

# DR. MALIK MUHAMMAD HASHIM

HEC (Pakistan) Approved PhD Supervisor

**Current Position:** Assistant Professor  
Department of Food Science and Technology  
Faculty of Agriculture, Gomal University  
Dera Ismail Khan, Pakistan

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## 1 Education

July, 2011 Nanjing Agricultural University, Nanjing, PR China  
Ph.D., Food Science & Technology  
Dissertation: Purification and characterization of vegetal rennet from ginger rhizomes with technological manipulation to cheese development  
Supervisor: Professor Dr. Dong Mingsheng

February, 2005 NWFP Agricultural University, Peshawar, Pakistan  
Master of Sciences (Hons), Food Science & Technology  
Thesis: Effect of gamma irradiation on the quality and storage stability of dehydrated apple  
Supervisor: Mr. Yasser Durrani

November, 2002 Gomal University, Dera Ismail Khan, Pakistan  
Bachelor of Science (Hons), Food Science & Technology

## 2 Awards and Honours

- 'Overseas Ph.D. Scholarship' from Higher Education Commission, Pakistan, 2007-2011
- Won a project titled "Enhancement of quality & storage stability of Dhakki dates using advanced technology" worth PKR 4.099 million from ALP, PARC
- Topped NWFP Public Service Commission Examination for Research Officer (Food Technology), NWFP Agricultural Research System
- Gold Medal in B.Sc. (Hons), Gomal University, Dera Ismail Khan
- Silver Medal in M.Sc. (Hons), NWFP Agricultural University, Peshawar

### **3 Professional Experience**

- Assistant Professor, Department of Food Science & Technology, Faculty of Agriculture, Gomal University, D.I.Khan from April 07, 2014 to date.
- Lecturer, Department of Food Science & Technology, Faculty of Agriculture, Gomal University, D.I.Khan from November 17, 2007 to April 06, 2014.
- Research Officer, Food Technology Section, Agricultural Research Institute, Dera Ismail Khan from January 19, 2005 to November 16, 2007.

### **4 Member/Committees Assigned**

- Pakistan Society of Food Scientist and Technologists
- Pakistan Society of Sugar Technologists
- Board of Studies, Department of Food Science & Technology, Faculty of Agriculture, Gomal University, D.I.Khan
- Semester System Examination Committee of Faculty of Agriculture, Gomal University, D.I.Khan

### **5 Research Interest**

- Ultrasound and other non-thermal processing techniques of fruit and vegetable juices
- Post-harvest technology of fresh fruit and vegetables
- Food Enzymology (Purification, characterization of enzymes and their industrial application)
- Dairy Science and Technology (Cheese development, Proteolysis, Physicochemical, Microbiological, Sensory analysis)
- Preservation and processing of fruit and vegetable products as well as their value addition

### **6 Paper Presentation (National/International Level)**

- “Effect of gamma irradiation on the quality and storage stability of dehydrated apple” in 15th All Pakistan Food Science Conference, Nov 30, 2004, NWFP Agricultural University, Peshawar.
- “Functional role of sugar in food industries” in 40th Annual Convention of Pakistan Society of Sugar Technologist (PSST), 5-7 September, 2005, Karachi.

- “Water activity and sensorial quality of osmotically dehydrated apricot” in International Food and Beverages Conference, 3-4 October, 2005, Lahore.
- “Sucrose (table sugar) and foods” in 16th All Pakistan Food Science Conference, Jan 25, 2005, University of Agriculture, Faisalabad.
- “Quality analysis and storage stability of irradiated Dhakki dates” in 4th Date Palm Symposium, May 05-08, 2007, Hofuf, Saudi Arabia.
- “Quality profiling of gamma irradiated ready-to-eat chicken rolls” in 5<sup>th</sup> International Poultry Conference, March 10-13, 2009, Taba, Egypt.
- “Influence of different amounts of starter cultures on the quality of yoghurt prepared from buffalo milk” in 6<sup>th</sup> Asian Buffalo Congress, October 27-30, 2009, Lahore.
- “Impact of processing conditions on the milk clotting activity of crude protease extracted from Chinese ginger” in 2011 International Conference on Food Engineering & Biotechnology, May 28-29, 2011, Bangkok, Thailand.
- “Promising future strategies for enteric methane mitigation at animal and microbe level” in International Livestock Nutrition Conference, October 23-24, 2013, Lahore.
- “Cellular and molecular mechanisms underlying the antioxidant and anti-inflammatory activities of hesperidin in chickens” in 2<sup>nd</sup> International Workshop on Dairy Science Park, November 18-20, 2013, Peshawar.

## **7 Research Publications**

### **Journals**

National	10
International	10

### **Conference Proceedings**

National	02
International	04

## **8 Trainings/Courses**

- 03 months computer training course at University Computer Academy, DIKhan from December 01, 1999 to February 29, 2000.
- 02 months computer training course at Rahman Computer Academy, DIKhan from January 15, 2002 to March 15, 2002.

- Training Course on "Preservation and Processing of Different Food Products" at Food Technology Section, A.R.I, Tarnab, Peshawar held from May 17-21, 2004.
- Training Course on "Apiculture" at Entomology Section, A.R.I, Tarnab, Peshawar held from May 24-27, 2004.
- 21<sup>st</sup> training course on "Nuclear and Advanced Techniques in Food & Agricultural Research", Organized by the NIFA, Tarnab, Peshawar from September 13-24, 2004.
- 02 months "Chinese Language Course" at College of International Education and Exchange, Tianjin Normal University, Tianjin, PR China from June 30 to August 31, 2007.

## **9 Student Supervision**

### **Supervisor**

- 01 Ph.D. Scholar (in progress)
- 06 M.Phil. Students (in progress)

### **Co-supervisor**

- 01 Ph.D. Scholar (in progress)
- 02 M.Phil. Students (in progress)