



## Professor Muhammad Subhan Qureshi

DVM, MSc Hons, PhD (Theriogenology) (UA Faisalabad)

**Position**      **Visiting Professor/Ex-Dean**, FAHVS, University of Agriculture Peshawar-25120, Pakistan  
**President**, Dairy Science Park  
**Adjunct Professor**, Charles Sturt University Australia  
**International Consultant** ITC (WTO-UN)  
**Associate Member**, Sarhad CCI  
**Ex-National Consultant** FAO-UN



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### 1. CAREER HISTORY

**Research and Development (7-8-1983 to 18-1-2005):** 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 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. Completed master and doctoral degrees and published a report on mismanaged livestock sector, losing an export potential of US\$ 20 billion at national level.

**Academic excellence (18-1-2005 to 19-3-2019):** 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 19, MPhil 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. 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.

**Charles Sturt University (CSU) Australia (25-12-2010 to date):** CSU was joined as Adjunct Professor during 2010. 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 the joint ISNH / ISRP International Conference-2014 at Canberra and presented a paper on productivity and fertility of crossbred cattle in the subtropical environment of Peshawar Pakistan. Pak-Australia Dairy Project was assisted. The Australian Farming System was studied. The main problem identified was the difficulty of farmers in getting technical and marketing services; summer stress faced by the animals; and scarcity of labor due to migration of the younger generations from rural to urban areas.

**Dairy Science Park (2011 todate):** Dairy Science Park (DSP) was 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. A biennial series of international workshops was initiated and it continued during November, 2011, 2013 and 2015, 2017 and 2019, each by 450+ delegates, with 100+ technical papers and industrial exhibition. 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. Sandia National Lab USA has been supporting DSP under a [Biorisk Management Collaboration](#). Eight consultative workshops were held in Amsterdam, Dubai, Bangkok and Puket, Colombo, Konya, and Amman, participated by 105 members of DSP for curriculum development. A BRM package was developed for integration into Doctor of Veterinary Medicine degree in Pakistani Universities, under the supervision of Pakistan Veterinary Medical Council.

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 supporting the network of slaughterhouses, 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, comprising Quality Control Laboratory Complex, Business Incubation Center, Halal Research Center and an Endowment Fund. His proposal for establishment of a Task Force for DSP was approved by the Chief Minister on endorsement of the Chief Secretary KP. DSP IV – 2017 Konya, Turkey endorsed the concept and Konya Teknokent offered cooperation through an MoU.

**National Consultant FAO (Livestock) (June to August 2019).** Worked with Food and Agricultural Organization of the United Nations at Islamabad, Pakistan as National Consultant Livestock and Dairy Development. The mutually agreed TORs required development of an Action Plan with estimated budget for Livestock Sector Development and Transformation, based on KP Livestock Policy; covering regulatory issues, value chain development, private sector engagement and overall required capacity at provincial and district levels. The livestock and poultry farmers are facing unbearable financial burden and most of these valuable assets are on way to total collapse. Ten public and private sector organizations are mandated for serving the Livestock Sector covering extension, research, fisheries, education, livestock markets, slaughter houses price regulation, food safety, trade and farmers welfare. However, lack of coordination and their apathy towards the farmers and processors, has left the burning issues unattended. [KP Livestock Action Plan 2019](#) was prepared as a relief for the weaker stakeholders across the livestock value chain, in the public and private sectors, within a governance framework of

Academia-Industry-Government-Society Nexus. An autonomous [Livestock Technopark Peshawar \(LTP\)](#) was suggested to be established, initially as a Task Force through an executive order and later on through an Act of the Legislative Assembly/Ordinance of Governor; with full regulatory, administrative, financial and legislative powers to protect all the stakeholders of the livestock industry, and engage all relevant private and public sector organizations with shared authority and responsibility. Motivated young graduates in veterinary, engineering, medical, business and social sciences would be joining LTP for their career development and transformation of ideas into actions to serve the society. Quality conscious consumers would be having access to traceable food products in the towns. Public and private sector organizations would have access to sufficient operational funds for motivating their staff and serving people.

**National Consultant ITC (WTO-UN) (June to September 2022):** In progress.

## **2. EDUCATION**

| Level of Education | Name of Examination | Institution Or Board/University | Degree awarded | Marks obtained   | Major Subjects |
|--------------------|---------------------|---------------------------------|----------------|------------------|----------------|
| 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 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, etc, Gomal College of Veterinary Sciences/AWKU Mardan
- Member Board of Faculty, 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
- Member Selection Board, UAP/GU DI Khan/AJKU Muzaffar Abad/AWKUM Mardan

## **4. PROFESSIONAL RECOGNITION - 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/Star Award 2008 (S Asia Publication)

## **5. Visits abroad**

- 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.
- Italy, October 15 to 28, 2007: Attended 8<sup>th</sup> World buffalo congress at Caserta. Sponsor: HEC
- 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.
- *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.
  - *Australia:* Nov 12-Dec 24, 2010. Visiting Professor Charles Sturt University, WaggaWagga; Sept 6-13, 2014, to attend *Joint ISNH / ISRP International Conference*, Canberra.
  - *Turkey:* Sept 6-16, 2012. Presented a paper and chaired session 2 of the International Conference on Applied Life Sciences at Konya. *Sponsor* HEC; visited Konya along with 50+ delegates from Pakistan as Co Chair of Dairy Science Park 2017, Nov 1-5, 2017. Sponsor: SNL
  - *The Netherlands:* 15-18 March, 2015. Led Working Group on Biorisk Management of DSP 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 and Sandia National Labs.
  - *Dubai:* May 21-25, 2016. Led DSP delegation to attend consultative workshop on Pakistan Biorisk Curriculum Development with Sandia National Laboratories USA (sponsor); 29 April-1 May 2019, PAK - PVMC BRM Awareness Workshop for Pakistani Universities. Sponsor SNL, USA.
  - *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).
  - *Mashad, Iran:* 7-8 Dec 2017. Attended Science Tech +; presented paper; participated in Entrepreneurship Show at Firdosi University.
  - *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. Conferences attended (<https://dairysciencepark.org/cv-prof-m-subhan-qureshi/>)

#### 7. Conferences organized

- [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](#)
- [Fifth International Workshop on Dairy Science Park \(Quetta\), Nov 19-21, 2019](#)

#### 8. Research scholars supervised (<https://dairysciencepark.org/cv-prof-m-subhan-qureshi/>)

#### 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. Rs.0.50, 2013-14.

#### 10. Research publications: (<https://dairysciencepark.org/cv-prof-m-subhan-qureshi/>) A: Impact Factor papers (66); B: HEC recognized: 22; C. Books published: 13; D. Book Chapters: 2