Dr. Ali Akbar

HEC Approved Supervisor

Research Areas: Food Microbiology / Biotechnology, Environmental Microbiology, Nano-Biotechnology, Bioprocess Technology and Microbial Metabolites/Enzymes.

Research Interests: Food safety, Biopreservation/Protective Culturing, Active packaging, Novel antimicrobials, Nanofoods and Lactic acid bacteria/Bacteriocin.

Publications (Journals)


gastric fluids. *Journal of Food Science and Technology*, (online first) DOI 10.1007/s13197-014-1354-2


**Abstract (Conference)**


**Book Chapters**


**Personal Languages**: English, Pashto and Urdu.


**Experience**

PhD Scholar (2010- 2014) Asian Institute of Technology (AIT), Thailand.

Research topic: “Prevalence and bio-control of foodborne pathogens (*Salmonella* and *Staphylococcus aureus*) in raw and ready-to-eat poultry meat”

**University of Balochistan Quetta**

University of Balochistan is a public sector university, which provides quality and research based education. It was established in 1970, presently containing eight faculties.

**Designation**

Assistant Professor (TTS) (Dec. 2014 - to date)

**Responsibilities**

- Supervising master and doctoral students in research and academics
- Conducting research for different projects
- Teaching and designing graduate and undergraduate level courses
- Member examination committee
- Member advisory committee

**Designation**

Lecturer (June 2007-Nov. 2014)

**Responsibilities**

- Teaching and research.
- Member examination committee.
- Bacteriology laboratory in-charge.
Courses taught
- Environmental Microbiology and Public Health (M. Sc)
- Marine Microbiology (M. Sc)
- General Mycology and Medical Microbiology (M. Sc)
- Food & Dairy Microbiology (M. Sc)
- Basic Biochemistry (B.S)
- Advances in Applied Microbiology (PhD)

Experience

**Experience** Sep. 2006 to June 2007
**Designation** Water Quality Monitoring Officer
**Responsibilities**
- Bacteriological and chemical analysis of drinking and waste water.
- Catchment and risk assessment, surveillance of source and distribution network.
- Training of related staff, agencies & community on health hygiene & water safety.
- Remedial actions for contaminated water and safety maintenance.

**Experience** Nov. 2005-Sept. 2006
**Designation** Quality Assurance Officer/ Food Safety
**Responsibilities**
- Food safety and GMP team member.
- Microbiological and chemical assay of raw material and final products.
- Environmental monitoring and Sampling of materials.

**Experience** Sept. 2005- Nov. 2005
**Designation** Microbiologist (Internship)
**Responsibilities**
- Environmental monitoring, media preparation, microbiological assay, MLT.
- Introduction to LAL test, sterility testing and standard culturing.

**Experience** April 2005- August 2005
**Designation** Food Safety Supervisor
**Responsibilities**
- Food safety and HACCP team member.
- Awareness and training of staff on cGMP and food safety.

**Education**
- 2010-14 **PhD** (Food Engineering and Bioprocess Technology) Asian Institute of Technology, Thailand
- 2008-10 **M. S** (Food Engineering and Bioprocess Technology) Asian Institute of Technology, Thailand
- 2003-05 **M. Sc** (Microbiology) FUUAST Karachi, Pakistan
- 2002-03 **B. Ed** (Chem, G. Sci.) University of Karachi, Pakistan
- 1999-02 **B. Sc** (Zool, Chem, Microbiol) University of Karachi, Pakistan
| Technical education           | Diploma in dispensing medicines. (Dow Medical College Karachi Pakistan)  
|                              | Diploma in laboratory technologies. (Dow Medical College Karachi Pakistan)  
| Training/workshops           |   ♦ One day training on continual improvement on ISO 9001:2000.  
|                              |   ♦ Three days training on water sampling and analysis techniques.  
|                              |   ♦ Three days training for trainer organized by UOB Quetta, Pakistan.  
|                              |   ♦ Six days training on research methodologies organized by HEC Pakistan.  
|                              |   ♦ One day biosafety training workshop organized by department of Microbiology,  
|                              |      University of Balochistan Quetta and American Society of Microbiology.  
|                              |   ♦ Two days workshop on project proposal writing by Pakistan Science Foundation  
| Membership                   | American Society of Microbiology (ASM)  
|                              | Institute of Food Technologies (IFT)  
|                              | Biological Safety Association of Pakistan (BASP)  
|                              | Pakistan Society of Microbiology (PSM)  
|                              | Medical Microbiology Association of Pakistan. (MMAP)  
| Administrative tasks         | Departmental examination committee member  
|                              | Departmental Quality Control Cell member  
|                              | [https://orcid.org/my-orcid](https://orcid.org/my-orcid)  