



Dr. Shaukat Hussain Munawar

Assistant Professor | Pharmacology and Toxicology | Veterinary and Biomedical Pharmacology

52 ResearchGate records incorporated	42 Peer-reviewed journal articles	3 Book chapters	31 Supervision / committee records
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PROFESSIONAL PROFILE

Dr. Shaukat Hussain Munawar is an Assistant Professor in the Department of Pharmacology and Toxicology, Faculty of Bio-Sciences, Cholistan University of Veterinary and Animal Sciences, Bahawalpur. His academic profile spans pharmacokinetics/pharmacodynamics, PK/PD modelling, clinical pharmacology, molecular pharmacology, ethnopharmacology, toxicology, medicinal plant pharmacology, veterinary chemotherapy, antibiotic dose optimization, and experimental pharmacology. He is actively engaged in undergraduate teaching, postgraduate mentoring, student research training, and supervisory committee service.

ACADEMIC APPOINTMENT AND EDUCATION

Category	Details
Current position	Assistant Professor, Department of Pharmacology and Toxicology, Faculty of Bio-Sciences, CUVAS Bahawalpur, Pakistan
Administrative role	Officer-in-Charge / academic contributor, Department of Pharmacology and Toxicology
Ph.D.	Pharmacology, Al-Nafees Medical College, Isra University, Islamabad, Pakistan, 2016
M.Phil.	University of Agriculture, Faisalabad, Pakistan
D.V.M.	University of Agriculture, Faisalabad, Pakistan
Research areas	Pharmacokinetics, PK/PD modelling, clinical and molecular pharmacology, ethnopharmacology, toxicology, veterinary chemotherapy, medicinal plants, antibiotic dose optimization

CORE EXPERTISE

• Pharmacokinetics and pharmacodynamics	• PK/PD modelling and simulation
• Clinical pharmacology	• Molecular pharmacology
• Ethnopharmacology and medicinal plants	• General and systemic toxicology
• Antibiotic dose optimization	• Experimental and translational pharmacology

RESEARCH SUPERVISION AND SUPERVISORY COMMITTEE SERVICE

The following records were extracted and consolidated from the provided student files and the current CV. Duplicate student entries were removed and roles were retained as listed in the source records.

Student Name	Reg. No./session	Degree	Research Title	Role
Unaiza Malik	2024-2027	PhD (Pharmacology & Toxicology)	Ongoing	Supervisor
Muhammad Javed Iqbal	2024-2027	PhD (Pharmacology & Toxicology)	Ongoing	Supervisor
Zunaira Munawar	2025-2027	M.Phil (Pharmacology & Toxicology)	Ongoing	Supervisor
Musfira Azam	2025-2027	M.Phil (Pharmacology & Toxicology)	Ongoing	Supervisor
Noor Fatima	2025-2027	M.Phil (Pharmacology & Toxicology)	Ongoing	Supervisor
Ubaid Ullah	2025-2027	M.Phil (Pharmacology & Toxicology)	Ongoing	Supervisor
Arooj Sahar	2025-2027	M.Phil (Pharmacology & Toxicology)	Ongoing	Supervisor
Abdul Rehman	2019-CU-ZOOL-061	M.Phil (Pharmacology & Toxicology)	Pharmacological Evaluation of Salvia officinalis for Its Therapeutic Potential in Diabetes Management	Supervisor
QURAT-UL-AIN AHMAD	24-CUVAS-0056	M.Phil (Pharmacology & Toxicology)	COMPUTATIONAL PROFILING OF CAMELLIA SINENSIS PHYTOCHEMICALS TARGETING HER2-ASSOCIATED SIGNALING PATHWAYS IN BREAST CANCER	Supervisor
Maria Khan	20-CUVAS-0607	M.Phil (Biochemistry)	Phytochemical screening, anti-bacterial, anti-inflammatory, and anti-diabetic properties of Caralluma edulis (Edgew.) plant extracts	Member
Almas Atta	20-CUVAS-0605	M.Phil (Biochemistry)	Phytochemical analysis, wound healing and anti-diabetic potential of Dipterygium glaucum (Decne.) extracts on rabbit model	Member
Fariha Bashir	21-CUVAS-0074	M.Phil (Biochemistry)	Phytochemical screening, anti-oxidant, and nephroprotective properties of Abutilon muticum plant extracts	Member
Sania Shaheen	21-CUVAS-0075	M.Phil (Biochemistry)	Determination of phytochemicals, anti-oxidant and hepatoprotective effects of Gisekia pharnaceoides plant extracts	Member
Sania Niaz Bhatti	21-CUVAS-0077	M.Phil (Biochemistry)	Anti-tyrosinase, anti-browning and anti-oxidant potential of Abutilon muticum plant extracts	Member
Waqas Amin	20-CUVAS-0609 / 2020-CU-BIOC-0609	M.Phil (Biochemistry)	Prophylactic and therapeutic efficacy of vitamin C as an adjunct to conventional therapy in treatment of septic shock in rabbits	Member
Hira Abaid	20-CUVAS-0606 / 2020-CU-BIOC-0606	M.Phil (Biochemistry)	Anti-bacterial, anti-fungal and anti-oxidant activities of crude extracts of Sonchus asper (L.) Hill	Member
Sheza Khalid	22-CUVAS-0016	M.Phil (Biochemistry)	Anti-tyrosinase, anti-browning, and free radical scavenging activity of Acacia ampliceps plant extract	Member
Asifa Parveen	22-CUVAS-0018	M.Phil (Biochemistry)	Anti-tyrosinase, anti-browning and free radical scavenging activity of Gisekia pharnaceoides plant extract	Member
Aqib-Ur-Rehman	22-CUVAS-0019	M.Phil (Biochemistry)	Exploring phytochemical composition and anti-browning properties of Launaea nudicaulis	Member
Umaima Fatima	22-CUVAS-0010	M.Phil (Biochemistry)	Potential of ethanol extract of Acacia ampliceps in CCl4-induced liver damage	Member
Sana Munir	22-CUVAS-0021	M.Phil (Biochemistry)	Molecular docking and simulation studies of citronellal and piperine as novel anticancer therapeutics with kinase family protein 7R8Y	Member
Memona Nazeer	23-CUVAS-0022	M.Phil (Biochemistry)	Exploring covalent organic framework C4N as a drug delivery carrier for acetaminophen and thioguanine through DFT studies	Minor Member

Student Name	Reg. No./session	Degree	Research Title	Role
Tayyaba Tariq	2019-CU-BIOC-040	M.Phil (Biochemistry)	Thermodynamic and structural evaluation of carbon nitride as a drug delivery platform for naproxen and aspirin via DFT and molecular dynamics simulations	Minor Member
Samreen Fatima	2019-CU-BIOC-026	M.Phil (Biochemistry)	Potential health benefits of Crotalaria burhia plants: unveiling its antibacterial, antioxidant, and tyrosinase inhibitory effects	Minor Member
Sawaira Dastgir	23-CUVAS-0024	M.Phil (Biochemistry)	An in vivo and in silico investigation of the anti-diabetic, anti-depressant, and anti-anxiety effect of Heliotropium crispum in alloxan monohydrate-induced rats	Minor Member
Fahad Mehmood	23-CUVAS-0025	M.Phil (Biochemistry)	In silico investigation to elucidate current therapeutic targets and novel compounds against MEK1 in non-small cell lung cancer	Minor Member
Sobia Shaheen	23-CUVAS-0029	M.Phil (Biochemistry)	An integrated in vivo, in silico, and gut microbiota transcriptomics approach to investigate the antidiabetic and antianxiety potential of Gisekia pharnaceoides extracts	Minor Member
Ramisha Kamran	2019-CU-BIOC-029	M.Phil (Biochemistry)	An integrated in vivo, in silico, and gut microbiota transcriptomics approach to investigate the antidiabetic and antianxiety potential of Fagonia cretica extracts	Minor Member
Iqra Akram	23-CUVAS-0030	M.Phil (Biochemistry)	Exploring the potential of Digera arvensis methanol extract as a natural remedy in modulating anxiety, depression and stress-related behaviors	Minor Member
Ayesha Iqbal	23-CUVAS-0032	M.Phil (Biochemistry)	Investigation of the medicinal effect of Capparis decidua against diabetic, anti-stress and anti-depression activity	Minor Member
Kainat Javed	2019-CU-BIOC-041	M.Phil (Biochemistry)	An integrated in vivo, in silico, and gut microbiota transcriptomics approach to investigate the antidiabetic and antianxiety potential of Mimosa elengi extracts	Minor Member

PUBLICATIONS

ResearchGate profile review: the public ResearchGate page lists 52 publication records for Dr. Shaukat Hussain Munawar. The CV below incorporates the peer-reviewed journal articles, book chapters, conference outputs, and ResearchGate-only/duplicate records separately to avoid presenting preprints, data files, or notices as additional peer-reviewed journal articles. Impact factors are included where available in the provided CV or public publication records; unavailable values are marked N/A.

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Arif, H., Arif, N., Kanwal, N., Tahir, H., Akmal, I., Munawar, S.H., & Iqbal, M.O. Screening of therapeutic potentials of proprioceptive exercises and topical glucosamine sulfate on pain and functional disability in knee osteoarthritis. *Tropical Journal of Pharmaceutical Research*. 2023; 21(11): 2447-2452. DOI: 10.4314/tjpr.v21i11.25. (Impact Factor: 0.6)
2. Majeed, U., Shafi, A., Shahbaz, M., Khan, K.u.R., Iqbal, K.J., Akram, K., Baboo, I., Munawar, S.H., Munir, M.M., Sultan, R., Majeed, H., Cacciotti, I., Esatbeyoglu, T., & Korma, S.A. Assessment of growth inhibition of eugenol-loaded nano-emulsions against beneficial *Bifidobacterium* sp. along with resistant *Escherichia coli* using flow cytometry. *Fermentation*. 2023; 9(2): 140. DOI: 10.3390/fermentation9020140. (Impact Factor: 5.123).
3. Manzoor, A., Khan, I.A., Sadiq, M., Iqbal, M.O., & Munawar, S.H. Evaluation of cardioprotective potential of hydroalcoholic leaf extract of *Citrullus colocynthis* against doxorubicin induced oxidative stress in rats. *Pakistan Journal of Zoology*. 2023; 55(1). (Impact Factor: 0.5)
4. Afzal, A., Shah, N.H., Hussain, I., Munawar, S.H., Mumtaz, A., & Qureshi, N. Preparation of *Spilanthes acmella* based emulgel: antimicrobial study and evaluation. *Pakistan Journal of Pharmaceutical Sciences*. 2022; 35(1 Suppl): 287-295. DOI: 10.36721/PJPS.2022.35.1.SUP.287-295.1. (Impact Factor: N/A).
5. Khan, M., Manzoor, Z., Rafiq, M., Munawar, S.H., Waqas, M.Y., Majeed, H., Shah, S.Z.A., Hussain, R., Hussain, H.I., Tahir, T., Kotwica-Mojzych, K., & Mojzych, M. Phytochemical screening, anti-inflammatory, and antidiabetic activities of different extracts from *Caralluma edulis* plant. *Molecules*. 2022; 27: 5346. DOI: 10.3390/molecules27165346. (Impact Factor: 4.92).
6. Ain, Q.U., Abid, M.H., Hashim, M., Ishaq, S., Manzoor, A., Perwasha, P., Mizgan, G.E., Iqbal, M.O., Munawar, S.H., Manzoor, Z., & Khan, I.A. Anticoagulant and thrombolytic activities of leaf extract of *Mangifera indica* in smokers. *Tobacco Regulatory Science*. 2022; 8(1): 1189-1201 (Impact Factor: 2.02).
7. Iqbal, M.O., Manzoor, M., Mumtaz, A., Riaz, R., Arshad, S., Khan, I.A., Javaid, U., Manzoor, Z., Munawar, S.H., Andleeb, S., Ahmed, M.M., & Aslam, A. Evaluation of the hepatoprotective activity of hydroalcoholic extract of *Alhagi camelorum* against valproic acid-induced hepatotoxicity in rats. *Biomedicine & Pharmacotherapy*. 2022; 150: 112953. DOI: 10.1016/j.biopha.2022.112953. Impact Factor: 7.41. Note: Retraction notice published in 2026.
8. Iqbal, M.O., Ahmed, M.M., Arshad, S., Javaid, U., Khan, I.A., Manzoor, M., Andleeb, S., Riaz, R., Munawar, S.H., Manzoor, Z., & Mumtaz, A. Nephroprotective effects of *Alhagi camelorum* against cisplatin-induced nephrotoxicity in albino Wistar rats. *Molecules*. 2022; 27: 941. DOI: 10.3390/molecules27030941 (Impact Factor: 4.92).

9. Manzoor, A., Khan, I.A., Kousar, S., Iqbal, M.O., Munawar, S.H., Manzoor, Z., & Perwasha, P. Evaluation of cardioprotective potential of hydroalcohol peel extract of *Citrullus colocynthis* Linn. (Cucurbitaceae). *Tropical Journal of Pharmaceutical Research*. 2022; 21(1): 105-110. (Impact Factor: 0.6).
10. Khan, I.A., Hussain, M., Munawar, S.H., Iqbal, M.O., Arshad, S., Manzoor, A., Shah, M.A., Abbas, K., Shakeel, W., & Syed, S.K. *Jasminum sambac*: a potential candidate for drug development to cure cardiovascular ailments. *Molecules*. 2021; 26(18): 5664. DOI: 10.3390/molecules26185664. (Impact Factor: 4.92).
11. Waqas, M.Y., Javid, M.A., Nazir, M.M., Aslam, A., Bhatti, S.A., Faraz, A., Akram, Q., Niaz, N., Nisar, M.F., Ahmed, T., Asif, M., Khaliq, M.H., Munawar, S.H., Manzoor, Z., & Ali, Q. A review on emerging therapeutic interventions for coronavirus. *Journal of Pharmaceutical Research International*. 2021; 33(60B): 2393-2402. (Impact Factor: 0.036).
12. Khan, I.A., Lodhi, A.H., Munawar, S.H., Manzoor, A., Manzoor, Z., Raza, M.A., & Iqbal, M.O. Assessment of ameliorative effect of Aab-e-Shifa polyherbal formulation in experimentally-induced wound in rabbits. *Tropical Journal of Pharmaceutical Research*. 2020; 19(11): 2357-2362. (Impact Factor: 0.6).
13. Khan, I.A., Lodhi, A.H., Munawar, S.H., Manzoor, A., Manzoor, Z., Raza, M.A., & Iqbal, M.O. Formulation and evaluation of rutin-allicin gel against diabetic foot ulcer. *Latin American Journal of Pharmacy*. 2020; 39: 725-729. (Impact Factor: 0.37).
14. Khan, I.A., Lodhi, A.H., Munawar, S.H., Manzoor, A., & Raza, M.A. Formulation and evaluation of allicin and curcumin gel improves normal and diabetic ulcers in rabbits. *Latin American Journal of Pharmacy*. 2018; 37(8): 1602-1607. (Impact Factor: 0.37).
15. Rasheed, A., Naz, U., Sarwar, A., Ashraf, M.M., Manzoor, Z., Munawar, S.H., Shahid, M.A., & Sarwar, A. Historical perspective of cervical cytology: a review. *Journal of University of Medical and Dental College*. 2017; 8(4): 1-6. (Impact Factor: N/A).
16. Manzoor, Z., Munawar, S.H., Iqbal, Z., & Abid, M.A. Some pharmacokinetic data and dosage regimen of danofloxacin after intravenous administration in Nili-Ravi and Kundhi buffaloes. *Buffalo Bulletin*. 2017; 36(2): 335-347. (Impact Factor: 0.10).
17. Munawar, S.H., Iqbal, Z., & Manzoor, Z. Determination of renal handling of marbofloxacin in Lohi sheep (*Ovis aries*) following a single intravenous administration. *Iranian Journal of Veterinary Research*. 2017; 18(1): 49-57. (Impact Factor: 0.16).
18. Khan, I.A., Aziz, A., Manzoor, Z., & Munawar, S.H. Dermatological evaluation of counter irritant effect of methanol leaf extract of *Rumex vesicarius* Linn. in rabbits. *Journal of Pakistan Medical Association*. 2016; 66: 49-54. (Impact Factor: 0.48).
19. Khan, I.A., Janbaz, K.H., Aziz, A., Sattar, M., Munawar, S.H., Manzoor, Z., Raza, M.A., Fatima, G., & Hannan, A. Tracheal relaxant effect of aqueous-methanol extract of *Rumex vesicarius* L. in rabbits. *Scientific Research & Essays*. 2015; 10(4): 150-155. (Impact Factor: N/A).
20. Khan, I.A., Aziz, A., Sattar, M., Munawar, S.H., Manzoor, Z., Raza, M.A., Fatima, G., & Hannan, A. Evaluation of wound healing potential of *Rumex vesicarius* L. leaf extract and fractions in rabbit. *African Journal of Traditional, Complementary and Alternative Medicines*. 2015; 12(2): 60-64. (Impact Factor: 0.55).
21. Bachaya, A., Raza, M.A., Anjum, M.A., Khan, I.A., Aziz, A., Manzoor, Z., & Munawar, S.H. Prevalence of *Ascaridia galli* in white leghorn layers and Fayoumi-Rhode Island red crossbred flock at government poultry farm, Dina, Punjab, Pakistan. *Tropical Biomedicine*. 2015; 32(1): 1-6. (Impact Factor: 0.85).
22. Asif, M., Manzoor, Z., Farooq, M.S., Munawar, S.H., Aziz, A., & Khan, I.A. Status of oxidant, antioxidant and serum enzymes in thalassemic children receiving multiple blood transfusions. *Journal of Pakistan Medical Association*. 2015; 65(8): 838-843. (Impact Factor: 0.48).
23. Khan, I.A., Aziz, A., Munawar, S.H., Manzoor, Z., & Raza, M.A. Dermatological evaluation of counter irritant potential of human urine in rabbits. *Journal of Pakistan Medical Association*. 2015; 65(1): 9-11. (Impact Factor: 0.48).
24. Asif, M., Manzoor, Z., Shaheen, U., Kanwal, A., Rahman, Z., Hussain, Z., Munawar, S.H., Khan, I.A., Aziz, A., & Raza, M.A. Effect of multiple blood transfusions on hormonal profile in thalassemic children. *Rawal Medical Journal*. 2014; 39(3): 265-269. (Impact Factor: N/A).
25. Khan, I.A., Aziz, A., Saqib, F., Munawar, S.H., Manzoor, Z., & Raza, M.A. Pharmacological evaluation of *Rumex vesicarius* Linn leaf extract and fractions in rabbit gastrointestinal ailment. *African Journal of Pharmacy & Pharmacology*. 2014; 8(12): 333-341. (Impact Factor: N/A).
26. Khan, I.A., Aziz, A., Sarwar, H.S., Munawar, S.H., Manzoor, Z., & Anwar, H. Evaluation of antiemetic potential of aqueous bark extract of *Cinnamon loureiroi*. *Canadian Journal of Applied Sciences*. 2014; 4(1): 26-32. (Impact Factor: N/A).
27. Aziz, A., Khan, I.A., Ahmad, M.B., Munawar, S.H., Manzoor, Z., Bashir, S., & Raza, M.A. Evaluation of antipyretic activity of *Thuja occidentalis* Linn. in PGE1 and TAB-vaccine induced pyrexia models in rabbits. *International Journal of Pharma Sciences*. 2014; 4(2): 481-484. (Impact Factor: N/A).
28. Khan, I.A., Aziz, A., Munawar, S.H., Manzoor, Z., Sattar, M., & Afzal, A. Evaluation of counter irritant potential of aqueous bark extract of *Cinnamon loureiroi*. *International Journal of Pharmaceutical Research & Allied Sciences*. 2014; 3(1): 30-35. (Impact Factor: N/A).
29. Aziz, A., Hussain, M., Raza, S.M., Khan, I.A., Munawar, S.H., Manzoor, Z., & Saleem, M. In vitro anti-inflammatory activity of *Lycopus europaeus* Linn. *International Journal of Pharma Sciences*. 2014; 4(4): 689-691. (Impact Factor: N/A).
30. Asif, M., Manzoor, Z., Farooq, M.S., Kanwal, A., Shaheen, U., Munawar, S.H., Khan, I.A., & Aziz, A. Correlation between serum ferritin level and liver function tests in thalassemic patients receiving multiple blood transfusions. *International Journal of Research in Medical Sciences*. 2014; 2(3): 988-994. (Impact Factor: N/A).
31. Aziz, A., Khan, I.A., Munawar, S.H., Manzoor, Z., & Ashraf, M.M. Role of *Lycopus europaeus* methanolic extract in the enhancement of wound healing activity in experimental rats. *International Journal of Pharma Sciences*. 2014; 4(1): 434-437. (Impact Factor: N/A).
32. Shaheen, U., Manzoor, Z., Khaliq, T., Kanwal, A., Muhammad, F., Hassan, I.J., Munawar, S.H., & Mazhar-ul-Haq. Evaluation of nephroprotective effects of *Foeniculum vulgare* Mill, *Solanum nigrum* Linn and their mixture against gentamicin-induced nephrotoxicity in albino rabbits. *International Journal of Pharmaceutical Sciences Review and Research*. 2014; 25(1): 1-9. (Impact Factor: N/A).
33. Aziz, A., Khan, I.A., Hussain, M., Afzal, A., Bilal, M.A., Munawar, S.H., Manzoor, Z., & Sattar, M. Antinociceptive and anti-inflammatory activity of the extract of *Lycopus europaeus* on laboratory animals. *International Journal of Research and Development in Pharmacy and Life Sciences*. 2014; 3(2): 896-904. (Impact Factor: N/A).

34. Khan, I.A., Aziz, A., Sattar, M., Munawar, S.H., Manzoor, Z., Raza, M.A., & Fatima, G. Evaluation of antiemetic effect of *Cynodon dactylon* against all emetogenic stimuli. *Scientific Research and Essays*. 2014; 9(14): 628-633. (Impact Factor: N/A).
35. Khan, I.A., Aziz, A., Manzoor, Z., Munawar, S.H., Sarwar, H.S., Afzal, A., & Raza, M.A. Study on antipyretic activity of *Rumex vesicarius* leaves extract in albino rabbits. *Veterinary World*. 2014; 7(1): 44-48. (Impact Factor: N/A).
36. Kanwal, A., Manzoor, Z., Shaheen, U., Rahman, Z., Hassan, I.J., Sarfraz, M., Munawar, S.H., Anwar, M., & Ali, R. Comparison of health biomarkers before and after cesarean section in women. *International Journal of Biological & Medical Research*. 2013; 4(4): 3707-3713. (Impact Factor: N/A).
37. Manzoor, Z., Munawar, S.H., Abbas, R.Z., Raza, M.A., & Khan, I.A. Comparative anticoccidial activity of hydrochloric acid (HCl) and formic acid against *Eimeria tenella* in broiler chickens. *International Journal of Biological & Medical Research*. 2013; 4(4): 3714-3718. (Impact Factor: N/A).
38. Aziz, A., Khan, I.A., Perveen, A., Agha, S., Munawar, S.H., & Manzoor, Z. Evaluation of antitussive activity of *Lycopus europaeus* on cough reflex induced by different cough induced models in mice. *International Journal of Pharma Sciences*. 2013; 3(6): 381-385. (Impact Factor: N/A).
39. Khan, I.A., Aziz, A., Munawar, S.H., & Manzoor, Z. Antiemetic activity of methanolic leaf extract of *Rumex vesicarius* Linn. *International Journal of Pharmaceutical Research & Allied Sciences*. 2013; 2(4): 33-37. (Impact Factor: N/A).
40. Abbas, R.Z., Munawar, S.H., Manzoor, Z., Iqbal, Z., Khan, M.N., Saleemi, M.K., Zia, M.A., & Yousaf, A. Anticoccidial effects of acetic acid on performance and pathogenic parameters in broiler chickens challenged with *Eimeria tenella*. *Pesquisa Veterinaria Brasileira*. 2011; 31(2): 99-103 (Impact Factor: 0.51).
41. Raza, M.A., Bachaya, H.A., Yasooob, T.B., Murtaza, S., Ayaz, M.M., Munawar, S.H., Manzoor, Z., & Akbar, I.R. Prevalence of sub-clinical mastitis in buffaloes at Muzaffar Garh District of Punjab, Pakistan. *International Journal of Life Sciences*. 2011; 5: 2168-2172. (Impact Factor: N/A).
42. Abbas, R.Z., Manzoor, Z., Munawar, S.H., Iqbal, Z., Khan, M.N., Saleemi, M.K., Zia, M.A., & Yousaf, A. Anticoccidial activity of hydrochloric acid (HCl) against *Eimeria tenella* in broiler chickens. *Pesquisa Veterinaria Brasileira*. 2011; 31(5): 425-429 (Impact Factor: 0.51).

BOOK CHAPTERS

1. Manzoor, Z., Munawar, S.H., Nisar, M.F., Waqas, M.Y., & Munir, M.M. Computational Methods for COVID-19 Treatment. In: *Coronavirus Disease-19 (COVID-19): A Perspective of New Scenario*. Bentham Science Publishers, 2021; pp. 288-313. DOI: 10.2174/9781681089072121020015.
2. Munawar, S.H., Manzoor, Z., Nisar, M.F., Waqas, M.Y., & Khan, I.A. Evaluation of SARS-CoV-2 Neutralizing Antibodies in Sera Using Live Virus Neutralization Assay. In: *COVID-19, Epidemiology, Biochemistry, and Diagnostics*. Bentham Science Publishers, 2021; pp. 301-314. DOI: 10.2174/9789814998932121010014.
3. Nisar, M.F., Xu, K., Javed, A., Ali, A., Shaheen, S., Rafiq, M., Waqas, M.Y., Manzoor, Z., & Munawar, S.H. Non-coding RNAs: recent advancements in the development and biochemistry as novel anti-tumor drug molecules. In: *Current Studies in Health and Life Sciences*. ISRES Publications, 2023; pp. 240-282. ISBN: 978-625-6959-18-7.

ACCEPTED ABSTRACTS / CONFERENCE PUBLICATIONS

1. Manzoor, Z., Munawar, S., Iqbal, Z., Khan, I., Aziz, A., & Qasim, H. Pharmacokinetics, dosage regimen and in vitro plasma protein binding of danofloxacin following intravenous administration in adult buffaloes. XII International Conference on Radiopharmacy and Radiopharmaceuticals, Paris, France, 30-31 December 2014. *World Academy of Science, Engineering and Technology, International Science Index, Pharmacological and Pharmaceutical Sciences*. 2014; 2(10): 371. (Impact Factor: N/A).
2. Manzoor, Z., Munawar, S.H., & Iqbal, Z. Pharmacokinetics and pharmacokinetic/pharmacodynamic integration of danofloxacin in Lohi sheep. 19th International Congress on Infectious Diseases, Kuala Lumpur, Malaysia, 20-23 February 2020. *International Journal of Infectious Diseases*. 2021; 101(S1): 117. Impact Factor: 3.62.

RESEARCHGATE-ONLY, DUPLICATE, PREPRINT AND NOTICE RECORDS

1. Aziz, A., Khan, I.A., Afzal, A., & Munawar, S.H. Formulation and evaluation of herbal antitussive syrup of methanolic extract of *Lycopus europaeus* in mice. ResearchGate-listed full-text article record, November 2013. (Impact Factor: N/A).
2. Khan, I.A., Aziz, A., Munawar, S.H., & Manzoor, Z. Antiemetic activity of methanolic leaf extract of *Rumex vesicarius* Linn. ResearchGate data record, November 2014. (Impact Factor: N/A).
3. Manzoor, A., Khan, I.A., Iqbal, M.O., Munawar, S.H., Manzoor, Z., & Perwasha, P. Evaluation of cardioprotective potential of hydroalcohol peel extract of *Citrullus colocynthis* Linn. (Cucurbitaceae). ResearchGate preprint / early-version record, February 2022. (Impact Factor: N/A).
4. Khan, I.A., Aziz, A., Sattar, M., Munawar, S.H., Manzoor, Z., Raza, M.A., Fatima, G., & Hannan, A. Evaluation of wound healing potential of *Rumex vesicarius* L. leaf extract and fractions in rabbit. ResearchGate duplicate/full-text record of the 2015 journal article listed above. (Impact Factor: N/A - duplicate record).
5. Iqbal, M.O., Manzoor, M., Mumtaz, A., Riaz, R., Arshad, S., Khan, I.A., Javaid, U., Manzoor, Z., Munawar, S.H., Andleeb, S., Ahmed, M.M., & Aslam, A. Retraction notice to "Evaluation of the hepatoprotective activity of hydroalcoholic extract of *Alhagi camelorum* against valproic acid-induced hepatotoxicity in rats" [Biomedicine & Pharmacotherapy 150 (2022) 112953]. *Biomedicine & Pharmacotherapy*. 2026; 119265. DOI: 10.1016/j.biopha.2026.119265. (Impact Factor: N/A - notice).

REFERENCES

Available upon request.