



Univ Agric Pesh



Dairy Sci Park



Govt of KP



HEC



UNSDG  
Action9671

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## Professor Muhammad Subhan Qureshi

DVM, MSc Hons, PhD (Theriogenology) ([UA Faisalabad](#))

**Position** [Professor](#)/Ex-Dean, Faculty of Animal Husbandry and Veterinary Sciences, The University of Agriculture, Peshwar-25120, Pakistan/

[Chief Patron](#), Dairy Science Park, Peshawar/

[Adjunct Professor](#), Charles Sturt University, NSW, Australia

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### 1. CAREER HISTORY

**Research and Development:** After getting DVM degree from UVAS Lahore, joined Livestock Department, Government of Khyber Pakhtunkhwa Pakistan during 1983 as Veterinary Officer (Health) and worked on semen processing, farm management, feeding and health coverage. Worked at Civil Veterinary Hospital and provided therapeutic and immunization services to the incoming animals. Worked as pioneer Senior Research Officer on Herd Health Program and registered buffalo farms for applied research and extension services; analyzed the prevailing practices of feeding, health and reproductive management, introduced good practices and organized the farmers into Sarhad Dairy Farmers Association, facilitating them for availing services of various research, development, marketing and financial institutions. Completed master and doctoral degrees and published a report on mismanaged livestock sector, losing an export potential of US\$ 20 billion at national level. Three Chief Ministers endorsed the Chief Minister Development Plan prepared by the author.

**Academic excellence:** Joined the University of Agriculture, Peshawar as full professor and served as Dean for two tenures. I have been working as HEC representative at PVMC and member of several professional bodies. Engaged in Teaching, Research and Industrial Linkage in animal health, reproduction, entrepreneurship and biorisk management; supervised PhD students 18, M Phil 84; subjects taught Reproductive Physiology; Livestock Industry; Stress Physiology; research projects completed 6; research publications in impact factor journals 53; books/chapters published 15, including a book on Reproductive Physiology published by Higher Education Commission of Pakistan.

Functionalized the UAP Univ Feed Mill under a lease arrangement through as private partner. Successfully introduced the feed at private dairy farmers in Peshawar and adjacent districts, competing with other feed manufacturers, based upon the best prices and quality. Initiated research on physiological base of animals' productivity and stress physiology/animals welfare and tailored the postgraduate studies and research and development projects into these priorities. Motivated the faculty members and students for winning research grants to respond to the local problems and explore business and industrial aspects of livestock and poultry production.

**Academia-Government-Industry/International Linkages:** Dairy Science Park (Park/DSP) has been introduced as a sacred mission for welfare of people of the Region through generation of self employment and hygienic/Halal food production. The Park has been registered as a Society with the Government of KP, Pakistan and accepted by the United Nations as #UNSDGAction9671. In line with the vision of the Higher Education Commission, the business incubation concepts were integrated into postgraduate research ongoing at the Faculty, shaping up the University – Industry linkages. A biennial series of international workshops was initiated and it continued during November, 2011, 2013 and 2015, each by 450+ delegates, with 100+ technical papers and industrial exhibition. The proceedings were published online/printed and in impact factor journals. The 1<sup>st</sup> workshop focused on post-flood revival of dairy industry, the 2<sup>nd</sup> on meat potential of the region and the 3<sup>rd</sup> on entrepreneurship development for the outgoing graduates. The fourth conference was held at Selcuk University Konya, Turkey during on Nov 1-5, 2017.

Emerging industries in milk and meat processing and marketing have been provided technical and Quality Control certification support to relieve legal threats from the District Administration, who focus on price capping of milk and meat rather than quality. Meat shops established on modern lines of hygiene produce quality beef; however such facilities are raided by the government agencies on the basis of higher prices. DSP facilitates inspection of such facilities provide SOPs for quality standards and issue a certificate. Similar services are being extended to private slaughter houses and meat/milk processing centers and other emerging entrepreneurs. A road map has been prepared for developing a Hygienic/Halal meat export base. The plan is aimed at introducing good practices into livestock SMEs. The plan has been supported by the provincial Agriculture Minister, Special Assistants to Chief Minister KP on Law and Livestock. Sandia National Lab USA has been supporting DSP under a Biorisk Management Collaboration. Four consultative workshops have been held in Amsterdam, Dubai, Bangkok and Puket, participated by 43 members of DSP for curriculum development and integration of biorisk management concept into the food value chain.

**Charles Sturt University (CSU) Australia:** CSU was joined as Adjunct Professor during 2010 which will continue up to 2022. I outlined some of the key factors that impact on the reproductive efficiency of the Pakistani dairy buffaloes herd. It was found that under-nutrition and nutritional imbalance through feeding high protein-low energy diets suppress ovarian cyclicity. Interestingly ovarian activity is often negatively associated with insulin like growth factor 1 (IGF1) levels since this is associated with higher milk yields. Clearly nutrient partitioning is playing a role here particularly when cows and buffalo are underfed. Interestingly, mid-chain length fatty acids (C12-C14) are more prevalent in milk from crossbred (Sahiwal-Friesian crosses) than in purebred Sahiwal milk in which shorter chain saturated fatty acids prevail. I attended joint ISNH / ISRP International Conference-2014 at Canberra and present paper on productivity and fertility of crossbred cattle in the subtropical environment of Peshawar Pakistan. Pak-Australia Dairy Project was assisted and supervised students research at Peshawar, regarding reproductive biotechnology and women in development. Australian Farming System was studied; visits were made to the farms and clinics and farmers meetings were attended at Charles Sturt University, WaggaWagga, in collaboration with Prof Peter Wynn. The main problem identified was the difficulty of farmers in getting technical and marketing services; summer stress faced by the animals; and scarcity of labours due to migration of the younger generations from rural to urban areas.

**Policy development/reforms plan:**The Ex-Chief Minister KP, Mr Akram Khan Durrani approved the concept of the DSP as a development plan and recommended establishment of the University of Veterinary Innovations and Commercialization with up-gradation of the existing Faculty of AHVS, UAP establishment of additional facilities like slaughter houses, livestock markets and entrepreneurship models. The Higher Education Commission accepted the Park as a Center of Excellence. Senior Minister KP, Mr Inayatullah Khan has agreed on establishment of DSP Board, under an Act of the Provincial Assembly, comprising Quality Control Laboratory Complex, Business Incubation Center, Halal Research Center and an Endowment Fund. His proposal for establishment of Task Force for DSP was approved by the Chief Minister. The Chief

Secretary KP has declared DSP as an innovative idea. The idea of Mardan TechnoPark and Quetta TechnoPark was accepted in a meeting of relevant authorities under chairmanship of Mr Arif Yousaf, Special Assistant to Chief Minister KP and Governor Balochistan. DSP IV – 2017 Konya endorsed the concept and Konya Teknokent offered cooperation through an MoU.

## **2. EDUCATION**

<b>Level of Education</b>	<b>Name of Examination</b>	<b>Institution Or Board/University</b>	<b>Degree awarded</b>	<b>Marks obtained</b>	<b>Major Subjects</b>
Matriculation	SSCE	BISE Pesh	1-9-1973	686/850 (80.7%)	Science
Intermediate	FSc Premed	BISE Pesh	1-9-1975	518/1100 (47.1%)	Premedical
Bachelor's	DVM	UA Faisalabad	1982	2289/3660 (63%)	Vet Science
Master's	MSc Hons	Do	1988	597/820 (72.8%)	Animal Reprod
Doctorate	PhD	Do	1998	444/620 (71.6%)	Do

## **3. EXPERIENCE**

<b>Post held</b>	<b>Organization</b>	<b>BPS</b>	<b>From</b>	<b>To</b>
Veterinary Officer (Health)	Directorate of Livestock & Dairy Dev	BPS-17	7-8-1983	18-6-1990
Research Officer/ Senior Research Officer/Dy Director Plg	Veterinary Research Institute Peshawar/Civil Secretariat Peshawar	BPS-17S	19-6-1990	30-11-1992
		BPS-18	1-12-1992	30-11-1997
		BPS-19	1-12-1997	18-1-2005
Dy Director Planning (LS)	Agriculture, Livestock and Coop Dept	BPS-19	2000	2001
Chairman	Livestock Mngt/Animal Health UAP		15-5-2007	20-12-2011
Dean	FAHVS, UA Peshawar		15-4-2011	14-4-2017
Professor (BPS/TTS)	The University of Agriculture, Peshawar	BPS-20	18-1-2005	12-1-2007
		BPS-21	13-1-2007	To date

## **4. EXPERIENCE RELATED TO STATUTORY BODIES OF UNIVERSITIES**

- Convener Board of Faculty of AH&VS
- Member Syndicate UAP/Member Academic Council UAP/Member Board of AS&R UAP
- Member Board of Studies, Livestock Management, Animal Nutrition, Human Nutrition, Poultry Science, Gomal College of Veterinary Sciences, AWKU Mardan
- Member Board of Faculty of AHVS/Faculty of Nutrition Sciences
- Member of Board of Governors of IBGE
- Chairman, Character Building Society/AgricUniv Teachers Foundation/Fund Raising Committee/AUP Alumni Association/Institutional Performance Evaluation Committee UAP
- Technical Member Selection Board, UA Peshawar, GU DI Khan, AJKU Muzaffar Abad, AWKUM Mardan

## **5. PROFESSIONAL RECOGNITION**

### **A. Awards**

- Gold Medal 2013, Unity Human Well Wishers Council, Lahore.
- Excellence Award 2013, International Livestock, Dairy and Poultry Congress, Lahore.
- Research Productivity Award 2012. Pakistan Council for Science and Technology, Islamabad.
- Best University Teacher Award 2011 (Higher Education Commission of Pakistan)
- Millennium Lifetime Award 2009 (S Asia Publication)
- Star Award 2008 (for seniors) (S Asia Publication)
- Star Laureate 2008 (S Asia Publication)

## **B. Membership Of International Bodies**

1. Technical Expert DAAD Research Grant Scholarships, Germany.
2. Pak-Australia Dairy Project ASLP-Livestock Board Lahore (Expert in Dairy Reproduction).
3. American Dairy Science Association, USA
4. Society for Theriogenology, USA, Active Member, 2006
5. International Society of Zoological Sciences
6. International Society for Applied Life Sciences
7. Relief International Pakistan, Focal Point for KP Universities
8. Chief Editor, Meat Science and Veterinary Public Health (MSVPH)
9. Member editorial board, Asian-Aust J AnimSci; Pak Vet J; J Agric Sci Tech A; Reviewer, J Dairy Sci USA; Canad J AnimSci; Pak J Zool; Indian J Dairy Sci; Tropical Anim Health Prod; J Food Sci Agric., J Immunoassay Immunochemistry. Indian J Anim Res, J Medicinal Plants Res, Turkish J Vet AnimSci, Livestock Sci; Small Ruminants Research; J Food Chem Toxic; J Cell AnimBiol; J Anim Physiol Anim Nutr

## **C. Fellowship/Membership of Local Bodies**

1. Chief Patron/Founder Dairy Science Park
2. Pak. Vet. Med. Council, Member executive committee/HEC representative
3. Pak. Soc. Animal Reprod. Lahore, Vice President
4. Member National Steering Committee, Nutritionist Assoc. Pak. Lahore
5. UAP, UA Faisalabad, SAU Tandojam, GU DI Khan., UVAS Lahore, Graduate/Postgrad. Examiner, 1994 onwards
6. PARC/PSF/HEC/UAF, Project Reviewer, 2003 onwards
7. Member, Provincial Advisory Committee, Ministry of Science and Technology KP
8. GoKPK, Impact assessment study
9. Sarhad Dairy Farmers Association, Advisor
10. Public Service Commission, technical member
11. Livestock trainers and consultants, member BoD/Founder
12. Member, Industrial Advisory Group, NAVTEC, Prime Minister Secretariat, Islamabad.
13. Associate Editor of Sarhad Journal of Agriculture and Journal Anim Health Prod
14. Resident editor of the Veterinary News and Views
15. Member PCST Committee for Accreditation of Halal Certification Bodies

## **D. Visits abroad**

1. Thailand, Bangkok, March 28 to May 6, 1994: Attended 10<sup>th</sup> International Training in Swamp Buffalo Reproduction at Chulalongkorn University. Sponsor: Royal Thai Government; Bangkok, 14-18 Nov, 2016, Led biorisk management workshop, sponsored by Sandia National Labs (SNL) USA; Phuket, 17-22 March, 2017; Led senior management workshop on biorisk management, sponsored by SNL.
2. Italy, October 15 to 28, 2007: Attended 8<sup>th</sup> World buffalo congress at Caserta. Sponsor: HEC
3. Egypt: i) 27 Feb - 4 March., 2010; Attended 6<sup>th</sup> IntConf Egyptian Soc ExpBiol, Minoufiya University, Cairo. Sponsor: HEC; ii) 1 to 6 July, 2010, Attended Int Workshop On Industrial Biotechnology. Alexandria, Egypt. Sponsor: OECD, Paris, France.
4. Saudi Arabia: Feb and July, 2010. Sights seeing and performance of Umrah on way back from Egypt. Sept 30 to Nov 10, 2014 for performance of Hajj.
5. Australia: Nov 12-Dec 24, 2010. Visiting Professor Charles Sturt University, WaggaWagga; Sept 6-13, 2014, to attend *Joint ISNH / ISRP International Conference*, Canberra.
6. Turkey: Sept 6-16, 2012. Presented a paper and chaired session 2 of the International Conference on Applied Life Sciences at Konya. Discussed meat export from Khyber Pakhtunkhwa with the scientists at Selcuk University and industry people. Sponsor HEC; visited Konya along with 50+ delegates from Pakistan as Co Chair of Dairy Science Park 2017, Nov 1-5, 2017. Sponsor: SNL
7. The Netherlands: 15-18 March, 2015. Led 5 DSP delegates on Biorisk Management to attend a

- meeting with US counterparts and Third Int [One Health Congress](#) sponsored by the United States Department of State's Biosecurity Engagement Program, Sandia National Labs.
8. *Dubai; May 21-25, 2016.* Led DSP delegation to attend consultative workshop on Pakistan Biorisk Curriculum Development with Sandia National Laboratories USA (sponsor)
  9. *Colombo, Sri Lanka; Sep 5-7, 2017.* Led DSP delegation to attend consultative workshop on Pakistan Biorisk Curriculum Development with Sandia National Laboratories USA (sponsor).
  10. Mashad, Iran; 7-8 Dec 2017. Attended Science Tech +; presented paper; participated in Entrepreneurship Show at Firdosi University.
  11. *Amman and Irbid, Jordan;* April 29-May 1, 2018. BRM Meeting on the use of research methods and role of biotechnology; Sponsor SNL USA.

## **6. INDUSTRIALIZATION OF RESEARCH**

### **Business Incubation:**

Business incubation concepts were introduced into postgraduate research at UAP and research studies were launched like maggot meal, silk worm meal, meal worm, omega-3 enriched eggs, iron and zinc enriched eggs, quality control through drug-residues, aflatoxin levels, antibiotic resistance, herbal probiotics as growth promoters, improvement meat quality through dietary antioxidants supplementations, stress management through antioxidants, semen evaluation, breeding through artificial insemination, introduction and evaluation of rabbits for meat production. Establishment of Peshawar Meat Factory was facilitated through Dairy Science Park as a model entrepreneur in the DSP Region.

### **Outreach/Extension Activities**

Peri-urban dairy farms were studied during doctoral thesis research and losses of Rs.1043 billion per annum were reported. The farmers were organized into Sarhad Dairy Farmers Association and linked with various development and scientific organizations. Farmers' problems were highlighted through review papers for scientific and administrative journals, conferences, internet articles and press statements. Advised two successive Chief Ministers on livestock sector and presented development plans. Livestock Investment Conference was organized in collaboration with Sarhad Chamber of Commerce and Industries on July 28, 2005. Viable enterprises are being developed through integrated networks of stakeholders including KPCCI and SMEDA, under the umbrella of the Dairy Science Park as Chief Organizer. Training programs were organized for farmers, scientists and technicians in biorisk management, good practices, entrepreneurship development, silage making and sustainable livestock and poultry farming. Sponsorship was provided by Relief International Pakistan; HUIRA, Agri-business Support Fund-USAID, SRSP and Inter-Cooperation.

## **7. CONFERENCE/WORKSHOPS/MEETINGS ATTENDED/PAPERS CONTRIBUTED**

### **International 2007 and onwards**

1. Qureshi, M.S., et al, 2007. Proc. 8th World Buffalo Congress, Caserta, Italy, October 19-22. pp. 1290-1293.
2. Qureshi, MS, 2007. 15<sup>th</sup> Int Cong Mediterranean Federation for Health and Production of Ruminants. 15-19, May. Pine Bay Resort Hotel, Kusadasi, Turkey.
3. Qureshi, M.S, G. Habib, 2008. Minerals intake affects reproductive physiology and milk production in dairy buffaloes. First Symposium in minerals and dairy products. Saint-Malo, France. October 1-3.
4. Qureshi, M.S., 2008. Dairy Farms and Farmers – Social Norms and Training Needs. Proc. 13th Animal Science Congress of AAAP Societies. Hanoi, Viet Nam, Sept., 22-26, pp. 582.
5. Qureshi, M.S., 2008. Socio-economic status of peri-urban dairy farms in Pakistan. Prof. IntConf Dairy Prod. Pp. 215-217. Nov 3-4.



6. Qureshi, M.S., 2003. Integración de las cuestiones de la seguridad alimentaria en la investigación agrícola. Organisation Des Nations Unies Pour L'alimentation Et L'agriculture. Rome. . (Contributed in preparation of the draft report).
7. 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. 6th Asian Buffalo Cong. 17-30 Oct. Lahore.
8. S Khan and MS Qureshi, 2009. Pregnancy affects lactation in dairy buffaloes. 6th Asian Buffalo Cong. 17-30 Oct. Lahore.
9. Mushtaq, A., MS Qureshi, S Khan, G Habib, ZA Swati, S Rahman, 2009. Body condition (BCS) regulates milk yield (MY) and composition (MC) in dairy animals. 6th Asian Buffalo Cong. 17-30 Oct. Lahore.
10. Qureshi, M.S., A Mushtaq, S Khan, G Habib, ZA Swati and SS Afridi, 2010. Effect of body condition and pregnancy on milk yield and composition in crossbred dairy cattle under tropical conditions. 6th IntConf Egyptian SocExpBiol, 27 Feb - 4 March. Minoufiya University, EGYPT.
11. Mushtaq, A. and MS Qureshi, 2010. Effect Of Management Practices On Milk Composition In Dairy Buffaloes. Int Workshop On Industrial Biotechnology. July 3-4, Alexandria, Egypt.
12. Qureshi, M.S., 2011. Scope of Livestock Sector of Pakistan, the post-flood scenario. International Conference on flood 2010. Feb 23-24, National University of Science and Technology, Islamabad.
13. Qureshi, MS, 2011. Flood 2010 - Losses and future scope of the KP Dairy sector. Int Workshop On Floods in Pakistan-2010, 12 March. Pak Engg Cong, Lahore.
14. Khan, R and MS Qureshi, 2011. Natl Workshop on Env Toxic Health. 8-09 March
15. [Qureshi, MS, 2011](#). 14th World Cong Controversies in ObstGynInfert (COGI™). Paris, France. P-55, 17-20 November.
16. [Qureshi, MS, 2011](#). 15th World Congress on Controversies in Obstetrics, Gynaecology and Infertility, December 8-11, 2011, Sayna Hainan, China (oral presentation).
17. [Qureshi, MS, 2011](#). Keep Dairy Animals Stress-Free For Better Profits. Int Workshop Dairy Sci Park, (Nov 21-23). AgricUniv, Peshawar. Abstract Book, BS-85.
18. Qureshi, MS, 2012. Dietary manipulations for enhancing cardio-protective fatty acids in the milk of dairy cows. 1st Biotechnology World Congress, Dubai, UAE. Feb 14-15. Accepted.
19. Qureshi, M.S., S. Khan, N.A. Khan and K.B. Marwat, 2012. "Dairy Goat – a potential candidate of the Dairy Science Park Peshawar, Pakistan" 1st Asia Dairy Goat Conference, Kuala Lumpur, 9-12 April, Universiti Putra Malaysia.
20. Attended regional consultative meeting on assessment of diversity of veterinary services (public and private sector) in SAARC countries at PARC Islamabad from 17 to 18 July, 2012.
21. Qureshi MS, M Inam, S Khan, P Chenoweth, A Sultan and N Imtiaz, 2012. [Effect of Vitamin C and Electrolytes Supplementation on Exotic and Local Poultry Semen Quality Under Thermal Stress in Pakistan](#). 8th Biennial Conference of the Association for Applied Animal Andrology, 2012 - Vancouver, Canada.
22. Qureshi MS, TA Azeemi, 2012. Dietary manipulations for enhancing cardio-protective fatty acids in the milk of dairy cows. [International Conference on Applied Life Sciences](#). September, 10-12, Konya, Turkey.
23. Khan, S., N.A. Khan, G. Habib, M.S. Qureshi & 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, 9–12 April 91-92.
24. Qureshi, M.S., S. Khan, N.A. Khan & K.B. Marwat, 2012. Dairy Goat – a Potential Candidate of the Dairy Science Park, Peshawar, Pakistan. [Proceedings of the 1st Asia Dairy Goat Conference](#), Kuala Lumpur, Malaysia, 9–12 April. 201-203.
25. Khan S, A Sultan, N Chand, M Mushtaq, Rafiullah and MS Qureshi, 2012. Garlic (*Allium sativum*) Modulated Serum Cholesterol Level and Improved Immune Status and Carcass Quality of Meat Type Birds. *Proc. The 15th AAAP AnimSci Cong*, 26-30 Nov, Thammasat University, Rangsit Campus, Thailand. 1042-1046.

26. Qureshi MS, K Khan, A Rahman, 2013. Detection of antibiotics residues in beef produced at Peshawar, Pakistan. [The 10<sup>th</sup> World Buffalo Congress](#), Thailand.
27. Qureshi MS, 2013. [Utilization of local livestock species for food production in the northern Pakistan](#). 5<sup>th</sup> International Congress of Integrative Zoology. Beijing, China. 25-28 June.
28. Qureshi MS, Qureshi IU, 2013. Scope for biological sensing technologies in meat production and export in northern Pakistan. 1st International Conference on Sensing for Industry, Control, Communication & Security Technologies. June 24-26. University of Karachi.
29. Qureshi MS, et al, 2014. Int Livestock, Dairy Poultry Cong. PVMA, Aiwan-i-Iqbal, Lahore.
30. Tanweer AJ, N. Chand, U Saddique, CA Bailey, S KHAN, MS Qureshi and A Sultan, 2014. *Fourth Mediterranean Poultry Summit of the WPSA*, Beirut, Lebanon. 2-5 Sept.
31. Khan I, et al, 2014. Proc. *Joint ISNH /ISRP IntConf/ 30<sup>th</sup> Biennial ConfAustSocAnim Prod*. Vol 30, pp.97. Canberra, Australia. 8-12 Sept.
32. Qureshi MS, 2015. Recent advances in Nutrition- Reproduction Interactions in Dairy Animals. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore.
33. Wahab A, H Khan, MS Qureshi, M Younas and S Khan, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore. Pp 100.
34. H Khan, A Wahab, MS Qureshi, S Ahmad, M Younas and S Khan, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore. Pp 86.
35. Khan IM, et al, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore.
36. Khan A, et al, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore.
37. Khan I, Qureshi MS et al, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore.
38. Khan I, Qureshi MS et al, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVAS Lahore.
39. Ghaffar A, MS Qureshi et al., 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVAS Lahore.
40. Khan H, Qureshi MS et al, 2015. [IntSymp Dairy AnimReprod](#). March 30-31, UVASLahore.
41. Qureshi MS, 2015. [8th Asian Buffalo Congress](#). Istanbul, Turkey, 21-25 April.
42. Khan A, et al, 2015. [8th Asian Buffalo Cong](#). Istanbul, Turkey, 21-25 April.
43. Qureshi MS, 2015. [Int Livestock Dairy Poultry Cong](#). Feb 27-28. Lahore, Pakistan.
44. Qureshi MS, 2015. Led Working Group on Biorisk Management of the Dairy Science Park to attend a meeting with US counterparts and the [Third int One Health Cong](#), 15-18 March, Netherlands.
45. Inam M, et al, 2015. [7th IntSympIntegZool](#), 25-28 Aug 2015. ISZS, Xi'an, China.
46. Khan I and MS Qureshi, 2016. Crossbred cows respond differently from Holstein Frisian and *BosIndicus* to heat stress under various Accepted for oral presentation, ID FO0100; TASP 2016 conference in Bangkok, Thailand. July 26-29.
47. Shah K, US Khattak, MS Qureshi, 2016. Comparative efficacy of commercially available antimicrobials against local isolates of *Mycoplasma mycoides* sub specie Capri.
48. Shah MK, et al. 21<sup>st</sup> Int Org Mycoplasmology Congress. Queensland University of Technology, Queensland, Australia. 3 – 7th July (The paper won an award of US\$ 1000).
49. Qureshi MS, 2016. Led Dairy Science Park Delegation and presented paper in Consultative workshop of DSP team with Sandia National Laboratories USA for Pakistan Biorisk Curriculum Development. Dubai; May 21-25, 2016.
50. Basit A, A Rahman, S Ahmad, MS Qureshi, SM Suhail, HU Din, 2016. Annual International Conference on Advances in Veterinary Science Research (VETSCI). Singapore. 26-27 Sep.
51. Khan, NA Khan, N Ahmad, MS Qureshi, 2017. Screening of traditional and novel spring maize cultivars for silage production. Int Livestock Nutrition Summit, Feb 21-22, 2017. UVAS Lahore.
52. Nasrullah PR, MA Kakar, Azizullah, MS Qureshi and M Direk, 2017. CRIMEAN CONGO HEMORRHAGIC ..... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey, Nov 1-5](#).
53. Qureshi SS, IH Qureshi, S Khan and MS Qureshi, 2017. DAIRY SCIENCE PARK– EMPLOYMENT ..... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey, Nov 1-5](#).
54. Chand N, F Wahab, MS Qureshi and RU Khan, 2017. EFFECT OF FENUGREEK SEED SUPPLEMENTATION... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey, Nov 1-5](#).
55. Qureshi SN, R Ali, SS Qureshi, M Ahmed, IU Qureshi, 2017. DETERMINANTS OF LABOR FORCE ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey, Nov 1-5](#).
56. Khan MH, SM Suhail, MS Qureshi, HU Din I Ahmed, I Ahmed and K Khan, 2017. EFFECT OF YEAST CULTURE ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey, Nov 1-5](#).

57. Khan K, SM Suhail, R Khan, S Khan, MS Qureshi, and I Ahmad, 2017. STUDY ON GROWTH ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
58. Ali N, ZU Din, M Sajid, S Khan, MS Qureshi, S Ullah, M Nabi, W Ali, 2017. CURRENT QUINOLONES SHOW ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
59. Kakar MA, S Durrani, SA Baloch, Azizullah, MS Qureshi, PR Nasrullah and M Direk, 2017. BALOCHISTAN ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
60. Kakar MA, S Durrani, SA Baloch, Azizullah, MS Qureshi, PR Nasrullah and M Direk, 2017. ROLE OF BIOTECHN ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
61. Durrani S, SA Baloch, PR Nasrullah, MA Kakar, Azizullah, MS Qureshi, M Direk, 2017. ROLE OF WOMEN IN ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
62. Khan N, NA Khan, N Ahmad, MS Qureshi, MNM Ibrahim, 2017. EFFECT OF SPRING MAIZE GENOTYPES ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
63. Khan N, NA Khan, N Ahmad, MS Qureshi and MNM Ibrahim, 2017. SCREENING OF TRADITIONAL AND ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
64. Sahibzada S, MS Qureshi, 2017. ANTIMICROBIAL RESISTANCE IN THE FOOD CHAIN IN DEVELOPING ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.
65. Qureshi MS, M Direk, IUH Qureshi, SN Badshah, A Yousaf, DAIRY SCIENCE PARK, CONNECTING ... 4<sup>th</sup> [IntConfIndustExhibDairy Sci Park, Konya, Turkey](http://dairysciencepark.org.pk/), Nov 1-5.

**Conferences/workshop/organized <http://dairysciencepark.org.pk/>**

- [International Workshop on Dairy Science Park](#) (Nov 21-23, 2011)
- [Second International Workshop on Dairy Science Park](#), Nov 18-20, 2013
- [Third International Workshop on Dairy Science Park](#), Nov 16-18, 2015
- [Fourth International Workshop on Dairy Science Park](#)(Turkey), Nov 1-5, 2017

**8. RESEARCH SCHOLARS SUPERVISED:**

**PhD, Major supervisor (completed)**

1. Sohail, SM, 2007. Genetic and phenotypic evaluation of dairy buffaloes for performance traits.
2. Mushtaq, Anila, 2009. Effect of physiological states on milk composition in dairy animals under subtropical conditions.
3. Ikramullah Khan, 2014. Evaluation of different stress indicators associated with reproductive cyclicity of crossbred dairy cows.
4. Ihsanullah, 2016. Effect of stress on reproductive physiology of crossbred cattle under subtropical conditions of northern Pakistan. AUP (Major Supervisor).
5. ShakirUllah, 2016. Association of oxidative stress with GnRH concentrations in crossbred dairy cows. (Major Supervisor).

**PhD, Member supervisory committee (completed)**

1. Khan, Sarzamin, 2007. Lactation – Reproduction Interaction in dairy buffaloes. AU Peshawar.
2. Chand, Nyla, 2008. Effect of *Berberis lycium* on the performance, serum lipid profile, immunity and liver function in broiler chicks. AgricUniv Peshawar.
3. Tanveer, AJ, 2011. Effect of administration of different levels of methanolic extract of Peganumharmala on hematology, immunity and serum biochemistry of broiler chicks.
4. Sultan, Shoaib, 2016. Dietary supplementation of protected fats and Vitamin E to improve semen quality in Beetal bucks. (Member).
5. Muhammad Abubakar, 2017. Epydynamics and molecular characterization of peste des ruminants virus. PARC Institute of Advances Studies in Agriculture, UAP. Co Supervisor; Major supervisor Aamir Ben Zahur.
6. Saima Dil, 2018. PARC Institute of Advances Studies in Agriculture, UAP. Co Supervisor; Major supervisor Aamir Ben Zahur.
7. Muhamamd Inam. Stress productivity interaction in broilers. Research in progress. Member



8. Kamran Khan. Meat production potential of rabbits. Research in progress. Member
9. Khan, Nadar. Optimizing the nutritional value of maize silage in relation to milk production and quality of dairy cows. major NA Khan AN; member
10. Khan, M Tahir. Evaluation of fungal treated roughages for beef production in the subtropical conditions of KP. PhD Synopsis, Major Supervisor Prof Nazir Ahmad
11. Asadullah. Studies on epidemiology, and molecular characterization of mycobacterium in large ruminants in central zone of KP. Pathology, Major UmerSadique; member
12. Khalil, Zia ur Rahman. Postpartum reproductive cyclicality and serum biochemical profiles of Achai cattle under farming practices in the Northern Pakistan. Major Supervisor DrAbdur Rahman.
13. Lal, Chaman (Late). PIASA, NARC, Islambabad, Major SMH Andrabi.

#### **PhD ongoing**

1. Najm us Saqib. Evaluation of peri-urban buffaloes dairy farming for economic traits and stress factors at Peshawar. (Major Supervisor).
2. Iftikhar Ahmad (Coursework completed). Effect of stress on milk quality in dairy cattle and buffaloes. (Major Supervisor).
3. Younas Muhammad (Coursework completed). Investigation into genetic base of fertility in crossbred dairy cattle. (Major Supervisor).
4. Sirajud Din. Studies on meat quality of ruminants. Research in progress. Member

#### **MSc (Hons) Major supervisor (Completed)**

1. Iftikhar Alam, 2006. Comparative efficiency of different extenders for preserving goats's semen.
2. Raj Wali Khan, 2010. Evaluation of quality of drinking water used at dairy farms in District Peshawar.
3. M Obaidullah Qureshi, 2010. Reproductive cyclicity of cattle under tropical conditions.
4. Daulat Khan, 2010. Effect of seasons and extenders on semen quality in goats.
5. Usman, M., 2010. Study of the impact of Animal Husbandry In-service Training Institute on the livestock performance in three districts of NWFP.
6. Kadwal, MH, 2011. The status of blood metabolites and hormonal profile in crossbred cattle manifesting various reproductive disorders under field conditions.
7. Ali, Amjad, 2011. Changes in blood metabolites in various management conditions and their association with conception in local dairy cows.
8. BakhtDaraz Khan, 2011. Milk fat levels under different storage conditions and physiological states in dairy animals.
9. Munawar Shah, 2011. Effect of age, lactation and feed combinations on milk composition and fertility in various breeds of dairy cattle and buffaloes.
10. Tawheed Ali Azeemi, 2011. Effect of protected fats on milk fatty acids, milk yield and ovarian activities of crossbred cattle under subtropical conditions of Peshawar.
11. Fowadur Rahman, 2012. Replacement of animal proteins sources in semen extenders with plant proteins in various cattle breeds.
12. Gulfam, M. 2012. Effect of fascioliasis on health and productive parameters in crossbred cattle.
13. Hafiz Abdul Majeed, 2012. Semen quality of Beetal bucks. As influenced by supplemented vitamine E.
14. Shah Nawaz, 2012. Relationship of bovine tuberculosis in cattle, buffaloes and human populations in District Peshawar.
15. FidaMuhamamd Khan, 2012. Study on seroprevalence of bovine tuberculosis and its association with various risk factors in cattle and humans in district Peshawar.
16. Hafiz ur Rahman, 2012. Effect of dietary zinc on semen traits and seminal plasma biochemical composition in Beetal bucks.
17. Muhammad Zahoor Khan, 2013. Molecular characterization of Brucella abortus and B. mellitensis through multiplex PCR in cattle and humans in district Karak.

18. ZarlishWahab, 2014. Prevalence of hydatid cysts in cattle, buffaloes and human populations in District Peshawar.
19. Muambar Shah, 2014. Effect of heat stress, body condition score and ascorbic acid supplementation on semen traits of different breeds of bull.
20. Abdul Ghaffar Khan, 2014. Association of testicular growth with semen quality, growth pattern and docility in various cattle breeds. Major supervisor
21. Hamayun Khan, 2014. Effect of dietary supplementation of flaxseed on semen quality and production in different dairy cattle breeds under subtropical conditions. Major Supervisor.
22. Najam us Saqib, 2014. Association of changes in postpartum metabolism and stress parameters with resumption of ovarian cyclicity in exotic dairy cattle. Major Supervisor.
23. Muhammad Riaz, 2016. Relationship of aflatoxin levels with growth rate of calf under field conditions. Major Supervisor

**MSc (Hons), Co-supervisor (Completed) 61**

**MSc Hons ongoing, Member Supervisory Committee: 21**

## **9. RESEARCH PROJECTS**

### **Completed**

1. *Principal Investigator*, Improvement of Artificial Insemination Technology in Dairy Buffaloes in NWFP – Cost 0.3 million, ARF-Pak. Agric. Res. Council, Islamabad. (2001-2004) (completed)
2. *Principal Investigator*, Genetic Improvement of Dairy Goats in NWFP. Cost 0.2 million, CDYST- Pak. Sci. Foundation Islamabad (2004-2006). (completed)
3. *Project Component Supervisor*, Livestock Component, STRC Project. Cost Rs.167 million. Higher Education Commission of Pakistan, Islamabad.
4. *Project In charge*, Research and developments for improvement in hides and skins in NWFP (1994 to 1998).
5. *Principal Investigator*, Effects of season and extenders on goats's semen integrity and fertility. Cost 1.1 million, Pak. Sci. Foundation Islamabad (2007-2009).
6. *Co-Principal Investigator*, Reproductive characteristics of beetal male goats as influenced by the dietary supplementation of alphetocopherol. HEC Research Grant to DrRifatullah Khan, Assistant Professor. Rs.0.50, 2013-14.

## **10. RESEARCH PUBLICATIONS**

### **A. Impact Factor Journals**

1. Qureshi MS, 1995. [Conventional Buffalo Farming System in NWFP Pakistan](#). *Buffalo Bulletin*, June. 14 (2): 38-41.
2. Qureshi MS, F Malik and M Amjad and SA Khan, 1997. [Incidence and chemotherapy of gastrointestinal nematodes in dairy buffaloes in the north-western valley of Pakistan](#). *Buffalo Bulletin*, 16 (3): 56-59.
3. Qureshi M.S, H.A. Samad, G. Habib., R.H. Usmani, M.M. Siddiqui, 1999. [Study on factors leading to seasonality of reproduction in dairy buffaloes. I. Nutritional factors](#). *Asian-Aust. J. Anim. Sci*, 12 (7): 1019-1024.
4. Qureshi M.S.; G. Habib., H.A. Samad, L.A.Lodhi, R.H. Usmani, 1999. [Study on factors leading to seasonality of reproduction in dairy buffaloes. II.Non-nutritional factors](#). *Asian Aust. J. Anim. Sci*. 12 (7): 1025-1030.
5. Qureshi MS, G Habib, G Nawab, MM Siddiwqui, N Ahmad and HA Samad, 2015. [Milk Progesterone Profiles in Various Reproductive States in Dairy Buffaloes under Field Conditions](#). *Proc. Natl. Sci. Counc. ROC(B)* Vol. 24, No. 2, 2000. pp. 70-75.
6. Qureshi M.S., G. Habib, H.A. Samad, M.M. Siddiqui, N.Ahmad, M. Syed, 2002. [Reproduction-nutrition relationship in dairy buffaloes. I. Effect of intake of protein, energy and blood metabolites levels](#). *Asian-Aust. J AnimSci*, 15(3): 330-339.

7. Chand N., F.R.Durrani, M.S.Qureshi, Z.Durrani, 2007. [Role of Berberis lycium In Reducing Serum Cholesterol In Broilers](#). *Asian Aust J. Anim. Sci.* 20 (4): 563-568.
8. Qureshi M.S., S. Khan and N. Ahmad, 2007. [Pregnancy depresses milk yield in dairy buffaloes](#). *Ital. J. Anim. Sci.*, 6 (Suppl. 2): 1290-1293.
9. Qureshi M.S., N.Ahmad, 2008. [Interaction among calf suckling, use of oxytocin, milk production and reproduction in dairy buffaloes](#). *Animal Reproduction Science*, 106: 380-392. doi:10.1016/j.anireprosci.2007.05.019.
10. Khan S, MS Qureshi, N Ahmad, M Amjed, FRDurrani, M Younas, 2008. [Effect of Pregnancy on Lactation Milk Value in Dairy Buffaloes](#). *Asian Aust. J. Anim. Sci.* 21(4): 523-531.
11. Khan S, MS Qureshi, N Ahmad, M Amjed, M Younas, 2009. [Feed Supplementation Prevents Decline in Milk Progesterone Levels associated with Post-conception Production Stress in Dairy Buffaloes](#). *Tropical Animal Health and Production*, 41: 1133-1142.
12. Khan S, MS Qureshi, G. Habib, A Mushtaq, Ihsanullah, S Ahmad, SM Sohail and SS Afridee, 2009. [Effect of pregnancy on lactation performance in dairy buffaloes](#). *Pak J Zool.*, Sup. No.9. 55-60.
13. 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.
14. Qureshi, M.S., 2009. [Nutritional and Management Support to Reproduction in Dairy Buffaloes](#). *Pak J Zool*, Sup. 9: 895-909.
15. Khan, S., MS Qureshi, SM Shah, SM Sohail, Ihsanullah, A. Rahman, 2009. [Effect of pregnancy on milk yield and composition in buffaloes](#). *Pak J Zool, Sup.9-II*: 669-673. Cited 1
16. Qureshi MS, A Mushtaq, S Khan, G Habib, ZA Swati, 2010. [Variation in milk fatty acids composition with body condition in dairy buffaloes \(\*Bubalus bubalis\*\)](#). *Asian Aust J AnimSci*, 23: 340-345. Cited 1
17. Ullah I, A Iqbal, I Ali, I Munir, E Ali, SJ Shah, N Ullah, SAK Bangash, ZA Swati and MS Qureshi, 2011. [Role of dietary supplementation in the protein content of bovine milk](#). *African J Biotech*, 10 (18), 3624-3627.
18. Chand N, FR Durrani, MS Qureshi, DMuhammad, Z Rehman, 2011. [Protective effects of milk thistle \(\*Silybummarianum\*\) against aflatoxin B<sub>1</sub> in broiler chicks](#). *Asian Aust J Anim Sci.* 24: 7 : 1011 – 1018. doi: 10.5713/ajas.2011.10418.
19. Khan S, MS Qureshi, I. Ahmad, SM Shah, 2011. [Milk Composition and Yield Changes with the Advancing Pregnancy in Dairy Buffaloes \(\*Bubalus bubalis\*\)](#). *Turkish J Vet AnimSci*, 2011; 35(6): 375-380. doi:10.3906/vet-0811-15.
20. Hussain T, M Arshad, I Jan S Khan, H Sattar, MS Qureshi, 2011. [In Vitro Screening Of Ten Pakistani Plants For Their Antibacterial Activity](#). *Pakistan Journal of Botany*, 43 (1): 531-538.
21. Lutfullah G, T Akhtar, I Ahmad, MMAK Khattak, FR Durrani and MS Qureshi, 2011. [Effects of Probiotic on the Intestinal Morphology with Special Reference to the Growth of Broilers](#). *J ChemSoc Pak*, 33 (1), 129-133.
22. Khan S, MS Qureshi, M Younas, Rafiullah and M Inam, 2012. [Modelling And Management Of Post-Conception Decline In Milk Yield Of Dairy Buffaloes](#). *J Anim Plant Sci*, 22 (2 Suppl.): 5-11.
23. Aftab M, A Rahman, MS Qureshi, S Akhter, U. Sadique, A Sajid1 and S. Zaman, 2012. [Level Of Salmonella In Beef Of Slaughtered Cattle At Peshawar](#). *J Anim Plant Sci*, 22 (2 Suppl.): 24-27.
24. Sajid A, Z I Chaudhary, U Sadique, A Maqbol, MA Anjum, MS Qureshi, ZU Hassan, M Idress, M Shahid, 2012. [Prevalence Of Goatpox Disease In Punjab Province Of Pakistan](#). *J Anim Plant Sci*, 22(2Suppl.): 28-3.
25. Qureshi MS, 2012. [Stress Impedes Reproductive Physiology Of Dairy Animals Under Subtropical Conditions](#). *J Anim Plant Sci*, 22 (2 Suppl.): 75-78.
26. Qureshi SS, M Jamal, MS Qureshi, M Rauf, BH Syed, M Zulfiqar and N Chand, 2012. [A Review Of Halal Food With Special Reference To Meat And Its Trade Potential](#). *J Anim Plant Sci*, 22 (2 Suppl.): 79-83.

27. Sadique U, ZI Chaudhry1, MY Rana and AA Anjum, MS, M Idrees ZU Hassan, M Mushtaq, A Sajid, 2012. [Clinico-pathological study of Contagious Caprine pleuropneumonia \(CCPP\) in Small Ruminants](#). *J Anim Plant Sci*, 22 (2 Suppl.): 2012, Page: 45-50.
28. Khan S, N Ishikawa, T Hattori, A Tajima, MS Qureshi, 2012. [Effect Of Pregnancy On Body Hair Growth In Dairy Cattle](#). *J Anim Plant Sci*, 22 (2 Suppl.): 2012, Page: 87-91.
29. Usman T, G Guo, SM Suhail, S Ahmed, L Qiaoxiang, MS Qureshi, Y Wang, 2012. [Performance Traits Study Of Holstein Friesian Cattle Under Subtropical Conditions](#). *J Anim Plant Sci*, 22 (2 Suppl.): 92-95.
30. Khan R, MS Qureshi, A Mushtaq, Ghufanullah, A Naveed, 2012. [Effect Of Quality And Frequency Of Drinking Water On Productivity And Fertility Of Dairy Buffaloes](#). *J Anim Plant Sci*, 22 (2 Suppl.): 96-101.
31. Qureshi MS, S Jan, A Mushtaq, I Rahman, M Jan, Ikramullah, 2012. [Effect of age on milk fatty acids in dairy buffaloes](#). *J Anim Plant Sci*, 22 (2 Suppl.): 108-112.
32. Rehman ZU, MU Samo, TA Qureshi, S Khan, MS Qureshi, FA Khan, S Bahadadr, 2012. [Studies On The Freezability Of Kundhi Buffalo Bull Semen](#). *J Anim Plant Sci*, 22 (2 Suppl.): 18-23.
33. Khan RU, S Naz, Z Nikousefat, V Tufarelli, M Javdani, MS Qureshi, V Laudadio, 2012. [Potential applications of ginger \(Zingiberofficinale\) in poultry diets](#). *World's Poultry Sci J*, 68, 245-252. doi: 10.1017/S004393391200030X.
34. Tanweer AJ, N Chand, S Khan, MS Qureshi, A Akhtar, 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 Plant Sci*, 22 (2): 264-267.
35. Mushtaq A, MS Qureshi, S Khan, G Habib, ZA Swati, SU Rahman, 2012. [Body condition score as a marker of milk yield and composition in dairy animals](#). *J Anim Plant Sci*, 22 (Sup 3): 169-173.
36. Usman T, G Guo, SM Suhail, MS Qureshi, Y Wang, 2012. [Estimation of genetic parameters of reproductive and milk yield traits using multiple-trait animal model in Holstein under subtropical conditions](#). *J Anim Vet Adv*, 11 (17): 3132-3139.
37. Tomovska J, S Presilski, SPN Gjorgievski, N Tomovska, MS Qureshi and NP Bozinovska, 2013. [Development of a spectrophotometric method for monitoring angiotensin-converting enzyme in dairy products](#). *Pak Vet J*, 34 (1): 14-18.
38. Qureshi MS, D Khan, A Mushtaq, SS Afridi, 2013. [Effect of extenders, post-dilution intervals and seasons on semen quality in dairy goats](#). *Turkish J Vet Anim Sci*. 37: 147-152. DOI: 10.3906/vet-1110-24.
39. Khan MT, NA Khan, M Bezabih, MS Qureshi and A Rahman, 2013. [The nutritional value of peanut hay \(Arachishypogaea L.\) as an alternate forage source for sheep](#). *Trop Anim Health Prod*. 45:849–853, DOI 10.1007/s11250-012-0297-8.
40. Tanweer AJ, N Chand, S Khan, A Sultan, MS Qureshi, A Akhtar, M Inam and Rafiullah, 2013. [Association of Peganumharmala L. Supplementation with lipid Profile and its Economic Benefit in Broiler Production](#). *Pak Vet J*, 33(3): 313-316.
41. Rahman FU, MS Qureshi and RU Khan, 2014. [Effect of Soybean Based Extenders on Sperm Parameters of Holstein-Friesian Bull During Liquid Storage at 4°C](#). *Pakistan J. Zool.*, 46 (1): 185-189.
42. Ali T, A Rahman, MS Qureshi, MT Hussain, MS Khan, S Uddin, M Iqbal and B Han, 2014. [Effect of management practices and animal age on incidence of mastitis in Nili Ravi buffaloes](#). *Trop Anim Health Prod*, 46(7):1279-85. Doi. 10.1007/s11250-014-0641-2.
43. Rahman HU, MS Qureshi, R Khan, 2014. [Influence of dietary zinc on semen traits and seminal plasma antioxidant enzymes and trace minerals of Beetal bucks](#). *Reproduction in Domestic Animals*, 49 (6), 1004–1007; doi: 10.1111/rda.12422.
44. Rahman A, MY Khan, OSadiq, MS Qureshi, Nr Ahmed, N Shaheen, S Uddin, T Ali. [Washing Of Animal Body Coat Effects On Salmonella Load On Hide And In Postslaughter Carcasses](#). *Sylwan*, 159(3): 400-415.



45. Qureshi MS, A Mushtaq, S Jan and IU Rahman, 2015. [Effect of Age and Lactation on Milk Fatty Acid Profile in Dairy Buffaloes](#). *Buffalo Bulletin*, 34 (3): 275-283.
46. Majid A, MS Qureshi and R Khan, 2015. "[In vivo adverse effects of high dose of alpha-tocopherol on the semen quality of male bucks](#)". *Journal of Animal Physiology and Animal Nutrition*, 99 (5): 841–846. DOI: 10.1111/jpn.12284.
47. Wahab A, H Khan, S Ahmad, MS Qureshi, Y Muhammad, S Khan, U Sadique and MK Shah, 2016. [Biochemical Profile of Local Rabbits \(\*Oryctolagus cuniculus\*\) During Successful Pregnancy Under Backyard Production System](#). *Pakistan J. Zool*, 48 (3):625-630.
48. Chand N, H Faheem, RU Khan, MS Qureshi, IA Alhidary and AM Abudabos, 2016. [Anticoccidial effect of mananoligosaccharide against experimentally induced coccidiosis in broiler](#). *EnvSci Pollution Res*, 23 (14): 14414–14421. DOI: 10.1007/s11356-016-6600-x.
49. Khan I, MS Qureshi, S Akhtar, I Ali and Ghufuranullah, 2016. [Fertility Improvement in Cross-Bred Dairy Cows Through Supplementation of Vitamin E as Antioxidant](#). *Pakistan Pak J. Zool.*, 48(4): 923-930.
50. Khan I, MS Qureshi, S Ahmad, S Akhtar, H Khan and Ghufuranullah, 2016. [Effect of Lactation and Breed on Reproductive Cyclicity Under Various States of Oxidative Stress in Dairy Cattle Breeds](#). *Pak J. Zool.*, 48(5): 1431-1441.
51. Qureshi MU, MS Qureshi, R Khan, A Rahman, SM Sohailb, A Ijaz, I Ahmad, S Ahmad, M Shoaib and A Basit, 2016. [Relationship of blood metabolites with reproductive cyclicity in dairy cows](#). *Indian J Anim Res*. 50(3): 338-348.
52. Rehman H, IA Alhidary, RU Khan, MS Qureshi, U Sadique, H Khan, and SH Yaqoob, 2016. [Relationship of Age, Breed and Libido with Semen Traits of Cattle Bulls](#). *Pak J. Zool.*, 48 (6), 1793-1798.
53. Khan H, M Khan, MS Qureshi, S Ahmad, A Gohar, H Ullah, F Ullah, A Hussain, P Khatri, SSA Shah, HRehman and A Khan, 2017. [Effect of Green Tea Extract \(\*Camellia sinensis\*\) on Fertility Indicators of Post-Thawed Bull Spermatozoa](#). *Pakistan J Zool*, 49 (4): 1243-1249.
54. Ihsanullah, MS Qureshi, SM Suhail, S Akhtar, RU Khan, 2017. [Postpartum endocrine activities, metabolic attributes and milk yield are influenced by thermal stress in crossbred dairy cows](#). *Int J Biometeorol*, 61: 1561-69; DOI 10.1007/s00484-017-1335-z.
55. Khan S, Qureshi MS and RU Khan, 2017. [The Effect of vitamin E and Selenium on physiological, hormonal and antioxidant status of Damani and Balkhi sheep submitted to heat stress](#). *Applied Biological Chemistry*, 60 (6): 585-590.
56. Chand N, S Naz, H Maris, RU Khan, S Khan and MS Qureshi, 2017. [Effect of Betaine Supplementation on the Performance and Immune Response of Heat Stressed Broilers](#). *Pak J Zool*, 49(5): 1857-1862.
57. Khan MZ, T Usman, U Sadique, MS Qureshi, MF Hassan, M Shahid and A Khan, 2017. [Molecular Characterization of \*Brucella abortus\* and \*Brucella melitensis\* in Cattle and Humans at the North West of Pakistan](#). *Pak Vet J*, 37(3): 360-363.
58. Rehman ZU, N Chand, RU Khan, S Khan and MS Qureshi, 2018., [An assessment of the Growth and Profitability Potential of Meat-Type Broiler Strains under High Ambient Temperature](#). *Pakistan J. Zool.*, 50(2), 429-435.

59. Saqib MN, MS Qureshi, RU Khan, 2018. [Changes in postpartum metabolites and resumption of ovarian cyclicity in primiparous and multiparous dairy cows](#). Applied Biological Chemistry. Applied Biol Chem, 61 (1): 107–111.
60. Khan IM, RU Khan, MS Qureshi, T Usman, A Khan, Z Ullah and H Rehman, 2018. [Cross Breeding Promotes Deterioration of Semen Quality in Cattle Bulls](#). Pakistan J. Zool. 50 (1): 97-103.
61. Abubakar M, AB Zahur, K Naeem, MA Khan and MS Qureshi, 2018. [Field and Molecular Epidemiology of Peste des Petits Ruminants in Pakistan](#). Pakistan J. Zool., 50 (2): 559-566.
62. Ullah A, US Khattak, S Ayaz, MS Qureshi, I Khan, IU Jan, I Khattak, R Taj, S Nigar, NU Khan, MA Khan and ML Sohail, 2019. [Bovine Tuberculosis \(bTB\): Prevalence and Associated Risk Factors in Large Ruminants in the Central Zone of Khyber Pakhtunkhwa, Pakistan](#). Pak J Zool, 51(1), 127-133.

## **B. HEC recognized journals: 22 Link**

### **C. Books published**

1. Khan, S and M.S. Qureshi, 2009. [Lactation-Reproduction Interaction in Dairy Buffaloes](#). VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, DudweilerLandstr. 99, 66123, Saarbruecken, Germany. ISBN-10: 3639144449.
2. Mushtaq, Anila and M.S. Qureshi, 2010. [Milk Fatty Acids of Dairy Animals](#). LAP Lambert Academic Publishing AG & Co. KG, DudweilerLandstr. 99, 66123 Saarbrücken, Germany, www.lap-publishing.com ISBN 978-3-8383-7659-2.
3. Chand, Naila; MS Qureshi and FR Durrani, 2010. [Berberis lyceum reduces serum cholesterol in broilers](#). VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, DudweilerLandstr. 99, 66123, Saarbruecken, Germany. ISBN: 978-3-639277494.
4. Suhail, SM; MS Qureshi, 2010. [Genetic Evaluation of Dairy Buffaloes](#). VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, DudweilerLandstr. 99, 66123, Saarbruecken, Germany. ISBN: 978-3-63930260-8.
5. Qureshi, M.S. and R. Khan, 2011. [Heavy metals in drinking water of dairy buffaloes](#). VDM Verlag, Germany. ISBN: 978-3-639-32799-1.
6. Jan, S., A Mushtaq and MS Qureshi, 2011. [Blood Metabolites Effect Milk Fatty Acids in Dairy Buffaloes](#). LAP Lambert Academic Publishing AG & Co. KG, DudweilerLandstr. 99, 66123 Saarbrücken, Germany, www.lap-publishing.com ISBN 978-3-8443-2717-5.
7. Kadwal, MH and Qureshi, MS, 2011. [Blood metabolites support oestruscyclicity in dairy cows](#). VDM Verlag, Germany. ISBN: 978-3-639-36053-0.
8. Qureshi, M.S., 2011. Reproductive Physiology of Domestic Animals. Higher Education Commission, Islamabad. ISBN 978-969-417-166-1.
9. Qureshi, MS, 2011. [Proceedings, International Workshop on Dairy Science Park](#) - Peshawar - Nov 21-23. Managing editor. Agricultural University, Peshawar. ISBN-978-969-422-001-7.
10. Khan, BD; R Khan and MS Qureshi, 2012. Effect of breed, physiological states and storage conditions on milk fat. *LAP Lambert Academic Publishing AG & Co. Germany*, ISBN 978-659-41786-3.
11. Rahman S, S Akhtar, MS Qureshi, 2012. [Meat potential and dressing percentage of sheep breeds](#). LAP Lambert Academic Publishing AG & Co. Germany, ISBN-13: 978-3846511985.
12. Qureshi MS 2013. [Proc, International Workshop on Dairy Science Park, 2013](#). UnivAgricPeshawar.
13. Azeemi TA and MS Qureshi, 2014. Dairy Cattle Science– Reproduction (Pashto and English). Pp300. NingarharUniversity, Jalalabad, Afghanistan.

### **D. Book Chapters**

1. Qureshi MS, 2012. [Breeding, Management and Environmental Issues at Peri-Urban Dairy Farms. In: Milk Production](#) - Advanced Genetic Traits, Cellular Mechanism, Animal Management and

Health, NarongsakChaiyabutr (Ed.). InTech North America, Manhattan10010, New York, USA. ISBN: 978-953-51-0766-8. DOI: 10.5772/47904

2. Qureshi MS, TA Azeemi, 2012. [Dietary Manipulations for Enhancing Cardio-Protective Fatty Acids in the Milk of Dairy Cows](#). International Conference on Applied Life Sciences. Edited by Farhad Nejadkoorki, InTech, InTech North America, Manhattan10010, New York, USA. ISBN 978-953-51-0725-5. DOI: 10.5772/52498.

### Citations in impact factor journals

(ISI Web of Knowledge, Researcher ID/Author Identifiers: [C-7212-2008](#)); ORIC ID [0000-0002-1355-5924](#); Scopus ID: [7202876145](#)

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