



## ***ACADEMIC QUALIFICATION:***

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<b><i>Degree/Certificate</i></b>	<b><i>Year</i></b>	<b><i>Marks (%)</i></b>	<b><i>Grade/CG PA</i></b>	<b><i>University/Board</i></b>
Post Doc	2010-11	-	-	The University of Georgia, USA
PhD	2004-07	-	-	Kagoshima University, JAPAN
Research Fellowship	2003-04	-	-	Kagoshima University, JAPAN
M.Sc. (Hons)	1995-97	82.10	3.80/4	KPK Agricultural University Peshawar, PK
B.Sc. (Hons)	1991-95	86.42	3.94/4	KPK Agricultural University Peshawar, PK
F.Sc. (HSSC)	1991	66.00	1 <sup>st</sup> Div	Federal Board of Intermediate and Secondary Education (FBISE), Islamabad, PK
Matric (SSC)	1988	72.29	1 <sup>st</sup> Div	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.
2. Distinction certificate for 1st position in M.Sc. (Hons) among all the successful students, Faculty of Animal Husbandry & Veterinary Sciences.

## ***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 1<sup>st</sup>, 2010 to Jan 31<sup>st</sup>, 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.
- 5.

## ***EMPLOYMENT RECORD:***

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<b><i>Institution</i></b>	<b><i>Position</i></b>	<b><i>From</i></b>	<b><i>To</i></b>
Animal Nutrition, KPK Agricultural	Assistant Professor	Jan 12, 2009	To-date

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University Peshawar, Pakistan

(TTS)

Animal Nutrition, KPK Agricultural  
University Peshawar, Pakistan

Lecturer

Sep 01, 2000    Jan 11, 2009

Animal Husbandry and Veterinary  
Sciences, KPK Agricultural  
University 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. Nutrient requirement of Livestock/Poultry
- ii. Animal Feed Resources/Forage Conservation
- iii. Biochemistry of Metabolism
- iv. Feed Evaluation, Processing & Formulation

### ***COURSES TAUGHT TO POST-GRADUATE STUDENTS:***

- i. Avian (Poultry) Nutrition
- ii. Protein Metabolism
- iii. Energy Metabolism

- iv. Vitamin Nutrition
- v. Advanced Feed Industry

## ***COURSES TAUGHT TO POSTDOCTORAL STUDENTS:***

- i. Bioenergetics

## ***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 poultry feed,

To investigate the total concentration of AAs within ingredient type and its influence on observed digestibility values,

To determine how different amino acid digestibility values influence ingredient usage and feed costs for broiler, layer and turkey diets,

To determine the effect of egg and chick weights in accounting for any differences in progeny of standard and dwarf dams,

To develop prediction equations relating egg and chick weights to broiler body weights,

To evaluate indigenous source of rock phosphate for the bioavailability of phosphorus,

To establish procedures for the removal of toxic mineral and end up in a purified and biologically safe product as phosphorus source for poultry feed industry,

To evaluate the economic return by substituting the imported phosphorus source with the locally available phosphorus source, and

Working on NIR techniques specially in poultry/animals.

## **PUBLICATIONS:**

1. **Tahir, M.**, and G. M. Pesti. 2011. Broiler performance, hatching egg and age relationships of progeny from standard and dwarf broiler dams. *Poult. Sci.* (Accepted).
2. **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.* (Accepted).
3. **Tahir, M.**, and G. M. Pesti. 2011. A comparison of digestible amino acid data bases: relationship between amino acid concentration and digestibility. *J. Appl. Poult. Res.* (submitted).
4. **Tahir, M.**, and G. M. Pesti. 2011. Comparison of ingredient usage and formula costs in poultry feeds using different amino acid digestibility data bases. *J. Appl. Poult. Res.* (submitted).
5. Pesti, G. M., and **M. Tahir**. 2011. Broiler response model to estimate the economic and environmental impacts of dietary feed additives. *J. Appl. Poult. Res.* (Ready for submission).
6. Sodee, 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. (Ready for submission).
7. **Tahir, M.**, F. Saleh, M. Amjed, 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.
8. 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.
9. **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.
10. **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.
11. 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.

12. **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.
- 13.

### **CONFERENCES (Oral):**

1. **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** held on Jan. 24-25, 2011, at the Georgia World Congress Center in Atlanta, GA, USA.
2. **Tahir, M.** 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** held on Jan. 24-25, 2011, at the Georgia World Congress Center in Atlanta, GA, USA.
3. **Tahir, M.** and G. M. Pesti. 2011. Hazara rock phosphate as a source of phosphorus for broiler chickens. **2011 International Poultry Scientific Forum** held on Jan. 24-25, 2011, at the Georgia World Congress Center in Atlanta, GA, USA.
4. **Tahir, M.**, P. Sodsee, and G. M. Pesti. 2011. Poultry feed formulation results from different digestible amino acid databases. **2011 International Poultry Scientific Forum** held on Jan. 24-25, 2011, at the Georgia World Congress Center in Atlanta, GA, USA.
5. 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** held on Jan. 24-25, 2011, at the Georgia World Congress Center in Atlanta, GA, USA.
6. **Tahir, M.**, Saleh, F., Ohtsuka, A. 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 (Abstract).
7. Saleh, F., Yamamoto M, **Tahir, M.**, Ohtsuka, A. and K. Hayashi. 2006. A new natural feed additive for broiler chickens. **Poultry Science Association Annual Meeting**, Edmonton, Canada. P36, 54. (Abstract).



8. **Tahir, M.**, Saleh, F., Ohtsuka, A. 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, II19-45. (Abstract).

### ***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** held on Jan. 24-25, 2011, at the Georgia World Congress Center in Atlanta, GA, USA.
- 2.

### ***CONFERENCE ATTENDED:***

1. **Georgia International Poultry Course.** 2010. The University of Georgia, Athens, Georgia, USA. February 1<sup>st</sup> to 4<sup>th</sup>, 2010.
2. **2010 Georgia Poultry Conference.** Classic Center Athens, Georgia, USA. September 28<sup>th</sup> & 29<sup>th</sup>, 2010. [www.poultry.uga.edu/gaconference10.htm](http://www.poultry.uga.edu/gaconference10.htm)
- 3.

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

1. Scott Angle. 2010. The Future of Agriculture. August 23<sup>rd</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
2. Rick Gerhold. 2010. Coccidiosis in Game Birds. August 30<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
3. Whitney Boozer. 2010. Insecticide Resistance in Darking Beetles. September 13<sup>th</sup>, 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 20<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
5. Maricarmen Garcia. 2010. TBA. September 27<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
6. Kok-meng Lee. 2010. Automated Transfer System. October 4<sup>th</sup>, 2010. Department of Poultry Science, The University of Georgia, Athens, GA, USA.

7. Amanda Ritter and Lori Lollis. 2010. TBA/Histomoniasis. October 11<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
8. Miguel Cabrera. 2010. Litter Hormone Project. October 18<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
9. Ryan Adolphon. 2010. Engineering Outreach at UGA. October 25<sup>th</sup>, 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 1<sup>st</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
11. Egbert Mundt. 2010. Viral Metagenomics in the Chicken Gut. November 8<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
12. David Anderson. 2010. The Automatic Processing of Sounds in Noise. November 15<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.
13. Holly Seller. 2010. Variant Infectious Bronchitis Viruses. November 29<sup>th</sup>, 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 6<sup>th</sup>, 2010, Department of Poultry Science, The University of Georgia, Athens, GA, USA.

### ***WORKSHOP ATTENDED:***

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

### ***TRAINING ABROAD:***

1. **Introduction to Quantitative Analysis using Infrared Spectroscopy (FT-NIR). March 5, 2009** at PerkinElmer Life and Analytical Science Ltd Chalfront Road, Seer Green, Beaconsfield, UK.
2. **Advanced Quantitative Analysis using Infrared Spectroscopy (FT-NIR). March 6, 2009** at PerkinElmer Life and Analytical Science Ltd Chalfront Road, Seer Green, Beaconsfield, UK.
- 3.

## ***TRAINING ACQUIRED:***

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 8<sup>th</sup> December 2007 at Peshawar.