



Muhammad Jamal

📍 **Work** : Department of Pharmacy, University of Chakwal, ✉ **Email:**
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ABOUT ME

I am passionate about collaborating with experts in the field to drive cutting-edge research and advancements in pharmacology, aligning with the Centre's goal of pioneering disruptive solutions in healthcare.

WORK EXPERIENCE

[15/12/2025 - Current]

Assistant Professor

Department of Pharmacy, University of Chakwal

- Deliver Lectures to Pharm-D students
- Advisor Science and Research Club
- Program Coordinator

[26/10/2023 - 12/12/2025]

Assistant Professor

Department of Pharmacy, City University of Science and Technology, Peshawar

- Deliver lectures to Pharm-D students
- Co-supervising M.Phil students

[08/09/2022 - 20/10/2023]

Assistant Professor

Jinnah College of Pharmacy (JCP), Sohail University, Karachi

- Deliver lectures to Pharm-D students
- Co-supervising M.Phil students
- Convener JCP Research Club

[17/07/2018 - 14/01/2023] **Research fellow**

H.E.J Research Institute of Chemistry in the field of Neuropharmacology

[16/01/2014 - 14/06/2018] **Lecturer**

Udhyan Institute of Medical Sciences, Abbottabad

EDUCATION AND TRAINING

[17/02/2018 - 16/04/2023]

PhD Neuropharmacology

H.E.J. ICCBS, University of Karachi www.uok.edu.pk

City: Karachi | **Country:** Pakistan | **Field(s) of study:** Neuropharmacology | **Final grade:** GPA 3.90 | **Thesis:** Targeting Epileptogenesis by Modulating Adenosinergic Pathway in Association with Mitogen-Activated Protein Kinase

- *In vivo* Electrophysiology
- RT-qPCR
- Immunohistochemistry

- Microscopy
- Staining techniques
- Neuropharmacology
- Neuroendocrinology

[16/10/2015 – 14/05/2017]

M.Phil. in Pharmacology

Abbottabad University of Science and Technology, Pakistan

City: Abbottabad | **Country:** Pakistan | | **Final grade:** GPA 3.88 | **Thesis:** Evaluation of neuropharmacology activities of Rosa moschata using animal models

- Behavioural Studies
- Animal model development
- Neuroscience
- Neuropharmacology
- Microbiology
- Biostatistics

[16/08/2009 – 14/09/2014]

Pharm-D

Gomal University, Dera Ismail Khan, Pakistan

City: Dera Ismail Khan | **Country:** Pakistan | **Field(s) of study:** Pharmacology | **Final grade:** 73%

PUBLICATIONS

Surviving Advanced Breast Cancer: Navigating Health Care and Non-Health Care Costs

[2026]

Urooj Tariq, Abuzar Khan, Natasha Rahim, Muhammad Jamal, Nisar zamin shah, Sudhair Abbas Bangash

European Journal of Clinical Pharmacy

Protective Effects of Mefenamic Acid against Pentylentetrazol-Induced Seizures: An Experimental Study

[2025]

Sayyed Mudasar Hussain, Uzair Nisar, Kalpana Jeewnani, Muhammad Jamal, Shabana Usman Simjee, Umbreen Farrukh, 2024/12/14,

RADS Journal of Pharmacy and Allied Health Sciences

A prospective observational study of estimating drug related problems and clinical outcomes in subtypes of stroke patients

[2024]

Muhammad Ali, Muhammad Harris Shoaib, Shagufta Nesar, Muhammad Jamal, Sabiha Gul, Saira Shahnaz, Shoaib Nawaz, Quratulain Khan, Javaria Imran, 2024/1/2

Plos One

Attenuation of PTZ Induced Generalized Clonic and Myoclonic Seizures by Meloxicam

[2024]

Sayyed Mudasar Hussain, Uzair Nisar, Muhammad Jamal, Shabana Usman Simjee | RADS Journal of Pharmacy and Allied Health Sciences 2(3)

Sub-therapeutic dose of Valproic acid and Metformin reduces the toxicity associated with Valproic acid in animal model of epilepsy

[2023]

Jamal M, Azam M, Simjee S.U.,

Drug and Chemical Toxicology

Levetiracetam Ameliorates Epileptogenesis by Modulating Adenosinergic Pathway in Kindling Model of Epilepsy in Mice

[2023]

Jamal M, Azam M, Simjee S.U., *Turkish Journal of Medical Sciences*

- [2023] **Evaluation of Neurotoxicity and Neuropharmacological activities of Rosa moschata in animal model**
Jamal M, Rehman MU, Awan AA, Ali N, Sherkheli MA, Haq RA
Pakistan Journal of Pharmaceutical Sciences
- [2022] **Prevalence of Metabolic Syndrome in Association with Socio Demographic Burden among Pakistani Population**
Naveel T, Gul S, Jamal M, Khan Z, Sadaf F
Webology (ISSN: 1735-188X)
- [2022] **Antiseizure Activity of Mitragyna inermis in the Pentylene-tetrazol (PTZ) -Induced Seizure Model in Mice: Involvement of Flavonoids and Alkaloids**
Ouédraogo RJ, Jamal M, Ouattara L, Nadeem-ul-haque M, Khan F, Simjee SU, Ouédraogo GA, Shaheen F.
Turkish Journal of Pharmaceutical Sciences
- [2021] **Comparison of acute and chronic effects of Bacopa monnieri, Ginkgo biloba, and Lavandula angustifolia and their mixture on learning and memory in mice**
Rehman MU, Ali N, Jamal M, Kousar R, Ishaq M, Awan AA, Hussain I, Sherkheli MA, Ul Haq R.
Phytotherapy Research
- [2021] **Anticonvulsant activity of methanolic extract of Withania coagulans in mice**
Khattak ZF, Insari B, Jamal M, Awan AA, Sherkheli MA, Haq RU *Metabolic Brain Disease*
- [2020] **Inhibition of long-term kindled seizures induced alterations in the function of bone marrow cells by AC-31B (essential oil) from Allium cepa**
Simjee SU, Nisar U, Khan R, Ainuddin W, Mukhtar I, Jamal M, Azam M, Shamim NR, Salim A, Anjum S..
Journal of Neurology and Neuroscience
- [2019] **Evaluation of safety profile and stress suppressant activity of Rosa moschata in mice**
Jamal M, ur Rehman M, Nabi M, Awan AA, Ali N, Sherkheli MA, ul Haq R.
Pakistan Journal of Pharmaceutical Sciences

CONFERENCES AND SEMINARS

- [31/03/2026] **Antimicrobial Prophylaxis in Adults,**
Conducted by Shifa International Hospitals, Islamabad
- [23/12/2023 - 23/12/2023] **Best Poster Award in Project "Neuroscience Diversity Promotion in Pakistan"**
ASAB, NUST, Islamabad
- 3 Days Symposium on "Human Papillomavirus and Cervical Cancer", 22 – 24th Sep., 2022. Organized by "The international papillomavirus society"**
- 3 Days International Neuro-technology Conference (Neurotech-2021), 10 – 12 Dec, 2021. Organized by IBRO, Georgia**

5 Days 34th International Epilepsy Congress (34th IEC), August 28 – 1 st September, 2021. Organized by International League Against Epilepsy (ILAE) France.

**5 Days IBRO-APRC Georgian School of Neuroscience (21 – 25 August, 2021)
International Center for Neuroscience Research and IBRO, Tbilisi, Georgia**

6 Days Associate School of Neuroscience on “Untangling the Degenerating Brains: From Neurobiology to Psychopathology”. Organized by International Brain Research Organization (IBRO), from 26th to 31st July, 2021.

**13th Asian & Oceanian Epilepsy Congress (13th AOEC), June 10th – 13th, 2021.
Organized by Japan ILAE.**

5th Science and Technology exchange program on challenges of communicable and non-communicable diseases, Feb 27th – March 2nd , 2019. Organized by Mustafa Science and Technology Foundation Iran and PCMD, ICCBS, University of Karachi

**2nd International symposium on Natural products for the future (ISNPF-2),
November 4 – 6, 2018 , HEJ Research Institute, ICCBS, University of Karachi.**

1st International conference on New horizons in drug discovery and pharmaceutical sciences. April 27-30, 2017. Department of pharmaceutical sciences, AUST.

1st National conference Emerging Trend in pharmaceutical sciences. October 9-11, 2017. Organized by Department of Pharmacy, University of Malakand.

Awarded Certificate of participation for attending webinar “EEG and Neuro-feedback Research and Clinical Applications” (March 18 2021). Organized by Mustafa Science and Technology Foundation, Iran.

HONOURS AND AWARDS

[03/03/2023] **Travel Grant for Advance School of Neuroscience Awarding institution: ISN-ESN, Porto Portugal.**

[09/06/2022] **Travel Grant for the ISN-APSN Biennial Meeting**

[08/07/2022] **Global Young Scientist Summit Awarding institution: GYSS, Singapore**

AREA OF INTEREST

CNS pharmacology, Neurosciences, Electrophysiology, Molecular Pharmacology

RESEARCH EXPERTISE

Behavioral models (Schizophrenia models, Epilepsy models, Stress and depression models, Memory impairment models) developments in rodents.

Stereotaxic surgery in rodents

In Vivo Electrophysiology

RT-qPCR

Immunohistochemistry

Primary Neuronal Culture

Paraffin and OCT tissue embedding

Gel Electrophoresis

Genotoxicity studies

Microscopy

ABSTRACT PUBLISHED

[08/08/2021 - 01/09/2021]

Levetiracetam attenuates acute and chronic seizures in mice through adenosinergic pathway: a possible therapeutic role in epilepsy

Presented in 34th International Epilepsy Congress (34th IEC),
Organized by ILAE France.

[21/08/2021 - 25/08/2021]

An Early Call to Ease Valproic Acid Toxicity in Epileptic Disorders". IBRO-APRC Georgian School of Neuroscience

IBRO-APRC Georgian School of Neuroscience,
Tbilisi, Georgia

[10/06/2021 - 13/06/2021]

Levetiracetam attenuates acute and chronic seizures in mice through adenosinergic pathway: a possible therapeutic role in epilepsy

13th Asian & Oceanian Epilepsy Congress (13th AOEC)
Organized by Japan ILAE

[04/11/2018 - 06/11/2018]

Evaluation of neurotoxicity and antipsychotic effects of Rosa moschata in animal model

2nd International symposium on Natural products for the future (ISNPF-2)

[09/10/2017 - 11/10/2017]

Evaluation of safety profile and stress suppressant effects of Rosa moschata in restraint stress animal model

1st National conference Emerging Trend in pharmaceutical sciences

MEMBERSHIP OF SCIENTIFIC SOCIETIES

Member of the Asian-Pacific Society for Neurochemistry (APSN)

Member of the International Society for Neurochemistry (ISN)

Member of American Psychological Association (APA)

STATISTICAL SKILLS

Rubymind eLab Software for Electrophysiology

OriginLab Statistical Software for Data analysis

ImageJ software for Image processing

Mendeley and Endnote softwares for reference management

EXTERNAL REVIEWER OF M.PHIL. THESES

Evaluation of Antidepressant Effects of Solanum Lycopersicum L.

Student's Name: Miss Fizza Batool

Department: Faculty of Pharmacy, Department of Pharmacology, University of Karachi.

In Vivo Anti-inflammatory Activity of Cucumis Melo Extract in Rodents

Student's Name: Miss Ayesha shabbier

Department: Faculty of Pharmacy, Department of Pharmacology, University of Karachi

Pharmacological Evaluation of Physalis Peruvaina in Rodents

Student's Name: Mr. Syed Uzair Hasan

Department: Faculty of Pharmacy, Department of Pharmacology, University of Karachi.

Incidence of Anti-tuberculosis drug induced liver injuries in patients receiving therapy-at a tertiary care hospital in Karachi a cross-sectional study

Student's Name: Mr. Saad Najam

Department of Biomedical Sciences, Sohail University, Karachi.

Evaluation of bufexamac as monoamine oxidase inhibitor in depression: The drug repurposing approach

Student's Name: Mr. Rameez Raja

Department of Pharmacy, Ziauddin University, Karachi

Elucidation of Anti-Amnestic Effects of Monoterpenoids

Ms. Aimen Inamullah

H.E.J. Research Institute, Faculty of Pharmacy, University of Karachi.

RECOMMENDATIONS

Name: Prof. Dr. Shabana Usman Simjee Professor

International Center for Chemical and Biological Sciences,
University of Karachi, Pakistan

Email: shabana.simjee@iccs.edu

Name: Dr. Rizwan Ul Haq Associate Professor

Abbottabad University of Science and Technology, Pakistan.

Email: rizwanhej@gmail.com

Name: Dr. Sami Ullah Burqi Assistant Professor

Institute of Pharmaceutical Sciences, Department of Pharmacology, Jinnah Sindh Medical
University (JSMU), Karachi, Pakistan

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