AKBAR ALI (B. Pharm, PhD)

Assistant Professor of Biochemistry and Molecular Biology, Faculty of Pharmacy, Northern Border University, Rafha, Saudi Arabia, **Cell** # +966 50 014 1420, **E-mail**: akbarali@nbu.edu.sa, akbarali01@yahoo.com,

PERSONAL DATA

Date of Birth:	15 th August 1978
Place of Birth:	Kabirwala Distt. Khanewal, Punjab, Pakistan
Nationality:	Pakistani
Marital status:	Married

EDUCATION

2004-2012 PhD (Biochemistry/Molecular Biology) from School of Biological Sciences, University of the Punjab, Lahore.
 Dissertation: 'Spectrum of *FLT3* and *NPM1* Mutations in Acute Myeloid Leukemia in Pakistani Population'
 1995-2000 B. Pharmacy from Bahauddin Zakariya University Multan

TEACHING EXPERIENCE

- December 2013 to date Assistant Professor of Biochemistry and molecular biology, Department of Basic Health Sciences, Faculty of Pharmacy, Northern Border University, Rafha, Saudi Arabia.
- September 2013 to November 2013 Assistant Professor at IMBB Department, University of Lahore, Lahore, Pakistan.
- June 2012 to August 2013 Assistant Professor at Department of Biochemistry, University of Health Sciences, Lahore, Pakistan under HEC's interim placement of fresh PhD's program (IPFP).

PROFESSIONAL EXPERIENCE

- April 2006 to Nov 2013 Consultant Molecular Biologist at National Genetic Lab, Lahore.
- September 2003 to January 2005 Quality Control Manager at Rasco Pharma, Lahore.
- April 2002 to August 2003 Senior quality control analyst at Mediceena Pharma, Lahore.
- April 2000 to March 2002 Quality control analyst at Unexolabs, Lahore.

RESEARCH EXPERIENCE

- **December 2013 till date** I have completed different NBU funded research projects at college of Pharmacy, Northern Border University Rafha.
- June 2012 to December 2013 I have supervised different MPhil level research projects at Department of Biochemistry and department of Pharmacology, University of Health Sciences.
- October 2009 to March 2010 Part of PhD research work at Cancer Institute, University College London, UK under the supervision of Prof. Rosemary E. Gale, Professor of hematology.

INTERNATIONAL EXPOSURE

- October 2009 to March 2010 Completed my PhD research work at Cancer Institute, University College London, UK, where I learnt several different DNA mutation detection techniques.
- December 2013 to date Working as Assistant Professor of Biochemistry and Molecular Biology, at Department of Basic Health Sciences, Faculty of Pharmacy, Northern Border University, Rafha, Saudi Arabia.

PROFESSIONAL AND RESEARCH SKILLS

- Nucleic acid isolation using manual and kit methods, agarose and polyacrylamide gel electrophoresis, gene cloning
- Amplification Techniques like PCR and RT-PCR, Real Time PCR using Rotor Gene 6000 (Qiagen),
 PikoReal 24 (Thermo) MiniOpticon (BIORAD) and Quantica (Techne) Systems.
- Mutation detection techniques like WAVE Denaturing High Performance Liquid Chromatography (dHPLC), Fragment Analysis using Beckman coulter CEQ8000 Genetic Analyzer (DNA sequencer), Restriction Fragment Length Polymorphism (RFLP), Single Stranded Conformational Polymorphism (SSCP).
- DNA sequencing using **Beckman coulter CEQ8000** Genetic Analyzer (**DNA sequencer**)
- Analytical skills including spectrophotometry, **HPLC**, paper chromatography, TLC, atomic absorption spectroscopy, ELISA

DISTINCTIONS AND HONORS

- Throughout **first division** in educational career
- Got HEC's scholarship for indigenous PhD in 2004
- Got HEC's funding for six months' foreign visit under IRSIP program during PhD in 2009

RESEARCH INTERESTS

• Molecular pathology, the changes in biochemical process in the body that invite infections and inflammation.

RESEARCH PROJECTS

Completed research projects funded by Northern Border University (NBU)

- 1. Multidrug resistance among gram negative *E. coli* in chicken meat (Rafha-Saudi Arabia).
- Spectrum of Diarrheagenic Escherichia coli in Drinking and Wastewater in Rafha City of Saudi Arabia", J. Pharm. Res. Int. 2021; 33(54A), pp. 327-334.
- Antimicrobial Resistance Pattern of Uropathogens Isolated from Rafha Central Hospital, Rafha, Kingdom of Saudi Arabia. J. Pure Appl. Microbiol. (2018), 12(2), p. 577-586
- The ABCC8 R1273R (G/A) and PPARγ2 Pro12Ala (C/G) genetic markers are not associated with type
 2 diabetes; a study conducted in in Rafha city of the Northern Border region, Saudi Arabia.
 International Journal of Biology, Pharmacy and Allied Sciences IJBPAS, 2017, 6(6): 1101-1111.
- Prevalence of Toxoplasma gondii in women population of Rafha City, Saudi Arabia. *Pakistan J. Zool (2017)*, 49(3), 1039-1047.

RESEARCH PAPERS

- Akbar Ali and Vijay R. Chidrawar. Multidrug resistance among gram negative *E. coli* in chicken meat (Rafha-Saudi Arabia). *Journal of Pharmaceutical Research International*, 2021; 33(58A), pp. 38-48. DOI: 10.9734/JPRI/2021/v33i58A34087
- Ishraga Eltayeb M. A-Elbasit, Akbar Ali and Ali Mohammed Ahmed. Estimation of hemoglobin levels in pregnant and non-pregnant women in Rafha city, Saudi Arabia. *Journal of Pharmaceutical Research International*, 2021; 33(56A), pp. 252-258. DOI: 10.9734/JPRI/2021/v33i56A33908
- 3. Ali, A., Soomro, S., Nadeem, M. S. and Ahmedani, E. I. Spectrum of Diarrheagenic Escherichia coli in Drinking and Wastewater in Rafha City of Saudi Arabia", *Journal of Pharmaceutical Research International*, 2021; 33(54A), pp. 327-334. doi: 10.9734/jpri/2021/v33i54A33753.
- Nadeem MS, Murtaza BN, Al-Ghamdi MA, Ali A, Zamzami MA, Khan JA, Ahmad A, Rehman MU, Kazmi I. Autism - A Comprehensive Array of Prominent Signs and Symptoms. Current Pharmaceutical Design. 2021. Impact Factor 2.4
- Elsamoual Ibrahim Ahmedani, Atif A Elagib, Khalil Mohamed, Jawahir Alghamdi, Akbar Ali, Meng Yee Lai, Yee Ling Lau, Khalid Hassan AlMohammed. Detection of *Toxoplasma gondii* by Loopmediated Isothermal Amplification in Blood and Urine Samples from Women, Saudi Arabia. Journal of Clinical and Diagnostic Research. 2020 Sep, Vol-14(9): DC15-DC18. IF; 0.14

- Chidrawar VR, Ali A. Experimental Studies to Define the Role of Calcium (Ca2+) and Voltage-Gated Calcium Channel Blockers (vCa-CCB) against Neurosteroid Induced Obesity. Journal of Pharmaceutical Research International. 2020; 32(7):60-71.
- Muhammad Shahid Nadeem, Akbar Ali, Maryam A. Al-Ghamdi, Jalaluddin Azam Khan, Mazin A. Zamzami, Bibi Nazia Murtaza, Imran Kazmi. COVID-19: Prospective Challenges and Potential Vaccines. Alternative Therapies in Health and Medicine, 2020, 26(S2): 72 - 78
- Samreen Soomro, Sibgatullah Sangi, Akbar Ali. In Vitro Biological Activity of Ethanolic Extract of Maramiyah (Salvia Libanotica) and Its Combination with Essential Oil. Int. J. Pharm. Phytopharmacological Res. (eIJPPR), April 2019; 9 (2), p 32-37. Impact factor 0.85
- Elsamoual Ibrahim Ahmedani, Atif A. Elagib, Khalil Mohamed, Akbar Ali, Hani Mowanes Alrawili. Prevalence of toxoplasmosis and associated risk factors in women in Northern Border Area, Saudi Arabia. International Journal of Biology, Pharmacy and Allied Sciences IJBPAS, July, 2018, 7(7): 1247-1262. Impact factor 1.32
- Akbar Ali. Antimicrobial Resistance Pattern of Uropathogens Isolated from Rafha Central Hospital, Rafha, Kingdom of Saudi Arabia. *Journal of Pure and Applied Microbiology* (JPAM), June 2018, Vol. 12(2), p. 577-586. Impact factor 0.25
- 11. Soliman Ghanem and Akbar Ali. The ABCC8 R1273R (G/A) and PPARγ2 Pro12Ala (C/G) genetic markers are not associated with type 2 diabetes; a study conducted in in Rafha city of the Northern Border region, Saudi Arabia. International Journal of Biology, Pharmacy and Allied Sciences IJBPAS, June 2017, 6(6): 1101-1111. Impact factor 1.32
- Akbar Ali, Khalil Mohamed and Fawzia Toulah. Prevalence of Toxoplasma gondii in women population of Rafha City, Saudi Arabia. Pakistan Journal of Zoology (2017), 49(3), 1039-1047. Impact factor 0.8
- Akbar Ali, Rosemary E Gale and Abdul Rauf Shakoori. Detection of *FLT3/TKD* and *IDH1* Mutations in Pakistani Acute Myeloid Leukemia Patients by Denaturing HPLC. J. Cell. Biochem. (2016); 118(5):1174-1181; DOI: 10.1002/jcb.25761. Impact factor 3.45
- Arham Shabbir, Muhammad Shahzad, Akbar Ali, Ziaur Rahman. Discovery of new benzothiazine derivative as modulator of pro- and anti-inflammatory cytokines in rheumatoid arthritis. Inflammation (2016), Dec;39(6):1918-1929; doi:10.1007/s10753-016-0427-y, ISSN: 0360-3997, Impact factor 3.2.
- 15. Glenda J. Dickson, Sophia Bustraan, Robert K. Hills, Akbar Ali, Anthony H. Goldstone, Alan K. Burnett, David C. Linch and Rosemary E. Gale. The value of molecular stratification for CEBPA^{DM} and NPM1^{MUT} FLT3^{WT} genotypes in older patients. Brit J Hematol (2015), 172(4): 573-580. Impact factor 5.7

- Sahar, S., Tanveer, A., Ali, A., Bilal H. and Saleem, M.S. *Pfcrt* gene in *Plasmodium falciparum* fields isolated from Muzaffargarh, Pakistan. *Iran. J. Arthropod Borne Dis* (2015). 9(2):204-214.
 Impact factor 1.42.
- Arham Shabbir, Muhammad Shahzad M, Akbar Ali and Muhammad Zia-ur-Rehman. Anti-arthritic activity of N'-[(2,4-dihydroxyphenyl) methylidene]-2-(3,4-dimethyl-5, 5 dioxidopyrazolo [4,3-c] [1,2] benzothiazin-1(4H)-yl) acetohydrazide. Eur J Pharmacol. (2014); 738:263-72. Impact Factor 3.17
- 18. Dima El-sharkawi, Akbar Ali, Catherine M Evans, Robert K Hills, Alan K Burnett, David C Linch, and Rosemary E Gale. ASXL1 mutations are infrequent in young patients with primary acute myeloid leukaemia and their detection has a limited role in therapeutic risk stratification. Leukemia & Lymphoma (2014), 55 (6): 1326-1331. Impact Factor 3.09
- Akbar Ali, Muhammad Kamran Siddique, Rosemary E. Gale and Abdul Rauf Shakoori. Frequency of *NPM1* Mutations in Pakistani Acute Myeloid Leukemia Patients. Pakistan Journal of Zoology, (2013) vol. 45(5), pp. 1429-1436, 2013. Impact Factor 0.8
- Akbar Ali, Muhammad Kamran Siddique, and Abdul Rauf Shakoori. Frequency of *FLT3/ITD* mutations in Pakistani Acute Myeloid Leukemia Patients. Pakistan Journal of Zoology (2013), 45(2): 495-501. Impact Factor 0.8
- 21. Bradley N Smith, Catherine Evans, **Akbar Ali**, Phil J Ancliff, Bu'Hussain Hayee, Anthony W Segal, Georgina Hall, Zuhre Kaya, Abdul Rauf Shakoori, David C Linch, Rosemary E Gale. Phenotypic heterogeneity and evidence of a founder effect associated with *G6PC3* mutations in patients with severe congenital neutropenia. **British Journal of Haematology (2012)**, 158 (1): 146-149. **Impact factor 5.71**
- 22. Abdul Rauf, Muhammad Shahid Nadeem, Akbar Ali, Muhammad Iqbal, Muhammad Mustafa, Muhammad Muzammal Latif, Muhammad Zahid Latif, Nisar Ahmed and Abdul Rauf Shakoori. Prevalence of hepatitis B and C in internally displaced persons of war against terrorism in Swat, Pakistan. European Journal of Public Health (2011) 21 (5): 638-642. Impact factor 2.46

TEACHING AND COURSE COORDINATION RESPONSIBILITIES AT NBU

- To teach basic/clinical biochemistry, Biostatistics, Clinical nutrition, Pharmacogenomics and Molecular Biology to Pharm D students.
- To guide students in writing their research synopsis and thesis
- To guide students in their experimental work
- To establish Molecular Biology Lab at the department
- To help other faculty members in the molecular part of their research projects

WORKSHOPS/CONFERENCES/SYMPOSIUM ATTENDED

- 4th National Hands-on Training Workshop on Bioinformatics (BASICS) held at Molecular Care, University of Faisal Abad on August 05-06, 2017
- 2nd interdisciplinary Statistical Data Analysis Workshop held at Swat Institute of Nuclear Medicine, Oncology and Radiotherapy (SINOR), Swat on August 21-23, 2017.
- Workshop on 'Emotional Intelligence' held at University of Health Sciences on April 13, 2013.
- 29th Pakistan Congress of Zoology held at Sindh University Jamshoro on February 24-26, 2009.
- International Symposium on the role of glycoproteins in human health and diseases held at the School of Biological Sciences, University of the Punjab, Lahore on May 27-29, 2008.
- 27th Pakistan Congress of Zoology held at Bahauddin Zakariya University, Multan on February 27-March 1, 2007.
- 9th National conference of Pakistan Society of Hematology held Sheikh Zayed Medical Complex, Lahore Pakistan on March 09-11, 2007.
- International Symposium on Nanotechnology of Enzymes held at the School of Biological Sciences, University of the Punjab, Lahore on September 20-21, 2006.
- 26th Pakistan Congress of Zoology held at University of the Punjab, Lahore, on April 4-6, 2006.
- 25th Pakistan Congress of Zoology held at Sindh Agriculture University Tandojam on March 1-3, 2005.

REFERENCES

Professor Dr. Abdul Rauf Shakoori (PhD Supervisor)

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Professor Rosemary E Gale, PhD (Supervisor at UCL)

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Dr. Dima El Sharkawi, MB BS, MA, PhD, MRCP, FRCPath

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