Waqas Alam (Ph.D. Pharmaceutical Sciences)



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Sex: Male | Nationality: Pakistani.

Professional Summary

I am a highly skilled pharmacist and accomplished Ph.D. degree in Pharmaceutical sciences **(Majors: Pharmaceutical Chemistry)** with extensive expertise in drug discovery and drug synthesis. Demonstrated proficiency in the design, development, and optimization of novel therapeutic compounds, with a strong foundation in organic chemistry, medicinal chemistry, and pharmacology. Experienced in employing advanced synthetic methodologies, structure-activity relationship (SAR) analysis, and computational techniques to facilitate the discovery of potent and selective drug candidates. Adept at conducting preclinical evaluations, optimizing drug formulations, and translating laboratory research into potential clinical applications. Proven track record of publishing research findings in peer-reviewed journals, contributing to the advancement of pharmaceutical sciences. Passionate about leveraging innovative approaches to develop safe, effective, and affordable medications that address unmet medical needs.

In addition to my research work, I possess strong teaching skills, which allow me to effectively communicate complex concepts to students, researchers and colleagues. I enjoy sharing my knowledge and fostering a learning environment where students can thrive and develop their understanding of pharmacy. My teaching experience has honed my ability to explain intricate details in a simplified manner, making learning accessible and engaging. Having hands-on experience in the manufacturing of medicines give me a comprehensive understanding of quality control, regulatory compliance, and the intricate processes involved in pharmaceutical production. This practical expertise complements my academic pursuits, enabling me to bridge the gap between theory and practice. Overall, my passion for pharmacy, combined with my skills in teaching and medicine manufacturing, drives my commitment to excellence in the field.

Research Skills

- ✓ As a skilled researcher, I have specialty in the synthesis of various synthetic Drug molecules and compounds, along with their characterization followed by evaluation of their pharmacological activities (Analgesic, Anti-inflammatory, Antidiabetic, Anticancer, Neuroinflammation, Nephroprotective, Hepatoprotective and Antiulcer), using various animals' models.
- ✓ Moreover, I have specialty in maceration, extraction and isolation of bioactive compounds from natural products.
- ✓ I have specialty in in vitro enzymatic assays of various pharmacological activities.
- ✓ I am proficient in preparation and interpretation of histological slides from animal organs for microscopic examination.

- ✓ I have specialty in analyzing SWISS ADME pharmacokinetic profile of synthesized compounds.
- ✓ In Computational Skills, I have also expertise in Flow-Jo, Image-J, MS office, Molecular operating environment (MOE), GraphPad Prism, Origin Pro, Bio render, Adobe illustrator, SPSS, Chemdraw, Primer Designing NCBI, Primer bank,
- ✓ In Molecular techniques I have expertise in DNA/RNA Extraction, Purification, Quantification, Gel- electrophoresis, ELISA, SDS-PAGE analysis, Western Blot expertise, qRT- PCR.
- ✓ Additionally, I am highly skilled in using advanced analytical instruments commonly used in research, such as UV-Vis spectroscopy, High-Performance Liquid Chromatography (HPLC), Nuclear Magnetic Resonance (NMR).

PUBLICATIONS

1. Humayoon Khattak, Syed Habib Ullah, Mujahid Sher, Anwar Zeb, Mussadiq Khan, Babar Ali, Sajjad Ahmad, **Waqas Alam**, Revolutionizing Pain and Inflammation Therapy: The Dual-Action Potential of A Novel Synthetic Compound: Lucine+Propyl Amine Compound (Lu-P) In Mice, 3 (6) 2026:***International Journal of Advanced Research.***
2. Junaid Athar, Anwar Zeb, Sajjad Ahmad, Hafiz Muhammad Waqar, Gulshan Mumtaz, **Waqas Alam,** Dur-E-Najaf Khan "Evaluation of Analgesic and Anti-Inflammatory Effects of 5-Amino-3-Phenyl-1,3,5-Thiadiazine-2-Thione in Mice". 3 (5) 2026: ***International Journal of Advanced Research.***
3. Waqar Ali, Imad Ahmad, Najeeb Ur Rahman, Jawad Khan, **Waqas Alam**, Fazle Rabbi, Bilal Shams, Tabbasum Rahim, Haris Rehman & Hamid Shams "Neuroprotective Effects of Cistanoside A against Cadmium-induced Neurotoxicity via Keap1/Nrf2/NF-kB Signaling: In Vivo and In Silico approaches". (2026) 63:873, ***Molecular Neurobiology***. **[IF: 5.5].**
4. Rehman Zafar, Khadija Shahid, Wajeeha Waseem, Muhammad Fahid, Hafiz Sajid Akbar, Babar Ali, **Waqas Alam,** Aftab Ahmad Khan, "Synthesis, Spectroscopic Characterization, and Biological Evaluation of Sulfonyl Hydrazide Metal Complexes: Antileishmanial and Hemolytic Activities" 4 (1) 2026. ***Multidisciplinary Surgical Research Annals.***
5. Majid Khan, Muhammad Siddiq, Mian Muhammad Hisam, Muhammad Anas, Salman Essa, Naseem Ur Rahman, Babar Ali, and **Waqas Alam,** "Comparative Assessment of Metformin Vs Glp-1 Ras on Triad of Metabolic Syndrome among Diabetics: An Observational Study" , 5 (2026), 5637-49. ***Pakistan Journal of Medical & Cardiological Review,***
6. Abdur Rauf, **Waqas Alam**, Momin Khan, Jamelah S. Al-Otaibi, Abdul Saboor Pirzada, Haroon Khan "Exploring In Vivo Anti-Diabetic Potential of 2,3 and 2,6-dichloroindolinone: Biochemical and Histological Evidences". ***Endocrine, Metabolic & Immune Disorders - Drug Targets***, 2025, **[IF: 2.0].**

7. Salman Ahmed, **Waqas Alam**, Khalaf Alsharif, Michael Aschner, Esra Küpeli Akkol, Mamdouh Allahyani, Hayaa Alhuthali, Luciano Saso, Esra Gizem Türkcanoğlu, Haroon Khan "Unveiling the potential of marine peptides in leukemia: mechanistic insights and future horizon in peptide research". ***Turkish Journal of Medical Sciences***, 2025; 55 (5), 1063-1076. **[IF: 1.5].**

8. Rajan Logesh, **Waqas Alam**, Khalaf F Alsharif, Rosanna Filosa, Abdulrahman Theyab, Baojun Xu, Ilkay Erdogan Orhan, Haroon Khan "Mechanistic Insights into the Therapeutic Role of Curcumin in Leukemia: Molecular Targets and Clinical Implications". ***Current Pharmaceutical Biotechnology***, 2025, 1-13. **[IF: 2.6].**

9. Fazal Hadi, Haseeba Sardar, Jamelah Saleh Al-Otaibi, Abdul Saboor Pirzada, **Waqas Alam** and Haroon Khan "Comprehensive *in vivo* Antidiabetic Investigations and antioxidant potential of *Caralluma edulis* whole Plant". ***Current Research in Nutrition and Food Science,*** 2025; 13 **[IF: 1.1].**

10. Imran Ullah, Muhammad Saeed Jan, Ahmed A. Elhenawy, Rahman Zafar, **Waqas Alam**, Abdul Saboor Pirzada, Jamelah S. Al-Otaibi and Haroon Khan "Design, Synthesis, SwissADME Profile DFT Studies, in vitro and in silico Anti-diabetic Potential of Novel Amide Derivatives Based on Bis((4-amino-4-oxobutanoyl)oxy) Zinc Scaffold". ***Current Medicinal Chemistry,*** 2025. **[IF: 3.5].**

11. Kashif Ali, Ahmed A. Elhenawy, **Waqas Alam,** Khalaf F. Alsharif, Khalid J. Alzahrani, Haroon Khan , Long Chiau Ming, Rahul G. Ingle "Integrating in vitro and in silico approaches for exploring antidiabetic potential of dimethyl and thiomethyl indolinone derivatives". ***PLOS ONE,*** 2025. **[IF: 3.75].**

12. Hammad Ahmad, Ashraf Ullah Khan, **Waqas Alam,** Hany W. Darwish · Abdul Saboor Pirzada, Haroon Khan "Exploring the anti-diabetic potential of the Vigna sesquipedalis using in vitro, in vivo and computational models". ***Journal of Computer-Aided Molecular Design,*** 2025, 39:15 **[IF: 3.0].**

13. Abdur Rauf, **Waqas Alam,** Momin Khan, Hany W. Darwish, Maria Daglia, Ahmed A. Elhenawy, Haroon Khan "Exploring the In Vitro antidiabetic potential and in silico studies of 2, 3 and 2, 6-dichloroIndolinone". ***Drug Target Insights***, 2025,p 11-17. **[IF: 2.7].**

14. Usman Ali, Syed Wadood Ali Shah, Ashraf Ullah Khan, Haroon Badshah, Hany W Darwish, Michael Aschner, **Waqas Alam,** Haroon Khan, "Preclinical and in silico studies of 3-benzothioyl-1-(3-hydroxy-3-phenyl-3-propyl)-1-methylthiourea: a promising agent for depression and anxiety" ***European Journal of Pharmacology***, 2025, p 177226. **[IF: 4.2].**

15. Imad Ahmad, **Waqas Alam,** Abdul Saboor Pirzada, Hany W. Darwish, Rehman Zafar, Maria Daglia & Haroon Khan, **"**Oxindole derivatives alleviate paracetamol-induced nephrotoxicity and hepatotoxicity: biochemical, histological, and computational expressions". ***Naunyn-Schmiedeberg's Archives of Pharmacology,*** 2024. **[IF: 3.1].**

16. Rajan Logesh, **Waqas Alam**, Khalaf F Alsharif, Ashraf Albrakati, Esra K Akkol, Haroon Khan, "Role of terpenes in regulating leukemia: mechanistic and clinical updates." ***Minerva Biotechnology & Biomolecular Research***, 2024, Vol 36, Issue 3, p130. **[IF: 1.7].**

17. Pouya Goleij, Pantea Majma Sanaye, **Waqas Alam,** Junmin Zhang, Mohammad Amin Khazeei Tabari, Rosanna Filosa, Philippe Jeandet, Anna Wai San Cheang, Thomas Efferth, Haroon Khan, "Unlocking Daidzein's Healing Power: Present Applications and Future Possibilities in Phytomedicine". ***Phytomedicine.*** 2024, p:155949. **[IF: 11.3].**

18. **Waqas Alam,** Haroon Khan, Muhammad Saeed Jan, Hany W. Darwish, Maria Daglia, Ahmed A. Elhenawy, "In vitro 5-lox inhibitory and antioxidant potential of isoxazole derivatives". ***PLOS ONE,*** 2024. **[IF: 3.75].**

19. Fazal Hadi, Haseeba Sardar, **Waqas Alam**, Michael Aschner, Fuad M. Alzahrani, Ibrahim F. Halawani, Jianbo Xiao & Haroon Khan. "Vigna mungo (Linn.) Hepper: ethnobotanical, pharmacological, phytochemical, and nutritious profile". ***Phytochemistry Reviews,*** 2024. **[IF: 7.7].**

20. Yaseen Hussain, Fazlullah Khan, **Waqas Alam**, Haseeba Sardar, Muhammad Ajmal Khan, Xiaoyan Shen, Haroon Khan, "Role of Quercetin in DNA Repair: Possible Target to Combat Drug Resistance in Diabetes". ***Current Drug Targets,*** 2024. **[IF: 3.2].**

21. Haseeba Sardar, Fazal Hadi, **Waqas Alam,** Ibrahim F Halawani, Fuad M Alzahrani, R. Abdullah Saleem, Ida Cerqua, Haroon Khan, Raffaele Capasso. "Unveiling the Therapeutic and Nutritious Potential of Vigna Unguiculata in Line with its Phytochemistry" ***Heliyon,*** 2024. **[IF: 4.0].**

22. Abdul S. Pirzada, Haroon Khan. **Waqas Alam,** Hany Darwish, Ahmed Elhenawy, Aleksey E. Kuznetsov, Maria Daglia "Physicochemical properties, Pharmacokinetic studies, DFT approaches and antioxidant activity of nitro and chloro Indolinone derivatives". ***Frontiers in Chemistry*** 2024, 12, **[IF: 5.545].**

23. Samira Hassani, Fahimeh Ghanbari, Marzieh Lotfi, **Waqas Alam,** Michael Aschner, Jelena Popović-Djordjević, Seyed Hossein Shahcheraghi, Haroon Khan "How gallic acid regulates molecular signaling: role in cancer drug resistance". ***Medical Oncology Springer Nature.*** 2023, 40 (11), p: 308 **[IF: 3.4].**

24. **Waqas Alam,** Haroon Khan, Muhammad Saeed Jan, Umer Rashid, Ali Abusharha, Maria Daglia. "Synthesis, in-vitro inhibition of cyclooxygenases and in-silico studies of New Isoxazole Derivatives". ***Frontiers in Chemistry*** 2023, 11, p: 1222047 **[IF: 5.545].**

25. Salman Ahmed, **Waqas Alam,** Khalaf F. Alsharif, Michael Aschner, Fuad M. Alzahrani, Luciano Saso, Haroon Khan, "Therapeutic Potential of Marine Peptides in Malignant Melanoma". ***Environmental Research*** 2023, 115771 **[IF: 8.431].**

26. Salman Ahmed, **Waqas Alam**, Michael Aschner, Rosanna Filosa, Wai San Cheang, Philippe Jeandet, Luciano Saso, Haroon Khan, "Marine Cyanobacterial Peptides in Neuroblastoma: Search for Better Therapeutic Option". ***Cancers*** 2023 **[IF: 6.575].**

27. Mater H. Mahnashi, **Waqas Alam,** Mohammed A. Huneif, Alqahtani Abdulwahab, Mohammed Jamaan Alzahrani, Khaled S. Alshaibari, Umar Rashid, Abdul Sadiq, and Muhammad Saeed Jan,

"Exploration of Succinimide Derivative as a Multi-Target, Anti-Diabetic Agent: In Vitro and In Vivo Approaches" ***Molecules*** **2023**, *28*(4), 1589. **[IF: 4.927].**

28. Seyed Hossein Shahcheraghi, Fateme Salemi, Shlomo Small, Suliman Syed, Farzam Salari, **Waqas Alam,** Wai San Cheang, Luciano Saso, Haroon Khan. "Resveratrol regulates inflammation and improves oxidative stress via Nrf2 signaling pathway: Therapeutic and biotechnological prospects". ***Phytotherapy Research,*** **2023. [IF: 6.388].**

29. Farheen B Khan, Parul Singh, Yahya Fahed Jamous, Syed Azmal Ali, Abdullah, Shahab Uddin, Qamar Zia, Manoj Kumar Jena, Mohsina Khan, Mohammad Owais, Asrar Alam, Chih-Yang Huang, Venkatesh Venkatesh, Chrismawan Ardianto, Long Chiau Ming, **Waqas Alam,** Haroon Khan, Mohammad Akli Ayoub "Multifaceted Pharmacological Potentials of Curcumin, Genistein and Tanshinone IIA through Proteomic Approaches: An in-depth Review" ***Cancers*****.** 2022 **[IF: 6.575].**

30. **Waqas Alam,** Arif Ali, Alice Maria Costa Martins, Yaseen Hussain, Haroon Khan, "Role of Quercetin in DNA Repair and Dysregulated Metabolism. Possible Target to Combat Drug Resistance in Cancer". ***PHYTONutrients*** 2022: p 36-47.

31. Yaseen Hussain, Haroon Khan, **Waqas Alam,** Zakir Ali, Muhammad Ibrar, "Curcumin targeting oxidative mediators for therapeutic effects in diabetes and its related complications". ***PHYTONutrients*** 2022: p17-35.

32. Salman Ahmed, **Waqas Alam**, Haroon Khan, "Natural Products Targeting ATR-CHK1 Signaling Pathway as Anticancer Agent". ***Biomedicine and Pharmacotherapy***. 2022: 155, p 113797 **[IF: 7.419].**

33. Salman Ahmed, **Waqas Alam**, Philippe Jeandet, Michael Aschner, Khalaf F. Alsharif, Luciano Saso, Haroon Khan "Therapeutic Potential of Marine Peptides in Prostate Cancer: Mechanistic insights". ***Marine Drugs*****.** 2022: 20 (8), p 466 **[IF: 6.085].**

34. Yaseen Hussain, Haroon Khan, **Waqas Alam** and Abdullah "Flavonoids targeting mTOR pathway: a potential therapeutic target in breast cancer". ***Oxidative Medicine and Cellular Longevity*****.** 2022 **[IF: 7.310].**

35. Yaseen Hussain, Haroon Khan, Ghallab Alotaibi, Fazlullah Khan, **Waqas Alam,** Michael Aschner, Philippe Jeandet, Luciano Saso "How Curcumin Targets Inflammatory Mediators in Diabetes: Therapeutic Insights and possible solutions". ***Molecules.*** 2022: 27(13): p. 4058 **[IF: 4.927].**

36. Fateme Salemi, **Waqas Alam**, Maryam Sadat Hassani, Seyedeh Zohreh Hashemi, Amirhossein Azari Jafari, Seyyed Mohammad Sadeq Mirmoeeni, Mona Arbab, Seyed Mohammad Reza Mortazavizadeh "Neuroblastoma: Essential Genetic Pathways and Current Therapeutic Options". ***European Journal of Pharmacology*****.** 2022: p.175030 **[IF: 5.195].**

37. Seyed Hossein Shahcheraghi , Fateme Salemi, Henry Ashworth, Luciano Saso, Haroon Khan, **Waqas Alam**, Marzieh Lotfi "The Role of NRF2/KEAP1 Pathway in Glioblastoma: Pharmacological Implications". ***Medical Oncology Springer Nature.*** 2022: 39:91 **[IF: 3.4].**

38. Roohi Mohi-ud-din, Reyaz Hassan Mir, Taha Umair Wani, Khalaf F Alsharif, **Waqas Alam**, Ashraf Albrakati, Luciano Saso, Haroon Khan "The regulation of Endoplasmic reticulum stress in Cancer: Special focuses on luteolin patents". ***Molecules*.** 2022: 27(8): p. 2471 **[IF: 4.927].**
39. Yaseen Hussain, **Waqas Alam**, Hammad Ullah, Marco Dacrema, Maria Daglia, Haroon Khan and Carla Renata Arciola "Antimicrobial potential of curcumin: therapeutic potential and challenges to clinical applications". ***Antibiotics*.** 2022: 11 (3): p. 322. **[IF: 5.222].**
40. Yaseen Hussain, Haroon Khan, Thomas Efferth and **Waqas Alam** "Regulation of Endoplasmic Reticulum Stress by hesperetin: Focus on Antitumor and Protective Effects". ***Phytomedicine***. 2022: **[IF: 11.3].**
41. Haroon Khan, **Waqas Alam**, Khalaf .F Alsharif, Michael Aschner, Samreen Pervez and Luciano Saso "Alkaloids and Colon Cancer: Molecular Mechanism and Therapeutic Implications via Cell Cycle Arrest". ***Molecules*.** 2022: 27 (3): p. 920. **[IF: 4.927].**
42. Seyed Hossein Shahcheraghi, Fateme Salemi, Niloufar Peirovi, JamshidAyatollahi, **Waqas Alam,** –Haroon Khan, Luciano Saso "Nrf2 regulation by curcumin: molecular aspects for therapeutic prospects"**.** ***Molecules.*** 2021: 27 (1): p. 167. **[IF: 4.927].**
43. Yaseen Hussain, Jing-Hao Cui, Haroon khan, Pooyan Makvandi and **Waqas Alam** "Biomacromolecule-mediated pulmonary delivery of siRNA and anti-sense oligos: Challenges and possible solutions". ***Expert Reviews in Molecular Medicine.*** 2021: 23:e22. **[IF: 7.615].**
44. Yaseen Hussain, Haroon Khan, Imad Ahmed, Thomas Efferth, **Waqas Alam** "Nanoscale delivery of phytochemicals targeting CRISPR/Cas9 for cancer therapy". ***Phytomedicine.*** 2021: p. 153830 **[IF: 11.3].**
45. **Waqas Alam**, Haroon Khan, Yaseen Hussain, Micheal Aschner, Md. Sahab Uddin "Current Status and Future Perspectives on Therapeutic Potential of Apigenin: Focus on Metabolic-Syndrome-Dependent Organ Dysfunction". ***Antioxidants.*** 2021: 10 (10): p. 1643. **[IF: 7.675].**
46. Salman Ahmed, Muhammad Mohtasheemul Hasan, Michael Aschner, Hamed Mirzaei, **Waqas Alam,** Syed Muhammad Mukarram Shah, Haroon Khan "Therapeutic potential of marine peptides in glioblastoma: Mechanistic insights". ***Cellular Signalling***. 2021: p. 110142. **[IF: 4.850].**
47. **Waqas Alam,** Hammad Ullah, Cristina Santarcangelo, Alessandro Di Minno, Haroon Khan, Maria Daglia, Carla Renata Arciola "Micronutrient food supplements in patients with gastro-intestinal and hepatic cancers". ***International Journal of Molecular Sciences***. 2021. 22(15): p. 8014. **[IF: 6.208].**
48. **Waqas Alam**, Haroon Khan, Sajjad Ali Khan, Niaz Ali, Naveed Sharif, Rukhsana Ghafar, Sana Nazir "Evaluation of Hepatoprotective Effects of Crude Methanolic Extract of *Datura Metel* in mice". ***Cellular and Molecular Biology***. 2021. 67(1): p. 171-176. **[IF: 1.6].**
49. Sana Nazir, Haroon Khan, Sajjad Ali Khan, **Waqas Alam**, Rukhsana Ghaffar, Sayed Hurmat Ali Khan. "In Vivo Acute Toxicity, Laxative, and Antiulcer Effect of the Extract of *Dryopteris Ramosa*". ***Cellular and Molecular Biology***. 2021. 67(1): p. 9-16. **[IF: 1.6].**

50. **Waqas Alam**, Haroon Khan, Muhammad Ajmal Shah, Omar Cauli and Luciano Saso. "Kaempferol as a dietary Anti-inflammatory agent: current therapeutic standings". ***Molecules***. 2020. 25(18): p. 4073. **[IF: 4.927].**

51. **Waqas Alam**, Haroon Khan, Sajjad Ali Khan, Niaz Ali, Naveed Sharif, Rukhsana Ghafar, Sana Nazir, Maria Daglia. "Nephroprotective effects of *Datura metel* extract in gentamicin induced mice model: Biochemical and histological evidences". ***Cellular and Molecular Biology***. 2020. 66(4): p. 208-213. **[IF: 1.6].**

52. **Waqas Alam**, Haroon Khan, Sajjad Ali Khan, Sana Nazir, Esra Kupeli Akkol. "*DATURA METEL*: A Review on Chemical Constituents, traditional Uses and Pharmacological Activities". ***Current Pharmaceutical Design***. 2020. 26: p. 1-13. **[IF: 3.310].**

Book/Chapters

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1. Faizullah Khan, Waseem ul Islam, Hanif Khan, Muhammad Waqas, **Waqas Alam,** Ahmed Zeb, Haroon Khan. Uses of Nanotechnologies of Phytonutrients in Breast Cancer. **"*Phytonutrients in the Treatment of Breast Cancer*".** CRC-Press, Taylor and Francis. https://doi.org/10.1201/9781003128779.

2. Faizullah Khan, Waseem ul Islam, **Waqas Alam,** Hanif Khan, Muhammad Waqas, Haroon Khan, Phytonutrients in the Treatment of Breast Cancer: Focuses on Molecular Aspects. **"*Phytonutrients in the Treatment of Breast Cancer*"**. CRC-Press, Taylor and Francis. https://doi.org/10.1201/9781003128779.

3. **Waqas Alam,** Haroon Khan, Imad Ahmad. Acid-base and electrolyte balance regulations with phytonutrients. In "*Role of Phytonutrients in metabolic disorder".* ***Elsevier.***

4. **Waqas Alam,** Haroon Khan, Imad Ahmad. Glycosides in the treatment of GIT cancer. In "*Phytonutrients in the treatment of Gastrointestinal Cancer".* ***Bentham Sciences.***

5. **Waqas Alam,** Haroon Khan, Imad Ahmad. Flavonoids in the treatment of GIT cancer. In "*Phytonutrients in the treatment of Gastrointestinal Cancer".* ***Bentham Sciences.***

6. Abdullah, **Waqas Alam,** Yaseen Hussain, Saeed Ahmad, Faizullah khan, Arif Ali, Haroon Khan, Neuroprotective Effect of Essential Oils. *"Phytonutrients and Neurological Disorders".* ***Elsevier.***

7. **Waqas Alam,** Imad Ahmed, Mubarika Ali, Faizullah khan, Haroon Khan, Neuroprotective Effect of Terpenoids. *"Phytonutrients and Neurological Disorders".* ***Elsevier.***

8. Arif Ali, Alice Maria Costa Martins, **Waqas Alam**, Haroon Khan, Neuroprotective Effects of Alkaloids. *"Phytonutrients and Neurological Disorders".* ***Elsevier.***

9. Faizullah Khan, Waseem ul Islam, **Waqas Alam**, Muhammad Waqas, Haroon Khan, Phytonutrients and technological development in formulations. *"Phytonutrients and Neurological Disorders".* ***Elsevier.***

10. Muhammad Saeed Jan, **Waqas Alam** and Madeeha Shabnam Fundamentals Applications of Controlled Release Drug Delivery. DOI: 10.5772/intechopen.113283.

Conferences/ Workshops

- ✓ Participated in 3rd International Pharmacy Conference and Exhibition 2026, organized by University of Swabi at Baragali Campus University of Peshawar.
- ✓ Presented, Poster presentation on **"Dietary Kaempferol in the management of inflammation agent: current status and Future Prospects"** in Future Emerging Technologies in Pharmaceutical Sciences 2024, organized by Capital university of Science and Technology, Islamabad, Pakistan.
- ✓ Participated in **"Ideas competition (Poster Presentation)"**, organized by Department of Pharmacy and ORIC, Abdul Wali Khan University Mardan, Pakistan.
- ✓ Attended One Day Work shop on **"Histopathological and Histochemical Techniques"**, Organized by College of Veterinary Science and Animal Husbandry, Abdul Wali Khan University Mardan, Pakistan.
- ✓ Presented, "**Flavonoids as Acetyl cholinesterase Inhibitors: Current therapeutic standing"** in 4th International Multidisciplinary Research Conference, organized by SUIT, Peshawar, Pakistan.
- ✓ Presented orally, "***DATURA METEL*: As a Protective Agent against Gentamicin Induced Hepatotoxicity"** in International Pharmacy Conference and Exhibition 2019, organized by University of Swabi, Pakistan.

Peer Reviewer

- ✓ ***Evidence-Based Complementary and Alternative Medicine***
- ✓ ***Journal of Pharmaceutical Research International***

- ✓ ***Journal of Basic and Applied Research International***
- ✓ ***Pharmacological Research***
- ✓ ***PLOS ONE***
- ✓ ***Food Frontiers***

Membership/Registered/Fellowship

- ✓ Global Outreach-Postdoctoral member of the ***American Society for Microbiology*.**
- ✓ Research Fellow at **INTI International University Malaysia**.
- ✓ Registered Pharmacist at ***Khyber Pakhtunkhwa Pharmacy Council*** of Pakistan.
- ✓ District President of ***Young Pharmacist Community*** **(YPC)**, Pakistan.
- ✓ Executive member of **Pakistan Pharmacist Association (PPA).**
- ✓ Member of the **National Academy of Young Scientist of Pakistan (NAYS).**
- ✓ Registered scientist in **National Scientists Directory** (NSD) at **Pakistan Scientific and Technological Information Center** (PASTIC), a Subsidiary organization of **Pakistan science foundation** (PSF) under **ministry of Science and Technology** (MoST), Government of Pakistan.