



## Professor Muhammad Subhan Qureshi

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

**Position** [Dean](#), Faculty of Animal Husbandry and Veterinary Sciences, Khyber Pakhtunkhwa Agricultural University, Peshwar-25120, Pakistan/  
[Adjunct Professor](#), Charles Sturt University, Locked Bag 588, Wagga Wagga NSW 2678, Australia  
**Phone** Tel +92 91 9221028, Mobile +92 300 587 7933  
**Fax** +92 91 9216520  
**Email** [drmsqureshi@aup.edu.pk](mailto:drmsqureshi@aup.edu.pk); [mqureshi@csu.edu.au](mailto:mqureshi@csu.edu.au)  
**Dated birth** 20th March, 1959; Passport # CT4915391, NIC 17301-1519539-3



### PERSONAL/CAREER HISTORY

After graduating from the University of Veterinary and Animal Sciences, Lahore during 1982, Prof Qureshi joined the provincial Livestock Department as Veterinary Officer and was involved in semen processing, quality monitoring, farm management and veterinary research. In the meantime he joined the University again and completed MSc Hons and PhD degree in Animal Reproduction. He introduced herd health program for the peri-urban dairy farmers and investigated reproductive performance and health status of buffaloes and other food animals; preparation, implementation and monitoring of research and development programs and assistance to IUCN, WTO, SMEDA, FAO, Bank of Khyber, etc., in livestock development. Assistance was also provided to Inland universities in postgraduate research programs.

During 2005, Prof Qureshi joined the University of Agriculture, Peshawar as full professor and was raised to the status of Dean, Faculty of Animal Husbandry and Veterinary Sciences. Since then, has been involved in teaching Animal Reproduction and Livestock Management subjects to the graduate and postgraduate students. He has been supervising the technical, academic and financial matters of the Departments & preparing research and development proposals for improving teaching, research and industrial linkages. He has been member of administrative and academic bodies. He facilitated the establishment of the Livestock Trainers and Consultants, an NGO of young animal scientists. The scientist has successfully completed five research and development projects funded by the provincial and federal government.

Prof Qureshi has supervised 34 PhD/M Phil research projects and 18 are ongoing. He has got a good number of scientific publication comprising; 39 in impact factor journals, 18 HEC recognized, 9 books and 2 book chapters, in addition to about 100 popular articles on the internet engines, and printed press. He has been working as executive member/HEC representative on Pakistan Veterinary Medical Council and 14 bodies of various universities. He is also assisting 6 international bodies and member 14 journals as member editorial boards or reviewer. Thirteen national organizations are being assisted as member. Livestock Management Department, headed by Prof Qureshi, got recognized by the Natl Agric Edu Accred Council of Pakistan and two postgraduate programs were launched in Theriogenology and Pathology. He introduced the business incubation concept in the thesis research. Prof. Qureshi has been contributing as Dairy Expert in the Pak-Australia Dairy project. He worked as Visiting Professor at Charles Sturt University, Australia and continued as Adjunct Professor.

Prof Qureshi has advised two successive Chief Ministers of the province on judicial utilization of livestock resources in light of his findings under his doctoral thesis research reporting losses of

Rs.1043 billion per annum. The farmers were organized into Sarhad Dairy Farmers Association and linked with various development and scientific organizations. Farmers' problems were highlighted through scientific and popular articles. Livestock Investment Conference was organized in collaboration with Sarhad Chamber of Commerce and Industries on July 28, 2005.

Prof Qureshi organized the International Workshop on Dairy Science Park -2011 as Chief Organizer with the cooperation of various agencies attended by 450+ delegates, with 103 technical papers and exhibition by 10 business companies. The abstracts and recommendations have been published in a proceedings book and full length papers were published in an impact factor Journal. The Second workshop scheduled for 2013, will focus on developing enterprising capacity of livestock and poultry farmers of Pak-Afghan Region for meat production.

Presently Prof Qureshi is organizing a working team for converting the livestock and poultry meat production setup in the province into an export base for Halal Food Market under the Dairy Science Park. The provincial government, TIKA-Turkey, Pak-US S&T project, Agribusiness Support Fund, Relief International and KPCCI are assisting in implementation of the plan. The plan is supposed to enable the outgoing graduates in establishing their own entrepreneurs, sharing the public sectors responsibility of employment generation and food security. This will supplement the medium sized livestock farmers in the region through business support initiatives helping the in enhancing farm income and producing surplus food for export to the International Halal Food Market.

#### **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	Vet Science
Master's	MSc Hons	Do	1988	597/820 (72.8%)	Animal Reprod
Doctorate	PhD	Do	1998	444/620 (71.6%)	Do

#### **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	Veterinary Research Institute Peshawar	BPS-17 (Sup)	19-6-1990	30-11-1992
		BPS-18	1-12-1992	30-11-1997
		BPS-19	1-12-1997	18-1-2005
Deputy Director Planning Livestock	Agriculture, Livestock and Coop Department	BPS-19	2000	2001
Professor/Chairman/ Dean	Khyber Pukhtunkhwa Agricultural University, Peshawar	BPS-20	18-1-2005	12-1-2007
		BPS-21	13-1-2007	To date

#### **EXPERIENCE IN EDUCATIONAL ADMINISTRATION**

- Chairman Livestock Management Department, 15-5-2007 to 14-5-2010; continued up to 20-12-2011
- Chairman Animal Health Department since 13-10-2010 to 31-1-2011
- Dean Faculty of Animal Husbandry and Veterinary Sciences, AU Peshawar, 16-4-2011 to date

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

- Member Academic Council since 18-1-2005
- Member Board of Advanced Studies and Research
- Member Board of Studies
  - Livestock Management since 18-1-2005
  - Animal Nutrition Department
  - Human Nutrition Department
  - Poultry Science Department
  - Gomal College of Veterinary Sciences
- Member Board of Faculty of AHVS since 18-1-2005
- Chairman, Character Building Society, AU Peshawar.
- Member Agricultural University Teachers Foundation (AUTF)
- Convener, Fund Raising Committee, AUP Alumni Association
- Technical Member Selection Board
  - Agricultural University Peshawar
  - Gomal University DI Khan
  - AJK University, Muzaffar Abad

#### **PROFESSIONAL RECOGNITION**

##### **A. Awards**

- 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. Pak. Vet. Med. Council, Member executive committee/HEC representative
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. Member editorial board, Asian-Australasian Journal of Animal Science since 1999; Pakistan Veterinary Journal; Journal of Agricultural Science and Technology A; Reviewer, J Dairy Sci USA; Canadian J Anim Sci; 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 Anim Sci, Livestock Sci; Small Ruminants Research; Journal of Food and Chemical Toxicology; Journal of Cell and Animal Biology

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

1. Pak. Soc. Animal Reprod. Lahore, Vice President, 2000 onwards
2. Nutritionist Assoc. Pak. Lahore, Member 2003 onwards
3. NWFP Univ. Agric., Univ. Agric. Faisalabad, Sindh Agric. Univ., Gomal Univ., Univ. Vet Anim. Sci., Graduate/Postgrad. Examiner, 1994 onwards
4. Pak. Agric. Res. Council, Project Reviewer, 2003 onwards

5. Member, Provincial Advisory Committee, Ministry of Science and Technology KP
6. GoKPK, Impact assessment study
7. Sarhad Dairy Farmers Association, member
8. Public Service Commission, technical member
9. Livestock trainers and consultants, member BoD
10. Member, Industrial Advisory Group, NAVTEC, Prime Minister Secretariat, Islamabad.
11. Member PCST Committee for Accreditation of Halal Certification Bodies
12. Associate Editor of Sarhad Journal of Agriculture and Journal Anim Health Prod
13. Resident editor of the Veterinary News and Views

#### **D. Visits abroad**

1. Thailand, March 28 to May 6, 1994: Attended 10<sup>th</sup> International Training in Swamp Buffalo Reproduction at Chulalongkorn University. Sponsor: Royal Thai Government
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> Int Conf Egyptian Soc Exp Biol, 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.
5. Australia: Nov 12-Dec 24, 2010. Visiting Professor Charles Sturt University, Wagga Wagga.
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 Saljuk University and industry people. Sponsor: HEC.

#### **INDUSTRIALIZATION OF RESEARCH**

##### **Trainings Organized**

1. CAHWs training, for Relief International Pakistan. May 16, 2012, One months, 329,600.
2. CLEW Training for HUIRA, 7-1-2013; Swat; participants 25, days 15, cost 350,725.
3. Training for Agribusiness Support Fund-USAID. On Fodder Preservation Through Silage Production On Commercial Basis. 28 April to 5 May.
4. More than 10 other trainings conducted.

##### **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, attended by participants from scientific, business, government and civil society organizations, recommending establishment of dairy colonies and other ventures through public private partnership. Livestock Trainers and Consultants was established through funding from Agribusiness Support Fund and other agencies and farmers/technicians and extension workers' trainings were arranged. International Workshop on Dairy Science Park was held to link the farmers with development, academic and business organizations. Viable enterprises are being developed through integrated networks of stakeholders including KPCCI and SMEDA.

##### **Special Achievements**

1. Improved the research quality at the Department. Produced the first ever PhD graduate in the Department. Initiated research on physiological base of animals' productivity and stress physiology and tailored the postgraduate thesis research and research and development projects into these

- priorities; accepted as Visiting Professor Charles Sturt University Australia for collaborative research in stress physiology.
2. Worked as member Editorial Board of the Asian Australasian Journal of Animal Science, since 1999 to date. The impact factor of the journal was increased from zero to 0.857.
  3. Formulated M.Phil degree program in Dairy Science and Technology; Attracted postgraduate students to the Department, 13 out of 41 during August, 2008; Initiation and operation of Yahoo group "Livestock Industry", for postgraduate students, scientists, extensionists, farmers and industry people
  4. Advised two successive Chief Ministers Khyber Pukhtunkhwa on Dairy Development Plan; Linked Agribusiness Support Fund and Livestock Trainers and Consultants for outreach activities of the Department; commended by the Prime Minister's Secretariat and formulated training programs for National Commission on Vocational and Technical Education (NAVTEC).
  5. Functionalized Feed Mills with active cooperation of Dr Shoaib Sultan Afridi.
  6. Chief Organizer of the International Workshop on Dairy Science Park, Nov 21-23, 2011.

## **CONFERNECE/WORKHOPS/MEETINGS ATTENDED**

### **International**

1. Hamidullah, S. Mirajuddin, M.S. Qureshi, S.I. Shah, P. Shah, and M. Iqbal, 1994. Abattoir study of ovarian diseases in Nili-Ravi buffalo of NWFP Pakistan. *IVth World Buffalo Cong.*, June 27-30 1994, Sao Paulo, Brazil. pp. 543-545.
2. Qureshi, M.S., 1996. Seasonality of reproduction in dairy buffaloes under field conditions. Regional symposium on livestock biotechnology, April 16-18. CAB-VRI Peshawar.
3. Qureshi, M.S., 1998. Fertility management of Nili-Ravi buffaloes. Success stories on transfer of farm technology in SAARC countries. SAARC Agric. Inf. Center, Dhaka. Pp 76-79.
4. FAO, 2001. [Integrating Food Security Issues into Agricultural Research](#). FAO of UN Rome. (Contributed in preparation of the draft report).
5. Qureshi, M.S., R.H.Usmani, H.A.Samad, G.Habib M.M.Siddiqui and S.N.H.Shah. 2002. Effect of suckling and milk production on reproductive performance of dairy buffaloes. [Xth Int. Cong. AAAP](#), New Delhi, Sept. 24-29.
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. Qureshi, M.S., M.S.Ali, A.Saeed, P.Shah, Q.Habibullah and S.Jan, 2004. Conception rate of dairy buffaloes under various timings of insemination and reproductive management conditions. Proc. 7th World Buffalo Congress. Philipines. October. Vol. II pp 596-601.
8. Ali, M.S., M.S.Qureshi, M.S.Ali and A.Saeed. 2004. Factors affecting conception rate of dairy buffaloes under field conditions. Proc. 7th World Buffalo Congress. Philipines. October, 2004. Vol II.
9. Qureshi, M.S, P.Shah, Q.Habibullah and S.U. Jan, 2004. Nutritional status of dairy buffaloes under field conditions and the resulting reproductive performance. Int Nutritional Conf, Nutr. Assoc Pak, Lahore. Dec1-2.
10. Qureshi, M.S., 2006. Genetic improvement of dairy goats – development of extender for liquid semen Proc. XIIth AAAP Animal Science Congress, September 18-22. AAAP South Korea, pp.365.
11. Qureshi, M.S., S. Khan and N. Ahmad, 2007. Pregnancy depresses milk yield in dairy buffaloes. Proc. 8th World Buffalo Congress, Caserta, Italy, October 19-22. pp. 1290-1293.
12. Qureshi, MS, 2007. Development of Extenders for liquid goats semen. 15<sup>th</sup> Int Cong Mediterranean Federation for Health and Production of Ruminants. 15-19, May. Pine Bay Resort Hotel, Kusadasi, Turkey.
13. 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.



14. 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.
15. Qureshi, M.S., 2008. Socio-economic status of peri-urban dairy farms in Pakistan. Prof. Int Conf Dairy Prod. Pp. 215-217. Nov 3-4.
16. 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).
17. 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.
18. S Khan and MS Qureshi, 2009. Pregnancy affects lactation in dairy buffaloes. 6th Asian Buffalo Cong. 17-30 Oct. Lahore.
19. 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.
20. 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 Int Conf Egyptian Soc Exp Biol, 27 Feb - 4 March. Minoufiya University, EGYPT.
21. Mushtaq, A. and MS Qureshi, 2010. Effect Of Management Practices On Milk Composition In Dairy Buffaloes. International Workshop On Industrial Biotechnology. July 3-4, Alexandria, Egypt.
22. 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.
23. Qureshi, MS, 2011. Flood 2010 - Losses and future scope of the KP Dairy sector. Int Workshop On Floods in Pakistan-2010 (Lessons Learned & Way Forward) 12 March. Pakistan Engineering Congress, PEC Building 97-A/D-1, Liberty Market, Gulberg-III, Lahore.
24. Khan, R and MS Qureshi, 2011. Effect Of Heavy Metal And Mineral Contents In Drinking Water On Buffalo Milk Production And Quality In Urban, Peri Urban And Rural Dairy Farms Of Peshawar. National Workshop on Environmental Toxicology and Health. 8-09 March
25. [Qureshi, MS, 2011](#). Relationship Of Blood Metabolites With Reproductive Cyclicity In Indigenous And Exotic Breeds Of Dairy Cows Under Tropical Conditions. The 14th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGITM). Paris, France. P-55, 17-20 November.
26. [Qureshi, MS, 2011](#). Stressors impeding ovulation in mammals ? Experience in dairy cattle and buffaloes. 15th World Congress on Controversies in Obstetrics, Gynaecology and Infertility, December 8-11, 2011, Sayna Hainan, China (oral presentation).
27. [Qureshi, MS, 2011](#). Keep Dairy Animals Stress-Free For Better Profits. International Workshop on Dairy Science Park, (November 21-23). Agric Univ, Peshawar. Abstract Book, BS-85.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. 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.
34. 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.
35. 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 Anim Sci Cong*, 26-30 Nov, Thammasat University, Rangsit Campus, Thailand. 1042-1046.
36. 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.
37. 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.

#### **National conferences**

1. Qureshi, M.S., 1989. Role of milk progesterone EIA in early pregnancy diagnosis in cattle. 2<sup>nd</sup> Inter-provl Sem, Animal H&P, October. Pp.93-96. PVMA Peshawar
2. Qureshi, M.S., 1989. Estimation of serum bilirubin pre and post medication by hexachlorophene in sheep. 2<sup>nd</sup> provl Sem, Animal H&P, Pak Vet Med Assoc. Pesh. Pp.71. PVMA Peshawar.
3. Qureshi, M.S., Hamidullah, S. Mirajuddin, S.I. Shah and M.B. Qureshi, 1994. Abattoir study of incidence of various abnormalities of uterus and cervix in Nili-Ravi buffaloes slaughtered at Peshawar. *Pakistan Dairy Cong.*, August 29-30, PVMA, Karachi.
4. Qureshi, M.S. and M.B. Qureshi, 1999. The un exploited potentials of livestock sector of Pakistan. *Proc. PAS FORUM/PVMA Agro-Livestock Conference on Self reliance through Integrated Agro-Livestock Dev.* Aiwan-i-Iqbal Complex, Lahore, (pp.4-7).
5. Qureshi, M.S., M.H.Khan and I.Khan, 1989. Role of milk progesterone EIA in early pregnancy diagnosis in cattle. 2<sup>nd</sup> Inter-provl Sem, Animal H&P, October. Pak Vet Med Assoc. Peshawar.
6. Khan, I., M.A.Khan and M.S.Qureshi, 1989. Estimation of serum bilirubin pre and post medication by hexachlorophene in sheep. 2<sup>nd</sup> provl Sem, Animal H&P, Pak Vet Med Assoc. Pesh.
7. Qureshi, M.S., 2004. A review of Artificial Insemination status in NWFP. *Proc National Seminar on Livestock Breed Improvement*, present status and its future. 18 Dec. PSAR, UVAS Lahore.
8. Qureshi, M.S., 2005. Business aspects of the provincial livestock sector. *Proc. Livestock Investment Conference*. July 28. Sarhad Chamber of Commerce and Industry, Peshawar. Pp 22-33.
9. Amjed, M. and Qureshi, M.S., 2005. Livestock feed industry – An emerging business. *Livestock Investment Conference*. July 28. Sarhad Chamber of Commerce and Industry, Peshawar.
10. Qureshi, M.S. 2006. Investment opportunities in livestock sector in NWFP. *National Conference on investment opportunities in livestock sector*. Agriculture Foundation of Pakistan. April 4-6.
11. Qureshi, M.S., 2008. The scope of livestock industry in national economy. *Seminar: Responses to challenges of globalization in agriculture*. Baragali, July 3-5. NWFP Agric Univ Peshawar.
12. Khan, R., MS Qureshi, S Khan, MJ Khan, Rasool Khan, 2009. Drinking Water Affects Heavy Metals Profiles Of Milk Produced In Peri-urban Dairy Farms In Peshawar. *13<sup>th</sup> Natl Hlth Sci Res Symp*, Oct 27-28, Karachi.
13. Qureshi MS, et al., 2012. Enterprising capacity of small ruminants and poultry in KP, Pakistan. *36<sup>th</sup> All Pakistan Sci Conf*. Gomal University, Dera Ismail Khan 12& 13 Nov. Pak Assoc Adv Sci, Lahore.

### **Conferences/workshop/organized**

International Workshop on Dairy Science Park (November 21-23, 2011) was held at the Agricultural University Peshawar as chief organizer. Cooperation of the Extension and Research wings of the Livestock and Dairy Development, Pakistan Veterinary Medical Association and Livestock Trainers and Consultants were gained as organizing partners. HEC assisted as the main sponsor, followed by financial assistance of Alltech Pakistan Ltd, Ghazi Brothers, Karachi: Inter-cooperation (IC) Pakistan, Peshawar. ICI Pakistan and Naseem Traders/Romer Lab Rawalpindi also displayed their products through stalls. Technical support was provided by ICRISAT India, SMEDA Peshawar, KPCCI, Charles Sturt University, NSW, Australia and Agri Livestock Bureau, Faisalabad. Website coverage was provided by AU Peshawar, Engormix.com, World Veterinary Year, 2011; World Vet Association; Int Soc Zool Sci; IBKRC Philippines; The Dairy Site News; Khyber Pakhtunkhwa Official Gateway News and Events. pakissan.com. Press coverage was provided by Daily Mashriq, Daily Aaj; Daily Pakistan Observer; The Frontier Post; Business Recorder; Associated Press of Pakistan; The Weekly Technology Times, Pakistan.

The conference was attended by +450 delegates from all four provinces of the country and Azad Jammu and Kashmir belonging to a variety of segments of the society. During the three days of the workshop, experts from academia, research, extension and industry, policy makers and farmers community presented 35 papers and exchanged ideas to work out a comprehensive plan for the development of dairy industry of the province. The workshop was inaugurated by the Honorable Minister for Agriculture, Arbab Muhammad Ayub Jan and concluded by Haji Hidayatullah Khan, Minister for Livestock. Ninety one Abstracts and 13 titles were published in an abstract book, ISBN-978-969-422-001-7. Another volume of the book was published covering recommendations, daily proceedings and pictorials. A committee shaped up the recommendations into various components including Business Support, Infrastructural Support, Legislative And Policy Support, Animal Production Support, Animal Health Support, Environment And Energy Solutions, Institutional Strengthening and Coordination. Various activities have been proposed for productivity enhancement and industrial applications. Some projects have been identified for implementation at AU Peshawar and the Livestock Trainers and Consultants. Besides the support already provided to the Faculty of AHVS, this University is also willing to sponsor some additional activities under endowment fund and will provide a liaison office to KPCCI for supporting commercially viable projects. The provincial government and other local and international donors are expected to sponsor some viable projects. The second workshop has been scheduled for 2013 with focus on Meat R&D for International Halal Food Market.

### **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.

#### **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. Agric Univ Peshawar.
3. Tanveer, AJ, 2011. Effect of administration of different levels of methanolic extract of *Peganum harmala* on hematology, immunity and serum biochemistry of broiler chicks.

#### **PhD ongoing**

1. Ihsanullah (Synopsis approved). Effect of stress on reproductive physiology of crossbred cattle under sub-tropical conditions of northern Pakistan. AUP (Major Supervisor).



2. Ikramullah Khan (Coursework completed). Evaluation of different stress indicators associated with reproductive cyclicity of crossbred dairy cows. (Major Supervisor).
3. Shakir Ullah (Coursework in progress). Association of oxidative stress with GnRH concentrations in crossbred dairy cows. (Major Supervisor).
4. Iftikhar Ahmad (Coursework in progress). Effect of stress on milk quality in dairy cattle and buffaloes. (Major Supervisor).
5. Younas Muhammad (Coursework in progress). Investigation into genetic base of fertility in crossbred dairy cattle. (Major Supervisor).
6. Sultan, Shoaib (Synopsis approved). Dietary supplementation of protected fats and Vitamin E to improve semen quality in Beetal bucks. (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. Bakht Daraz 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. Fowad ur Rahman, 2012. Replacement of animal proteins sources in semen extenders with plant proteins in various cattle breeds.
12. Gulfam, M. Effect of fascioliasis on health and productive parameters in crossbred cattle. Major Sup.
13. Hafiz Abdul Majeed. Semen quality of Beetal bucks. As influenced by supplemented vitamin E. Major Supervisor
14. Shah Nawaz. Relationship of bovine tuberculosis in cattle, buffaloes and human populations in District Peshawar. Major Supervisor
15. Fida Muhammad Khan. Study on seroprevalence of bovine tuberculosis and its association with various risk factors in cattle and humans in district Peshawar. Major supervisor
16. Hafiz ur Rahman. Effect of dietary zinc on semen traits and seminal plasma biochemical composition in Beetal bucks. Major supervisor

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

1. Hamidullah, 1993. Incidence of reproductive disorders and pregnancy in buffaloes in slaughter at Peshawar Abattoir. AUP (NWFP-Agric. Univ.
2. Gulzar Ahmad, 1996, Effect of health status on reproductive performance in buffaloes. UA Faisalabad.
3. Ghulam Muhammad, 1997. Productive and reproductive performance of buffaloes in district Dir. Sindh Agric. Univ.
4. Asmatullah Khan 1999. Reproductive and productive performance of crossbred cattle in district Bannu. Sindh Agric. Univ.
5. Jan Mir Khan, 1999. Crossbreeding in cattle in Bannu. UAF (Univ. Agric. Faisalabad)
6. Ahmad Jan, 2000. Productive and reproductive performance of buffaloes in Charsadda.

7. Rafiullah, 2001. Ovarian scanning and blood minerals in crossbred repeaters cattle at estrus. UAF
8. Siddique Ali, 2003. Factors effecting conception rate in dairy buffaloes under field conditions. UVAS Lhr
9. Zaitoon Khattak, 2004. Productive and reproductive performance of dairy buffaloes under field conditions. Univ. Peshawar.
10. Nazir A.K., 2006. Feeding value of tree leaves and cottonseed cake as supplement in lactating beetal goats. NWFP Univ. Agric.
11. Iftikhar Ahmad, 2007. Effect of mastitis on milk composition in cows and buffaloes. NWFP Agric Univ Peshawar.
12. Asim Ijaz, 2007. Body characteristics and their relationship with some qualitative and quantitative traits in Damani Goats at Dera Ismail Khan (NWFP Agric Univ Peshawar).
13. Iqbal, Zafar, 2007. Antiparasitic and immuno-modulatory effects of some common anthelmintics in buffalo calves. NWFP Univ. Agric.
14. Hussain, Maryam, 2008. Effect of water sprayed and soaked wheat straw on intake and digestion of rations supplemented with molasses urea liquid vs molasses urea block licking by cow calves. NWFP Univ. Agric.
15. Khan, M.Tahir, 2008. Effect of substitutin of wheat straw with peanut hay on dry matter intake, digestion and nitrogen retention in rations for sheep maintenance. NWFP Univ. Agric.
16. Khan, M. Rizwan, 2009. Nutritional status of internally displaced children in Muzarrarabad Earthquake 2005. NWFP Univ. Agric.
17. Asif, Yasmeen, 2009. Comparative study on relationship between risk factors and gallstone formation in females of Peshawar city. NWFP Univ. Agric.
18. Mirajullah Shah, 2009. Effect of pregnancy on milk yield and composition in dairy buffaloes. NWFP Univ. Agric.
19. Aamir Jalil, 2009. Morphological Characterization of Kutta Sheep breed in Swat.
20. Marwat, I., 2009. Effect of breeding methods on calf sex and postpartum reproductive performance of cattle and buffaloes. Agric Univ Peshawar
21. Ihsanullah, 2009, Protein contents in dairy milk. Agric Univ Peshawar.
22. Jan, Shaista, 2010. Effect Of Age And Lactation Stage On Blood Metabolites And Milk Fatty Acids Profile In Dairy Buffaloes.
23. Huma Naqeeb., 2010. Comparative study of iron status between female cardiovascular cases and controls in Peshawar. Agric Univ Peshawar.
24. Asma Masood., 2010. Assessment of body composition and hemoglobin status of adolescents in two schools at Lahore. Agric Univ Peshawar.
25. Tariq Khan., 2010. Assessment of vitamin A and zinc status between smokers and non-smokers in Peshawar. Agric Univ Peshawar.
26. Imran Anwar., 2010. Comparative study on body composition and plasma lipid profile of smokers and non-smokers in Peshawar. Agric Univ Peshawar.
27. Muhammad Islam, 2011. The effect of breed age and sex on meat production potential of cattle in the subtropical conditions of Khyber Pukhtunkhwa.
28. Sirajuddin, 2011. Level of E coli on animal body coat and meat under slaughter house conditions in dairy buffaloes.
29. Tariq Ali Khattak, 2012. Effect of management practices and age on mastitis incidence in Nili Ravi Buffaloes. AUP, Member.
30. Kaleemullah, 2012. Genetic evaluation and relationship among various performance traits in Pakistani horse.
31. Khan, Kamran. Detection of antibiotics residues in beef slaughtered at Peshawar. Member
32. Inam, Muhammad. Comparative evaluation of semen from Starbro Cobb-500 broiler breeders and local cocks (non-descriptive) under summer stress of Peshawar. Member
33. Hayaz ud Din, 2012. Effect of cottonseed cake on cattle milk yield and composition at Livestock R&D Station Surezai, Peshawar. Member.
34. Shamsur Rahman. Determination of meat production potential of Turki, Afghan Arabi and Baluchi Sheep breeds in Afghanistan. Member.

### **MSc (Hons) (Ongoing)**

1. Muhiyud din, Afshan. Assessment of body composition and hemoglobin status of adolescents in selected schools of Peshawar. NWFP Univ. Agric. (MSc Hons Thesis, Member).
2. Tariq Aziz. Effect of different feed combinations on protein and fats contents in blood and milk in cattle and buffaloes. AUP, major supervisor.
3. Safirullah. Prevalence of Brucellosis in Equines in district Peshawar. Member.
4. Akbar Nawaz. Small ruminants production under transhumance and nomadic system. Member.
5. Saadia Mir. Assessment of body composition, dietary practices and nutrient intake of adolescents in public and private schools of Islamabad capital territory. MSc Hon Agric Human Nutrition. Member.
6. Zarlish Wahab. Prevalence of hydatid cysts in cattle, buffaloes and human populations in District Peshawar. Major supervisor
7. Naila Niaz. Comparative immune status of local and exotic dairy cows to zoonotic diseases.
8. Shahid Hussain. Improving feeding value of low quality roughages with the help of white rot fungi (*Pleurotus ostreatus*). Animal Nutrition Department. Member.
9. Muhammad Ashfaq. Effect of deep stacked broiler litter on nutritive value of total mixed ration in sheep. Animal Nutrition Department. Member.
10. Nadar Khan. Relationship of variable dietary energy with reproductive hormones, milk production and blood metabolites of early lactating dairy cows. Animal Nutrition Department. Member.
11. Tariq Ahmad. Influence of crude protein levels on milk production, blood urea and progesterone profiles in mid lactating Jersey Cattle. Animal Nutrition Department. Member.
12. Sadiq Shah. Relationship of soil minerals with fodders and blood of dairy buffaloes and its effect on milk production and reproductive hormones. Animal Nutrition Department. Member.

### **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).

#### **Ongoing**

1. *Principal Investigator*, Effects of season and extenders on goats's semen integrity and fertility. Cost 1.1 million, Pak. Sci. Foundation Islamabad (2007-2009). (in progress).
2. *Co-Principal Investigator*, Reproductive characteristics of beetal male goats as influenced by the dietary supplementation of alphatocopherol. HEC Research Grant to Dr Rifatullah Khan, Assistant Professor.

#### **In pipeline**

1. Investigation of stress indicators associated with ovulation in crossbred dairy cows. Rs. 4.0 million, submitted to NRPU/HEC.
2. Dairy Science Park. Rs.400 million; Ministry for Agriculture, GoKPK.

### **RESEARCH PUBLICATIONS**

Scopus ID: 7202876145; Thompson ISI, My Researcher ID: C-7212-2008; h-index 3; citation: 37 (16 Oct, 2012)

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

1. 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. Cited 7
2. 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. Cited 4
3. 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 Anim Sci*, 15(3): 330-339. Cited 14
4. 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. Cited 2
5. 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. Cited 2
6. 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. Cited 3
7. Khan S, MS Qureshi, N Ahmad, M Amjed, FR Durrani, M Younas, 2008. [Effect of Pregnancy on Lactation Milk Value in Dairy Buffaloes](#). *Asian Aust. J. Anim. Sci*. 21(4): 523-531. Cited 1
8. 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.
9. 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.
10. 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.
11. Qureshi, M.S., 2009. [Nutritional and Management Support to Reproduction in Dairy Buffaloes](#). *Pak J Zool*, Sup. 9: 895-909.
12. 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
13. 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 Anim Sci*, 23: 340-345. Cited 1
14. 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.
15. Chand N, FR Durrani, MS Qureshi, D Muhammad, Z Rehman, 2011. [Protective effects of milk thistle \(\*Silybum marianum\*\) against aflatoxin B<sub>1</sub> in broiler chicks](#). *Asian Aust J Anim Sci*. 24: 7 : 1011 – 1018. doi: 10.5713/ajas.2011.10418.
16. 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 Anim Sci*, 2011; 35(6): 375-380. doi:10.3906/vet-0811-15.
17. 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.
18. 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 Chem Soc Pak*, 33 (1), 129-133.

19. 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.
20. Aftab M, A Rahman, MS Qureshi, S Akhter, U. Sadique, A Sajid and S. Zaman, 2012. [Level Of Salmonella In Beef Of Slaughtered Cattle At Peshawar](#). *J Anim Plant Sci*, 22 (2 Suppl.): 24-27.
21. 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.
22. Qureshi MS, 2012. [Stress Impedes Reproductive Physiology Of Dairy Animals Under Subtropical Conditions](#). *J Anim Plant Sci*, 22 (2 Suppl.): 75-78.
23. 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.
24. Sadique U, ZI Chaudhry, 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. Khan RU, S Naz, Z Nikousefat, V Tufarelli, M Javdani, MS Qureshi, V Laudadio, 2012. [Potential applications of ginger \(\*Zingiber officinale\*\) in poultry diets](#). *World's Poultry Sci J*, 68, 245-252. doi: 10.1017/S004393391200030X.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. Khan MT, NA Khan, M Bezabih, MS Qureshi and A Rahman, 2013. [The nutritional value of peanut hay \(\*Arachis hypogaea\* L.\) as an alternate forage source for sheep](#). Published online 19 Oct, 2012. *Trop Anim Health Prod*. 45:849–853, DOI 10.1007/s11250-012-0297-8.
37. Usman T, MS Qureshi, Y Yu and Y Wang, 2013. [Influence of various environmental factors on dairy production and adaptability of Holstein cattle maintained under tropical and subtropical conditions](#). *Advances in Environmental Biology*, 7(2): 366-372.
38. Tanweer AJ, N Chand, S Khan, A Sultan, MS 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*, (in press).



39. Qureshi MS and MU Qureshi, . Relationship Of Biochemical Profiles With Reproductive Cyclicity In Indigenous And Exotic Breeds Of Dairy Cows Under Sub-Tropical Conditions. *J Anim Plant Sci*, 22(4): 2012, In press.
40. Sajid A, MS Qureshi, 2011. Prevalence of Capri pox virus in slaughter house , goats and Hides markets of Punjab Province of Pakistan. *Pak J Zool*. (Vol 43, in press).
41. Omer M, Ihsanullah, M Ali, J Bakht, A Khan, MS Qureshi, I Ahmad, E Ali, 2012. Effect of heat treatment on protein quality and quantity of commercial milk. *Pak J Botany* (Accepted).
42. Khan, S; D Qiu, MS Qureshi and S Nadir. Evaluation of Bb70p as a Novel Toxin Protein of the Entomopathogenic Fungi (*Beauveria Bassiana*), with Toxic Capabilities against *Galleria Mellonellahas*. *Pakistan Journal of Pharmaceutical Sciences*, submitted, #2482

## **B. HEC recognized journals**

1. Qureshi, M.S. and M.H. Khan, 1988. Relationship of Corpus Luteum Size with Progesterone Level in Mammalian Milk. *Pakistan J. Med. Res.*, 27 (4) 297-299. (ISSN 0030-9842).
2. Khan, M.H., T. Akhtar, M.S. Qureshi and J.A. Khan, 1989. Role of Milk progesterone profiles in fertility management of mammals. *Pakistan J. Med. Res.*, 28 (2) 110-114.
3. Qureshi, M.S., I.H.Khan, R.A.Choudhry, M.H.Khan & S.N.H.Shah, 1992. Compara-tive Efficiency of Rectal Palpation and Milk Progesterone Profiles in Diagnosing Ovarian Contents in Buffaloes. *Pakistan J. Agric. Res.* 13(2):196-200. (ISSN 251-0480).
4. Khan, M.H., Jehangir A. Khan, M.S. Qureshi, S.P. Khan, and B. Qureshi, 1992. Effect of Superimposed Pregnancy on Milk Composition and Progesterone Level. *Pakistan J. Med. Res.*, 31: (3) 164-166. (ISSN 0030-9842).
5. Qureshi, M.S., 1995. Fertility management of buffaloes, using repeated progesterone injections - A preliminary report. *Pakistan Vet. J.*, 15(3): 148-149 (ISSN 0253-8318).
6. Qureshi, M.S., H.A. Samad, G. Habib, N. Ahmad and A.D. Anjam, 1998. Reproductive performance of dairy buffaloes under peri-urban commercial farming in NWFP Pakistan. *Pakistan Vet. J.*, 18 (4): 197-202.
7. Qureshi, M.S., A. Khan, K.B. Mirbahar and M. U. Samo, 2000. [Productive and reproductive performance and their interaction in crossbred cattle under field conditions in District Bannu](#)". *Pakistan Vet. J.*, 20 (1), 31-34.
8. Qureshi, M.S., J.M. Khan, I.H. Khan, R.A. Chaudhry, K. Ashraf and B.D. Khan, 2001. [Improvement in economic traits of local cattle through crossbreeding with Holstein Friesian semen](#). *Pakistan Vet. J.* 22(1): 21-26.
9. Iqbal, M. M. Amjed, A. Khan, M. S. Qureshi and U. Sadique, 2006. [Comparative efficiency of some indirect diagnostic tests for the detection of sub-clinical mastitis in cows and buffaloes](#) *Pakistan Vet. J.*, 26(2): 73-79.
10. Khan, S., N. Ahmad, M.S. Qureshi, M. Amjed M. Younas and F. R. Durani, 2008. [Effect of Gestation Stage on Milk Production in Dairy Buffalo](#). *Sarhad J Agric*, 24(2), 317-22.
11. Qureshi, M.S., 2008. Dairy Farms and farmers. Social norms and training needs. *Pak J Agric Sci*, 45 (2):215-217.
12. Sohail, S.M., M.S. Qureshi, S. Khan, Ihsanullah, 2009. [Inheritance of economic traits in Dairy Buffaloes in Pakistan](#). *Sarhad J Agric*, 25 (1), 87-93.
13. Khan MH, MS Qureshi, 1993. Development of Enzyme Immuno assay and its role in reproductive endocrinology. *Journal of Ayub Medical College*, 6 (1):24-32.
14. Ayaz, M., Sarzamin, M S Qureshi, K Naeem, M Sajid, M Sajid, M Rafiq and A Maqbool, 2010. [Prevalence of Avian Influenza and its economic impact on poultry population of Hazara Region](#). *Pakistan. Sarhad Journal of Agriculture*, 36(4): 629-633.
15. Manan, A., N Chand, S Khan, MS Qureshi, AU Rahman and B Jan, 2012. [Effect of periodic supplementation of herbal infusion on the liver function and lipid profile of broiler chicken](#). *Sarhad J Agri*, 28(1): 75-82.
16. Tanweer AJ, N Chand, S Khan, MS Qureshi, U Sadique, A Akhtar, M Shakir, A Sultan, M Arshad, Alamzeb, 2012. [Association Of Peganum Harmala L Supplementation With Liver Function Test Of Broiler Chicks](#). *Pakistan Journal of Science*, 64 (1 ): 75-79.

17. Maroof K, N Chand, S Khan, MS Qureshi, AJ Tanweer, 2012. [Comparative Effect Of Different Schedules Of Administration Of Medicinal Plants \(\*Allium Sativum\*, \*Berberis Lycium\*, \*Eclipta Alba\* And \*Mangifera Indica\*\) Infusion On The Immunity And Overall Performance Of Broiler Chicks](#). *Sarhad J. Agric.* 28 (2): 319-326.
18. Khan S, MS Qureshi, N Chand, A Sultan, Rafiullah, I Khan, Ihsanullah, AJ Tanweer, SM Sohail, M Hussain, A Akhtar and D Khan, 2012. [Effect Of Breeding Method On Calf Sex And Postpartum Reproductive Performance Of Cattle And Buffaloes](#). *Sarhad J Agric* 28 (3): 469-476.

### **C. Books published**

1. Khan, S and M.S. Qureshi, 2009. [Lactation-Reproduction Interaction in Dairy Buffaloes](#). VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, Dudweiler Landstr. 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, Dudweiler Landstr. 99, 66123 Saarbrücken, Germany, [www.lap-publishing.com](http://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, Dudweiler Landstr. 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, Dudweiler Landstr. 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, Dudweiler Landstr. 99, 66123 Saarbrücken, Germany, [www.lap-publishing.com](http://www.lap-publishing.com) ISBN 978-3-8443-2717-5.
7. Kadwal, MH and Qureshi, MS, 2011. [Blood metabolites support oestrus cyclicity 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.

### **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, Narongsak Chaiyabutr (Ed.). InTech North America, Manhattan 10010, 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, Manhattan 10010, New York, USA. ISBN 978-953-51-0725-5. DOI: 10.5772/52498.