

CURRICULAM VITA

Prof. Dr. Sarzamin Khan



I am highly committed to explore new horizons in the field of Poultry Production for contribution in the betterment of community and believe in excellence of research standards.

Date of Birth: 06.05.1970
Current position: Professor in Poultry Science
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**),
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Academic and Professional Qualification

Degree/ Certificate	Year	Discipline	University/ Board	Division / Grade
Post Doctorate	2019	Organic Poultry Production	University of Minnesota, USA	-
Post Doctorate	2010	Avian Physiology and Embryology	University of Tsukuba, Japan	-
PhD	2007	Animal Sciences	The University of Agriculture Peshawar	Ist
M.Sc (Hons)	1996	Animal Sciences (Poultry diseases)	The University of Agriculture Peshawar	Ist
DVM	1994	Veterinary Sciences	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	20	Regular	01.01.2010 to 30.5.2012
Assistant professor	19	Regular	31.12.2004 to 31.12.2009
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)

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
6	Production of Unicellular protein and its Utilization in Poultry and Animal ration	15.00	HEC (Co -PI)	In hand
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)	Compeleted
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)	Compeleted
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)	In hand
11	Establishment of Simple, Rapid, and Specific Method for The Identification of Meat of Halal Animal Species and Halal Processed Meat Products	10.00	ALP (PI)	Shortlisted
12	Establishment of fresh and cold water aquaculture facility at the University of Agriculture Peshawar	150	ADP	In pipe line
13	Detection and control of newly emerging respiratory viruses of poultry in Pakistan	25.72	ALP (PI)	Shortlisted
14	Application of Solid State Fermentation (SSF) for Up gradation of Nutrient Profile and Digestibility of Traditional and Novel Ingredients	13.9	NRPU	Submitted

	of Poultry Feed as a Model of Technology Based Economy			
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LEADERSHIP AND ACHIEVEMENTS

1. **Working Experience:** Total, 23 with 6 years worked as Department Chairman.
2. **International Research Linkages:** Developed with China, USA, Turkey, Netherlands, Malaysia and Japan.
3. **National Research Linkages:** Poultry Research Institute (Jabba), VRI (Peshawar), Wildlife Department (KPK), BSP (Business for Social Welfare, Lahore), SRSP (Sarhad Rural Support Programm, KPK).
4. The Higher Education Commission (HEC) Fellowship award for PhD and Postdoctoral studies.
5. Member Association of American Avian Pathologists.
6. Nomination as Approved/accredited Supervisor at national level by HEC, Pakistan.
7. Successful completion of research projects and submission of developmental projects .
8. Served Provincial Public Service Commission (PSC) as technical Advisor.
9. **Member Selection Board** Islamia University Bahawalpur, Rawalakoat University, SBBU (Dir), AWKU (Mardan).
10. **Member, Board of Studies** AWKU (Mardan), SBBU (Upper Dir).
11. **Expert nomination** in the Poverty Alleviation Program by the Government of Pakistan
12. Attended two academic council meetings and a number other routine meetings.
13. Member Editorial Board Sarhad Journal of Agriculture (2013-2018)
14. **Trainings received abroad:** Total Five (5) in China, Netherland, Bangkok, Dubai and Japan.
15. **Farmers trainings:** Arrange a total 14; with five for women and 9 for male farmers
16. Appreciation certificates by Civil societies for contributions in the uplift of rural community.
17. Members of Pakistan Veterinary Medical Council

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. Biosecurity and it,s importance for human life (under process)

I. List of Publications in Peer Reviewed International Impact Factors Journals (57)

1. 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. <https://doi.org/10.1016/j.rvsc.2020.03.009>
2. 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.
3. 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.
4. 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>
5. Ullah, N. **Khan, S.**, Mobashar3,M., 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.
6. 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.

7. 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.
8. 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>.
9. 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>.
10. 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.
11. 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.
12. 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>.
13. 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.
14. 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. *Pakistan J. Zool.*, vol. 50(6), pp 2037-2043. DOI: <http://dx.doi.org/10.17582/journal.pjz/2018.50.6.2037.2043>.
15. 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.
16. 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>.
17. 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.
18. 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.

19. 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.
20. 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.
21. Jan, R., U.Saddique, Z.Hussain, K. Farid, A. Shakoor, **S. Khan** and H. Khan. 2017.Toxico-pathological and Reproductive Effects of Concurrent Oral Administration of Ochratoxin A and Endosulfan in Pregnant Rabbits (*Oryctolagus cuniculus*).*Pak. vet J.*, 37(1): 19-24.
22. **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.
23. Kamran Khan, **Sarzamin Khan**, Rajwali Khan, Asad Sultan, Nazir Ahmad Khan and Naseer Ahmad. 2016Growth 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.
24. 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*) DuringSuccessful Pregnancy Under Backyard Production System. *Pakistan J. Zool.*, vol. 48 (3), pp. 625-630.
25. 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.
26. 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.
27. 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.
28. 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.
29. Sultan A, M Bilal, S Khan and ZU Hassan, 2015. Effect of chlorine dioxide (Dutrition) on growth performance, gut histomorphology and pathogenic microbial count of meat type birds. *Pak Vet J*, 35(2): 183-188.
30. 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.
31. 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.
32. 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.

33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. Raziq, F., **S. Khan**, N. Chand, A. Sultan, M. Mushtaq, Rafiullah, S.M. Suhail and A. Zeb. (2012). Effect of water based Infusion of aloe barbedensis, pimpinella anisum, berberis Lycium, trigonella foenum graecum and allium sativum on The performance of broiler chicks. Pak. J. Vet. Sci. 32(4): 593-596.
44. Ahmad, I.T. A. Qureshi, F. A. **Khan**, S. A. K. Mughal, U. Sadique, Z. Shah, Z.U. Hassan (2012). Evaluation of Biochemical Effects of Diclofenac Sodium In Goats. J. Anim. and Plant Sci. 22(2 Suppl.): 1-4.
45. Tanweer, N. Chand, **S. Khan**, M.S. Qureshi, A. Akhtar and M. Niamatullah. (2012). Impact of methanolic extract of *peganum harmala* on the weight gain, feed conversion ratio, feed cost and gross Return of broiler chicks. J. Anim. and Plant Sci. 22(2 Suppl.): 264-267.
46. **Khan S.**, M. S. Qureshi, M. Younas, Rafiullah and M. Inam. 2012. Modeling and management of post-conception decline in milk yield of dairy buffaloes. J. Anim. and Plant. Sci. 22(2 Suppl.): 5-11.

47. **Khan, S.** N. Ishikawa, T. Hattori, A. Tajima. (2012). Effect of Pregnancy on body Hair Growth in Dairy Cattle. *J. Anim. and Plant. Sci.* 22(2 Suppl.): 87-91.
48. Rehman, Z. M. U. Samo, T. A. Qureshi, **S. Khan**, M. S. Qureshi, F. A. Khan and S. Bahadur. (2012). Studies On Freezability of Kundhi Buffalo Bull Semen. *J. Anim. and Plant Sciences*, 22(2 Suppl): 18-23.
49. 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.
50. **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.
51. Qureshi, M. S., A. Mushtaq, **S. Khan**, G. Habib, Z. A. Swati, 2010. Variation in milk fatty acids composition with body condition in dairy buffaloes (*Bubalus bubalis*). *Asian, Aust. J. Anim Sci.* 23: 340-345.
52. **Khan, S.**, M. S. Qureshi, N. Ahmad, M. Amjed, M. Younas and A. Rehman. 2009. Feed supplementation prevents post conception decline in milk progesterone concentration associated with production stress in Dairy Buffaloes. *Trop Anim Health Prod.* 41:1133-1142.
53. **Khan, S.**; M. S. Qureshi, G. Habib, A. Mushtaq Ihsanullah, S. Ahmad, S. M. Sohail and S. S. Afridi. (2009) Effect of pregnancy on lactation performance of Dairy Buffaloes. *Pak J Zool., Suppl. Ser. No.* 55-60.
54. Sohail, S. M., M. S. Qureshi, **S. Khan**, G. Habib, 2009. Relationship among various production and reproduction Contributors of Breeding Efficiency in Dairy Buffaloes of Pakistan. *Pak J Zool., Sup. No.* 9, 297-301.
55. Shah, S. M., **S Khan**, M. S. Qureshi, S. M. Sohail, G. Habib, I. Ihsanullah, U. Sadique, S. S. Afridi, S. Ahmad, A. Mushtaq, Z. Shah, Z. Rahman, 2009. Effect of pregnancy on milk composition in buffaloes. *Pak J Zool, Sup. 9* 669-673.
56. **Khan, S.**, M. S. Qureshi, N. Ahmad, M. Amjed, Durani, F. R. and M. Younas. 2008. Effect of pregnancy on Lactation Milk Value in Dairy Buffalo. *Asian Australasian. J. Anim. Sci.* 21 (4) 523-531.
57. Qureshi M. S., **S. Khan**, and N. Ahmad. 2007. Pregnancy depresses milk yield in dairy buffaloes. *Ital. J. Anim. Sci.* 6(2) 1290-1293.

Publications in Peer Reviewed HEC approved National Journals (21)

1. Shabina, **Sarzamin Khan**, Shams ul Hayat, Saira Gul, Saleha Gul, Haseena and Attaullah. 2018. Isolation, identification and molecular characterization of virulent avian infectious bronchitis virus in Khyber Pakhtunkhwa, Pakistan. *Pure Appl. Biol.*, 7(2): 435-442. <http://dx.doi.org/10.19045/bspab.2018.70054>.
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 Pakhtunkhwa province of Pakistan. *Sarhad j. Agric.* 30 (3) 369-374.
6. Rehman Z. U., **S. Khan**, N. Chand, A. J. Tanweer, A. Sultan, A. Akhtar and A. M. Tauqee. (2013). Effect of Water Based Mixture infusion of Allium sativum and Withania Somnifera on the performance of broiler chicks. *Pak. J. of Sci.* 64 (3).

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.
9. Maroof, K. N. Chand, **S. Khan**, M.S. Qureshi, A. Rehman and B. Jan. (2012). Comparative Efficacy of Different Schedules of Administration of Medicinal Plants (*Allium sativum*, *Berberis 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. Rafiqand 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.
15. Rahman, A. **S. Khan**, D. Khan, M. Hussain, S. Ahmad, S. M. Sohail, I. Ahmad, I. Haq, and Z. Shah. (2009). Use of Probiotics as an immune enhancer in broilers. Sarhad J. Agric. Vol. 25(3) 457-461.
16. **Khan, S.**, M.S. Qureshi, N. Ahmad, M. Amjed, and M. younas. 2008. Effect of gestation stage on Milk Production in dairy buffaloes. Sarhad J. Agric. 24 (2) 317-322.
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.
18. Ansari J. Z , A. Haq , M. Yousaf , A. Tanveer and **S. Khan** 2008. Evaluation of Different Medicinal Plants as Growth Promoters for Broiler Chicks. Sarhad J. Agric. 24 (2) 331-337.
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.
21. **Khan S.**, M. A. Main, M. Ayaz and F.R. Durrani. 1998. Immuno-suppressive effect of four different Gumboro Vaccine strains on HI Antibody titer against Newcastle disease vaccine in broilers. Sarhad J. Agric. 4 (1) 1-3.

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 managerial 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 a 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 Mdeiterranean 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) Students Supervised

S. No	Name Students	Title	Status
1	Bashir Ahmad	Production and Reproduction Performance of Jersey Cattle Maintained at Cattle Breeding and Dairy Farm Harichand	2005
2	Zaibullah Khan	Investigation of Mortality Incidence and Endoparasitic Infestation in Buffalo calves in Commercial Dairy Farms in Peshawar City	2006
3	Abdul Raziq Safi	Investigation of Farm practices, Mortality incidence and ticks infestation in Buffalo Calves at Commercial Dairy Farms in District Charsada	2007
4	Zafer Iqbal	Antiparasitic and Immunomodulatory effect of some common anthelmintics in buffalo Calves	2007
5	Ifthikhar Ahmad	Effect of sub-clinical mastitis on milk yield and composition in dairy cattle and buffaloes	2007
6	Inamullah Marwat	Effect of Breeding Method on Calf sex and Postpartum Reproductive Performance of Cattle and Buffaloes	2009
7	Yasar Javed	Comparative Effect of Different Schedules of Administration of Medicinal Plants Mixed Infusion on Biochemical Status and Overall Performance in Broiler Chick	2011
8	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

9	Muhammad Inam	Comparative Evaluation of Semen from Starbro, Cobb-500 Broiler Breeder and Local Cocks (Non-Descriptive) Under Summer Stress of Peshawar	2012
10	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
11	Shah Hussain	Prevalence of antibiotic residues in broiler meat and eggs reared in Peshawar	2012
12	Naseer Ahmad	Comparative efficacy of three Newcastle disease vaccines in broilers under field conditions	2012
13	Umer Ali	Effect of male to female ratio and vitamin E, selenium on the hatchability quail breeders	2012
14	Aaqil Muhammad	Lower Ileal Microflora and Growth Performance of Broiler Supplemented Organic Acid	2013
15	Sher Alam	Comparative Efficacy of Three Newcastle Disease Vaccine Strains in Layers	2013
16	Shams ul Hayat	Comparison of Artificial Insemination and Natural Mating in Japanese Quails (<i>Coturnix japonica</i>)	2013
17	Momin Khan	Effect of Various Semen Extenders on Quails Eggs Fertility and Hatchability.	2013
18	Riaz ud Din	A Study on Quality and Efficacy of Some Commercially Available Poultry Antimicrobials (Tylosin and Doxycycline) in Peshawar	2013
19	Muhammad Shohaib Khan	Effect of Stocking Density on Performance, Oxidative Stress and Behavior in Broiler during summer.	2014
20	Muhammad Alam	Quality and Efficacy of Some Commercial Brands of Poultry Antibiotics in Khyber Pakhtunkhwa.	2014
21	Shabina Begum	Isolation and Molecular Characterization of Infectious Bronchitis Virus in Khyber Pakhtunkhwa.	2014
22	Muhammad Arif	Preliminary Assessment of Maggot Meal as Protein Supplement in Broiler Production	2014
23	Jawad Ali	Hygienic Status of Poultry Meat Consumed in District Peshawar	2014
24	Muhammad Mukhtar	Using Local Sodium Bentonite as Aflatoxin B1 Binder and its effects on Performance and Histopathology	2014
25	Zia ul Islam	Fatty Acid Profile and Cholesterol Contents of Eggs Produced Under Different Farming Systems.	2014
26	Muhammad Numan	Apparent Nutrient Digestibility and Metabolizable Energy of Cereal Grains in Cranes	2014
27	Alam Zeb	Silk worm pupae as potential alternative & cheap source of protein supplementation in broiler.	2015

28	Mian Shahab shah	Comparative eatability of rabbit and chicken meat	2015
29	Ibrar Hussain	Meal worm (Tensebriomolitor) as potential alternative source of protein supplementation in broiler	2015
30	Waqas Alam	Effect of animal blood plasma on broiler performance	2015
31	Tahir Shah	Production of iron enriched chicken eggs through dietary supplementation	2015
32	Wajid Ali	Effect of supplementation Poultry fats on serum lipid profile and performance of broiler	2015
33	Haji Gul	Using local sodium bentonite as mycotoxin binder and its effect on production performance of layers	2016
34	Ikramullah Khan	Production of zinc enriched egg through feed supplementation	2016
35	Kamran	Invitro and invivo therapeutic studies of Allium CEPA (Onion) against local isolate of Mycoplasma Galisepticum	2016
36	Syed Kamal Shah	Effect of glycerine monolaurat on gut integrity and immunity of broilers	2016
37	Imad khan	Effect of distillery sluge on health, carcass traits and performance of broiler	2016
38	Shahid Khan	Response of spent naked neck layers to gonadotropin releasing hormone analogue.	2016
39	Asif ur Rehman	Effect of quinolones on blood glucose level and Overall blood profile of laying hens	2017
40	Hanifullah	Comparative productive performance of different phenotype of naked neck layers	2017
41	Farid khan	Effect Of Feeding Spirulina On Gut Integrity And Immunity Of Broilers	2017
42	Muhammad Waqas	Use Of Different Saccharomyces Cerevisiae Biotic Forms As Growth Promoter And Immune Modulator For Broilers	2017
43	Zooheb Ullah	Comparison Of Different Levels Of Iron And Zinc For The Enriched Eggs In Layer	2018
44	M.Bilal Islam	Egg geometry, shape index and quality characteristics Of naked neck, rhode island red, black australorp and their crosses	2018
45	Numan Inayat	Effect of substituting soya bean meal with mealworm meal on the performance and carcass characteristic of broilers during starter phase	2018
46	Irfanullah	Effect of replacing soybean meal with meal worm Meal on the performance of white leghorn layer	2018

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

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
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 & 6th International 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 illeal 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 isolation 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 Management; 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