



**INTERNATIONAL CENTER FOR CHEMICAL AND
BIOLOGICAL SCIENCES
UNIVERSITY OF KARACHI, KARACHI-75270, PAKISTAN**

CURRICULUM VITAE

Name:	DR. SHABANA USMAN SIMJEE
Current Position:	Professor
Contact Address:	H.E.J. Research Institute of Chemistry, International Center for Chemical & Biological Sciences, University of Karachi, Karachi-75270, Pakistan
Tel:	+92-21- 99261729, 34824930, 34824934, 34824936 (Ext: 150)
Fax:	+92 21- 34819018, 34819019
Cell Phone:	+92 21-3018777913
E. Mail:	shabana.simjee@iccs.edu , sh01us@hotmail.com

ACADEMIC CAREER

- PhD** Department of Neuroscience, School of Biological Sciences, The University of Manchester, UK, 2001
- MS** Department of Medical Laboratory Sciences, College of Health, Florida International University, Miami, USA, 1997
GPA 3.82
- M. Sc** Department of Biochemistry, University of Karachi, Pakistan, 1992
GPA 4.0
- B. Sc (Hons)** Department of Biochemistry, University of Karachi, Pakistan, 1991
GPA 3.75

PROFESSIONAL POSITIONS

Professor (March 2019-Present)

Pharmacology, H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan

Visiting Professor (October 2019-October 2022)

The Affiliated T.C.M. Hospital of Southwest Medical University, China

Associate Professor (November 2013-February 2019)

Pharmacology, H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan

Assistant Professor (January 2004 – October 2013)

Pharmacology, H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan

British Council Visitor, University of Reading (February 2009)

Under Higher Education Link Programme Scheme between HEC (Pakistan) & British Council

Visiting Professor (December 2004-February 2005)

Transfusion Medicine Unit, St. Michael's Hospital, Toronto, Canada

Visiting Scholar (January 2005-February 2005)

Programme in Integrative Biology, The Hospital for Sick Children Research Institute, Toronto, Canada

Visiting Faculty (June 2003- July 2003, Summer Course on Bioinformatics),

FAST Institute of Computer Science, National University of Emerging Sciences, Karachi, Pakistan

Assistant Professor (Jan 2002 – December 2003)

Department of Biochemistry, Baqai Medical University, Karachi, Pakistan

Graduate Research Assistant (1997)

Department of Medical Laboratory Sciences, Florida International University, Miami, USA

Graduate Assistant (1995-1996)

Department of Medical Laboratory Sciences, Florida International University, Miami, USA

Teaching Assistant / Cooperative Teacher (August 1993-December 1994)

Department of Biochemistry, University of Karachi, Karachi, Pakistan

OTHER POSITIONS / SERVICES

Member of Institutional Biosafety Committee (2006-Present)

Member of Independent Ethics Committee, ICCBS, University of Karachi (2012-Present)

Member of ICCBS Animal Care and Use committee (2004-Present)

Member Editorial Board: Mediterranean Journal of Biosciences.

Member Editorial Board: SM Journal of Arthritis Research

Member Editorial Board: Journal of Biochemistry & Molecular Medicine

Journal Reviewer: International Immunopharmacology, Pharmaceutical Biology, Acta Pharmacologica Sinica, Inflammation Research, Journal of Integrative Medicine, Epilepsy Research, Mediterranean Journal of Biosciences

Member of the Graduate Student Grievance Committee, 1996-1997 (Graduate Students Representative), Florida International University, Miami, USA

Member of "GO MANCHESTER" community service organization (2000-2001), UK

Instructor (Volunteer), Ida Rieu, School for Special Children, Karachi, Pakistan

RESEARCH GRANT (PI)

Research proposal entitled "New approaches to effective pain management: clinical potential of GABA receptors modulators in the development of chronic pain", approved under PSF Research Support Scheme Ref. No. PSF/Res/S-KU/Med (282). (2011-13).

Research proposal entitled "Modulation of neurotrophic factor BDNF and c-fos expression in animal model of epileptogenesis: Implications for anti-epileptogenic properties", approved under HEC Ref. No. 20-2066/NRPU/R&D/HEC/125019. (2014)

Research proposal entitled "Controlled release of novel anti-epileptic compounds by hybridizing with nanoparticles", approved under HEC Ref. No. 4010/NRPU/R&D/HEC

Research proposal entitled “Therapeutic agents from natural products with neuroprotective, and neuroregenerative properties to combat ischemic stroke”, approved under Sindh HEC Ref. No. HEC/SRSP/M&AS-1/251/2022-23 (2023)

Co-PI

Development of First Drug Candidate from Pakistan for the Treatment of Epilepsy and other Central Nervous System Disorders. TDF03-057

Discovery and development of new anticancer molecules based on natural products and their derivatives, HEC Ref. No. 5738/Sindh/NRPU/R&D/HEC/2016

Global Search of Antiepileptic Constituents from *Delphinium* and *Aconitum* Species, Organization for the Prohibition of Chemical Weapons (OPCW), S/228/2000

Solid-Phase Synthesis and SAR Studies of Cyclic Peptides to Develop New Anti-inflammatory Agents, (OPCW)

Synthesis and Structure-Activity Relationship Studies of New Antiepileptic Natural Products 20-855/R & D /07/540

Design, Synthesis and Antimicrobial Screening of Cyclic Peptides to develop New Antimicrobial Agents, HEC; 20-1656/R &D/10

MEMBERSHIP OF SCIENTIFIC SOCIETIES

American Society for Pharmacology and Experimental Therapeutics (ASPET)

Society for Neuroscience

European Society for Neurochemistry

International Society for Neurochemistry

Third World Organization for Women in Science (TWOWS)

Western Pharmacology Society

Canadian Interdisciplinary Network for Complementary & Alternative Medicine Research

Federation of European Neuroscience Societies

Inflammation Research Association

International Brain Research Organization

World Association for Scientific Research and Technical Innovation (WASRTI)

PATENTS:

1. Nasally administered pharmaceutical composition for the treatment of epilepsy and related disorders, US-Patent 15/934539, US Patent No. 11,419,833 B2, Patent date August 23, **2022**.
2. Isoxylitones mediated neurogenesis, Atta-ur-Rahman, M. Iqbal Choudhary, Farzana Shaheen, Shabana U. Simjee, Saba Majeed, Anila Bashir, Kanwal Iftikhar, US-Patent 15/934539, US Patent No. 11,065,211 B2, Patent date July 20, **2021**.
3. Anticancer furan conjugated peptidomimetics. Farzana Shaheen, Hunain Ali and Almas Jabeen, Pakistan Patent Application No. 640/2019, Patent No. 143700, Patent Acceptance date: 05-03-**2021**.
4. Anticancer peptides, Farzana Shaheen, Muhammad Nadeem-ul-Haque, Shabana U. Simjee, Aqeel Ahmed, Almas Jabeen, Zafar Ali Shah, M. Iqbal Choudhary, US-Patent Application No. 15/937281, 10/03/2019, United States Patent No. 10550155, Patent Date: Feb 4, **2020**.

5. Pharmaceutical Composition for the Treatment of Epilepsy and Other Neurological Disorders Through Nasal Application, Farzana Shaheen, Atta-Ur-Rahman, M. Iqbal Choudhary, Shabana U. Simjee, Zehra Batool, China National Intellectual Property Administration, PRC, Application Number 202110381246.8, filing date April 09, 2021.
6. Nasally administered formulation for the treatment of epilepsy and related disorders; Farzana Shaheen, Atta-Ur-Rahman, M. Iqbal Choudhary, Shabana U. Simjee, and Zehra Batool, Pakistan Patent Application No. 505/2020, Filing Date: 30/7/2020.
7. Modulation of C-Fos and BDNF Protein Expression in Pentylentetrazole Kindled Mice Following Treatment with Novel Anti-Epileptic Compound HHL-6, Simjee SU, Begum S, Malhi SM, Jawed H, Ashraf N, Hanif H, Siddiqui BS, Zubair F, US-Patent 9272998, Publication Date: 03/01/2016.
8. Anticonvulsant compounds: Atta-ur-Rahman, Muhammad Iqbal Choudhary, Farzana Shaheen, Shabana U. Simjee, A. Ganesan, Mohsin Raza, United States Patent No. U.S. 7399888 B-2; Publication Date: 01/03/2008.

HONOR(s) / AWARD(s)

- Travel Award to attend SPS Annual Meeting 2018, Higher Education Commission, Pakistan
- Travel Award to attend 11th Asian & Oceanian Epilepsy Congress (AOEC), 2016, Hong Kong
- XXth Star Awards 2009, South Asia Publications
- ISN Travel Award (2009), International Society for Neurochemistry
- 7th AOEC Travel Award (2008), ILAE / IBE Congress Secretariat, Xiamen, China
- University Research Studentship Awards, University of Manchester, 1998-2001 (UK)
- Overseas Research Studentships (ORS) awarded for 1998-2001 (UK)
- Academic Affairs award (1996 & 1997), Florida International University
- Member of Phi Kappa Phi Honorary Society, 1996-97
- Merit certificates, University of Karachi, 1991 and 1992

MEMBER EDITORIAL BOARD

Mediterranean Journal of Biosciences

SM Journal of Arthritis Research

Journal of Biochemistry & Molecular Medicine

PUBLICATIONS

Amir A, Shahid M, Farooq Khan S, Nisar U, Faizi S, Usman Simjee S. (2024), Nicotinic acid modulates microglial TREM-2 gene in Phytohemagglutinin-induced in vitro model of Alzheimer's disease like pathology. *Brain Res.*, 1824:148686.

Jamal M, Azam M, Simjee SU. (2023). Combination of metformin and sub-therapeutic dose of valproic acid prevent valproic acid-induced toxicity in animal model of epilepsy. *Drug Chem Toxicol.* 17:1-9.

Ishaque A, Salim A, Simjee SU, Khan I, Adli DSH. (2023). Alpha terpineol directs bone marrow mesenchymal stem cells toward neuronal lineage through regulation of wnt signaling pathway. *Cell Biochem Funct.* 41(2):223-233.

- Mansoor F, Jabeen A, Shah SF, Simjee SU, Bano S, Faizi S. (2023). In-vitro inhibition of NLRP3 inflammasome by 3,6-dihydroxyflavone (3,6-DHF): a therapeutic strategy for the treatment of chronic inflammatory and autoimmune diseases. *Mol Cell Biochem.* 478(3): 555-570.
- Ouédraogo RJ, Jamal M, Ouattara L, Nadeem-ul-haque M, Khan F, Simjee SU, Ouédraogo GA, Shaheen F. (2023). Antiseizure Activity of *Mitragyna inermis* in the Pentylentetrazol (PTZ) - Induced Seizure Model in Mice: Involvement of Flavonoids and Alkaloids. *Turk J Pharm Sci.* DOI: [10.4274/tjps.galenos.2023.14794](https://doi.org/10.4274/tjps.galenos.2023.14794)
- Shams S, Lubbad LI, Simjee SU, Jabeen A. (2023). N-(2-hydroxy phenyl) acetamide ameliorate inflammation and doxorubicin-induced nephrotoxicity in rats. *Int Immunopharmacol*, 123:110741.
- Khan AI, Nazir S, Ullah A, Haque MNU, Maharjan R, Simjee SU, Olleik H, Courvoisier-Dezord E, Maresca M, Shaheen F. (2022). Design, Synthesis and Characterization of [G10a]-Temporin SHa Dendrimers as Dual Inhibitors of Cancer and Pathogenic Microbes. *Biomolecules* 12(6):770.
- Abdullah M, Kanwal T, Shuja AA, Roa K, Rehman K, Kawish M, Simjee SU, Shah MR. (2022). Synthesis and characterization of cinnamic acid based glyceride and its application for developing self-nanoemulsifying drug delivery system for curcumin oral delivery. *J. Molecular Structure*, 1263: 133131.
- Jamal M, Simjee SU (2022). COVID-19 related stress in epileptic patients vs. “antioxidants and exercise”. *Xi'an Shiyou Daxue Xuebao (Ziran Kexue Ban)/Journal of Xi'an Shiyou University* 18(11):266-269
- Maharjan R, Khan AI, Nadeem-ul-Haque M, Maresca M, Choudhary MI, Shaheen F, Simjee SU. (2022). Serum stable and low hemolytic temporin-SHa peptide analogs disrupt cell membrane of methicillin-resistant *Staphylococcus aureus* (MRSA). *Probiotics Antimicrobial Proteins.* doi.org/10.1007/s12602-022-09915-7.
- Sara, Sabira Begum, Saima Mahmood Malhi, Shabana U. Simjee, Bina. S. Siddiq (2022). Antinociceptive activity of *Syzygium aromaticum* Linn. flower buds (clove) extract and its fractions. *JCSP* 44 (6): 263-269.
- Hanif F, Amir QU, Washdev W, Bilwani F, Simjee SU, Haque Z. (2021). A novel variant in dopamine receptor type 2 gene is associated with Schizophrenia. *Arch Med Res.* 52(3):348-353.
- Usmani Y, Ahmed A, Faizi S, Versiani MA, Shamshad S, Khan S, Simjee SU. (2021). Antimicrobial and biofilm inhibiting potential of an amide derivative [N-(2', 4'-dinitrophenyl)-3 β -hydroxyurs-12-en-28-carbonamide] of ursolic acid by modulating membrane potential and quorum sensing against colistin resistant *Acinetobacter baumannii*. *Microb Pathog.* 157:104997.
- Rehman K, Ali I, El-Haj BM, Kanwal T, Maharjan R, Saifullah S, Imran M, Shafiullah, Simjee SU, Shah MR. (2021). Synthesis of novel biocompatible resorcinarene based nanosized dendrimer-vesicles for enhanced anti-bacterial potential of quercetin, *J Mol Liq*, 341: 116921.
- Ashfaq A, Hanif F, Simjee SU, Bari MF, Faizi S, Zehra S, Mirza T, Begum S, Khan L. (2021). Opuntiol inhibits growth and induces apoptosis in human glioblastoma cells by upregulating active caspase 3 expressions, *Asian Pac J Cancer Prev* 22(11):3607-3613.
- Hanif F, Amir QU, Washdev W, Bilwani F, Simjee SU, Haque Z. (2021). A Novel Variant in Dopamine Receptor Type 2 Gene is Associated with Schizophrenia. *Arch Med Res.* 52(3):348-353.
- Kanwal K, Saifullah S, Jawad ur Rehman, Kawish M, Razzak A, Maharjan R, Imran M, Ali I, Roome T, Simjee SU, Shah MR. (2021). Design of absorption enhancer containing self-nanoemulsifying drug delivery system (SNEDDS) for curcumin improved anti-cancer activity and oral bioavailability, *J Mol Liq* 324:114774.
- Hussain SS, Faizi S, Rafi K, Simjee SU. (2020). Novel Mannich base 3FB3FA8H induces apoptosis by upregulating P53 pathway in neuroblastoma cells. *Mol Cell Biochem.* 471(1-2):29-39.

- Khurshid Y, Syed B, Simjee SU, Beg O, Ahmed A. (2020). Antiproliferative and apoptotic effects of proteins from black seeds (*Nigella sativa*) on human breast MCF-7 cancer cell line. *BMC Complement Med Ther.* 20(1):5.
- Simjee SU, Nisar U, Khan R, Ainuddin, Mukhtar I, Jamal M, Azam M, Rizvi NS, Salim A, Anjum S. (2020). Inhibition of long-term kindled seizures induced alterations in the function of bone marrow cells by AC-31B (essential oil) from *Allium cepa*. *Neurology & Neurosciences* 1(1): 1-8.
- Majeed S, Aziz A, Simjee SU. (2020). Neuronal transcription program induced in hippocampal cells cocultured with bone marrow derived mesenchymal cells. *Heliyon* 6(10): e05083.
- Amir, Qurat-Ul-Ain, Hanif, Farina, Washdev, Washdev, Bilwani, Fareena, Simjee, Shabana. (2020). Synonymous polymorphism rs201256011 in Dopamine receptor type 2 gene is associated with schizophrenia and PANSS score in Pakistani population: A First Report. *Int J Clin Pract.* 74(9): e13536. doi:10.1111/ijcp.13536.
- Rafi K, Shahid M, Khan SF, Niaz M, Simjee SU, (2020). Treating Alzheimer's Disease pathology: Present to alternative modalities. eBook: Alzheimer's Disease & Treatment, MedDocs Publishers LLC
- Hanif F, Amir QU, Washdev W, Bilwani F, Simjee SU, Haque Z. (2020). A Novel Variant in Dopamine Receptor Type 2 Gene is Associated with Schizophrenia. *Arch Med Res.* 10: S0188-4409(20)30623-8. doi: 10.1016/j.arcmed.2020.10.020.
- Habib SM, Jawad-Ur-Rehman, Maharjan R, Kanwal T, Althagafi II, Saifullah S, Ullah S, Simjee SU, Shah MR. (2020). Synthesis of lactobionic acid based bola-amphiphiles and its application as nano-carrier for curcumin delivery to cancer cell cultures *in-vitro*. *Int J Pharm.* 590:119897.
- Kadir A, Ibrahim S, Shah SNN, Aslam Z, Siddiqui RA, Baig MT, Shah MR, Mirza T, Simjee SU, Arsalan A. (2020). Attenuation of cisplatin-induced acute kidney injury by N-(2-Hydroxyphenyl) acetamide and its gold conjugated nano-formulations in mice. *Pak J Pharm Sci.* 33(2(Supplementary)):787-793.
- Aziz A, Hanif F, Majeed S, Iftikhar K, Simjee SU. (2019). N-(2-hydroxyphenyl) acetamide (NA-2) elicits potent antitumor effect against human breast cancer cell line (MCF-7). *Toxicol In Vitro* 60:296-304.
- Kanwal T, Kawish M, Maharjan R, Ghaffar I, Ali HS, Imran M, Perveen S, Saifullah S, Simjee SU, Shah MR. (2019). Design and development of permeation enhancer containing self-nanoemulsifying drug delivery system (SNEDDS) for ceftriaxone sodium improved oral pharmacokinetics. *J Mol Liquids* 289: 111098.
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- Hasan F, Ikram R, Simjee SU, Iftakhar K, Asadullah K, Usman M. (2019). The effects of aspirin gel and mouthwash on levels of salivary biomarkers PGE(2), TNF-alpha and nitric oxide in patients with periodontal diseases. *Pak. J. Pharm. Sci., Vol.32, Issue 5(Suppl), September 2019, pp. 2019-2023.*

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- Mazhar M, Kabir N, Simjee SU. (2018), Quercetin modulates iron homeostasis and iNOS expression of splenic macrophages in a rat model of iron deficiency anemia. *Chin J Nat Med.* 16(8): 580-589.
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- Hanif F, Perveen K, Malhi SM, Jawed H, Simjee SU. (2018), Verapamil potentiates anti-glioblastoma efficacy of temozolomide by modulating apoptotic signaling. *Toxicol In Vitro.* 52: 306-313.
- Jawed H, SimjeeSU (2018), Preventive role of Gabapentin in transmission of inflammatory nociception in acute and sub-chronic inflammatory models of rat. *Molecular Biology: Open Access* 7(4), 10.4172/2168-9547.1000218
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- Hussain SS, Rafi K, Faizi S, Razzak ZA, Simjee SU. (2018), A novel, semi-synthetic diterpenoid 16(R and S)-phenylamino-cleroda-3,13(14), Z-dien-15,16 olide (PGEA-AN) inhibits the growth and cell survival of human neuroblastoma cell line SH-SY5Y by modulating P53 pathway. *Mol Cell Biochem.* doi: 10.1007/s11010-018-3347-3.
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- Gul A, Kunwar B, Mazhar M, Perveen K, Simjee SU, (2017), N-(2-Hydroxyphenyl) acetamide: A novel suppressor of RANK/RANKL pathway in collagen-induced arthritis model in rats. *Inflammation*, 40(4):1177- 1190.
- Hasan F., Najam R., Simjee SU. (2017), Metformin-A non-conventional drug for the local treatment of periodontal diseases: A randomized clinical control study. *Med. Forum* 28(6): 162-166.

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- Mbiantcha M, Almas J, Simjee SU, Nida D, Aisha F, (2017), Anti-arthritis property of crude extracts of *Piptadeniastrum africanum* (Mimosaceae) in complete Freund's adjuvant-induced arthritis in rats, *BMC Complement Altern Med*, 17:111.
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- Mazhar F, Malhi SM, Simjee SU (2017), Comparative studies on the effects of clinically used anticonvulsants on the oxidative stress biomarkers in pentylenetetrazole-induced kindling model of epileptogenesis in mice. *J Basic Clin Physiol Pharmacol*. 28(1): 31-42.
- Itefaq Hussain Qureshi, Shabana Usman Simjee (2016), Effects of combined regimens of gabapentin and verapamil with diazepam on kindled model of epilepsy in mice. *J Babria Uni Med Dental Coll* ; 6(1):18-22.
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