

ABDUL JABBAR

Curriculum Vitae

Father's Name: Abdul Raheem
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Address: Department of Biotechnology,
Mirpur University of Science and Technology (MUST),
Mirpur-10250, (AJK), Pakistan.

Field of Specialization: Structural Biotechnology/ Phytochemical Characterization

ACADEMIC RECORD

Certificate/Degree	Year	Board/ University	Percentage
Ph. D	2014	NIBGE, Faisalabad affiliated with Quaid-i-Azam University, Islamabad	80%
B. Ed (Chem, Biology)	2006	Allama Iqbal Open University, Islamabad	70%
M. Sc (Chemistry)	2004	University of The Punjab, Lahore	69%
B. Sc (Chem, Bot, Zool)	2002	University of The Punjab, Lahore	54%
F. Sc (Pre-medical)	1999	B.I.S.E. Lahore	67%
Matric (Science)	1996	B.I.S.E. Gujranwala	85%

Dissertation (Ph.D.):

“Structural and Functional Paradigm of Antigenic Lipopolysaccharides of
Indigenous Strains of Typhoidal Pathogens”

CURRENT STATUS

Working as Assistant Professor in Department of Biotechnology, Mirpur University of Science & Technology (MUST), Mirpur.

RESEARCH INTEREST

I have a keen interest to study and structurally characterize chemical compounds specially biomolecules using sophisticated and state-of-the-art analytical techniques like NMR, Mass Spectrometry (GCMS and LCMS) etc. I also have interest of isolation and purification of outer membranes of bacteria and designing and conducting research related to their structural characterization.

RESEARCH EXPERIENCE

- Eight months research experience in Clinical Research Centre, Karolinska Institute, Sweden as “International Research Support Initiative Programme (IRSIP)” trainee.
- I have more than six years research experience of bacterial isolation, their fermentor growth and cultivation, biochemical and molecular characterization and the structural analysis of bacterial lipopolysaccharides (LPS) present in outer membranes of Gram-negative bacteria using latest analytical techniques like NMR, MALDI-TOF, GC-MS and LC-MS etc.
- I have worked on the following major instruments:
 - High Pressure Liquid Chromatography (HPLC)
 - Gas Chromatograph-Mass Spectrometry(GC-MS)
 - Liquid Chromatography-Mass Spectrometry (LCMS)
 - Nuclear Magnetic Resonance (NMR) spectroscopy
 - Spectrophotometer
 - Thermal cycler (PCR)
 - Gel electrophoresis
 - SDS-PAGE
 - Fermentor

Teaching Assignments

- **Teaching Assignments:** Taught and currently Teaching BS, M.Phil. and Ph.D. courses (Introduction to Biotechnology, Protein-DNA Module, Applications of Biotechnology, Advances in Biochemistry, Analytical Chemistry & Instrumentation, Microbial Biotechnology) in the Department of Biotechnology, MUST, Mirpur.

PUBLICATIONS

- **Jabbar A.**, Ali A., Haque A., Tawab A., Iqbal M. (2014). Fatty acid profiling of lipid A isolated from indigenous *Salmonella* Typhi strain by Gas Chromatography-Mass Spectrometry. *Journal of the Chemical Society of Pakistan*. Volume**36**:Issue1, 140-149.
- Salman M, Ali A, **Jabbar A**, Sarwar Y, Rahman M, Iqbal M and Haque A. (2015). Purification and antigenic evaluation of salmonella enterica serovar typhi vi negative isolate. *EXCLI Journal* 14:1078-1084.
- **Jabbar A.**, Twelkmeyer B., Ali A., Salman, M., Haque A., Tawab A., Schweda E., Iqbal M. ESI-MSⁿ based structural analysis of lipid A extracted from *Salmonella* Typhi Vi positive and Vi negative strains. (Manuscript near to Submission).
- **Jabbar A.**, Ali A., Twelkmeyer B., Salman M., Haque A., Schweda E., Iqbal M. Comparative Structural analysis of O-specific polysaccharides isolated from lipopolysaccharides of indigenous *Salmonella* Typhi Vi positive and Vi negative strains. (Manuscript near to Submission).
- Salman, M., Micheal, S, F., Ali, A., **Jabbar, A.**, Alex, H., Charine, C., Rahman, M., Iqbal M., Haque, A. and Cox, A. D. First characterization of immunogenic conjugates of Vi negative *Salmonella* Typhi O-specific polysaccharides with rEPA protein for vaccine development. (Manuscript submitted to Human Vaccine and Immunotherapeutics).

Certificates of Oral Presentation/Participation/Awards/Honors

- Participated in the “**International workshop on X-ray Crystallography in Structural Biology**” held at National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad on 12-14 November, 2015.
- Participated in training workshop on “**Applications of Bioinformatics in Genomics**” held at U.S-Pakistan Center for advanced Studies in Agriculture and Food Security, University of Agriculture, Faisalabad on 16-17 September, 2015.
- Participated and Oral presentation at “**4th International Molecular Biology & Biotechnology Congress**” held at ISRA University, Islamabad on 04-06 September, 2015.
- Participated in 2-days Orientation Workshop on “**Policy Guidelines for Semester Examination System**” held at Mirpur University of Science & Technology (MUST), Mirpur on 27-28 August, 2015.
- Participated and contributed in one week “**2nd National Training Workshop on Chromatography and Mass Spectrometry**” held on 28–01 November, 2013 at National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan.

- Participated and Oral presentation at “**1st International Symposium**” held on 17-19 April, 2013 at Azad Jammu & Kashmir Medical College, Muzaffarabad.
- Participated and contributed in one week “**1st National Training Workshop on Chromatography and Mass Spectrometry**” held on 2–6 April, 2012 at National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan.
- Participated in “**Latest Techniques for Conservation of Animal Genetic Resources in Pakistan**” held on 14-15 September, 2011 at Institute of Biochemistry & Biotechnology, UVAS, Lahore.
- Certificate of participation at Research Workshop on “**Writing Research Proposals**” held on 25th of June, 2010 at National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad.
- HEC indigenous Fellowship for PhD under “**5000 fellowship scheme**”.
- HEC fellowship under “**International Research Support Initiative Programme (IRSIP)**”, for about 8 months in Clinical Research Centre, NOVUM, Karolinska Institute, Sweden.

Poster presentations

- Saima Majeed, Muhammad Imran, Fazal-e-Habib, Abdul Tawab, **Abdul Jabbar**, Naila Rasool, Muhammad Rafique Asi and Mazhar Iqbal. *LC-MS/MS Based Sequential Method Development for the Analysis of Aflatoxins B1, B2, G1, G2 and Ochratoxin-A in Cereals*. Poster presented in “National Conference on Trends in Biochemistry and Molecular Biology” held on 21st Feb. 2012 at Quaid-i-Azam University, Islamabad.
- Muhammad Salman, Aamir Ali, **Abdul Jabbar**, Yasra Sarwar and Abdul Haque. *Purification and Antigenic Evaluation of Vi Negative Salmonella Typhi Lipopolysaccharide and O-Specific Antigen*. Poster presented at “Annual Conference on Infectious Diseases” held on 22-23 February, 2013 at Shaukat Khanum Memorial Cancer Hospital and Research Centre, Lahore.

Memberships/Responsibilities

- Member of “The Chemical Society of Pakistan”
- Member Departmental Examination Committee
- Member Departmental Supervisory Committee
- Focal Person of the Department for HEC and NTC
- Library Incharge of the department
- Secretary of the Departmental Seminar Committee
- Focal Person of the department for Students Carrier Counseling