

Dr. Muhammad Tahir

Associate Professor

Poultry/Animal Nutrition

PhD (Japan)

Postdoc (USA)

Impact Factor: 36

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Personal Information

Name : **Dr. Muhammad Tahir**

Father's Name : **SAMEEN JAN**

Date of birth : September 11, 1970

CNIC # : 17201-9117929-9

Birth Place and Domicile : Nowshera

Citizenship : PAKISTAN

Permanent address : Mohalla Hoti Khail P/O Nowshera Kalan, Nowshera,
Khyber Pakhtunkhwa, Pakistan.

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Agriculture Peshawar, Pakistan.

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Languages : English, Urdu, Pashto (*Speak, Read and Write*)
Arabic (*Read*) & Japanese (*Speak*)

ACADEMIC QUALIFICATION:

Degree/ Certificate	Year	Major Subject	University/Board
Post Doc	2010-11	Poultry Science/Nutrition	The University of Georgia, USA
PhD	2004-07	Poultry Science/Nutrition	Kagoshima University, JAPAN
Res. Fellowship	2003-04	Poultry Science/Nutrition	Kagoshima University, JAPAN
M.Sc. (Hons)	1995-97	Animal Science	The University of Agriculture, Peshawar, PK
B.Sc. (Hons)	1991-95	Animal Science	The University of Agriculture, Peshawar, PK
H.S.S.C	1991	Pre-Medical	Federal Board of Intermediate and Secondary Education (FBISE), Islamabad, PK
S.S.C	1988	Science	Board of Intermediate and Secondary Education (BISE), Peshawar, KPK, PK

DISTINCTION:

1. Distinction certificate for 1st position in B.Sc. (Hons) among all the successful students, Faculty of Animal Husbandry & Veterinary Sciences, The University of Agriculture, Peshawar.
2. Distinction certificate for 1st position in M.Sc. (Hons) among all the successful students, Faculty of Animal Husbandry & Veterinary Sciences, The University of Agriculture, Peshawar.

ACHIEVEMENTS:

1. Prestigious Overseas - **Islamic Development Bank (IDB) Merit** Postdoctoral Research Scholarship/Fellowship for the period of 2009-10.

2. Worked as an **Exchange Visiting Professor/Postdoctoral Researcher** at the Department of Poultry Science from Feb 1st, 2010 to April 30th, 2011. **The University of Georgia**, Athens, GA, USA.
3. Japanese Government **Monbukagakusgo** Scholarship awarded in 2003 for higher education leading to PhD.
4. Accredited as **HEC Approved Supervisor** for PhD level students funded under various HEC in-country Scholarship Programs.

EMPLOYMENT RECORD:

Institution	Position	From	To
Animal Nutrition, The University of Agriculture, Peshawar, Pakistan	Associate Professor	May 13, 2014	To-date
Animal Nutrition, The University of Agriculture, Peshawar, Pakistan	Assistant Professor	Jan 12, 2009	May 12, 2014
Animal Nutrition, The University of Agriculture, Peshawar, Pakistan	Lecturer	Sep 01, 2000	Jan 11, 2009
Animal Husbandry and Veterinary Sciences, The University of Agriculture, Peshawar, Pakistan	Assistant Manager Dairy Farm	Sep 5, 1997	Nov 15, 1997
Animal Agriculture Services (AAS) Regd. Peshawar, Khyber Pakhtunkhwa, Pakistan	Consultant	July 1996	Dec 1999

TEACHING EXPERIENCE:

COURSES TAUGHT TO GRADUATE STUDENTS:

- i. Poultry Nutrition
- ii. Feed Evaluation, Processing & Formulation
- iii. Nutrient requirement of Livestock/Poultry

- iv. Biochemistry of Metabolism
- v. Animal Feed Resources/Forage Conservation

COURSES TAUGHT TO POST-GRADUATE STUDENTS:

- i. Avian (Poultry) Nutrition
- ii. Protein Metabolism
- iii. Energy Metabolism
- iv. Vitamin Nutrition
- v. Advanced Feed Industry
- vi. Ruminant Nutrition
- vii. Feeds and Feeding

COURSES TAUGHT TO POSTDOCTORAL STUDENTS:

- i. Bioenergetics
- ii. Advance Analytical Techniques

RESEARCH EXPERIENCE:

- Supervised M. Sc (Hons) students in the field of Poultry Science
- PhD students are under supervision

FIELD OF SPECIALIZATION:

- ***POULTRY SCIENCE → NUTRITION, MANAGEMENT, BIOTECHNOLOGY***

Area of Interest:

- To investigate the effect of dietary feed enzymes in poultry feed on:
 - i) Growth performance,
 - ii) Digestibility of nutrients (energy, amino acids, lipids, carbohydrates and minerals) to clarify the mechanism of its digestion stimulating action,
 - iii) The regulation of the gastrointestinal physiology (gastrointestinal hormone, motility, pancreatic enzyme secretion and the gut microflora).
- To search the bioactive components in Animal/Poultry feed,

- To evaluate indigenous source of rock phosphate for P bioavailability,
- To investigate the influence of total AAs concentration on observed digestibility values, ingredient usage and feed costs for broiler, layer and turkey diets,
- To work on the relationship of egg and chick weights,
- Working on NIR techniques especially in poultry/animals.

PUBLICATIONS: (Impact Factor: 15.528)

1. **Tahir, M.**, and M. Syed. 2001. Effect of rising ambient temperature and humidity beyond thermoneutral zone on production performance of exotic and Sahiwal cattle in NWFP. *Sarhad J. Agric.* 17: 481 – 487
2. Saleh, F., **M. Tahir**, A. Ohtsuka, and K. Hayashi. 2005. A mixture of pure cellulase, hemicellulase and pectinase improves broiler performance. *Br. Poult. Sci.* 46: 602 – 606 (IF: 1.033)
3. **Tahir, M.**, F. Saleh, A. Ohtsuka, and K. Hayahsi. 2005. Synergistic effect of cellulase and hemicellulase on nutrient utilization and performance in broilers fed a corn–soybean meal diet. *Anim. Sci. J.* 76: 559 – 565. (IF: 0.665)
4. **Tahir, M.**, F. Saleh, A. Ohtsuka, and K. Hayahsi. 2006. Pectinase plays an important role in stimulating digestibility of a corn-soybean meal diet in broilers. *J. Poult. Sci.* 43: 323 – 329 (IF: 1.074)
5. Yamamoto M., F. Saleh, **M. Tahir**, A. Ohtsuka, and K. Hayashi. 2007. The Effect of Koji-feed (Fermented Distillery By-Product) on the Growth Performance and Nutrient Metabolizability in Broiler. *J. Poult. Sci.* 44:291 – 296 (IF: 1.074)
6. **Tahir, M.**, F. Saleh, A. Ohtsuka, and K. Hayashi. 2008. An effective combination of carbohydrases that enables reduction of dietary protein in broilers: importance of hemicellulase. *Poult. Sci.* 87:713 – 718 (IF: 1.582)
7. Alam, R., A. Iqbal, I. Khan, I. Ali, I. Munir, **M. Tahir**, N. Jan, Z. A. Swati. 2011. Carbon and nitrogen stoichiometry in Brassica napus L. seedlings after supplementation with Ca²⁺ and K⁺ under irrigated and drought stress conditions. *African J. Biotech.* 10:18418 – 18434 (IF: 0.70)
8. **Tahir, M.**, and G. M. Pesti. 2011. Broiler performance, hatching egg and age relationships of progeny from standard and dwarf broiler dams. *Poult. Sci.* 90: 1364 – 1370 (IF: 1.582)
9. **Tahir, M.**, A. B. Lughmani, and G. M. Pesti. 2011. Evaluation of an indigenous source of rock phosphate as a supplement for broiler chickens. *Poult. Sci.* 90:1983 – 1991 (IF: 1.582)

10. **Tahir, M.**, M. Y. Shim, N. E. Ward, C. Smith, E. Foster, A. C. Guney and G. M. Pesti. 2012. The phytate and other nutrient compositions of feed ingredients for poultry. *Poult. Sci.* 91:928 – 935 (IF: 1.582)
11. **Tahir, M.**, M.Y. Shim, N. E. Ward, M. O. Westerhaus and G. M. Pesti. 2012. Evaluation of near-infrared reflectance spectroscopy (NIRS) techniques for total and phytate phosphorus of common poultry feed ingredients. *Poult. Sci.* 91:2540 – 2547 (IF: 1.582)
12. Shim, M. Y., **M. Tahir**, A. B. Karnuah, M. Miller, T. D. Pringle, S. E. Aggrey and G. M. Pesti. 2012. Strain and sex effects on growth performance and carcass traits of contemporary commercial broiler crosses. *Poult. Sci.* 91:2942 – 2948 (IF: 1.582)
13. **Tahir, M.**, and G. M. Pesti. 2012. A comparison of digestible amino acid data bases: relationship between amino acid concentration and digestibility. *J. Appl. Poult. Res.* 21:1 – 12 (IF: 0.745)
14. **Tahir, M.**, and G. M. Pesti. 2012. Comparison of ingredient usage and formula costs in poultry feeds using different amino acid digestibility data bases. *J. Appl. Poult. Res.* 21:693 – 705 (IF: 0.745)

CONFERENCES (Oral): (Impact Factor: 19.952)

1. A. C. Guney, M. Y. Shim, **M. Tahir**, A. B. Batal, and G. M. Pesti. 2012. Nutritional evaluation and economic analysis of low-oil corn distillers dried grains with solubles. **Poultry Science Association 101st Annual Meeting program**, The Georgia Center, Athens, Georgia, Poult. Sci. 91 (Suppl. 1) :P45, 127 (**IF: 1.582**)
2. Miller, M., M. Y. Shim, **M. Tahir**, A. Karnuah, S. Aggrey, G. Pesti, and D. Pringle. 2012. Strain and gender effects on broiler meat quality. **2012 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 23-24, 2012, Poult. Sci. 91 (Suppl. 1) :P182, M1 (**IF: 1.582**)
3. Shim, M. Y., **M. Tahir**, A. Karnuah, M. Miller, D. Pringle S. Aggrey, and G. Pesti. 2012. Strain and sex effects on growth performance, and carcass traits of contemporary cross broilers. **2012 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 23-24, 2012, Poult. Sci. 91 (Suppl. 1) :P184, M7 (**IF: 1.582**)
4. **Tahir, M.**, A. Batal, M. Y. Shim, and G. Pesti. 2012. Economic importance of dietary feed enzymes on the performance of broiler chickens. **2012 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 23-24, 2012, Poult. Sci. 91 (Suppl. 1) :P203, M70 (**IF: 1.582**)
5. **Tahir, M.**, M. Y. Shim, N. Ward, and G. Pesti. 2012. NIRS calibrations for total and phytate P in poultry feed ingredients. **2012 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 23-24, 2012, Poult. Sci. 91 (Suppl. 1) :P207, M85 (**IF: 1.582**)
6. **Tahir, M.** and G. M. Pesti. 2011. Relationship between amino acid concentration and digestibility using the two amino acids digestibility datasets. **2011 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 24-25, 2011, Poult. Sci. 90:P211, 17 (**IF: 1.582**)
7. Sodsee. P., **M. Tahir**, B. Sebastian, S. E. Aggrey, and G. M. Pesti. 2011. Effect of balanced dietary protein levels on egg production and egg quality parameters in commercial layers. **2011 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 24-25, 2011, Poult. Sci. 90:P228, 70 (**IF: 1.582**)
8. **Tahir, M.** H. Cervantes, C. W. Farmer, and G. M. Pesti. 2011. Relationships of egg and chick weight on the performance of progeny from standard and dwarf broiler dams. **2011 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 24-25, 2011, Poult. Sci. 90:P231, 79 (**IF: 1.582**)
9. **Tahir, M.**, A. B. Lughmani, N. Ahmed, and G. M. Pesti. 2011. Hazara rock phosphate as a source of phosphorus for broiler chickens. **2011 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 24-25, 2011, Poult. Sci. 90:P236, 95 (**IF: 1.582**)

10. **Tahir, M.**, P. Sodsee, and G. M. Pesti. 2011. Poultry feed formulation results from different digestible amino acid databases. **2011 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 24-25, 2011, *Poult. Sci.* 90:P246-247, 128 (IF: 1.582)
11. **Tahir, M.**, F. Saleh, A. Ohtsuka, and K. Hayashi. 2008. Effective combination of cell wall degrading enzymes that can successfully reduce energy and protein contents of broiler feed. **XXIII World's Poultry Congress**, Brisbane, Australia. 30 June – 4 July, 2008. (IF: 1.476)
12. Saleh, F., M. Yamamoto, **M. Tahir**, A. Ohtsuka, and K. Hayashi. 2006. A new natural feed additive for broiler chickens. **Poultry Science Association Annual Meeting**, Edmonton, Canada. *Poult. Sci.* 85:P36, 54 (IF: 1.582)
13. **Tahir, M.**, F. Saleh, A. Ohtsuka, and K. Hayashi. 2005. Concerted effect of Pectinase, cellulase and Hemicellulase on the digestibilities of corn-soybean meal diet in broiler. **J. Poult. Sci.** P68, 119-45. (IF: 1.074)

CONFERENCES (Poster):

1. Pesti, G. M., C. J. Smith, M. Y. Shim, **M. Tahir**, and N. E. Ward. 2011. The phytate phosphorus content of poultry feed ingredients. **2011 International Poultry Scientific Forum**, Georgia World Congress Center, Atlanta, Georgia, USA, January 24-25, 2011, *Poult. Sci.* P270, 206P (IF: 1.582)

CONFERENCE ATTENDED:

1. **Georgia International Poultry Course**. 2010. The University of Georgia, Athens, Georgia, USA. February 1st to 4th, 2010.
2. **2010 Georgia Poultry Conference**. Classic Center Athens, Georgia, USA. September 28th & 29th, 2010. www.poultry.uga.edu/gaconference10.htm

WORKSHOP ATTENDED:

1. Non Destructive Analysis of Agricultural Products. Organized by NIFA and NWFP Agricultural University, Peshawar from July 18 to 19, 2007.

SEMINARS ATTENDED (at The University of Georgia, Athens, GA, USA, 2010):

1. Scott Angle. 2010. The Future of Agriculture. August 23rd, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
2. Rick Gerhold. 2010. Coccidiosis in Game Birds. August 30th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
3. Whitney Boozer. 2010. Insecticide Resistance in Darking Beetles. September 13th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
4. Jason Perry. 2010. Carbon Foot Print 101 for the Poultry Industry. September 20th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
5. Maricarmen Garcia. 2010. TBA. September 27th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
6. Kok-meng Lee. 2010. Automated Transfer System. October 4th, 2010. Department of Poultry Science, The University of Georgia, Athens, GA, USA.
7. Amanda Ritter and Lori Lollis. 2010. TBA/Histomoniasis. October 11th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
8. Miguel Cabrera. 2010. Litter Hormone Project. October 18th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
9. Ryan Adolphon. 2010. Engineering Outreach at UGA. October 25th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
10. Ashley Gam. 2010. Stress Hormones and Sex Ratios in Zebra Finches. November 1st, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
11. Egbert Mundt. 2010. Viral Metagenomics in the Chicken Gut. November 8th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
12. David Anderson. 2010. The Automatic Processing of Sounds in Noise. November 15th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
13. Holly Seller. 2010. Variant Infectious Bronchitis Viruses. November 29th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
14. Erica Spackman. 2010. Antigenic Cartography as a Method to Improve Poultry Vaccines. December 6th, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.

TRAINING ABROAD:

1. **Introduction to Quantitative Analysis using Infrared Spectroscopy (FT-NIR). March 5, 2009** at PerkinElmer Life and Analytical Science Ltd Chalfont Road, Seer Green, Beaconsfield, UK.
2. **Advanced Quantitative Analysis using Infrared Spectroscopy (FT-NIR). March 6, 2009** at PerkinElmer Life and Analytical Science Ltd Chalfont Road, Seer Green, Beaconsfield, UK.

TRAINING IN-LAND:

1. Certificate of successful completion of the 3 weeks training program on "**Diagnosis of Equine Diseases & Treatment**" held in June, 1995 at Brooks Hospital for Animals, Peshawar.
2. Certificate of successful completion of the training on "**TRAINING OF PRESIDING OFFICERS**" held on 8th December 2007 at Peshawar.

ADDITIONAL ACADEMIC TASKS:

- Member of the Board of Studies in Animal Nutrition Department, Agricultural University, Khyber Pakhtunkhwa, Peshawar, Pakistan.

OTHER ACTIVITIES:

- Served as a member of the Agricultural University, Peshawar, timetable committee from 2000 to 2003.