

Dr. Muhammad Tahir Khan
Assistant Professor Department of Animal Nutrition
The University of Agriculture Peshawar

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Personal information:

Father Name : Abdullah Jan
Date of Birth : March 30, 1982
NIC : 17301-1398930-7
Marital Status : Married
Birth Place & Domicile : Peshawar, Khyber Pakhtunkhwa Pakistan.
Permanent address : Village Jhagra, P/O Tarnab Farm Tehsil & District Peshawar Khyber Pakhtunkhwa Pakistan.
Mailing address : Department of Animal Nutrition, Faculty of Animal Husbandry and Veterinary Sciences, The University of Agriculture Peshawar Pakistan,

Academic Record:

➤	PHD	Animal Nutrition	89.71%		CGPA 3.93/4.00	AUP (2024)
➤	MSc(Hons)	Animal Nutrition	86.23%	1 st Div	CGPA 3.69/4.00	AUP (2008)
➤	B.Sc(Hons)	Animal Science	70.13%	1 st Div	CGPA 3.13/4.00	AUP (2006)
➤	F.Sc		64.11%	1 st Div	705/1100	BISE Peshawar (2000)
➤	Matric		79.06%	1 st Div	672/850	BISE Peshawar (1998)

Education Profile:

- Passed **PHD** in Animal Nutrition, in the year 2024, from The University of Agriculture Peshawar, securing CGPA 3.93/4.00 (89.71%)
- Passed **M.Sc (Hons)** in Animal Nutrition, in the year 2008, from The University of Agriculture Peshawar, securing CGPA 3.69/4.00 (86.23%)
- Passed **B.Sc. (Hons)** in Animal Husbandry, in the year 2006, from The University of Agriculture Peshawar, securing CGPA 3.13/4.0 (70.13%)

- Passed **H.S.S.C. (Pre-Med)** in 2000, from Edward College Peshawar, Pakistan, in 1st Division.
- Passed **S.S.C. (Science Group)** in 1998, from Peshawar Board, Pakistan, in 1st Division.
- **Major courses:** Energy Metabolism; Protein Metabolism; Mineral Nutrition; Avian Nutrition; Ruminant Nutrition Analytical Techniques in Animal Nutrition; Digestive physiology of farm animals; Nutrient metabolism; Principle and practices of animal nutrition; Nutrients requirement and ration formulation of farm animals;; Design of animal experiments; Basic and advance statistics, and use of SAS software.

Awards:

- Silver Medal MSc (Hons) Animal Nutrition, Faculty of Animal Husbandry & Veterinary Sciences, The University of Agriculture Peshawar.

Objectives:

- A dynamic animal science professional, with demonstrated animal nutrition research and animal husbandry experience, is pursuing a suitable position in the agriculture and related professions
- Improve dairy herd operations, quality testing of feeds and forages, feed manufacturing for dairy and other Farm Animals.
- Teaching, Research and Outreach in the field of Dairy Cattles/Buffaloes Nutrition.
- Improve linkages among Researcher and Farmers

Research interest:

- Forage utilization and recycling of organic wastes in ruminants' rations.
- Development, evaluation, and the use of low cost and efficient Rations for dairy animals.
- The use of advanced equipments in laboratories and application of modern technology in animal Nutrition
- Digestibility of nutrients (energy, amino acids, lipids, carbohydrates and minerals) to clarify the mechanism of its digestion stimulating action,
- The role of feed industry in manufacturing of quality feed supplement
- Up gradation and improving the Nutritive value of poor quality forages, with various treatment techniques

Research work & Project:

- Feed Mill Operation approval of 0.5 million for the manufacturing of feed products in the Department of Animal Nutrition, 2011 The University of Agriculture Peshawar.
- Coordinator Pak- Afghan students training held 2011 on Laboratories analysis in the Department of Animal Nutrition the University of Agriculture Peshawar.
- two weeks urea molasses mineral block training (Rs.0.25 million) was conducted during 11-21 May, 2015 in the Department of Animal Nutrition

Professional Courses/Trainings Attended:

- National Nutrition Conference 2004 in Lahore
- National Workshop on Advanced Research Technique and Research Management in Life Science 2009 The University of Agriculture Peshawar

- Internship in SB Feed Mill Islamabad
- Feed mill installation and operation The University of Agriculture Peshawar Internship in Jaba Sheep farm Mansehra
- International Workshop on Dairy Science Park 2012 The University of Agriculture Peshawar
- Pakistan Science Foundation Workshop on project formulation 2012 The University of Agriculture Peshawar
- Paper presentation in International Workshop on Dairy Science Park 2013 The University of Agriculture Peshawar
- Agriculture Innovation Program (AIP) for Pakistan, training on Facilitation on farmer–Centered Diagnosis using the Feed Assessment (FEAST) Tool from 6-9 November 2014 at Islamabad Hotel Organized by ILRI in collaboration with ICARDA
- Participation in 3 days kisan convention held at PARD Peshawar from 29 to 31 December 2014
- Natural Resource Management training 18 -20 2015 August in PARD Peshawar
- Three days training course Center of Research and Security studies (CRSS) January 27-29, 2017 Hill View Hotel, located at F-7 Markaz, Islamabad
- Short training course on Medicinal & Aromatic Plants: Boon for Enterprise Development March 24-26, 2017 PFI, Peshawar
- Five days Training Course on Climate Change and Biodiversity Conservation April, 17-21, 2017 PFI, Peshawar
- Five days Training Course on Rang Land Management January, 2018 PFI, Peshawar
- Five days Training Course on Livestock Management March, 2018 in PARD Peshawar

Professional Courses/Trainings Conducted

Utility of Urea Molasses Minerals Blocks Licks in the Daily Feeding Schedule of Animals

A two weeks urea molasses mineral block training (Rs.0.25 million) was conducted during 11-21 May, 2015 in the Department of Animal Nutrition with the collaboration of DoST (Directorate of Science and Technology). During the 1st week a total of 30 farmers belonging rural area of Peshawar was trained on the preparation of urea molasses mineral block. The trainees were facilitated with all aspect of the technology transfer in the department of Animal Nutrition, the University of Agriculture Peshawar, while during the 2nd week highly skilled resource persons along with all the trainee material visited progressive farmers of the various rural area of Peshawar, Sawabi, Charsada, Newshera for the on-filed demonstration of the technology.

Membership:

Organization	Membership/Role	Member Since
Blood Donor Society	Member	2003-2005
Student Welfare Council	Member	2007-2008

Organization	Membership/Role	Member Since
Flood Relief Society	Member	2010-2011

Skill Summary:

- More than four year experience in ruminant nutrition research
- Laboratories up gradation with advanced equipments
- Cattle feed formulation for dairy farmers and floods affected animals of the province
- Multinutrients blocks for dairy animals
- Analyzed Aflatoxin content and in large number of feed, blood and milk samples
- Proximate analysis of feed stuffs
- Evaluation of feedstuffs through in-vitro fermentation systems
- Data analysis skills using proc GLM and Mixed models in SAS
- Technical, scientific knowledge acquisition, communication, report writing, scientific publication and presentation skills
- In-depth ability to maintain satisfactory working relationships with other employees, professional personnel and the public.
- Ability to train, instruct and supervise employees and students
- Strong initiative, leadership, and team building
- Persuasive negotiation and sales skills with excellent customer service

Teaching Experience:

- Serving as lecturer in the Department of Animal Nutrition, The University of Agriculture Peshawar.

Duties include:

- Teaching graduate and undergraduate courses,
- Supervise graduate and postgraduate students research projects,
- Conduct personal research,

Courses Taught:

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|--|-------------|
| ➤ Biochemistry of Metabolism | DVM |
| ➤ Ruminants Nutrition | DVM |
| ➤ Principle of Animal Nutrition (Practical) | DVM |
| ➤ Animal feed recourses and forage conservation | DVM |
| ➤ Feed Emulation, Formulation→ & Processing Technology | DVM |
| ➤ Feed Mill Operation | DVM |
| ➤ Analytical technique in Animal Nutrition | M Sc (Hons) |
| ➤ Feed and Feeding | M Sc (Hons) |
| ➤ Minerals Nutrition | M Sc (Hons) |

Research Activities:

- **Advised MSc(Hons) Dissertation as Supervisor**

- Mr. Muhammad Ishfaq, **Title:** *Effect of Deep Stacked Broiler Litter on Nutritive Value of Total Mixed Ration in Sheep*
- Mr. Samiullah, **Title:** *Effect of Oat Hay Harvest Maturity on the Nutritional Value of Hay and Milk Yield and Composition of Dairy Cows*
- Mr. Syed Ziaullah, **Title:** *Quantifying the causes of variation in the nutrient and microbial composition of poultry litter*
- Muhammad Idrees Khan **Title:** *Effect of Urea Treated Groundnut Shells on Feed Intake, Digestibility, Nitrogen Retention and Economic Value in Growing Rabbits*
- Muhammad Riaz **Title:** *The Effect of Graded Levels Supplementation of Cassia Fistula Linn Leaves on Feed Intake, Nutrients Digestibility and Plasma Lipids Profile in Growing Rabbits*
- Qazi Aqeel Ahmad **Title:** *Evaluating the Different Feeding Levels of Prangos Pabularia on Feed Intake, Digestibility and Growth Performance in Kari Sheep*
- Naveed Iqbal **Title:** *Effect of Feeding Different Levels of Discarded Date Palm on Feed Intake, Digestibility, Milk Yield and Composition in Damani Sheep*
- Sohail Mehmood **Title:** *Effect of Pressed Sugar Beet Pulp Silage as a Partial Replacer to Maize Silage on Production Performance (Milk Yield, Composition) and Economics of Lactating Nili Ravi Buffaloes*
- Hazrat Salman **Title:** *Effect of Different Level Fibrozyme in Total Mix Ration on Cell Wall Fraction, Digestibility and Milk yield In Lactating Dairy Cow*
- Mushtaq Ahmad **Title:** *Effects Of Comparison Maize Silage with Inoculating Sorghum Silage on Nutrient Intake, Digestibility, Milk Yield and Composition in Azikhali Buffalo*

- **Advised MSc (Hons) Dissertation as Member**

- Mr. Ata-Ur-Rahman **Title:** *Replacement of wheat bran with spent black tea in broiler ration.*
- Mr. Muhammad Noman **Title:** *Comparative effects of maize grains vs banana peels for feeding male growing rabbits*
 - Mr. Muhammad Qaseem **Title:** *Addition of Driselase Enzyme in urea Molasses Block (UMB) on weight Gain and Digestibility*
 - Mr. Ishtiaq **Title:** *Causes of variation in nutrient composition, feeding values and fatty acid, content in maize silages."*
 - Mr. Muhammad Baseer **Title:** *Efficacy of fungal and bacterial origin phytase for broiler chickens*
 - Mr. Muhammad Tauqeer **Title:** *Use of hemp seed (Cannabis sativa cake as a protein source for broiler chickens*
 - Mr. Muhammad Samiullah **Title:** *Comparative efficacy of commercial broiler rations and its effect on the environmental pollution*
 - Mr. Muhammad Tehseen **Title:** *Additive effect of Nigella sativa and ginger on the nutrient . . . digestibility performance and lipid profile of broiler chicks*

- Mis. Tahira Substitution Title: *Effect of wheat Bran with Grinded citrus peels in urea Molasses Block (UMB) for feeding to lactating Dairy Cows*
- Mis.Saima Title: *Replacement of wheat bran with groundnut shells in urea molasses block (UMB) for feeding lactating Dairy cows.*
- Mis Aisha Title: *Replacement of Wheat Bran with potato peels in urea Molasses block (UMB) for feeding lactating Dairy Cow*
- Mr. Muhammad Rizwan Title:
- Mr. Muhammad Noman khan Title:
- Mr. Irfan khan Title:
- Mr. Rohullah Muhammadi Title:
- Mr. Shawali Title:
- Mr. Kasif Title:
- Mr.Khdim Hussain Title:
- Ms. Hajmeeda Title:

Hobbies:

- Net Surfing, Books Reading, Plantation, Gardening, traveling and playing cricket.

Languages:

- Urdu English Pushto Hindko

Other service Experiences:

- Organizing and execution of training (for extension workers and farmers in livestock and poultry production)
- Curriculum development, development of extension messages, extension tools execution of field days,
- Conducting Need assessment Analysis, Rural Rapid Appraisal (RRA) and Participatory Rapid Appraisal (PRA) techniques of community development, and Report writing.
- Focal Person Feed Mill Department Animal Nutrition The University of Agriculture Peshawar.
- Laborites Incharge Department Animal Nutrition The University of Agriculture Peshawar.
- Production of Feed and Urea molasses blocks Department Animal Nutrition, The University of Agriculture Peshawar.
- Departmental Focal Person Quality Enhancement Cell The University of Agriculture Peshawar

Publication: (Impact Journals)

Khan, M. T., N. A. Khan, M. Bezabih, M. S. Qurashi, and A. Rehman. 2012 The Nutritional Value of Peanut Hay (*Arachis Hypogae*) As an Alternate Forage Source for Sheep *Tropical Animal Health and Production*

Sultan, A., R. Ullah, S. Khan, **M.T. Khan,** H. Khan, and I.U. Zaman 2014 Nutrient Digestibility Values and Apparent Metabolizable Energy of Corn, Wheat and Sorghum by Pheasants (*Phasianus colchicus*) *Pakistan Veterinary Journal*

Khan, M. T., Z. A. Bhutto, S. H. A. Raza, M. Saeed, M. A. Arain, M. Arif, S. A. Fazlani, M. Ishfaq, F. A. Siyal, M. Jalili, and A. Moshaveri 2016 Supplementation of Different Level of Deep Stacked Broiler Litter as a Source of Total Mixed Ration on Digestibility in Sheep and Their Effects on Growth Performance *J. World Poult. Res.* 6(2): 73-83, June 25

Khan, M. T., M. I. Khan, S. H. A. Raza, M. A. R. Khan, S. M. Hossein, S. F. S. Shahzada, K.A. shah, M. A. Khan, A. Ahmad, 2017 Effect of Urea Treated Groundnut Shells on Feed Intake, Digestibility, Nitrogen Retention and Economic Value in Growing Rabbits *International Journal of Poultry and Fisheries Sciences*

Hussain, S. M., Herling, V. R., Rodrigues, P. H. M., Naz, I., Khan, H., & **Khan, M. T.** (2018). Mini review on photosensitization by plants in grazing herbivores. *Tropical animal health and production*, 1-11. Jun;50(5):925-935.doi: 10.1007/s11250-018-1583-x. Epub 2018 Apr 6.

Mobashar, M., Tahir, M., Javaid, S., Anjum, M. I., Gul, I., Nazir, A., & Sami, A. (2018). Nutritional evaluation of various stages of maturity of oat hay and its effect on milk production and composition in lactating holstein friesian cows. *Pakistan Journal of Zoology*, 50(6).

Iqbal, N., **Khan, M.T.**, Amanullah, H., Din, I., Khan, H., Shah, M. and Mushtaq, M., 2019. Effect of feeding different levels of discarded date palm (*Phoenix dactylifera*) on digestibility, milk yield, and composition in Damani sheep. *Tropical Animal Health and Production*, pp.1-6.

Mobashar, M., Aqeel, Q., Khan, M. T., Shah, A. A., Abdel-Wareth, A. A., Khan, S., ... & Amanullah, H. (2021). Dietary Supplementation Effect of Alfalfa and Prangos pabularia Hay on Feed Intake, Growth, and Nutrient Degradability in Kari Sheep. *Pakistan Journal of Zoology*, 53(6).

Khan, M. T., Ahmad, N., Khan, N. A., Ullah, H. A., & Ullah, S. (2023). Inclusion of the fungus *Pleurotus florida* in the diet affects performance and feed efficiency traits in calves: a case study on Ravi buffalo. *Tropical Animal Health and Production*, 55(6), 390.

Ullah, N., Khan, M. T., Naz, S., Alhidary, I. A., Khan, R. U., Losacco, C., ... & Tufarelli, V. (2023). Blood metabolic pattern and somatic cells dynamic in Achai and Holstein Friesian cows during transition period. *Reproduction in Domestic Animals*.

Mobashar, M., Khan, M. T., Marjan, M., Ahmad, S., Farooq, U., Khalid, M. F., ... & Abdel-Wareth, A. A. (2023). Urea molasses mineral block under various feeding systems improved nutrient digestibility, productive performance and blood biochemical profile of Yaks. *BMC Veterinary Research*, 19(1), 149.

Ehsan, S., Khan, M. T., Khan, H., Tunio, M. T., Hussain, A., Shuaib, M., ... & Siddiqui, S. A. (2024). Effect of Moringa oleifera Leaves Supplementation via Urea Molasses Block on Milk Yield and Composition, Hematological and Blood Biochemical Profile in Azikheli Buffaloes.

Gul, F., Amin, H., Naz, S., Khan, M. T., Alhidary, I. A., Khan, R. U., ... & Tufarelli, V. (2024). Evaluation of blood minerals and oxidative stress changing pattern in prepartum and postpartum Achai and Holstein Friesian dairy cows. *Reproduction in Domestic Animals*, 59(1), e14525.

Paper Submitted:

Number of paper in Impact Journals