

Dr. Shakir Ullah (PhD, Post Doc)

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Education				
Degrees/Certificates	Session	Major Subjects	Grades/CG PA	University/Board
Post Doc	2018	Neuroscience	NA	Shantou University Medical College, China
Ph.D. (Pharmacology)	2013-2017	Advanced subjects of Pharmacology, Genetics, Genomics, Pharmacogenomics, Pharmacogenetics, and techniques	3.09	Khyber Medical University, Peshawar
M.Phil (Immunology and virology)	2010	Genetics, Immunology, Immunopharmacology, vaccinology, and virology	3.25	National University of Science and Technology
Pharm.D	2007	Pharmacy	69.50%	University of Malakand
High Secondary School Certificate	1999	Pre. Medical	66.79%	BISE Peshawar
Secondary School Certificate	1996	Science	79%	BISE Saidu Sharif Swat

Area of Interest

- **Neuropharmacology**
- **Pharmacogenomics and Pharmacogenetics**
- **Epilepsy**
- **Alzheimer's Disease**
- **Neurogenetics and Epigenetic**
- **Neuroimmunology**
- **Behavioral studies (Learning and memory) in epilepsy and Alzheimer's Disease in mice and Zebra Fish**
- **Stem Cell and Gene Therapy**
- **Population pharmacokinetics (PkD Modeling)**

Expertise

- PCR
- RT-PCR and qPCR
- Flow cytometry
- HPLC
- Power Lab
- Patch Clamp and Local Field potential (Electrophysiology)
- Stereotaxic Surgery
- Western Blot
- ELISA
- EEG
- Animal models (Knock out and Knock Down) development for epilepsy and Alzheimer's disease using Zebra Fish and mice
- Microscopy (immunofluorescence, Electron Microscopy)
- Micro Array
- Cell culturing
- ViewPoint and Ethovision (Behavioral studies)

Expert in Software and Data Bases

- Stata 13, 16
- Graph Pad Prism
- SPSS
- Minitab
- In Silico Drug designing (software)
- R Software
- NONMEM

Professional Experiences

- 1- Lecturer in Margalla Institute of Health Sciences *December 7, 2008 – April 16, 2012*
- 2- Quality Control Analyst, Ipram International Pharmaceutical, Islamabad *June 07, 2006-december 31, 2006*
- 3- Hospital Pharmacist, Northwest General Hospital, Peshawar *March 2, 2014-July 1, 2015*
- 4- Research Associate in project (pharmacogenomics of antiepileptic drugs) at Khyber Medical University (March 2014-May 2017)
- 5- Visiting Lecturer in Rehman College of Nursing (July 2015-May 2017)
- 6- Post doc Shantou University Medical College, China (March 2018-November 2018)
- 7- Lecture Department of Pharmacy University of Malakand Chakdara (13-November 2018- 16-10-2020)
- 8- Assistant Professor Pharmacology Khyber Medical University, Peshawar (16-10-2020 up to now)

Awarded Projects

- 1- Screening for new Antiepileptic Drugs Molecules for Treatment of Resistant Epilepsy in the Context of Genetic manipulation in mice models (Ref No: KMU/ORIC/FARE/IBMS/003)

Publications

- 1- Mujeeb Ur Rehman¹, Shakira Ghazanfar², Rizwan Ul Haq³, Shakir Ullah⁴, Salman Khan¹, Jianbo Wu^{5,6}, Waqar Ahmad^{5,6*} and Muhammad Khalid Tipu^{1**†}. Probiotics (*Bacillus clausii* and *Lactobacillus fermentum* NMCC-14) Ameliorate Stress Behavior in Mice by Increasing Monoamine Levels and mRNA Expression of Dopamine Receptors (D1 and D2) and Synaptophysin. July 2022 *Frontiers in Pharmacology*. (IF=5.988)
- 2- Muhammad Zakria^a, Nasir Ahmad^a, Lina Tariq Al Kury^b, Abdullah Alattar^c, Zia Ud din^d, Sami Siraj^a, Shakir Ullah^a, Reem Alshaman^c, Muhammad Imran Khan^e, Fawad Ali Shah^e. Melatonin rescues the mice brain against cisplatin-induced neurodegeneration, an insight into antioxidant and anti-inflammatory effects. August 2021 *NeuroToxicology* (IF=4.294)
- 3- Abidullah^{1,2}, Shujaat Ahmad¹, Niaz Ali^{2,3*}, Feras Almarshad³, Muhammad Nabi², Shafiq Ur Rahman¹, Shakir Ullah², Jahangir Khan⁴, Haya Hussain¹ and Syeda Hajira Bukhari². Moxifloxacin and Gemifloxacin mediates its antispasmodic profile via ATP-sensitive potassium channels: An in-vitro bioassay study. *PJPS*.2021.34.5.SUP.1983-1988.1 (IF=0.684)
- 4- Saad Ali¹, Zahwa Salam², Shakir Ullah³, Mehtab Alam⁵, Harwindar Kumar⁵. Prevalence of Trigeminal Neuralgia in Patients with Chronic Facial Pain in Neurology Lrh Hospital Peshawar. *American Journal of Health, Medicine and Nursing Practice*. Vol.6, Issue 6, pp 1 – 7, 2021 (Category X)
- 5- Saad Ali¹, Harwindar Kumar¹, Shakir Ullah², Mian Ayaz U. Haq¹, Nusrat G³. Gul, Jasvinder Kumar⁴. Electroencephalography Patterns of Subacute Sclerosing Panencephalitis. (June 17, 2021). *Cureus* 13(6): e15728. DOI 10.7759/cureus.15728 (Category X)
- 6- Rizwan Faisal¹, Muhammad Nabi¹, Niaz Ali¹, Syed Wadood Ali Shah² and Shakir Ullah^{1,2}. Azithromycin induced contractile responses of intestinal smooth muscles: A mechanistic approach. *Pak. J. Pharm. Sci.*, Vol.33, No.5(Special), September 2020, pp.2385-2392 (IF=0.569)
- 7- Shakir Ullah^{1,3*}, Niaz Ali¹, Saad Ali², Adnan Khan², Sajjad Ahmad¹ and Zia uddin¹. Distribution of Different Genotypes MTHFR and GABRG2 Genes in Epileptic Population of Khyber Pakhtunkhwa Pakistan. *Clin Schizophr Relat Psychoses* Volume 14:2, 2020 DOI: 10.3371/CSRP.IASM.092320 (category X)
- 8- Ali, N., N.- Ain, M. Nabi, Z. Subhan, S. Ullah, U. Sultana, and B. Shams. “ACUTE TOXICITY AND ANTINOCICEPTIVE ACTIVITY OF SAPONINS RICH FRACTION OF DIOSCOREA DELTOIDEA (WALL)”. *KHYBER MEDICAL UNIVERSITY JOURNAL*, Vol. 12, no. 2, June 2020, doi:10.35845/kmu.j.2020.19787. (Category X)
- 9- Muhammad Kamran,¹ Rehana Kousar,² Shakir Ullah³, Siraj Khan,¹ Muhammad Farooq Umer,¹ Haroon Ur Rashid,¹ Muhammad Ijaz Khan Khattak,^{1,4} and Mujeeb Ur Rehman¹. Taxonomic Distribution of Medicinal Plants for Alzheimer’s Disease: A Cue to Novel Drugs. *International Journal of Alzheimer’s Disease* Volume 2020, Article ID 7603015, 15 pages (Category X)

- 10- Muhammad Nabi¹, Niaz Ali^{1*}, Bilal Shams², Ghayour Ahmed³, Muhammad Jalat Shah¹, Shakir Ullah^{1,4}, Mohammad Shoaib⁴ and Syed Wadood Ali Shah⁴. Relaxant activity of different fractions of fruits of *Rosa Moschata* J. Pak. J. Pharm. Sci., Vol.33, No.2(Suppl), March 2020, pp.895-900. (IF=0.569).
- 11- Nazish Farooq^{1,2}, Niaz Ali^{3*}, Shakir Ullah^{3,4*}. Evaluation of Hematological Parameters in the context of Genetic prospective in Epileptic Patients of Khyber Pakhtunkhwa. Pharmacogenomics and Personalized Medicine 2019:12 377–385 (IF= 2.721)
- 12- Syed Wadood Ali Shah^{1*}, Mehreen Ghias¹, Mohammad Shoaib¹, Niaz Ali², Ismail Shah³, Muhammad Naveed Umar⁴, Syed Muhammad Mukarram Shah⁵, Syed Muhammad Hassan Shah⁶, Wali Khan⁷, Shahzeb Khan¹, Tour Jan⁸, Saeed Ahmad⁷, Shakir Ullah¹ and Shafiullah¹. Antidiabetic potential of flavonoids from *Artemisia macrocephalla* Jaquem in streptozotocin-induced diabetic rats: Pharmacological and biochemical approach. Pak. J. Pharm. Sci., Vol.32, No.6(Suppl), November 2019, pp.2865-2871. (IF=0.569).
- 13- Mehreen Ghias^{1*}, Mohammad Shoaib¹, Syed Wadood Ali Shah¹, Muhammad Naveed Umar², Shakir Ullah¹, Niaz Ali³, Ismail Shah⁴ and Shafiullah¹. Nootropic effects of synthetic flavonoid derivatives on scopolamine induced memory impairment in mice via cholinesterase inhibition and antioxidant system. Pak. J. Pharm. Sci., Vol.32, No.5(Suppl), September 2019, pp.2325-2332 (IF=0.569)
- 14- Shakir Ullah^{1†}, Niaz Ali^{1*†}, Adnan Khan², Saad Ali², Haleema Rehana Nazish¹ and Zia Uddin¹. Epilepsy control with carbamazepine monotherapy from a genetic perspective. BMC Pharmacology and Toxicology (2018) 19:73 (IF=2.282)
- 15- Haleema Rehana Nazish¹, Niaz Ali¹, Shakir Ullah^{1,2*}. The possible effect of SCN1A and SCN2A genetic variants on carbamazepine response among Khyber Pakhtunkhwa epileptic patients, Pakistan. Therapeutics and Clinical Risk Management 2018:14 1–9. (IF= 1.952)
- 16- Shakir Ullah^{1,2*}, Niaz Ali¹, Adnan Khan³, Saad Ali³ and Haleema Rehana Nazish¹. The Epidemiological Characteristics of Epilepsy in the Province of Khyber Pakhtunkhwa, Pakistan. 2018; Front. Neurol. 9:845. doi: 10.3389/fneur.2018.00845 (IF=3.552)
- 17- Shakir Ullah, Niaz Ali and Haleema Nazish. Carbamazepine Verses Valproic Acid as Monotherapy in Epileptic Patients. Journal of the College of Physicians and Surgeons Pakistan 2018, Vol. 28 (5): 357-360. (IF=0.554)
- 18- Ziaullah*, Zia Ud Din**, Shakir Ullah. Sources of Stress for Nursing Students during Clinical Practice (A Quantitative Analysis at A Public Hospital of District Swat, Khyber Pakhtunkhwa). International Journal of Scientific and Research Publications, 7 (9); 2017. (IF=3.8)
- 19- Shakir Ullah Shakir, Niaz Ali, Zia Uddin, Haleema Nazish, Muhammad Nabi. Vitamin B 6 and homocysteine levels in carbamazepine treated epilepsy of Khyber Pakhtunkhwa. *Afri Health Sci.* 2017;17(2): 559-565. (IF=0.666)
- 20- Niaz Ali*, Robina Begum¹, Muhammad Saleh Faisal¹, Aslam Khan¹, Muhammad Nabi¹, Gulfam Shehzadi¹, Shakir Ullah¹ and Waqar Ali². Current statins show calcium channel blocking activity through voltage gated channels. BMC Pharmacology and Toxicology (2016) 17:43. (IF=2.288)
- 21- Niaz Ali, Ulfat Imran, Syed Wadood Ali Shah, Muhammad Nabi, Shakir Ullah, Ismail Shah, Ghayour Ahmad. Acute Toxicity and Analgesic Activity of Crude Flavonoids

- Of *Achillea Wilhelmsii* And *Teucrium Stocksianum*. *KMUJ* 2016; 8 (1). (Category X)
- 22- Shakir, Niaz ali, aslam khan and M. Nabi. The Prevalence, Incidence and Etiology of Epilepsy. *International Journal of Clinical and Experimental Neurology*, 2014, Vol. 2, No. 2, 29-39
- 23- Shakir Ullah* and Saba Haq. Structure and role of neutrophil cytosol factor 1 (NCF1) gene in various diseases; *African Journal of Biotechnology* Vol. 9 (54), pp. 9286-9294, 29 December 2010 ISSN 1684-5315 © 2010 Academic Journals. (IF=0.22)
- 24- Muhammad Sohail Afzal, Shakir Ullah, Zia Ur Rehman Farooqi, Sadia Anjum, Talha Shafi, Tahir Ahmed, Muhammad Ashraf, Ishtiaq Qadri. Association of interleukin-10 polymorphism and malarial susceptibility in Pakistani population. *Asian Biomedicine* Vol. 6 No. 3 June 2012. (IF=0.221)
- 25- Shakir Ullah, Muhammad Arshad, Sohail afzal, Bahadar zaib and Saba Haq; THE ASSOCIATION OF NCF1 GENE WITH THE SEVERITY OF MALARIA; *BJMP* 2011; 4(2) a416.

Workshops, Conferences & Seminars Attended

- ❖ Paper presentation in 34th National conference of research association of pathology King Edward Medical University Lahore
- ❖ 6th Annual Health Research Conference 2015 Khyber Medical University
- ❖ A Workshop on Systemic Review/Meta-analysis (3CME)
- ❖ Workshop on SPSS for clinician Lady Reading Hospital Peshawar (Neurology Department)
- ❖ Workshop on next generation sequencing Khyber Medical University Peshawar
- ❖ Poster presentation in 6th Annual Health Research Conference Khyber Medical University
- ❖ Workshop on practical application of Enzyme Linked Immunosorbant Assay (ELISA) in 7th Annual Health Research Conference 2016
- ❖ Workshop on writing grant winning projects in 7th Annual Health Research Conference 2016
- ❖ Full command on STATA, Minitab, SPSS, and Graph Pad Prism (statistical software)
- ❖ Workshop on HPLC and facilitator in 8th Annual Health Research (one way to health) Conference 2017
- ❖ 1st International Conference on Quality Assurance in Higher Education (ICQAHE) held on December 18-19, 2017
- ❖ 4th invention to innovation summit KP 2018/22-23 November 2018/ CECOS University, Peshawar
- ❖ 1st National workshop on Molecular biology tools and techniques November. 12-14, 2018 University of Malakand
- ❖ 13th Asian & Oceanian Epilepsy Congress 10-13 June 2021

Reviewer

- ❖ Pharmacogenomics and Pharmacogenetic Dove Medical Press
- ❖ Frontier Pharmacology
- ❖ Frontier Neurology

Languages

Language	Speaking	Reading	Writing	Listening
English	Excellent	Excellent	Excellent	Excellent
Pashto	Excellent	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent	Excellent

References

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