken diets: Impact on growth performance, nutrients digestibility, hematological parameters and intestinal histomorphology. *Livestock Science* .277. 10:53-55.
5. Muhammad Ayaz, Rajwali Khan, **Sar Zamin Khan**, Syed Muhammad Suhail, Khalid Khan, Ijaz Ahmad, Abdul Wahab, Amel Ayari-Akkari. (2023). Effect of dietary inclusion of Frass on growth performance and hematology and serum biochemistry of sheep. *Tropical J.of Anim.Health*.55:106.
6. Muhammad Bilal Isla and **Sar Zamin Khan**. (2023). Growth promoting and immune response of aqueous extract blends using different concentrations of onion, garlic and chilli on broilers. *Journal of Xi'an Shiyu University, Natural Science Edition* ISSN: 1673-064X.
7. Zakir Hussain, ·Zahid Iqbal · Nabila Roohi1 · **Sar Zamin Khan** (2023). Effect of betaine supplementation on production performance and serum antioxidant indices of Nili- Ravi buffaloes during summer. *Tropical Animal Health and Production* . 55:176
1. Rahman SU, Iftikhar F, Sajid Z,**Khan S**, Khan R, Rahman FU. (2022)Influence of onion (*Allium cepa* L.) supplementation on physiochemical composition and lipid profile of broiler meat. *Biomedical Letters* 8(2):126-135.
2. Alam,W., **Khan, S.**, Khan, R.U. (2022). Immunocytochemistry of Pituitary Cells in Pituitary of broiler breeders. *Pakistan Journal of Zool.* August, 2022. DoI 10.17582.
3. **Khan S**, Tanveer A.J., Rafiullah, Ibrahimullah, Abbas G, Khan J, Imran MS, Kamboh AA (2022). Effect of supplementation of mealworm scales (*tenebrio molitor*) on growth performance, carcass traits and histomorphology of japanese quails. *J. Anim. Health Prod.* 10(3): 381-389.

4. **Khan S.**, A. Usman, I Shah and P Ali. (2021). State of the Art on Production, Processing and Uses of Meal Worm *Tenebrio Molitor*. IJAB. May and June 184-210.
5. Rahman SU, Iftikhar F, Sajid Z, **Khan S**, Khan R, Rahman FU.(2022) Influence of onion (*Allium cepa* L.) supplementation on physio chemical composition and lipid profile of broiler meat. profile of broiler meat. 8(2):126-135.
6. Khan, K., Aziz, K., Khan, N., **Khan, S.**, & Ayasan, T. (2022). Effect of enzyme and yeast-based feed additives on growth, nutrient digestibility, meat quality and intestinal morphology of fattening rabbits. Journal of the Hellenic Veterinary Medical Society, 72(4), 3511-3518.
7. Mushtaq, Muhammad, Chand Naila, **Khan Sarzamin**, Saddique Umer. (2021)"In Vivo Effect of Medicinal Plants on Some Serum Biochemical Parameters in Laying Hens." J Pharmacogn Nat Prod, Volume 7:5,
8. Ziaul Islam, Asad Sultan, **Sar Zamin Khan** Sher bahader (2021). Effect of Organic Acids Blend, MicroEncapsulated Phyto-Essential Oils Individually or in Combination on Growth Performance, Gut Health and Nutrients Utilization of Broilers Pakistan J. Zool., pp 1-9, 2021. DOI:
9. Hussain Z, Z Iqbal, N Roohi, **S. Khan**, (2021). Effect of dietary supplementation with betaine on growth performance and blood biochemical profile of Nili-Ravi buffalo calves. Intl J Agric Biol 26:702-706.
10. Islam, Z., A. Sultan **S. Khan**, and S. Bahader (2021). Effect of Organic Acids Blend, Micro Encapsulated Phyto-Essential Oils Individually or in Combination on Growth Performance, Gut Health and Nutrients Utilization of Broilers. P.J.Zool. PP 1-9.
11. Alam M, Chand N, **Khan S**, Suhail SM (2021). Growth performance, proximate composition and immune competence of naked neck, Rhode Island Red and their F1 crossbred chickens in a tropical climate. J. Anim. Health Prod. 9(3): 303-311.
12. Nasir, J., N. Chand, **S. Khan**, A. Abudabos and R.U. Khan. (2020). Consumption of flaxseed enhances poly unsaturated fatty acids in broiler meat. J. Anim. Physiol and Nutrition. Sci. Vol (1):1-6.
13. Kamran Khan, Inam Ullah, Nazir Ahmad Khan, **Sarzamin Khan**.2020. Evaluation of mulberry (*Morus alba*) leaves as a concentrate substitute in rabbit diet: effect on growth performance and meat quality. Turk J Vet Anim Sci. Vol 44: 1136-1141 © TÜBİTAK.doi:10.3906/vet-2004-71.
14. Fatima Gul, Bashir Ahmad, **Sarzamin Khan**.2020. Optimization of various parameters for selenium enriched yeast production. International Journal of Biosciences. Vol. 17, No. 2, p. 218-224. <http://dx.doi.org/10.12692/ijb/17.2.218-224>.
15. Rafiulla h, **Khan S.**, Khan R., Qudratullah. 2020. Does the gradual replacement of spent silkworm (*Bombyx mori*) pupae affect the performance, blood metabolites and gut functions in White Leghorn laying hens? Res. in Vet. Sci. 0034-5288 (19) 31285-8
16. Khan, R.; Raza, S.H.A.; Schreurs, N.; Xiaoyu, W.; Hongbao, W.; Ullah, I.; Rahman, A.; Suhail, S.M.; **Khan,S.**; Linsen, Z. (2019). Bioinformatics analysis and transcriptional regulation of TORC1 gene through transcription factors NRF1 and Smad3 in bovine preadipocytes.Genomics. Please cite this article as: Rajwali Khan, et al., Genomics, <https://doi.org/10.1016/j.ygeno.2019.09.007>
17. Naseer A., **Khan S.**, Chand N., Ahmad, N.(2019). Hemato-biochemical profile carcass and meat quality traits of Naked Neck Rhode Island Red (RIR) and Black Astralorpe (BAL) chicken. I.J. Biol. Vol. 14, No. 5, p. 225-234.
18. Mushtaq, M., Chand, N., Saddique.U.,**Khan S**. (2019). Protective role of methanolic extract of medicinal plants in paracetamol induced toxicity in laying hens. I.J. Biol. Vol. 15, No. 5, p. 527-539.

19. Khan, R., S. H. A. Raza, , N. Schreursb, W. Xiaoyua, **Khan S.** and Z. Linsen. (2019). Bioinformatics analysis and transcriptional regulation of TORC1 gene through transcription factors NRF1 and Smad3 in bovine preadipocytes. *Genomics*, <https://doi.org/10.1016/j.ygeno.2019.09.007>
20. Ullah, N. **Khan, S.**, Mobashar³M., Javaid, S. Tonio, T and A. Mahmood. (2019). Fat Supplementation in Diet of Friesian Sahiwal Crossbred Bulls: A Novel Study on Productive and Reproductive Performance and Bio-chemicals Evaluation of Semen Quality Under Hot Summer Sub-tropical Conditions. *J. Zool.*Vol. 51 (6): 2133-2140.
21. Khan M, Chand N, **Khan S**, Khan RU and Sultan A. 2018. Utilizing the House Fly (*Musca Domestica*) Larva as an Alternative to Soybean Meal in Broiler Ration during the Starter Phase. *Brazilian Journal of Poultry Science Revista Brasileira de Ciência Avícola.*V.20 / n.1 / 009-014.
22. Asad Sultan, Sahal Ahmad, **Sarzamin Khan**, Rifat Ullah Khan*, Naila Chand, Muhammad Tahir and Shakoor Ahmad.2018.Comparative Effect of Zinc Oxide and Silymarin on Growth, Nutrient Utilization and Hematological Parameters of Heat Distressed Broiler. *Pakistan journal of Zoology* 50(2) 751-756.
23. Asad Sultan*, Shahroom Khan, **Sarzamin Khan**, Naila Chand, Muhammad Shuaib Khan and Hamza Maris.2018. Effect of Organic Acid Blend on Carcass Yield, Nutrient Digestibility and Tibia Ash during Starter Phase of Broiler Chicks. Vol. 50, Iss. 4, Pp 1199-1600.DOI: <http://dx.doi.org/10.17582/journal.pjz/2018.50.4.1483.1488>.
24. Ishtiaq Ahmad Khan, **Sarzamin Khan**, Asad Sultan, Ashraf Ali Qureshi, Hamza Maris.2018. Reproductive performance of floored and cage housed broiler breeder roosters. *Int. J. Biosci.* 12(2), 26-34. DOI: <http://dx.doi.org/10.12692/ijb/12.2.26-34>.
25. Zia ur Rehman, Naila Chand, Rifat Ullah Khan^{2*}, **Sarzamin Khan** and Muhammad Subhan Qureshi.2018. An Assessment of the Growth and Profitability Potential of Meat-Type Broiler Strains under High Ambient Temperature.2018. *Pakistan J. Zool.*, Vol. 50, Iss. 2, pp 429-435.[doi.org/10.17582/journal.pjz/2018.50.2.429.435](http://dx.doi.org/10.17582/journal.pjz/2018.50.2.429.435).
26. Zia-ur-Rehaman, Naila Chand, **Sarzamin Khan** and Rifat Ullah Khan*. 2017. Evaluating the Immune Response and Antioxidant Potential in Four Broiler Strains under Chronic High Ambient Temperature.*Pakistan J. Zool.*, Vol. 49, Iss. 6, pp 2087-2091. DOI: 10.17582/journal.pjz/2017.49.6.2087.2091.
27. Ur Rahman S, **Khan S**, Chand N, Sadique U, Khan RU.2017.In vivo effects of *Allium cepa* L. on the selected gut microflora and intestinal histomorphology in broiler. In vivo effects of *Allium cepa* L. on the selected gut microflora and intestinal histomorphology in broiler.*Actahistochem.* ;119(5):446-450. <https://doi.org/10.1016/j.acthis.2017.04.004>.
28. R.Ullah, **S.Khan**, N.A.Khan, M.Tahir and **N.Ahmad**. 2018. Effect of replacement of soybean meal by Silkworm meal on growth performance, apparent metabolizable energy and nutrient digestibility in broilers at day 28 post hatch. *The J. Anim. Plant Sci.*28 (5):201 pp 1239-1246.
29. Kamran Khan, **Sarzamin Khan**, Nazir Ahmad Khan and Naseer Ahmad.2018. Effect of Flaxseed Supplementation of Feed on Growth, Carcass Yield, Meat and Fatty Acids Profile of Rabbit Carcass.*PakistanJ.Zool.*,50(6),pp:2037-2043.
30. R Ullah, **S Khan**, NA Khan, M Mobashar, A Sultan, N Ahmad, J. Lohakare. 2017. Replacement of Soybean Meal with Silkworm Meal in the Diets of White Leghorn Layers and Effects on Performance, Apparent Total Tract Digestibility, Blood Profile and Egg Quality. *Int J Vet Health Sci Res.* 5(7), 200-207.
31. Muhammad Inam, **Sarzamin Khan**, Asad Sultan, Nazir Ahmad Khan. 2017. Effect of *Saccharomyces cerevisiae* on overall performance of broilers at starter phase. *Int. J. Bio sci.* 11(1), 42-53. DOI: <http://dx.doi.org/10.12692/ijb/11.1.42-53>.

32. Rafiullah, **S. Khan**, A. Hafeez, N. Khan, N. Chand, A. Sultan, and N. Ahmad. 2017. Silkworm meal as alternate protein ingredient in broiler finisher ration. *Pakistan J. Zool.*, vol. 49(4), pp 1463-1470, 2017.
33. K. Khan, **S. Khan**, S. Ullah , N. A. Khan , I. Khan and N. Ahmad. 2017. Nutritive value, fiber digestibility and methane production Potential of tropical forages in rabbits: effect of species and Harvest maturity. *The Journal of Animal & Plant Sciences*, 27(4): 2017, Page: 1094-1100.
34. Ibrar Hussain, **Sarzamin Khan**, Asad Sultan, Naila Chand, Rafiullah , Waqas Alam, Naseer Ahmad. 2017. Meal worm (*Tenebrio molitor*) as potential alternative source of protein supplementation in broilers. *Int. J. Biosci* Vol. 10, No. 4, p. 255-262.
35. K. Khan, **S. Khan**, N. A. Khan and N. Ahmad. 2017. Production Performance of Indigenous Rabbits under Traditional and Intensive Production Systems in Northern Pakistan. *The Journal of Animal & Plant Sciences*, 27(1): Page: 75-81.
36. Jan, R., U.Saddique, Z.Hussain, K. Farid, A. Shakoor, **S. Khan** and H. Khan. 2017. Toxicopathological and Reproductive Effects of Concurrent Oral Administration of Ochratoxin A and Endosulfan in Pregnant Rabbits (*Oryctolagus cuniculus*). *Pak. vet J.*, 37(1): 19-24.
37. **Khan, Sarzamin**. Asad Sultan, Mohammad Subhan Qureshi, Haji Gul and Naseer Ahmad. 2016. Efficacy of a Local Sodium Bentonite Enriched Clay as Mycotoxin Binder in Laying Birds. *World's Poultry Science Journal*, Volume 72, Supplement 1.
38. Kamran Khan, **Sarzamin Khan**, Rajwali Khan, Asad Sultan, Nazir Ahmad Khan and Naseer Ahmad. 2016. Growth performance and meat quality of rabbits under different feeding regimes. *Trop Anim Health Prod*, 48 (6) Page: 1-6. DOI 10.1007/s11250-016-1140-4.
39. Wahab, A., H. Khan, S. Ahmed, M. Subhan, Y. Mohammad, **S. Khan**, U.Saddiq and S. K. Shah (2016). Biochemical Profile of Local Rabbits (*Oryctolagus cuniculus*) During Successful Pregnancy Under Backyard Production System. *Pakistan J. Zool.*, vol. 48 (3), pp. 625-630.
40. Shah, A.A. M.S.Khan **S.Khan**, N.Ahmad, I.A. Alhidary, R. U. Khan and T. Shao. (2016). Effect of different levels of alpha tocopherol on performance traits, serum antioxidant enzymes, and trace elements in Japanese quail (*Coturnix coturnix japonica*) under low ambient temperature. *R. Bras. Zootec.* 45(10):622-626.
41. Din, R. **S.Khan**, N. Imtiaz, S. Aslam, S. Ahmad, H. Khan, M. Rabbani, J. Muhammad, Z. Iqbal and S. Ali (2016). Study on the quality and efficacy of commercial tylosin and doxycycline products against local isolates of *Mycoplasma* in broilers" *Pak. J. Pharm. Sci.*, Vol.30, No.2, March 2017, pp.541-549 541.
42. Khan Sarzamin, Rifat Ullah Khan, Asad Sultan, Momin Khan, Shams ul Hayat and Suhaib Shahid 2016. Evaluating the suitability of maggot meal as a partial substitute of soybean on the Productive traits of broilers. *Journal of Animal Physiology and Animal Nutrition*. 100 (4) 649-656.
43. Khan Sarzamin, Asad Sultan, Rifat Ullah and Nazir Ahmed. 2016. Worm meal: A potential source of alternative protein in poultry feed. *World Poultry Science Journal* 1(1):1-10.
44. Sultan A, M Bilal, S Khan and ZU Hassan, 2015. Effect of chlorine dioxide (Dutrin) on growth performance, gut histomorphology and pathogenic microbial count of meat type birds. *Pak Vet J*, 35(2): 183-188.
45. Asad Sultan, Humera Obaid, **Sarzamin Khan**, Inayat Rahman and Rifat Ullah Khan. 2015. Nutritional effect of flax-seed on cholesterol profile and fatty acid composition of egg yolk. *Cereal Chemistry*. 92 (1) 50-53.
46. Chand, N., S. Naz, A. Khan, **S. Khan**, R.U. Khan (2014). Performance traits and immune response of broiler chicks treated with zinc and ascorbic acid supplementation during cyclic heat stress. *International Journal of Biometeorology*. 58 (10) 2153-2157.

47. Sultan, A. R Ullah, **S Khan**, M Tahir, H Khan and IU Zaman, 2014. Nutrient Digestibility Values and Apparent Metabolizable Energy of Corn, Wheat and Sorghum by Pheasants (*Phasianus colchicus*). Pak. Vet. J. 34 (4): 479-483.
48. Tariq Hayat, Asad Sultan, Rifat Ullah Khan, **Sarzamin Khan**, Zahoor ul Hassan 2014. Impact of Organic Acid on Some Liver and Kidney Function Tests in Japanese Quails, *Coturnix coturnix japonica*. Pakistan J. Zool. 47 (3) 635-639.
49. Naila Chand, N., Naz, **S. Khan**, A., Khan, S. and R. Khan. 2014. Performance traits and immuneresponse of broiler chicks treated with zinc and ascorbic acid supplementation during cyclic heat stress. International Journal of Biometeorology. 58(10):2153-7.
50. Asad Sultan, Irshad Ullah, **Sarzamin Khan**, Zahoor ul Hassan and Rifat Ullah Khan. 2014. Impact of chlorine dioxide treatment as an acidifying agent on the performance, ileal microflora and intestinal histology in quails. Archiv Tierzucht / Archives Animal Breeding. 57 (31) 1-9.
51. Jabar, A. T., N. Chand., S. Khan, A. Sultan, M. S. Qureshi, A. Akhtar, M. Inam and Rafiullah. (2013). Association of *Peganum harmala* L. Supplementation with lipid profile and its economic benefit in broiler production. Pak. Vet. J. 33(3): 313-316.
52. Mushtaq, M., Shabana Naz, Sarzamin Khan, Sajid-ur-Rehman and Rifat Ullah Khan. 2013. In vivo effect of *Berberis lyceum* and *Silybum marianum* on production performance and immune status in broiler chicks. Archiv Tierzucht 56:(91): 1-12.
53. Kakar, Z., I. Ali, Kausarzeb, Z. A. Shah, I.U. Haq, Rafiullah, T. Hussain and **S.Khan** (2013). Production patterns of sheep and goats in district Qila Abdullah (Balochistan). J. Anim. and Plant Sci., 23(1 Suppl.): 35-38.
54. Ali, Amjed Sarzamin Khan, Muhammad Mobashar, Muhammad Inam, Iftikhar Ahmed, Nazir Ahmed Khan and Mubarak Ali, Hamayun Khan. (2013). Effect of Different Levels of Organic Acids Supplementation on Feed Intake, Milk Yield and Milk Composition of Dairy Cows during Thermal Stress. Greener Journal of Agricultural Sciences. Vol. 3 (11): 762-768.
55. Khan, Sarzamin. Asad Sultan, Aaqil Muhammad, Naila Imtiaz, Muhammad Mobashar, Hamayun Khan, Mohammad Saleem, Mohammad Inam and Rafiullah (2013). Lower Ileal Microflora and Growth Performance of Broilers Supplemented with Organic Acid Blend (Aciflex®) During starter Phase. Greener Journal of Agricultural Sciences. Vol. 3 (12): 794-800.
56. Mushtaq, A., M. S. Qureshi, **S. Khan**, G. Habib, *Z. A. Swati and S. U. Rahman (2012) Body Condition Score as a Marker of Milk Yield and Composition in Dairy Animals. J. Anim Plant Sci, 22. (Sup3): 169-173.
57. Muhammad, D. N. Chand, **S. Khan**, A. Sultan, M. Mushtaq And Rafiullah. (2012). Hepatoprotective role of milk thistle (*Silybum marianum*) in meat type chicken fed aflatoxin B₁ contaminated feed. Pak. J. Vet. Sci. 32(3) 443-446.
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64. Hussain, T. M. Arshad, I. Jan **S. Khan** H. Sattar and M.S. Qureshi 2011. In vitro screening of ten Plants for Antibacterial Activity. Pak. J. Bot., 43(1): 531-538.
65. **Khan, S.**, M.S. Qureshi, I. Ahmad, S.M. Shah. 2011. Milk Composition and yield changes with advancing pregnancy in dairy buffaloes (*Bubalus bubalis*). Turkish J. Anim. Sci. 35(6):375-380.
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2. Sher Alam, **Sarzamin Khan**, Naseer Ahmad, Rafiullah, Farida Tahir, Halima Sadia and Munibullah .2016. Comparative Efficacy of three Newcastle Disease Vaccine Strain in Layers. Journal Veterinaria. Volume 4, Issue 2; 6-12.
3. Khan Zafar , Asad Sultan, Rajwali Khan, **Sarzamin Khan**, Imranullah and Kamran Farid. 2016. Concentrations of Heavy Metals and Minerals in Poultry, Eggs and Meat Produced in Khyber Pakhtunkhwa, Pakistan. Meat Sciences and Veterinary Public Health. 1: 4-10.
4. Zakir Hussain, **Sarzamin Khan**, Arfan Yousaf, Naseer Ahmad, Rafiullah, Halima Sadia, Munibullah. 2016. Pregnancy diagnosis in dairy animals through inhibition of seed germination J. Appl. Agric. Biotechnol. 2016 1(2): 78-83.
5. **Khan, S.**, Kamran, Naseer M., Preliminary assessment of Rabbit farming in Khyber Pukhtunkhwa province of Pakistan. Sarhad j. Agric. 30 (3) 369-374.
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7. Tanweer, A.J. N. Chand, **S. Khan**, M. S. Qureshi, U. Sadique, A. Akhtar, M. Shakir, A. Sultan, M. Arshad and Alamzeb (2012). Association of *peganum harmala* l. Supplementation with liver Function test of broiler chicks. Pak. J. Sci. 64(1) 75-79.
8. Yasir J. **S. Khan**, N. Chand, M. Mushtaq, A. Sultan and Rafiullah. (2012). Comparative Efficacy of Different Schedules of Administration of Medicinal Plants mixed Infusion on Hematology of broiler Chicks. Sarhad J. Agric. Vol. 28(2) 327-331.
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lyceum, Eclipta Alaba Andangifera indica) on the immunity and overall performance of broiler chicks Sarhad J. Agric. Vol. 28(2) 319-325.

10. Ali, U., **S. Khan**, Rafiullah, Z. A. Shah, A. Akhtar* and A. J. Tanweer.(2012) Effect of Male to Female Ratio and Vitamin-E Selenium Supplementation on Egg Production and Egg Weight of Japanese Quail. Pakistan J. of Sci.64(3) 242-246.
11. **Khan, S.**, M.S. Qureshi, N. Chand, A. Sultan, Rafiullah, I. Khan and Ihsanullah (2012). Effect of Breeding Method on Calf Sex and Postpartum Reproductive Performance of Cattle and Buffaloes. Sarhad J. Agric. 28 (3) 469-476.
12. M. Ayaz, **S. Khan**, M.S. Qureshi, K. Naeem, M. Sajid, M. Rafiq and A. Maqbool (2010) prevalence of avian influenza and its economic impact on poultry population of hazara region Pakistan Sarhad J. Agric. Vol. 36(4) 629-633.
13. Suhail, S.M., M. S. Qureshi, **S. Khan**, I. Khan and F.R. Durrani 2009. Inheritance of economic traits of Dairy buffaloes in Pakistan Sarhad J. Agric. Vol.25 (1), 88-93.
14. Rahman, A. **S. Khan**, D. Khan, M. Hussain, S. Ahmad, S. M. Sohail, I. Ahmad, I. Haq, and Z. Shah.(2009). Use of Probiotics in Broiler Feed at Starter Phase. Sarhad J. Agric. Vol. 25(3) 469-472.
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17. Yousaf M., N. Ahmad and **S. Khan** 2008. Effect of Non Feed withdrawal induced Molting techniques on feather Moulting Scouring and Egg Production of Caged Hens. Sarhad J. Agric. 24 (2) 323-330.
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19. Khisrao, K., M.A. Mian, **S. Khan** and Pervez. 2002. Control of Infectious Bursal Disease with reference to vitamin E Supplementation Sarhad J. Agric. 18 (1) 7-10.
20. Khisrao, K., Mushtaq M.A. Mian, **S. Khan** and Pervez. 2001. Epizootiology of infectious bursal disease in broilers in and around Peshawar. Sarhad J. of Agric. 17 (4) 497-502.
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II. Papers published in other Local Journals (8)

1. Zaib Ullah K., **Khan, S.**, N. Ahmad and A. Raziq. 2007. Investigation of mortality incidence and managemental practices in buffalo calves at commercial dairy farms in Peshawar city. J. Anim. Bio. Sci. 2(3).
2. Bashir A., **S. Khan**, A. Manan and Abdullah. 2007. Production and reproduction performance of jersey cattle at Cattle Breeding and Dairy Farm Harichand Charsadda NWFP. J. Anim. Bio. Sci. Vol 2(jan) 2007.
3. Ahmad, N. A., K. Hamayun, Salem M, **Khan, S.** and A.M. Bahrami. 2004. Effect of Urea Treated sorghum Stover with and without cattle manure on its intake and digestibility by the growing ruminants. J. Anim. and Vet. Advances Vol. 3 (4): 198-201, 2004.
4. Hamayun, K. A. Nazir, **Khan, S.**, A. Riaz and M. M. Rind. 2003. Study on Testicular Dimensions and size in male Buffalo. Journal of animal and veterinary advances Vol. 2 (11): 639-643, 2003.

5. Tahir B., F.R. Durrani M. Farooq, Z. Durrani, **Khan,S.**, M.A. Khan and A. Riaz. 2003. Prevalence of Fowl Cholera (*Pasturella multocida*) in Commercial Broiler Breeder Flocks Maintained in Abbott bad and Mansehra. Journal of animal and veterinary advances Vol. 2 (8): 444-447.
6. Habib-ur-Rahman, S., **S., Khan**, K. Hamayun, K. Salaam, N.Ahmad and W. M. Bhatti. 2003 Incidence and Gross Pathology of Salmonellas in chicken in Hyderabad. Journal of animal and veterinary advances Vol. 2 (10): 581-584, 2003.
7. Maqbool, A., **S.Khan**, C.S. Hayat.1998. End parasitism in poultry and its treatment with tetramisole. J. Amin. Health Produ. Vo: 18, No. (2): June. 1998.
8. **Khan, S.**, M. A. Main, M. Ayaz, Durani,F.R. and M.I. Ali 1997. Evaluation of four Gumboro vaccine strains in broilers. J. Anim. Health Prod. Vol. 18, No. (1) Jun. 1998.

III. NATIONAL CONFERENCE PROCEEDINGS

1. Asad Sultan, **Sarzamin Khan** 2014. Assessment of maggots as a sustainable poultry feed ingredient for meeting future needs of the feed milling industry of Pakistan. National conference on innovative technologies and sustainable development in agriculture. PP 90-91.
2. **Sarzamin, Khan** and Asad Sultan. 2014. Toxin binding efficacy of clay found in the southern districts of Khyber Pakhtunkhwa. National conference on innovative technologies and sustainable development in agriculture PP 92-93.
3. **Sarzamin Khan**, Asad Sultan and Muhammad Subhan Quraishi. 2012. Phytase can save environment by improving nutrient digestibility and minimizing nutrient losses in broiler production. In proceedings of National Science Conference on Agriculture and Food Security Issues in Global Environmental Perspectives. The University of Poonch, Rawalakot, Azad and Jammu Kashmir. p 301.
4. **Sarzamin Khan** and Asad Sultan. 2012. Phytase can save environment by improving nutrient digestibility and minimizing nutrient losses in broiler production. Climate Change: A Challenge for Agriculturists. KPK Agricultural University, Peshawar. PP 42.

IV. International CONFERENCE AND PROCEEDINGS

1. Rafi ullah, Sarzamin Khan, **Asad sultan**, Nazir Ahmad 2016. Silkworm meal (*bombyx mori*) as protein source in the diet of meat type chicken. The Zoological Society of Pakistan. P. 76.
2. Sarzamin Khan, Asad Sultan, Mohammad Subhan Qureshi, Haji Gul and Naseer Ahmad. 2016. Efficacy of a Local Sodium Bentonite Enriched Clay as Mycotoxin Binder in Laying Birds. World's Poultry Science Journal, Volume 72, Supplement1,page. 31.
3. Muhammad Inam, Sarzamin Khan, Naila Imtiaz, Muhammad subhan Qureshi, Asad Sultan, Rafiullah, Naseer Ahmad. 2015. Semen quality of local and exotic roosters (*gallus gallus domesticus*) during extremes of summers supplemented with ascorbic acid and electrolytes (CE-Col®). 7th International Symposium of Integrative Zoology – Wildlife, 25–28 Aug 2015, Xi'an, Shaanxi Province, China.

4. M Subhan Qureshi, Sarzamin Khan, Irfan Ul Haq Qureshi, Asim Ijaz and Asad Sultan. 2015. Reviving the economy of KP province of Pakistan under the dairy science park. International Conference on Sustainable Agriculture and Environment. University of Konya, Turkey. P-55.
5. Sarzamin Khan, M Subhan Qureshi and Asad Sultan. 2015. Improving phytate bound phosphorus bioavailability of sorghum by broilers using phytase enzyme. International Conference on Sustainable Agriculture and Environment. University of Konya, Turkey. p-161.
6. A.Sultan, **S. Khan**, R.U. Khan and M. Ilyas. 2015. A yeast carbohydrate fraction improved growth performance, apparent metabolisable energy and mineral retention by broilers at 21 days post-hatch. (Accepted) Australian Poultry Science Symposium, Sydney, Australia.
7. **Sarzamin Khan**, Asad Sultan, Tehseen Ullah, Rafi Ullah. 2014. Influence of an organic acid blend on lower ileal microflora and production performance of broilers at day-42. (Accepted) Australian Poultry Science Symposium, Sydney, Australia.
8. A. Mahmud, Rafiullah, S. Khan, M. Akram, Saima and **Asad Sultan**, 2012. Evaluation of post peak production of commercial layers fed extruded hatchery waste meal. In Proceeding of 3rd Mediterranean Poultry Summit and 6th International Poultry Conference. p 161.
9. **Sarzamin Khan**, Ajab Khan, Naila Imtiaz, Asad Sultan, Rafi Ullah, 2012. Supplementation of zinc and vitamin C in heat stressed broilers, In Proceeding of 3rd Mediterranean Poultry Summit and 6th International Poultry Conference. p 130.
10. Abdul Jabbar Tanweer., Naila Chand, **Sarzamin Khan**, Asad Sultan, Muhammad Subhan Qureshi, Amanullah Akhtar, Muhammad Shakir, Muhammad Inam, Zia ur Rahman, 2012. Association of *Peganum harmala* l. supplementation with lipid profile of broiler chicks. *International Mediterranean Poultry Conference* Egypt (WPSA Branch). 26-30 March 2012.
11. **S. Khan**, A. Sultan, N. Chand, M. Mushtaq, Rafiullah and M. S Qureshi. 2012. Garlic (*Allium sativum*) Modulated Serum Cholesterol Level and Improved Immune Status and Carcass Quality of Meat Type Birds. The 15th AAAP Animal Science Congress. The Animal Husbandry Association of Thailand. p 192.
12. **Khan, S.**, N.A. Khan¹, G. Habib, M.S. Qureshi¹ & A. Sultan. 2012 Assessment of *Grewia oppositifolia* Leaves as Crude Protein Supplement to Low Quality Diets of Goats. Proceedings of the 1st Asia Dairy Goat Conference, Kuala Lumpur, Malaysia p 91-92.

MSc (Hons) and M.Phil Students Supervised (120)

| S. No | Name Students | Title | Status |
|-------|--------------------|--|--------|
| 1 | Liaqat Ali | Comparative efficacy of prostaglandin ethinyle estradiol cum antibiotics and antibiotic in the treatment of endometritis in cows | 1999 |
| 2 | Tahir Bashir | Prevalence of fowl cholera (<i>Pasturella Maltocida</i>) in commercial broiler breeder flocks maintained in Abbottabad and Mansehra | 2003 |
| 3 | Bashir Ahmad | Production and Reproduction Performance of Jersey Cattle Maintained at Cattle Breeding and Dairy Farm Harichand | 2005 |
| 4 | Zaibullah Khan | Investigation of Mortality Incidence and Endoparasitic Infestation in Buffalo calves in Commercial Dairy Farms in Peshawar City | 2006 |
| 5 | Abdul Raziq Safi | Investigation of Farm practices, Mortality incidence and ticks infestation in Buffalo Calves at Commercial Dairy Farms in District Charsada | 2007 |
| 6 | Zafer Iqbal | Antiparasitic and Immunomodulatory effect of some common anthelmintics in buffalo Calves | 2007 |
| 7 | Ifthikhar Ahmad | Effect of sub-clinical mastitis on milk yield and composition in dairy cattle and buffaloes | 2007 |
| 8 | S.Meraj Ullah Shah | Effect of pregnancy on milk yield and composition in dairy buffaloes | 2009 |
| 9 | Inamullah Marwat | Effect of Breeding Method on Calf sex and Postpartum Reproductive Performance of Cattle and Buffaloes | 2009 |
| 10 | Yasar Javed | Comparative Effect of Different Schedules of Administration of Medicinal Plants Mixed Infusion on Biochemical Status and Overall Performance in Broiler Chick | 2011 |
| 11 | Fazal Raziq | Effect of Water Based Infusion of <i>Aloe Barbedensis</i> , <i>Pimpinella anisum</i> , <i>Berberis lyceum</i> , <i>Trigonella foenum graecum</i> and <i>Allium sativum</i> on the Performance Of Broiler Chicks | 2011 |
| 12 | Ajab Khan | Immune response of broiler chicks treated with zinc and vitamin c supplementation during heat stress. | 2011 |
| 13 | Khushdil Maroof | Comparative effect of different schedule of administration of medicinal plants (<i>Allium sativum</i> , <i>barberis lyceum</i> , <i>eclipta alba</i> , <i>mangifera indica</i> in infusion on immunity serum biochemistry and overall performance of broiler chicks. | 2011 |
| 14 | Imitiaz Khan | Effect of different schedule of administration of medicinal plants (<i>Allium sativum</i> , <i>barberis lyceum</i> , <i>Azadirachta indica</i> , <i>mintha longifolia</i> –L and <i>Withhania Somnifera</i> on Immunity, Serum Biochemistry, Hematology and overall Performance of Broiler Chicks | 2011 |
| 15 | Abdul Manan | Effect of different schedule of administration of medicinal plants (<i>barberis lyceum</i> , <i>Allium sativum</i> , <i>solanum nigrum</i> and <i>terminalia arjuna</i>) infusion on Immunity, Serum Biochemistry and overall Performance of Broiler Chicks | 2011 |
| 16 | Muhammad Inam | Comparative Evaluation of Semen from Starbro, Cobb-500 Broiler Breeder and Local Cocks (Non-Descriptive) Under Summer Stress of Peshawar | 2012 |

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| 17 | Zia ur Rehman | Effect of Water Based Infusion of <i>Allium Sativum</i> and <i>Withhania Somnifera</i> on Overall Performance, Serum Biochemistry, Hematology and Immunity of Broiler Chicks | 2012 |
| 18 | Shah Hussain | Incidence of antibiotic residues in poultry meat and eggs at Khyber Pakhtun khwa Peshawar | 2012 |
| 19 | Naseer Ahmad | Comparative efficacy of three Newcastle disease vaccines in broilers under field conditions | 2012 |
| 20 | Umar Ali | Effect of male to female ratio and vitamin E, selenium on the hatchability quail breeders | 2012 |
| 21 | Zahir shah | Replacement of canola meal with Albizia Lebbeck seed in broiler ration | 2012 |
| 22 | Shaheed Ullah Shah | Present status and future scope of rabbit farming in Khyber Pakhtunkhwa | 2012 |
| 23 | Safirullah | Prevalence of Brucellosis in equine of district Peshawar | 2012 |
| 24 | Amjad Ali | Effect of different levels of organic acid supplementation on milk yield and composition of Holstein Friesian cattle during summer | 2013 |
| 25 | Aaqil Muhammad | Lower Ileal Microflora and Growth Performance of Broiler Supplemented Organic Acid | 2013 |
| 26 | Sher Alam | Comparative Efficacy of Three Newcastle Disease Vaccine Strains in Layers | 2013 |
| 27 | Shams ul Hayat | Comparison of Artificial Insemination and Natural Mating in Japanese Quails (<i>Coturnix japonica</i>) | 2013 |
| 28 | Momin Khan | Effect of Various Semen Extenders on Quails Eggs Fertility and Hatchability. | 2013 |
| 29 | Riaz ud Din | A Study on Quality and Efficacy of Some Commercially Available Poultry Antimicrobials (Tylosin and Doxycycline) in Peshawar | 2013 |
| 30 | Zia ul Islam | Fatty Acid Profile and Cholesterol Contents of Eggs Produced Under Different Farming Systems. | 2013 |
| 31 | Ihsan uddin | Replacement of soybean meal with yeast single cell protein in broiler ration | 2013 |
| 32 | Zafar Khan | Incidence of heavy metal in poultry meat and eggs in Khyber Pakhtun Khwa | 2013 |
| 33 | Akbar Ali | Effect of organic acid on the performance of Japanese quails | 2013 |
| 34 | Tahseen Ullah | Lower Ileal Microflora and Growth Performance of Broiler Supplemented Organic Acid blend (aciflex) during finisher phase | 2013 |
| 35 | Tariq Hayat | Serum biochemistry, liver and gut histomorphology of Japanese quails <i>coturnix coturnix Japonica</i> Supplemented Organic Acid blend (aciflex) | 2013 |
| 36 | Muhammad Suhaib Shahid | Effect of hemp seed on egg fatty acid profile and production performances of laying hens | 2013 |

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| 37 | Muhammad Shohaib Khan | Effect of Stocking Density on Performance, Oxidative Stress and Behavior in Broiler during summer. | 2014 |
| 38 | Muhammad Alam | Quality and Efficacy of Some Commercial Brands of Poultry Antibiotics in Khyber Pakhtunkhwa. | 2014 |
| 39 | Shabina Begum | Isolation and Molecular Characterization of Infectious Bronchitis Virus in Khyber Pakhtunkhwa. | 2014 |
| 40 | Muhammad Arif | Preliminary Assessment of Maggot Meal as Protein Supplement in Broiler Production | 2014 |
| 41 | Jawad Ali | Hygienic Status of Poultry Meat Consumed in District Peshawar | 2014 |
| 42 | Muhammad Mukhtar Khan | Using Local Sodium Bentonite as Aflatoxin B1 Binder and its effects on Performance and Histopathology | 2014 |
| 43 | Sajjad Khan | Evaluation of selected commercial brands of amprolium and toltrazuril through HPLC and their comparative in vivo assessment broiler chickens | 2014 |
| 44 | Muhammad Numan | Apparent Nutrient Digestibility and Metabolizable Energy of Cereal Grains in Cranes | 2014 |
| 45 | Saima Aslam | High performance liquid chromatography analysis of anti coccidial drugs in poultry meat and eggs | 2014 |
| 46 | Rizwan ullah | Apparent Nutrient Digestibility and Metabolizable Energy of Cereal Grains by different types of pheasant | 2014 |
| 47 | Muhammad Ishaq | Contaminants in commercial and desi poultry eggs consumed in district Peshawar | 2014 |
| 48 | Saba Ajam | Seroprevalence of avian influenza in commercial and local birds and associated workers in central regions of Khyber Pakhtun khwa | 2014 |
| 49 | Hina Ali | Effect of afla toxin B-1 on serum biochemistry, hematology, liver histopathology of Japanese quails | 2014 |
| 50 | Midrar Ullah | Comparative study of irradiated and control feed in broilers | 2014 |
| 51 | Humera Obaid | Production of omega -3 enriched eggs by laying hens using different levels of flax seed. | 2014 |
| 52 | Irshad Ullah | Use of dutrion (chlorine di oxide) in drinking water and its impact on quails gut function | 2014 |
| 53 | Muhammad Bilal | Chlorine di oxide (Dutrion) in drinking water to enhance production performance and gut function in broilers | 2014 |
| 54 | Imran Uddin | Supplementmentation of mannano oligo saccharides (actigen) in maize soybean meal based diet to broilers during starter phase | 2014 |
| 55 | Muhammad Israr | Effect of afla toxin B-1 on on the performance lymphoid organs histopathology and immunity in Japanese quails | 2014 |

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| 56 | Tausif Raza | Reducing lipid oxidation in omegas-3 enriched eggs with natural antioxidants during storage | 2014 |
| 57 | Jamil Ahmad | Effect of different levels of maize oil cake on milk yield, milk composition, feed intake and live body weight of Achai cattle | 2014 |
| 58 | Irfan Ali Khan | Effect of sex and types of local rabbits on meat quality and composition | 2015 |
| 59 | Khalid Khan | Evaluation of morphometric characteristics and genetyic worth for lines in local rabbits | 2015 |
| 60 | Ilyas Ali | Comparative study on breeding efficiency of different breeds of dairy cattle reared at cattle breeding and dairy farm harichand | 2015 |
| 61 | Inamullah | Study pattenen of assortative matting in rabbits | 2015 |
| 62 | Hassan Fahim | Evaluation of anti cococidal efficiency of mannano oligo saccharides in broilers | 2015 |
| 63 | Arbab Ali | Prevalence of salmonella and differentiation of its serotype from commercial and rural poultry eggs and meat | 2015 |
| 64 | Alam Zeb | Silk worm pupae as potential alternative & cheap source of protein supplementation in broiler. | 2015 |
| 65 | Mian Shahab shah | Comparative eatability of rabbit and chicken meat | 2015 |
| 66 | Ibrar Hussain | Meal worm (Tensebriomolitor) as potential alternative source of protein supplementation in broiler | 2015 |
| 67 | Waqas Alam | Effect of animal blood plasma on broiler performance | 2015 |
| 68 | Tahir Shah | Production of iron enriched chicken eggs through dietary supplementation | 2015 |
| 69 | Wajid Ali | Effect of supplementation Poultry fats on serum lipid profile and performance of broiler | 2015 |
| 70 | Hanif Ur Rehman | Molecular characteristics of mycoplasma species in small ruminant of district Peshawar Buner and Swat of Khyber Pakhtunkhwa | 2015 |
| 71 | Azmat Ullah | Pathogenesis, isolation and molecular characterization of Mycoplasma Gallisepticum in naturally infected broilers chicks | 2015 |
| 72 | Rahim ullah shah | Immune-toxicological effects of concurrent oral administration of endosulfan and ochratoxin A in rabbits. | 2015 |
| 73 | Mushtaq Ahmad | Zoonotic potential of poultry organs and eggs as a source of human infection | 2015 |
| 74 | Chahat Ali | The effect of L carnitine supplementation of the oxidative stress, metabolic and hormonal profile of in pregnant rabbit doe | 2015 |
| 75 | Haji Gul | Using local sodium bentonite as mycotoxin binder and its effect on production performance of layers | 2016 |
| 76 | Ikramullah Khan | Production of zinc enriched egg through feed supplementation | 2016 |
| 77 | Kamran | Invitro and invivo therapeutic studies of Allium CEPA (Onion) against local isolate of Mycoplasma Galisepticum | 2016 |

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| 78 | Syed Kamal Shah | Effect of glycerine monolaurat on gut integrity and immunity of broilers | 2016 |
| 79 | Imad khan | Effect of distillery sluge on health, carcass traits and performance of broiler | 2016 |
| 80 | Shahid Khan | Response of spent naked neck layers to gonadotropin releasing hormone analogue. | 2016 |
| 81 | Jamal Abdul Nasir | Effect of flax seed supplementation on the omega -3 fatty acid enrichment in broiler meat | 2016 |
| 82 | Muhammad Abbas | Assesement of heavy metals in feed and drinking water and their residue in meat and internal organs at broilers farms in district charsadda | 2016 |
| 83 | Sher Muhammad | Effect of gamma amino butyric acid (GABA) supplementation on the performance oxidative stress and immune response in broilers under natural summer stress | 2016 |
| 84 | Hamza Maris | Effect of betane supplementation on the performance of heat stress broilers | 2016 |
| 85 | Kabir Akhter | Replacement of inorganic minerals with organice minerals and its effect on production performance and egg quality of laying hens | 2016 |
| 86 | Sajid Ali | Effect of phytase enzyme on the nutrients digestibility mineral retention and energy utilization of sorghum varieties by duck | 2016 |
| 87 | Muhammad Sohail | Total tract nutrients retention and apparent metabolizable energy of different varieties of wheat maize and sorghum in quails | 2016 |
| 88 | Mudassir Alam | Effect of replacing conventional maize with maize hybrids in broiler rations | 2016 |
| 89 | Farhad Jan | Energy availability and gut nutrient retention of maize , wheat and sorghum by adult Campbell duck (Anas Platyrhynchos) | 2016 |
| 90 | Muslim Ghaffar khan | Effect of short chain fatty acids on digestibility and growth performance of broilers | 2016 |
| 91 | Fazal Wahab | Effect of fenugreek seed supplementation on egg quality and production performance of spent layers | 2016 |
| 92 | Sajjad Hussain | Effect of fish waste lipids on meat composition and growth performance of broilers | 2016 |
| 93 | Sahal Ahmad | Nutrient retention energy utilization, and blood biochemical parameters of heat stressed broilers supplemented silymerin and zinc oxide at finisher phase | 2016 |
| 94 | Muhammad Irfan | Effect of sea buckthorn seed supplementation on performance egg quality and liver health of layers | 2016 |
| 95 | Asif ur Rehman | Effect of quinolones on blood glucose level and Overall blood profile of laying hens | 2017 |
| 96 | Hanifullah | Comparative productive performance of different phenotype of naked neck layers | 2017 |
| 97 | Farid khan | Effect Of Feeding Spirulina On Gut Integrity And Immunity Of Broilers | 2017 |
| 98 | Muhammad Waqas | Use Of Different Saccharomyces Cerevisiae Biotic Forms As Growth Promoter And Immune Modulator For Broilers | 2017 |
| 99 | Arshia Junaid | Use of alpha tocopherol to combat ochratoxin A induced toxicities in avian embryos and hatched chicks | 2017 |

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|------------|-------------------|---|------|
| 100 | Sagheer Ahmad | Role of Mycoplasma Bovis and Staphylococcus aureus in mastitis and its Antibioqram in dairy animals of district Peshawar | 2017 |
| 101 | Faisal Ahmad | Study on toxico- pathological effect of Ochratoxin A in different species of birds | 2017 |
| 102 | Umair Ahmad | Performance and nutrient availibility by meat type chicken feed a phosphrous deficient diet in finisher phase | 2017 |
| 103 | Said Shahid Ali | Effect of diety mixture of fenugreek (trigonella foenum graecum) garlic (allium sativum) and corriender (corriendrum sativum) on performance of broilers | 2017 |
| 104 | Rabia Ali | Effect of phytase enzyme on the nutrient digestibility and mineral retension and energy utilization sorghum varieties by broilers | 2017 |
| 105 | Junaid Akhtar | Effect of diety mixture of fenugreek (trigonella foenum graecum) garlic (allium sativum) and corriender (corriendrum sativum) on nutrient digestibility and blood parameters of broilers chickens | 2017 |
| 106 | Mahboob ul Haq | Effect of blend of carbohydrase enzymes on overall performance and economics of broiler chicks in energy deficient diet at finisher phase of production | 2017 |
| 107 | Shakir Ullah Khan | Effect of replacing differernt levels of conventional maize with hybrid maize HPM-3 in broiler ration | 2017 |

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|-----|------------------------|---|------|
| 108 | Suliman Khan | Effect of phytase and phosphorous deficient diet in broiler starter phase | 2017 |
| 109 | Altaf Ahmad | Effect of dietary mixture of carum copticum, fenugreek and black cumin on growth performance of broilers | 2017 |
| 110 | Zooheb Ullah | Comparison Of Different Levels Of Iron And Zinc For The Enriched Eggs In Layer | 2018 |
| 111 | M.Bilal Islam | Egg geometry, shape index and quality characteristics Of naked neck, rhode island red, black australorp and their crosses | 2018 |
| 112 | Irfan ullah | Productive potential egg quality and morphometric analysis of indigenous (NN) exotic (BAL) (RIR) and their crosses in (line III) | 2018 |
| 113 | Numan Inayat | Effect of substituting soya bean meal with mealworm meal on the performance and carcass characteristic of broilers during starter phase | 2018 |
| 114 | Irfanullah | Effect of replacing soybean meal with meal worm Meal on the performance of white leghorn layer | 2018 |
| 115 | Zahoor Ahmad | Study on comparative efficacy of commercial coccidiostat and medicinal plant in broiler chick | 2019 |
| 116 | Sidra Bibi | Effect of enzyme cocktail with or without phytobiotic on production performance, total tract nutrients retention, immunity and gut morphometry of quails coturnix coturnix Japonica | 2019 |
| 117 | Aman Ullah | Isolation And Antimicrobial Susceptibility Of <i>Escherichia Coli</i> In Poultry Meat At Butcher Shops Of Mingora City District Swat. | 2020 |
| 118 | Muhammad Shahkar Uzair | Impact of serratiopeptidase on efficacy of neomycin against induce <i>Escherechia coli</i> infection in broiler chicks | 2020 |
| 119 | Ibad Ullah | Solid state fermentation of cereal by-products using wheat bran and its assessment in Broiler ration | 2021 |
| 120 | Zeeshan Ul Haq | Solid State Fermentation Of Cereal Byproduct (Rice Bran) And Its Assessment In Broiler Ration | 2021 |
| 121 | Mohsin Khan | Effect Of Graded Corn Replacement With Solid State Fermented Corn On Performance And Economics Of Broiler Production | 2021 |
| 122 | Adnan Shah | Effect of Cooked hotel Fish Waste Supplementation on Performance and Economics of Broilers | 2022 |
| 123 | Saeed, M. | Hepatoprotective effect of fagonia (Indica) in Broilers with induced hepatotoxicity | 2022 |
| 124 | Muhammad Adnan Shamas | Invitro and Invivo Antibacterial Effect of Hydroxamic Acid in Broilers | 2022 |
| 125 | Ashiq Ullah | Effect of liquorice (<i>Glyrrhiza glabra</i>) on growth performance and Gut Morphometry of Broiler | 2022 |

LIST OF PhD STUDENTS SUPERVISED

| S. No | Name Students | Title | Status |
|-------|----------------------|---|--------|
| 1 | Anila Mushtaq | Effect of Physiological Status on Milk Fatty Acids Profile in Dairy Cows and Buffaloes | 2009 |
| 2 | Abdul Jabbar Tanweer | Association of Peganum Harmala L. Supplementation with Hematology, Immunity, Overall Performance and Serum Biochemistry of Broiler Chicks | 2012 |
| 3 | Kamran Khan | Growth traits, production performance and meat quality of indigenous rabbits of Khyber Pakhtunkhwa Pakistan | 2016 |
| 4 | Rafiullah | Replacement of soybean meal with silkworm meal in the poultry ration. | 2017 |
| 5 | Fahim Ahmad khan | Replacement of protein source in the existing poultry feed with single cell microbial protein | 2018 |
| 6 | Ishtiaq Ahmad khan | Evaluation Of Economic Aspects, Artificial Insemination And Reproductive Efficiency Of Broiler Breeders Under Cage Versus Floor Systems | 2018 |
| 7 | Muhammad Inam | Effect of yeast (<i>saccharomyces cerevisiae</i>) incorporation As partial replacement for soybean meal in broilers | 2019 |
| 8 | Naseer Ahmad | Comparative Growth Performance, Immune Status, Carcass And Egg Quality Traits Of Naked Neck, Rhode Island Red (Rir) And Black Astralorpe (Bal) Chicken | 2019 |
| 9 | Sajid ur Rehman | Effect of onion (<i>Allium cepa</i> L.,) supplementation on growth performance, enteric health immunity ,hematology , serum biochemistry and meat quality of broiler | 2019 |
| 10 | Waqas Alam | Evaluation of growth performance, stress , immune status and production performance of broiler breeder under cage versus floor system | 2022 |
| 11 | Saba Ajam | Status of Backyard Poultry in Khyber Pakhtunkhwa province of Pakistan and Augmenting its production through meal worm meal-based premix Supplementation | 2022 |
| 12 | Sajjad Ali Shah | Molecular characterization and control of <i>Mycoplasma gallicepticum</i> isolated from poultry in Khyber pakhtunkhwa | 2022 |
| 13 | Fakhar-ul-Islam | Development of local variants based Newcastle disease for the control of ND in Pakista | 2022 |

Other Academic Participations

| S. No. | Name of Activity | Status |
|--------|---|------------|
| 1 | HEC approved Supervisor for Animal / Poultry Science M. Phil / PhD Students | Supervisor |
| 2 | Board of Studies Poultry Science Department | Convener |
| 3 | Board of Studies Livestock Management Department | Member |

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|----|---|-----------------------------|
| 4 | Provincial Think Tank on Livestock and related Issues | Member |
| 5 | Faculty Seminar | In charge |
| 6 | Provincial Public Service Commission | Technical Advisor |
| 7 | Sarhad Rural Support Program | Consultant/Resource Person |
| 8 | Faculty Think Tank on Livestock and related Issues | Member |
| 9 | HEC Business incubation | Member |
| 10 | Support for M Phil students in Livestock management | Alama Iqbal Open University |
| 11 | Member Center Plant Biodiversity Information Cell | University of Peshawar |

UNDER GRADUATE AND POST-GRADUATE COURSES TAUGHT

| S. No. | Name of Course | Course No | Credit Hours | Class |
|--------|--|-----------|--------------|--------------|
| 01 | Camel and equine management | LM-601 | 2(0-2) | DVM |
| 02 | Livestock Industry | LM-704 | 4(3-2) | M. Sc (Hons) |
| 03 | Lactation Physiology | DST-701 | 4(3-2) | M. Sc (Hons) |
| 04 | Poultry Hygiene and Disease prevention | PH- 707 | 3(2-2) | M. Sc (Hons) |
| 05 | Avian physiology | PS-709 | 3(2-2) | M. Sc (Hons) |
| 06 | Advance Poultry Production | PS-744 | 4(3-2) | M. Sc (Hons) |
| 07 | Avian Embryology | PS-710 | 4(3-2) | Ph. D |

Seminar/ Conference/ Training/ Workshop

1. International conference on Biotechnology” Veterinary Research Institute,Peshawar on 6/3/1995 to 6/5/1995.
2. Business Aspects of the provincial livestock sector. Proc. Livestock Investment Conference PC Peshawar on 28/07/2005.
3. National conference on investment opportunities in livestock sector. Agricultural Foundation of Pakistan on 04/06/2006.
4. Response to challenges of globalization in agriculture. Baragalli 07/03/2008 to 07/05/2008.
5. Asian Buffalo Conference, 26 October to 31 October 2009.
6. International Workshop on Dairy Science Parks, November 21-23, 2011.
7. **3rd Mediterranean Poultry Summit & 6thInternational Poultry Conference** 26-29 March 2012. (Porto Marina, Alexandria, Egypt).
8. International Conference on Climate Change A Challenge for Agriculturists May 28-30, 2012. (Agricultural University, Peshawar).
9. International Conference on Agriculture and Food Security Issues in Global Environmental Perspectives”. The University of Poonch Rawalakot from 11-13 July, 2012.
10. **The 15th AAAP Animal Science Congress.** The Animal Husbandry Association of Thailand, held at Thammasit University, Bangkok.Nov. 26-30, 2012.
11. A .Sultan, **S. Khan**, R.U. Khan and M. Ilyas. 2015. A yeast carbohydrate fraction improved growth performance, apparent metabolisable energy and mineral retention

by broilers at 21 days post-hatch. **Australian Poultry Science Symposium, Sydney, Australia 26: 157.**

12. **Sarzamin Khan**, Aasad sultan, Tehseen ullah, Rafi ullah. 2015. Influence of an organic acid blend on lower ileal microflora and production performance of broilers at day-42. **Australian Poultry Science Symposium, Sydney, Australia 26: 198-200.**
13. Muhammad Inam, Sarzamin Khan, Naila Imtiaz, Muhammad subhan Qureshi, Asad Sultan, Rafiullah, Naseer Ahmad. 2015. Semen quality of local and exotic roosters (*gallus gallus domesticus*) during extremes of summers supplemented with ascorbic acid and electrolytes (CE-Col®). **7th International Symposium of Integrative Zoology – Wildlife, 25–28 Aug 2015, Xi’an, Shaanxi Province, China.**
14. M Subhan Qureshi, Sarzamin Khan, Irfan Ul Haq Qureshi, Asim Ijaz and Asad Sultan. 2015. Reviving the economy of the KP province of Pakistan under the dairy science park. **International Conference on Sustainable Agriculture and Environment. University of Konya, Turkey. P-55.**
15. **Sarzamin Khan**, M Subhan Qureshi and Asad Sultan. 2015. Improving phytate bound phosphorus bioavailability of sorghum by broilers using phytase enzyme. International Conference on Sustainable Agriculture and Environment. **University of Konya, Turkey. p-161.**
16. A. Sultan, **S. Khan**, I.U. Uddin, M.S Qureshi. Gut histomorphology, lymphoid organs weight and mineral absorption by broilers on maize-soybean meal based diet supplemented with a yeast carbohydrate fraction (Actigen®). International conference on Dairy Science Park, 16-18 November, 2016. The University of Agriculture, Peshawar, Pakistan.
17. **Khan, S.** A. Sultan, T. Ullah, M.S. Qureshi. Effect of an organic acid blend (Aciflex®) on lower gut microflora and growth of broilers at day-42. International conference on Dairy Science Park, 16-18 November, 2016. The University of Agriculture, Peshawar, Pakistan.
18. Sultan, **S. Khan**, M.S. Qureshi and N Imtiaz. Increasing in vivo isolatoin of phosphorus from myo-inositol-hexa-phosphoric acid (ip6) of sorghum using phytase enzyme. In proceedings of the International Seminar on Poultry Disease. 14-15 December, 2015. The University of Agriculture, Faisalabad, Pakistan. p 152.
19. **Khan, S.**, A. Sultan, Mohammad Numan Khan and Rafiullah Khan. A preliminary assessment of the nutrient digestibility and apparent metabolizable energy of wheat, sorghum and maize by migratory demoiselle crane (*Anthropoides virgo*). . In proceedings of the International Seminar on Poultry Disease. 14-15 December, 2015. The University of Agriculture, Faisalabad, Pakistan. p 153.
20. **Khan, S.** A. Sultan, Naila Chand and Rafiullah Khan. Meal worm (*Tenebrio molitor*) as potential alternative source of protein supplementation in broiler. In proceedings of the International Seminar on Poultry Disease. 14-15 December, 2015. The University of Agriculture, Faisalabad, Pakistan. p 157.
21. **2nd BCIM Seminar & Workshop on Livestock Production Management and Disease Prevention Techniques**, Yunan Academy of Science and Technology, China 2-11 March, 2016.
22. Biorisk Mangmenet; scope and importance. Sandia Labs, USA at UAE. **21-25 May, 2016.**
23. Curriculum development for Biorisk Management, Sandia Labs, USA in Bangkok. 13-18, November, 2016.

24. **International Coordination Meeting on poultry nutrition.** 03 to 9th March 2017 University of Putra Malaysia.
25. Attended 15th National & 6th International Conference of Botany Dynamic Trends in Plant Sciences: Fostering Environment and Food Security (09th - 11th May 2017) Sardar Bahadur Khan Women's University, Quetta, Pakistan in Collaboration With Pakistan Botanical Society (PBS).
26. Kamran, **Sarzamin Khan** and Zubia Masood. 2017. Invitro and Invivo Therapeutic Studies of Allium cepa (Onion) Against Local Isolates Of Mycoplasma Gallisepticum. Proceeding of 15th National & 6th International Conference of Botany Dynamic Trends in Plant Sciences: Fostering Environment and Food Security (09th - 11th May 2017) Sardar Bahadur Khan Women's University, Quetta, Pakistan in Collaboration With Pakistan Botanical Society (PBS). Page 07.
27. Attended International Poultry Science Conference PSC@IPEX on August 22-24, 2017 at UVAS Lahore.
28. A. musadiq , U. Saddique, **S. Khan**, S.Ahmad and N.Ahmad.2017.Use Of α -Tocopherol To Combat Ochratoxin A Induced Toxicities In Avian Embryos And Hatched Chicks. Proceeding of International Poultry science conference @IPEX on August 22-24, 2017 at Uvas. Page. 02.
29. M. khan, **S. Khan**, S. Ahmad and N.Ahmad .2017. Comparison Of Natural Mating And Artificial Insemination In Japanese Quails (Coturnix Japonica). Proceeding of International poultry science conference @IPEX on August 22-24, 2017 at Uvas. Page. 02
30. N. Saleem, U. Saddique, **S. Khan**, S.Ahmad and N.Ahmad.2017.Sero-Prevaence Of Avian Influenza And Infectious Bronchitis In Poultry Birds In District Dir (Lower), Khyber Paktunkhwa, Pakistan.Proceeding of International Poultry science conference @IPEX on August 22-24, 2017 at Uvas. Page. 03.
31. M. S. Khan, **S. Khan**, R. Ullah, N. Ahmad, W. Alam, S. Khan and M.B.Islam.2017. Effect of Stocking Density on Performance and Oxidative Stress of Broilers Reared in Cages during summer. Proceeding of International poultry science conference @IPEX on August 22-24, 2017 at Uvas. Page. 04