

CURRICULUM VITAE



**Department of Pharmacology
Faculty of Pharmacy
Bahauddin Zakariya University, Multan 60800
Pakistan.**



Name: Dr. IMRAN

Affiliation: Associate Professor, Department of Pharmacology,
Faculty of Pharmacy, Bahauddin Zakariya University, Multan.

E-mail: imran.ch@bzu.edu.pk

Phone#: +92-61-99210465
+92-321-6302819



Web of Science Researcher ID
[AAL-5734-2020](https://orcid.org/0000-0003-1337-8574)

[https://orcid.org/
0000-0003-1337-8574](https://orcid.org/0000-0003-1337-8574)

[https://www.linkedin.com/in/imran-ch-
468296172/](https://www.linkedin.com/in/imran-ch-468296172/)

[https://scholar.google.com/citations?user=TFD5
Ky0AAAAJ&hl=en](https://scholar.google.com/citations?user=TFD5Ky0AAAAJ&hl=en)

Imranbzu1

Summary

- *Experienced Associate Professor with a demonstrated history of working as a teacher and researcher. Strong education professional with a Doctor of Philosophy (Ph.D.) focused in Neuropharmacology from Goethe University of Frankfurt, Germany.*
- *Supervised 9 PhD, 39 M.Phil Projects.*
- *Published 130 research articles (118 indexed in JCR and 12 non-indexed) with a cumulative impact factor of 400.*
- *Published 4 book chapters in an international series.*
- *Presented in 18 International research conferences.*
- *Received research grants from Local and International Projects.*
- *Focal person in establishment of Pharmacology Lab between Pakistan and Turkey.*
- *Research collaborator and consultant for various projects in King Saud University, Riyadh, Saudi Arabia*

Educational Background

- **Ph.D Pharmacology (2015)**

Department of Pharmacology, School of Pharmacy, Goethe University of Frankfurt, Frankfurt am Main, Germany

Title of Thesis: *Neurochemical and metabolic consequences of lithium-pilocarpine-induced acute status epilepticus*

- **M.Phil Pharmacology (2007) 18 years of Education**

Department of Pharmacology, Faculty of Pharmacy, University of Karachi, Karachi-75270, Pakistan.

Title of thesis: *An investigation of the role of Phosphoinositide 3-kinases in human platelet aggregation and oxidative stress*

- **Bachelor of Pharmacy (2004) 16 years of Education**

Faculty of Pharmacy, Bahauddin Zakariya University, Multan, Pakistan.

Academic and Professional Experience

1. June 2018 to date working as Associate Professor of Pharmacology, Faculty of Pharmacy Bahauddin Zakariya University, Multan.
2. August 2016 to June 2018 worked as Assistant Professor of Pharmacology, Faculty of Pharmacy, B.Z. University Multan.
3. December 2007 to August 2016 worked as a Lecturer of Pharmacology in Department of Pharmacy, B.Z. University Multan. Taught Pharmacology and Toxicology to undergraduate and M.Phil classes.
4. August 2011 to August 2015 joined the laboratory of Prof. Dr. Jochen Klein in Department of Pharmacology, College of Pharmacy at Johann Wolfgang Goethe University of Frankfurt to pursue PhD in Pharmacy (Pharmacology). Also, delivered lectures on selected topics to undergraduate and master students.
5. From November 2004 to November 2007 as Junior Research Fellow under the supervision of Professor Dr. Sheikh Arshad Saeed at Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi, Karachi-75270, Pakistan.

Administrative Experience

1. Feb 2019 to hitherto working as Chairman Department of Pharmacology, Faculty of Pharmacy, B.Z. University, Multan.
2. October 2017 to Feb 2019 worked as Senior Most Teacher (Teacher In-charge), Department of Pharmacology, Faculty of Pharmacy, B.Z. University Multan.

3. January 2016 to September 2017 worked as a Deputy Director Student Affairs (DDSA), for the directorate of student affairs at B.Z. University Multan.

Awards and Fellowships

1. Fully funded research fellowship from International Center of Chemical and Biological Sciences (ICCBS) , University of Karachi for M.Phil studies (November 2004-November 2007)
2. Fully funded research stipend for PhD studies in Goethe University of Frankfurt, Germany by German Academic Exchange Service (DAAD) (2012-2015)

Research Grants

1. Rs. 175000/- funded by Directorate of Research and external Linkages of B.Z. University, Multan for the project titled “ Pharmacological investigation of *Indigofera sessiliflora* (Fabaceae) in experimental animal models” (2016-2017)
2. Rs. 154000/- funded by Directorate of Research and External Linkages of B.Z. University, Multan for the project titled “ Pharmacological and behavioral evaluation of Lacosamide in lithium-pilocarpine model of status epilepticus” (2017-2018)
3. Rs. 250000/- funded by Directorate of Research and External Linkages of B.Z. University, Multan for the project titled “ Pharmacological evaluation of *Indigofera sessiliflora* and *Indigofera argentea* in experimental animal models ” (2018-2019).
4. Rs. 1.0 million rupees funded by Higher Education Commission of Pakistan as a start-up grant awarded to Dr. Waseem Ashraf under my supervision and CO-PI. The title of the project is “An investigation of novel AMPA receptor antagonist in pathogenesis of temporal lobe epilepsy” (2021-2022).
5. For the Research grant of Saudi Riyal (SR). 150000/, worked as a collaborative member of research team to Deanship of Scientific Research at King Saud University Riyadh, Saudi Arabia. (Research group No. RG-1441-340)
6. Working as a research consultant for the Behavioural Pharmacology part to the research grant titled “Investigating Therapeutic Benefits of Quercetin in Preclinical Mice Model of Traumatic Brain Injury upon Cigarette Smoke Exposure” worth of Saudi Riyal (SR). 400000/- equivalent to US\$ 105000/- funded by Institutional funding program for research and innovation by King Saud University, Riyadh, Saudi Arabia. (2022-2023)

M.Phil Thesis Supervised

S. No	Name	Degree/Year	Title of Thesis	Awarded By
	Liaqat Hussain	M.Phil Pharmacology 2010	Pharmacological studies on antidiarrhoeal and antiasthmatic activities of <i>Acacia leucophloea</i>	Bahauddin Zakariya University, Multan
2.	Mueen Ahmad Chaudhary	M.Phil Pharmacology 2010	Search for Pharmacological activity out of <i>Amarethus spinosus</i> relevant to GIT, respiratory and cardiovascular systems.	Bahauddin Zakariya University, Multan
3.	Maryum Khan 02-PHL-S15	M.Phil Pharmacology 2017	Pharmacological evaluation of <i>Cassia fistula</i> and <i>Brassica nigra</i> in experimental animal model	Bahauddin Zakariya University, Multan
4.	Rabia Anwar 06-PHL-S15	M.Phil Pharmacology 2017	An investigation of central nervous system modulatory effect of <i>Trigonella foenum</i> and <i>Moras alba</i> in rodents	Bahauddin Zakariya University, Multan
5.	Hiba Asim 09-PHL-S15	M.Phil Pharmacology 2017	Search for pharmacological effects of <i>Pongamia pinnata</i> and <i>Camellia sinensis</i> in animal model of convulsion, anxiety and depression	Bahauddin Zakariya University, Multan
6.	Sajida Perveen 10-PHL-S15	M.Phil Pharmacology 2017	Evaluation of central nervous system modulatory effects of <i>Magnolia grandiflora</i> and <i>Citrus paradise</i> in rodents	Bahauddin Zakariya University, Multan
7.	Khaled 12-PHL-S15	M.Phil Pharmacology 2017	Pharmacological evaluation of <i>Hippeasprum puniceum</i> (Lam.) voss in gastrointestinal, respiratory and vascular ailments	Bahauddin Zakariya University, Multan
8.	Sidra Khalid 01-PHL-S16	M.Phil Pharmacology 2018	An investigation of <i>Apium graveolens</i> on pharmacological basis	Bahauddin Zakariya University, Multan
9.	Aamna Anwer 02-PHL-S16	M.Phil Pharmacology 2018	Pharmacological validation of <i>Grewia asiatica</i> in experimental animal models	Bahauddin Zakariya University, Multan
10.	Humna Malik 03-PHL-S16	M.Phil Pharmacology 2018	Pharmacological exploration of <i>Ficus benghalensis</i> in experimental animal models of epilepsy, anxiety, depression and memory.	Bahauddin Zakariya University, Multan
11.	Usman Javaid 04-PHL-S16	M.Phil Pharmacology 2018	Pharmacological validation of traditional claims of <i>Solanum virginianum</i> in <i>in-vitro</i> and <i>in-vivo</i> experiments	Bahauddin Zakariya University, Multan
12.	Rabia Hameed 09-PHL-S16	M.Phil Pharmacology 2018	Pharmacological investigation of <i>Cordia myxa</i> in experimental animal models	Bahauddin Zakariya University, Multan
13.	Tayyaba Kaukab 11-PHL-S16	M.Phil Pharmacology 2018	An investigation of central nervous system modulatory effects by <i>Levendula stoechas</i> in rodents	Bahauddin Zakariya University, Multan
14.	Sameen Rashid 13-PHL-S16	M.Phil Pharmacology 2018	Ethnopharmacological assessment of <i>Alstonia scholaris</i> in animal models of convulsion, anxiety,	Bahauddin Zakariya University, Multan

			depression and memory.	
15.	Anaum Habiba Lodhi 01-PHL-S17	M.Phil Pharmacology 2019	Pharmacological investigation of <i>Hippeastrum puniceum</i> in experimental animal model of epilepsy, anxiety, depression and memory.	Bahauddin Zakariya University, Multan
16.	Abida Parveen 02-PHL-S17	M.Phil Pharmacology 2019	To validate the traditional claims of a polyherbal formulation (Demaghi) pertaining to central nervous system effects	Bahauddin Zakariya University, Multan
17.	Waleed Shakeel 04-PHL-S17	M.Phil Pharmacology 2019	Neuropharmacological evaluation of new generation anti-epileptic drugs in experimental animal epilepsy model	Bahauddin Zakariya University, Multan
18.	Ahsan Munir 05-PHL-S17	M.Phil Pharmacology 2019	Pharmacological validation of a polyherbal formulation in <i>in-vitro</i> and <i>in-vivo</i> experiments	Bahauddin Zakariya University, Multan
19.	Tahreem Shoukat 08-PHL-S-17	M.Phil Pharmacology 2019	Comparative study of leaves, fruits and roots of <i>Morus nigra</i> for antispasmodic, bronchodilator and vasorelaxant potential.	Bahauddin Zakariya University, Multan
20.	Aroosa Waheed 12-PHL-S17	M.Phil Pharmacology 2019	Nutritional impact of fresh juice of <i>Grewia asiatica</i> in experimental animal model of behavioral science	Bahauddin Zakariya University, Multan
21.	Shereen Rubab 13-PHL-S17	M.Phil Pharmacology 2019	Behavioral and neurochemical evaluation of chronic dietary intake of monosodium glutamate (MSG) in animal model of gestation, lactation and adulthood	Bahauddin Zakariya University, Multan
22.	Muhammad Shoaib Afzal 01-PHL-S18	M.Phil Pharmacology 2020	<i>In-vitro</i> and <i>in-vivo</i> ethno-Pharmacological validation of <i>Millettia pinnata</i>	Bahauddin Zakariya University, Multan
23.	Hamid Ali 02-PHL-S18	M.Phil Pharmacology 2020	Behavioral and neurochemical evaluation of topiramate alone and in combination on lithium pilocarpine induced convulsive model	Bahauddin Zakariya University, Multan
24.	Waqar Ahmed 06-PHL-S18	M.Phil Pharmacology 2020	Evaluation of traditional uses of <i>Mimusops elengi</i> in <i>in-vitro</i> and <i>in-vivo</i> experiments on scientific basis	Bahauddin Zakariya University, Multan
25.	Rabia Hassan 11-PHL-S18	M.Phil Pharmacology 2020	Meta-analysis of the adverse events associated with new generation anti-epileptic drugs	Bahauddin Zakariya University, Multan
26.	Gul E Nokhaiz 16-PHL-S18	M.Phil Pharmacology 2020	Behavioral and biochemical effects of combination of neuroprotective drugs in Alloxan induced diabetic model in rats	Bahauddin Zakariya University, Multan
27.	Sadaf Amin 17-PHL-S18	M.Phil Pharmacology	Neuropharmacological assessment of the long term dietary intake of	Bahauddin Zakariya

		2020	monosodium glutamate (MSG) in animal model of rats	University, Multan
28.	Muhammad Asghar 21-PHL-S18	M.Phil Pharmacology 2020	Short verses long term dual antiplatelet therapy after drug eluting stent implantation in elderly population of Southern Punjab	Bahauddin Zakariya University, Multan
29.	Hafsa Pervaiz 01-PHL-S-19	M.Phil Pharmacology 2021	Evaluation of the anticonvulsant efficacy and safety profile of Levetiracetam, Eslicarbazepine, and Perampanel	Bahauddin Zakariya University, Multan
30.	Nadia Anam 02-PHL-S-19	M.Phil Pharmacology 2021	Central and Peripheral effect of monosodium glutamate in chronic ingestion animal model.	Bahauddin Zakariya University, Multan
31.	M. Asif Abbas 03-PHL-S-19	M.Phil Pharmacology 2021	Effect of dehydrate moringa leaves powder on management of hyperlipidemia in albino wistar rats.	Bahauddin Zakariya University, Multan
32.	Talha Mohy Ud Din 05-PHL-S17	M.Phil Pharmacology 2021	Investigation of quercetin as a neuroprotective agent in stress induced animal model.	Bahauddin Zakariya University, Multan
33.	Zia Ur Rehman 07-PHL-S-19	M.Phil Pharmacology 2021	Evaluation of neuroprotective effect of Resveratrol in animal stress model	Bahauddin Zakariya University, Multan
34.	Ammara Afzal 11-PHL-S19	M.Phil Pharmacology 2021	Meta-analysis on the efficacy of Zonisamide, Rufinamide and Retigabine in refractory focal epilepsy	Bahauddin Zakariya University, Multan
35.	Sidra Talat 15-PHL-S-19	M.Phil Pharmacology 2021	Pharmacological investigation of AMPA Receptor Antagonist on Various Epileptic Models.	Bahauddin Zakariya University, Multan
36.	Zohabia Rehman 02-PHL-S-21	M.Phil Pharmacology 2023	Electrophysiological, neurobehavioral, and neurochemical effect of SV2A modulator alone and in polypharmacy with perampanel in chronic PTZ kindled seizure mice model.	Bahauddin Zakariya University, Multan
37.	Talha Farooq 03-PHL-S-21	M.Phil Pharmacology 2023	Evaluation of neuroprotective effect of combination of new generation antiseizures drugs (Brivaracetam and Perampanel) against electrical induced chronic seizure model.	Bahauddin Zakariya University, Multan
38.	Nosheen Malik 08-PHL-S-21	M.Phil Pharmacology 2023	Nutritional impact of <i>Syzygium cumini</i> fresh juice (Jaman) in scopolamine induced memory deficit model of young vs geriatric mice	Bahauddin Zakariya University, Multan
39.	Maryam Tariq 16-PHL-S-21	M.Phil Pharmacology 2023	Neuropharmacological investigation of noncompetitive AMPA-type glutamate receptor antagonist with central calcium channel blocker in pentylenetetrazole kindled mice model.	Bahauddin Zakariya University, Multan

*Number of enrolled M.Phil students: 04 (Session 2022-2024)

Ph.D Research Projects

S. No	Name	Session	Title of Thesis	Current Status
1.	Hafiz Muhammad Abdur Rehman 01-PHDL-S14	2014-2018 (Registered/ Confirmed Enrollment)	Pharmacological evaluation of <i>Ailanthus altissima</i> , <i>Phyla nodiflora</i> and <i>Psidium cattleianum</i> in experimental animal models	Awarded PhD
2.	Muhammad Ali Raza 03-PHDL-S14	2014-2018 (Registered/ Confirmed Enrollment)	Pharmacological validation of traditional claims of <i>Glinus lotoides</i> and <i>Crotalaria burhia</i> in <i>in-vitro</i> and <i>in-vivo</i> experiments	Awarded PhD
3.	Mouqadus-Un-Nisa 04-PHDL-S14	2014-2018 (Registered/ Confirmed Enrollment)	Ethnopharmacological investigation of <i>Calligonum polygonoides</i> and <i>Typha domingensis</i>	Awarded PhD
4.	Muhammad Sajjad Haider 05-PHDL-S14	2014-2018 (Registered/ Confirmed Enrollment)	Pharmacological evaluation of <i>Indigofera sessiliflora</i> and <i>Indigofera argentea</i> (Fabaceae) in experimental animal models	Awarded PhD
5.	Nadia Perveen 07-PHDL-S18	2018-2022 (Registered)	Neuropharmacological and behavioural consequences of AMPA receptor antagonist in acute and chronic seizure models.	Awarded PhD
6.	Sana Javaid 03-PHDL-S18	2018-2022 (Registered)	Neuropharmacological and behavioural characterization of GABAergic modulators in rodent seizure and epilepsy models.	Awarded PhD
7.	Saima Abbas 02-PHDL-S18	2018-2022 (Registered)	Pharmacological and behavioural evaluation of rufinamide in chemoconvulsive models.	Working with the Project Supervisors: 1. Dr. Imran 2. Dr.Syed Muhammad Muneeb Ajnum
8.	Attia Qayyum 04-PHDL-S21	2021-225	Neuropharmacological investigation of noncompetitive AMPA-type glutamate receptor antagonist with rufinamide in pilocarpine-induced acute status epilepticus and temporal lobe epilepsy	Supervisors: 1. Dr. Imran 2. Dr.Syed Muhammad Muneeb Ajnum
9.	Zohabia Rehman 01-PHDL-S23	2123-2027	An optimization of the method for the automated quantification of EEG spikes and spike clusters in intrahippocampal kainate mouse models of mesial temporal lobe epilepsy	Supervisors: 1. Dr. Imran 2. Dr.Syed Muhammad Muneeb Ajnum
10.	Nosheen Malik	2123-2027	To be decided	Supervisors: 1. Dr. Imran 2. Dr.Faleh Alqahtani

11.	Khaled	2123-2027	To be decided	Supervisors: 1. Dr. Imran 2. Dr. Faleh Alqahtani
12.	Muhammad Farhaj Latif	2123-2027	To be decided	Supervisor: 1. Dr. Imran
13.	Ejaz Alvi	2123-2027	To be decided	Supervisor: 1. Dr. Imran Dr. Syed Muhammad Muneeb Anjum

Peer Reviewed Publications

1. Saeed SA, Choudhary MI, Karim F, Zubairi AJ, **Imran Manzoor**, Gitay M, Saeed S. New prospects in the understanding of molecular basis of ageing. *J. Biol. Sci.* 2005; 5: 38-43.
2. Saeed SA, **Imran Manzoor**, Quadri I, Tasneem S, Simjee SU. Demystifying phytochemicals: An Insight. *Int. J. Pharmacol.* 2005; 1:234-238. **[Impact Factor: 0.751]**
3. Saeed SA, Waqar MA, **Imran Manzoor**. Malaria and resistance to anti-malarial drugs. *Pakistan J. Zool.* 2005; 37: 215-219. **[Impact Factor: 0.831]**
4. Saeed SA, **Imran Manzoor**, Hameed HS, Gowani SAS, Thebo UA, Zafar N, Waqar MA. Role of Phosphatidylinositol 3-Kinase in Platelet Signaling and the Regulation of Thrombus Formation. *J. Chem. Soc. Pak.* 2007; 29 (4):383-389. **[Impact Factor: 0.536]**
5. Saeed SA, Connor JD, **Imran**, Quadri J, Tasneem S, Ahmed S, Mesaik MA, Choudhary MI. Inhibitors of phosphatidylinositol 3-kinase: effects on reactive oxygen species and platelet aggregation. *Pharmacol Rep.* 2007;59:238-243. **[Impact Factor: 3.024]**
6. Sheikh Arshad Saeed, **Imran**. Selective inhibition of PAF-induced human platelet aggregation by garlic. *Journal of Journal of Research (Science)*. Bahauddin Zakariya University, Multan, Pakistan. 2007;18 (2) ;119-123.
7. Rasool N, Rizwan K, Zubair M, Naveed KU, **Imran I**, Ahmed VU. Antioxidant potential of different extracts and fractions of *Catharanthus roseus* shoots. *Int J Phytomedicine.* 2011 ;3 :108-114.
8. **Imran I**, Hussain L, Zia-Ul-Haq M, Janbaz KH, Gilani AH, De Feo V. Gastrointestinal and respiratory activities of *Acacia leucophloea*. *J Ethnopharmacol.* 2011;138:676-682. **[Impact Factor: 4.36]**
9. Ahmed A, Khan RA, Azim MK, Saeed SA, Mesaik MA, Ahmed S, **Imran I**. Effect of natural honey on human platelets and blood coagulation proteins. *Pak J Pharm Sci.* 2011;24:389-397. **[Impact Factor: 0.684]**
10. Zia-Ul-Haq M, Cavar S, Qayum M, **Imran I**, de Feo V. Compositional studies: antioxidant and antidiabetic activities of *Capparis decidua* (Forsk.) Edgew. *Int J Mol Sci.* 2011;12:8846-8861. **[Impact Factor: 5.923]**

11. Chaudhary MA, **Imran I**, Bashir S, Mehmood MH, Rehman NU, Gilani AH. Evaluation of gut modulatory and bronchodilator activities of *Amaranthus spinosus* Linn. *BMC Complement Altern Med*. 2012;12:166. **[Impact Factor: 3.659]**
12. Janbaz KH, Haider S, **Imran I**, Zia-Ul-Haq M, De Martino L, De Feo V. Pharmacological Evaluation of *Prosopis cineraria* (L.) Druce in Gastrointestinal, Respiratory, and Vascular Disorders. *Evid Based Complement Alternat Med*. 2012;735653. **[Impact Factor: 2.629]**
13. Muhammad Zia-UL-Haq, Shakir Ahmad Shahid, Barkat Ali Khan, Imran Imran, Mughal Qayum, Mussarat Akhter, Zahid Khan, Shafi Muhammed. Nematicidal potential of selected flora of Pakistan. *J Med Plants Res*. 2012;6(24): 4087-4090.
14. **Imran I**, Hussain L, Ahmed S, Rasool N, Rasool S, Abbas G, Ali MY. Antiplatelet activity of methanolic extract of *Acacia leucophloea* bark. *J Med Plants Res*. 2012;6: 4185-4188.
15. Janbaz KH, Nisa M, Saqib F, **Imran I**, Zia-Ul-Haq M, De Feo V. Bronchodilator, vasodilator and spasmolytic activities of methanolic extract of *Myrtus communis* L. *J Physiol Pharmacol*. 2013;64:479-484. **[Impact Factor: 3.011]**
16. Janbaz KH, Latif MF, Saqib F, **Imran I**, Zia-Ul-Haq M, De Feo V. Pharmacological Effects of *Lactuca serriola* L. in Experimental Model of Gastrointestinal, Respiratory, and Vascular Ailments. *Evid Based Complement Alternat Med*. 2013;304394. **[Impact Factor: 2.629]**
17. **Imran I**, Zia-Ul-Haq M, Calani L, Mazzeo T, Pellegrini N. Phenolic profile and antioxidant potential of selected plants of Pakistan. *J Appl Bot Food Qual*. 2014 6;87: 30-35. **[Impact Factor: 1.451]**
18. Janbaz KH, Arif J, Saqib F, **Imran I**, Ashraf M, Zia-Ul-Haq M, Jaafar HZ, De Feo V. In-vitro and in-vivo validation of ethnopharmacological uses of methanol extract of *Isodon rugosus* Wall. ex Benth. (Lamiaceae). *BMC Complement Altern Med*. 2014 ;14:71. **[Impact Factor: 3.659]**
19. Janbaz KH, Qayyum A, Saqib F, **Imran I**, Zia-Ul-Haq M, de Feo V. Bronchodilator, vasodilator and spasmolytic activities of *Cymbopogon martinii*. *J Physiol Pharmacol*. 2014;65:859-866. **[Impact Factor: 3.011]**
20. Zia-Ul-Haq M, Ahmad S, Stankovic MS, Sultan MT, **Imran I**, Velter V, Badiu D, Halichidis S, Hangan T. Antimicrobial and antioxidant potential of *Ipomoea hederacea*. *Farmacia*. 2014;62:1181-1190. **[Impact Factor: 1.433]**
21. Yasin M, Hussain Janbaz K, **Imran I**, Gilani AU, Bashir S. Pharmacological studies on the antispasmodic, bronchodilator and anti-platelet activities of *Abies webbiana*. *Phytother Res*. 2014; 28:1182-1187. **[Impact Factor: 5.878]**
22. Hillert MH, **Imran I**, Zimmermann M, Lau H, Weinfurter S, Klein J. Dynamics of hippocampal acetylcholine release during lithium-pilocarpine-induced status epilepticus in rats. *J Neurochem*. 2014;131:42-52. **[Impact Factor: 5.372]**
23. Janbaz KH, Akhtar T, Saqib F, **Imran I**, Zia-Ul-Haq M, Jansakul C, De Feo V, Moga M. Pharmacological justification of use of *Solena heterophylla* Lour. in gastrointestinal, respiratory and vascular disorders. *J Transl Med*. 2015 ;13:134. **[Impact Factor: 5.531]**

24. Janbaz KH, Javed S, Saqib F, **Imran I**, Zia-Ul-Haq M, De Feo V. Validation of ethnopharmacological uses of *Heliotropium strigosum* Willd. as spasmolytic, bronchodilator and vasorelaxant remedy. *BMC Complement Altern Med*. 2015;15:169. **[Impact Factor: 3.659]**
25. Janbaz KH, Zaeem Ahsan M, Saqib F, **Imran I**, Zia-Ul-Haq M, Abid Rashid M, Jaafar HZ, Moga M. Scientific basis for use of *Pyrus pashia* Buch.-Ham. ex D. Don. fruit in gastrointestinal, respiratory and cardiovascular ailments. *PLoS One*. 2015 ;10:e0118605. **[Impact Factor: 3.24]**
26. Hussain L, Naseem S, Ikram J, Ali M, **Imran I**, Moga M, Zia-ul-Haq M . Antiulcerogenic Effect of *Carthamus oxyantha* M. Bieb (Asteraceae) in Mice and Rat Models. *Pak J Zoology*. 2015 47; 529-534. **[Impact Factor: 0.831]**
27. Zia-Ul-Haq M, Ahmad S, **Imran I**, Ercisli S, Moga M. Compositional study and antioxidant capacity of *Grewia Asiatica* L. Seeds grown in Pakistan. *Comptes rendus de l'Académie bulgare des Sciences*. 2015 ;68.191-200. **[Impact Factor: 0.378]**
28. **Imran I**, Hillert MH, Klein J. Early metabolic responses to lithium/pilocarpine-induced status epilepticus in rat brain. *J Neurochem*. 2015 ;135:1007-1018. **[Impact Factor: 5.372]**
29. Lietsche J, **Imran I**, Klein J. Extracellular levels of ATP and acetylcholine during lithium-pilocarpine induced status epilepticus in rats. *Neurosci Lett*. 2016 ;611:69-73. **[Impact Factor: 3.046]**
30. Abdur Rahman HM, Ahmed K, Rasool MF, **Imran I**. Pharmacological evaluation of smooth muscle relaxant and cardiac-modulation potential of *Phyllanthus nodiflora* in ex-vivo and in-vivo experiments. *Asian Pac J Trop Med*. 2017 ;10(12):1146-1153.**[Impact Factor: 1.226]**
31. Klein J, **Imran I**, Hillert M, Thinnies A. Cholinergic activation during lithium-pilocarpine-induced status epilepticus. *J Neurochem*. 2017.142; Supplement 2: 192-193. **[Impact Factor: 5.372]**
32. Jansakul, Chaweewan; Chairuk, Pilaipan; Zia-Ul-Haq, M; Imran, Imran. Effect of *Ipomoea hederacea* Jacq. methanolic extract on blood pressure and relaxation of rat thoracic aorta: Evidence indicated the release of NO and H₂S. *TJPS*. 2018, 42 (2): 58-65.
33. Mushtaq Z, Saqib F, **Imran I**, Zia-Ul-Haq M, Dewanjee S, Dima L. Pharmacological basis for the medicinal use of *Michelia champaca* in gut, airways and cardiovascular disorders. *Asian Pac J Trop Med*. 2018 ; 11(4), 292-296.**[Impact Factor: 1.226]**
34. Saqib F, Hassan S, **Imran I**, Aleem A, Janbaz KH. Pharmacological effects of *Cnicus arvensis* on the gastrointestinal system. *Bangladesh J Pharmacol*. 2018;13;16-22. **[Impact Factor: 0.930]**
35. Samad N, Jabeen S, **Imran I**, Zulfikar I, Bilal K. Protective effect of gallic acid against arsenic-induced anxiety-/depression- like behaviors and memory impairment in male rats. *Metab Brain Dis*. 2019 ;34(4):1091-1102. **[Impact Factor: 3.584]**
36. Rasool MF, Khalid S, Majeed A, Saeed H, **Imran I**, Mohany M, Al-Rejaie S, Alqahtani F. Development and evaluation of physiologically based pharmacokinetic drug-disease models for

- predicting rifampicin exposure in tuberculosis and cirrhosis populations. *Pharmaceutics*. 2019 Nov 5;11(11). pii: E578. doi: 10.3390/pharmaceutics11110578. **[Impact Factor: 6.321]**
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10. 8th Congress of the International Society for Autonomic Neuroscience (ISAN). July 29-August 02, 2013. Giessen, Germany.
11. **Imran Imran**, Hillert M, Jochen Klein. Neurochemical and metabolic consequences during lithium-pilocarpine induced status epilepticus. Cholinergic tone: where from, what for? Physiological mode of cholinergic signaling. May 19-20, 2014, Strasbourg, France.
12. 4th International symposium on non-neuronal acetylcholine. August 28-30, 2014. Giessen, Germany. **(Oral Communication)**
13. Lietsche J, **Imran I**, Hardt S, Klein J. Dynamic changes in extracellular ATP levels during status epilepticus as monitored by a novel microdialysis probe. DPhG Annual meeting 2014. Trends and Perspective in Pharmaceutical Sciences. September 24-26, 2014, Frankfurt am Main, Germany.
14. **Imran Imran**, Hillert M, Jochen Klein. Dynamics of acetylcholine and metabolites release during lithium-pilocarpine-induced status epilepticus in rats: a microdialysis study. DPhG Annual meeting 2014. Trends and Perspective in Pharmaceutical Sciences. September 24-26, 2014, Frankfurt am Main, Germany.
15. Klein J, **Imran I**, Hillert M, Thinnies A. Cholinergic activation during lithium-pilocarpine-induced status epilepticus. XVth International Symposium on Cholinergic Mechanisms. October 16-20, 2016, Marseille, France. (Oral Communication)
16. Sajida Perveen, **Imran I**. Evaluation of seizure suppressant activities of *Magnolia grandiflora* and *citrus paradisi* in rodents. Dow University of Health Sciences 9th Annual Research day, 24 February 2018, Karachi, Pakistan.
17. **Imran Imran**, Waleed Shakeel , Nadia Perveen, Syed Muhammad Muneeb Anjum. Behavioral and biochemical effects of single Vs combination of new generation anti-epileptic drugs in chemoconvulsant model of epileptogenesis and temporal lobe epilepsy. 7th International Symposium-cum-Training Course on Molecular Medicine and Drug Research (MMDR-7) November 04-07, 2019, ICCBS, University of Karachi. (Oral Communication)
18. **Imran Imran**, Waseem Ashraf, Sana Javaid, Muhammad Fawad Rasool. Pharmacological and behavioural evaluation of fear-reducing and memory-enhancing effects of *Phyllanthus nodiflora* in rats after UHPLC-MS analysis and *in-silico* studies 15th International Symposium on Natural Product Chemistry (ISNPC-15) February 21-24, 2022, Karachi, Pakistan. (Oral Communication)
19. **Imran Imran**, Waseem Ashraf, Aroosa Waheed, Sana Javaid. *Grewia asiatica* juice supplementation exhibits anti-amnesic effects via modulation of cholinesterases and redox imbalance in the brains of scopolamine-amnesic Sprague Dawley rats. Ist International

Conference on innovations in Chemistry and Physics, University of Education, Faisalabad, Pakistan. March 14-15, 2022.

20. Zohabia Rehman, Waseem Ashraf, **Imran Imran**. Exploring the multifaceted effects of topiramate, pregabalin, and lacosamide combination in a rat models of acute status epilepticus and focal epilepsy by electroencephalographic, neurobehavioral and regional degenerative analysis. 6th International Conference on “Advances in Biosciences ICABS 2024”, March 4-5, 2024. Government College University, Lahore, Pakistan. (Oral Presentation)
21. Imran Imran. Decoding the anti-epileptogenic potential of topiramate, pregabalin and lacosamide combination: Convergence on brain degeneracy, increased oxidative stress and pathologic interneuron loss. BRIN’s 2nd International Conference on Health Research (ICHR), August 28-29, 2024, Indonesia.

Commentaries

1	Pakistan: time for stronger enforcement on tobacco control. Musaddique Hussain, Abdul Majeed, Imran Imran , Muhammad Fawad Rasool, Ikhlq Hussain, Qasim Barkat, Ximei Wu	Tobacco Control	2019	https://blogs.bmj.com/tc/2019/12/12/pakistan-time-for-stronger-enforcement-on-tobacco-control/
2	Rapid response to: Poverty is the real enemy of women’s health. Pakistani women seek abortions as birth control. Musaddique Hussain, Abdul Majeed, Imran Imran , Muhammad Fawad Rasool, Ikhlq Hussain, Qasim Barkat and Ximei Wu	BMJ	2019	https://www.bmj.com/content/367/bmj.j16712/rr
3	Rapid response to: Pakistan attracts 700 female doctors back into practice through online service. e-Doctor Program for out-of-practice female doctors in Pakistan. Musaddique Hussain, Abdul Majeed, Imran Imran , Muhammad Fawad Rasool, Ikhlq Hussain, Abdul Ghaffar and Ximei Wu.	BMJ	2019	https://www.bmj.com/content/367/bmj.j16752/rr
4	Rapid response to: When unusual circumstances become accepted as normal. C-section in Pakistan; a need or a business. Musaddique Hussain, Abdul Majeed, Ikhlq Hussain, Imran Imran , Muhammad Fawad Rasool, Hu Hu and Ximei Wu.	BMJ	2019	https://www.bmj.com/content/367/bmj.j16990/rr

5	Rapid response to: Supporting the school climate strike with a public health “work-in”. Schoolchildren’s response against air pollutions in Pakistan. Musaddique Hussain, Abdul Majeed, Ikhlaz Hussain, Imran Imran , Muhammad Fawad Rasool, Qasim Barkat and Ximei Wu.	BMJ	2019	https://www.bmj.com/content/367/bmj.l6766/rr
6	Rapid response to: The health effects of fine particulate air pollution. Air pollution is linked to depression and suicide. Musaddique Hussain, Abdul Majeed, Ikhlaz Hussain, Imran Imran , Muhammad Fawad Rasool and Ximei Wu	BMJ	2019	https://www.bmj.com/content/367/bmj.l6609/rr-2

Book Chapters

S. No.	Title	Book Name	Page, Year & Publisher
1	Principles of Pharmaceutical Analysis in Drug Stability and Chemical Kinetics Kanwal Irshad, Muhammad Sajid Hamid Akash, Kanwal Rehman, and Imran Imran	Drug Stability and Chemical Kinetics	Pages 1-18 Springer, Singapore, 2020.
2	Stability of Pharmaceutical Products Qudsia Rehman, Muhammad Sajid Hamid Akash, Imran Imran , Kanwal Rehman	Drug Stability and Chemical Kinetics	Pages 147-154 Springer, Singapore, 2020.
3	COVID-19 Pandemic and Vaccines Hina Qaiser, Roheena Abdullah, Tehreema Iftikhar, Hammad Majeed, Imran Imran	Alternative Medicine Interventions for COVID-19	Pages 205-235 Springer Nature Switzerland AG 2021
4	Carotenoids in Liver and Lung Diseases Naheed Bano, Imran Imran	Carotenoids: Structure and Function in the Human Body	Pages 585-608 Springer Nature Switzerland AG 2021

Patent

1. Mehjabeen, Shakeel Ahmad, Sagheer Ahmed, **Imran Imran**. A process for preparation of herbal composition for fungal and leishmania treatment. *Pakistan Patent*. Application No. 739/2009, (140480) **2009/2010**.

Editorial Services

1. Academic Editor: Saudi Pharmaceutical Journal
2. Associate Editor: Phytopharmacological Communications
3. Managing Editor: Pakistan Journal of Pharmaceutical Research

Peer Review:

Performed Peer review service to many Journals including (1) Saudi Pharmaceutical Journal (2) Epilepsia Open (3) Behavioral Brain Research (4) CNS Neuroscience & Therapeutics and many other journals

Achievements after completion of PhD at B.Z.University

- **Upgradation of Animal House:**

I upgraded the animal house at Faculty of Pharmacy ,B.Z University, Multan. The animal house has currently more than 400 Sprague Dawley rats and 1200 Mice of Balb/C Strain. Recently also incorporated Black-6 mice with the collaboration of Mississippi State University, USA.

- **Upgradation and establishment of research lab:**

With the foreign collaboration (USA, Germany, Saudi Arabia and Turkey), I upgraded the research lab with the addition of new equipments such as

- (1) Whole blood Aggregometer 560 CA (Chronolog Corporation USA)
- (2) Lumi-aggregometer Model 490-2D (Chronolog Corporation USA)
- (3) Microplate reader 96/384 wells, Spectramax 340 PC384, Molecular Devices USA
- (4) Mini-centrifuge (14300 RPM), Labogene Denmark.
- (5) Isometric transducers (4 quantity) for powerlab.
- (6) PCR Lab, inaugurated by the Vice-Chancellor of the University in August 2021. The lab is fully equipped with ABI Plus one 96 well real TIME PCR system, Nanodrop lite, gradient thermal cycler and all other allied accessories.
- (7) With the collaborative inputs from Dr. Syed Muhammad Muneed Anjum, UVAS, Lahore, I established Pakistan first Electroencephalography setup for the acquisition of EEGs in rodents. My lab has currently 24 channel EEG system (24 Bioamplifiers and Data acquisition system by ADInstruments)
- (8) Transformed the Behavioural experiments with addition of many new automated systems at B. Z University, Multan.
 - San Diego Instruments Passive Avoidance system
 - Panlab IR- actimeter
 - Actitrack
 - Any-maze
 - UGO-Basile Rotarod, Peak amplifier
 - 6-HZ corneal stimulator , MES stimulator

Technical skills

I have good hands on experience and background knowledge of following techniques. I have used most of these during my bachelors, master and various research projects.

Pharmacological and analytical techniques

- Acute model of status epilepticus, microdialysis, HPLC and high resolution respirometry.
- Gas chromatography and mass spectrometry (GCMS)
- Studies on human platelet aggregation (Aggregometry)
- Platelet release reaction (Lumi-Aggregometry)
- Isolation of neutrophils and macrophage for reactive oxygen species (ROS) study
- Luminometry/ Chemiluminescence assays
- Plethysmometry (Anti-inflammatory studies)
- Biochemical assays using spectrophotometer e.g. antioxidant assays such as glutathione peroxidase, superoxide dismutase and total antioxidant status of human blood
- Spasmolytic and bronchodilator activities on isolated tissues
- Routine animal handling (rabbits, rat, mice and guinea pigs)
- Setting up the animal models of human diseases (epileptic models ,acute and chronic arthritis and diabetic models)
- Electroencephalography (EEG)

Statistics

- Epi Info software
- Graphpad prism software version 8.00 (2017)

Subject Expert in University Board of Studies

1. Subject Expert in Board of Studies in Pharmacology at Government College University, Faisalabad, Pakistan.
2. Subject Expert in Board of Studies in Pharmacology at Gomal University, Dear Ismail Khan, KPK, Pakistan.

External examiner for undergraduate and post graduate students

1. University of the Punjab, Lahore, Pakistan.
2. Islamia University Bahawalpur, Pakistan.
3. Gomal University, Dera Ismail Khan, KPK, Pakistan.
4. University of Veterinary and Animal Sciences, Lahore, Pakistan.
5. University of Sargodha, Pakistan.
6. Government College University Faisalabad.

Personals

- Father's Name : Muhammad Munzoor
- Date of Birth : 23rd May, 1979
- Birth Place : Multan, Pakistan
- Gender : Male
- Nationality : Pakistani
- Marital Status : Married, Three Children