

DR JAVED IQBAL

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In order to generate C-C, C-X, and S-X (X=N, S, O) linkages, I am working on a multistep synthesis of heterocyclic compounds and their hybrids using both conventional and microwave-assisted strategies. Also working on synthesis of coordination compounds. Expert in writing and interpretation of NMR (¹H-NMR, ¹³C-NMR, COSY, NOESY, HMBC), IR, EI-MS. Extremely good at SAR through docking, BSA binding, and DFT investigations. I have taken part in numerous projects with both national and international academic partners. I am a proactive multi-task team player with great interpersonal, decision-making, and communication skills. I can also work with the team to develop a project and use inventiveness to achieve a successful outcome.

Academic Qualification

PhD Chemistry

(2014-2018)

Department of Chemistry

Govt. College University, Lahore, Pakistan

(Synthesis and bioactivity studies of various 2,5-disubstituted-1,3,4-oxadiazole and 3,4,5-trisubstituted-1,2,4-triazole molecules having azinane core).

Memberships

Member of American Chemical Society (ACS)

Member of International Younger Chemists Network (IYCN)

Editorial board members In SCIREA Journal of Chemistry

Editorial board members of Medicinal Chemistry

Member of Departmental Postgraduate Research Committee (University of Lahore, Lahore)

Member of Departmental Admission Committee (University of Sahiwal)

Reviewer

Reviewer of Journal of American Chemical Society

Reviewer of American Journal of Heterocyclic Chemistry

Reviewer of Journal of Medicinal Chemistry

Reviewer of Journal of Heterocyclic Chemistry

Reviewer of Thesis of MPhil and MSc Chemistry as an external examiner (Forman Christian College and Chartered University Lahore)

Reviewer of Thesis of MPhil and MSc Chemistry as an external examiner (GC University Lahore)

Reviewer of Thesis of MPhil and MSc Chemistry as an external examiner (University of Lahore)

Academic Job Experiences

Section Head of Inorganic Chemistry Section (The University of Lahore)
Assistant Professor (Chemistry), University of Lahore, Pakistan
Research Assistant at GC University Lahore, Pakistan
Lecturer at Pak Vision College Allama Iqbal Town Lahore
Visiting Faculty in GCU Faisalabad.
Supervised 15 MPhil Research students
Supervised 20 BS Research students

Trainings

Online training on “Online education: tools and strategies” 14-16 July, 2020.

(Punjab Higher Education Commission)

Conferences

1. 2nd International Conference on Recent Advances in Chemical Sciences, Department of Chemistry GC University, Lahore & Pakistan Institute of Chemist, 24th– 26th January 2019 (*Presented threeposters*).
 2. International Chemistry Conference for the Promotion of University-Industry Linkage, Department of Chemistry GC University, Lahore & Pakistan Institute of Chemicals, 24th– 26th January 2018 (*Presented fiveposters*).
 3. 1st International Conference on Forensic Science & Justice, Department of Chemistry GC University, Lahore, 22nd– 24th October 2014.
 4. Research Symposium at University of Lahore
 5. Research Symposium, Department of Chemistry, University of Sahiwal, 22nd February 2021.
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Publications

Sr. No	Year	Publication
1	2017	Javed Iqbal , Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, Khadija Nafeesa, Samreen Gull Khan and Syed Adnan Ali Shah. Synthesis of <i>N</i> -substituted acetamide derivatives of azinane-bearing 1,3,4-oxadiazole nucleus and screening for antibacterial activity. <i>Tropical Journal of Pharmaceutical Research</i> . 2017; 16 (2): 429-437.
2	2017	Javed Iqbal , Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool and Syed Adnan Ali Shah. Synthesis, multiparametric structure assessment and biological evaluation of some new 1,3,4-oxadiazoles having piperidine nucleus. <i>Asian Journal of Chemistry</i> . 2017; 29(9); 1901-906.
3	2018	Aziz-ur-Rehman, Javed Iqbal , Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Hira Khalid, Sabina Jhaumeer Laulloo, Naeem Akhtar Virk, Shahid Rasool and Syed Adnan Ali Shah. Compounds with 1,3,4-oxadiazole and azinane appendages to evaluate enzymes inhibition applications supported by docking and BSA binding. <i>Cogent Chemistry</i> . (2018); 4; 1441597.
4	2018	Javed Iqbal , Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Hira Khalid, Sabina Jhaumeer Laulloo, Nausheen Joondan, Anisah Banu Taupass, Shahid Rasool, Syed Adnan Ali Shah. Synthesis of acetamide

derivatives of 1,2,4-triazole bearing azinane and their binding interactions with bovine serum albumin using spectroscopic techniques. Turkish Journal of Chemistry. 2018; 42; 1459–1478.

5 2018 Aziz-ur-Rehman, Noreen Ahtaz, Muhammad Athar Abbasi, Sabahat Zahara Siddiqui, Samreena Saleem, Sameen Manzoor, **Javed Iqbal**, Naeem Akhtar Virk, TahirAli Chohan, Syed Adnan Ali Shah. Synthesis of some new propanamide derivatives bearing 4-piperidiny-1,3,4-oxadiazole, and their evaluation as promising anticancer agents. Tropical Journal of Pharmaceutical Research. 2018; 17 (6); 1145-1153.

6 2018 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Umer Rashid, **Javed Iqbal**, Muhammad Saleem, Muhammad Ashraf, Wardah Shahid and Syed Adnan Ali Shah. Conventional versus microwave assisted synthesis, molecular docking and enzyme inhibitory activities of new 3,4,5-trisubstituted-1,2,4- triazole analogues. Pakistan Journal of Pharmaceutical Sciences. 2018; 31(4); 1501- 1510.

7 2018 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Asma Ashraf, Hira Javed, **Javed Iqbal**, Shafi Ullah Khan, Hira Khalid. In silico and BSA study of some new biological analogs of 1,2,4-triazole pendant with azinane through microwave and conventional synthesis. Pakistan Journal of Pharmaceutical Sciences. 2018; 31; 2645-2654.

8 2019 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Ashraf Ali, **Javed Iqbal**, Shahid Rasool, Hira Khalid, Sabina Jhaumeer Laulloo, Shafi Ullah Khan, Syed Adnan Ali Shah. Biological screening, BSA binding and docking studies of unique hybrids synthesized by conventional versus microwave assisted techniques. Tropical Journal of Pharmaceutical Research. May 2019; 18 (5): 1109- 1117.

9 2020 **Javed Iqbal**, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Hira Khalid, Sabina Jhaumeer Laulloo, Tahir Ali Chohan, Shahid Rasool and Syed Adnan Ali Shah. BSA Binding, molecular docking and *in vitro* biological screening of some new 1,2,4-triazole heterocycles bearing azinane nucleus. Pakistan Journal of Pharmaceutical Sciences. 2020; 33; 149-160.

10 2020 **Javed Iqbal**, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, Muhammad Ashraf, Ambar Iqbal, Sujhla Hamid, Tahir Ali Chohan, Hira Khalid, Sabina Jhaumeer Laulloo, Syed Adnan Ali Shah. Biological activity supported by *in silico* and BSA binding studies of synthesized 5-{1-[(4-chlorophenyl) sulfonyl] piperidin-4-yl}-2-mercapto-1,3,4-oxadiazole derivatives. Brazilian Journal of Pharmaceutical Sciences. 2020; 56: e18092.

11 2020 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, **Javed Iqbal**, Shahid Rasool, Syed Adnan Ali Shah. Microwave assisted synthesis of triazole derivatives conjugated with piperidine as new anti-enzymatic. Journal of Heterocyclic Chemistry. 2020; 57: 1387–1402.

12 2021 Jamila Javed, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra

Siddiqui, **Javed Iqbal**, Naeem Akhtar Virk, Shahid Rasool, Syed Adnan Ali Shah. Comparative conventional and microwave assisted synthesis of heterocyclic oxadiazole analogues having enzymatic inhibition potential. *Journal of Heterocyclic Chemistry*. 2021; 58: 93–110.

13 2021 **Javed Iqbal**, Curative effects of vitamin against cisplatin induced nephrotoxicity in male. *International Journal of Chemical Sciences*. 2021; 19(7): 13026.

14 2023 Hira Amjad, **Javed Iqbal**, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Shahid Rasool, Muhammad Ashraf, Syed Adnan Ali Shah, Aziz ur Rehman. *In vitro* and in silico assessment of bioactivity properties and pharmacokinetic studies of new 3,5-disubstituted-1,2,4-triazoles. *Journal of Molecular Structure*. 2023; 1275: 13472

15 2023 Naeem A. Virk, **Javed Iqbal***, Aziz-ur-Rehman, Muhammad A. Abbasi, Sabahat Z. Siddiqui, Shahid Rasool, Mehr-un-Nisa, Muhammad Amin Abid, Hira Khalid, Fatiqa Zafar and Huraiza Javaid. *In vitro* biological assessment of 1,3,4-oxadiazole sandwiched by azinane and acetamides supported by molecular docking and BSA binding studies. *Current Chemistry Letters*. 2023; 12: 353–368

16 2023 Naeem Akhtar Virk, Aziz ur Rehman, Ahmad Shuaib, **Javed Iqbal***, Shahid Rasool, Samiah H. Al-Mijalli, Muhammad Amin Abid, Mehr-un- Nisa, Syed Adnan Ali Shah, Muhammad Saadiq. Novel 1,2,4-triazoles as anti-enzymatic agents: Microwave versus conventional synthesis, characterization, docking and BSA binding studies. *Journal of Molecular Structure* 1281 (2023) 135070.

Accepted

17 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, **Javed Iqbal**, Shahid Rasool, Syed Adnan Ali Shah. Synthesis and structural analysis of promised antibacterial agents: 4-(5-sulfanyl-4-phenyl-4*H*-1,2,4-triazole-3-yl)-1-(4-methylphenylsulfonyl)piperidine derivatives. *Brazilian Journal of Pharmaceutical Sciences* (Accepted).

18 Jamila Javid, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, Asma Ashraf, **Javed Iqbal**, Hira Khalid, Muhammad Irfan, Tariq Ismail, Naeem Akhtar Virk, Umer Rashid, Muhammad Ashraf, Syed Adnan Ali Shah. Molecular docking supported enzyme inhibition study of 1,3,4-oxadiazole analogues from ethyl nipecotate. *Pakistan Journal of Pharmaceutical Sciences* (Accepted).

Submitted

19 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, **Javed Iqbal**, Mehreen Lateef, Syed Adnan Ali Shah, Shafi Ullah Khan. Biological and docking studies of 1,4-disubstituted piperidine containing 1,2,4-triazoles through comparative ultrasonic and conventional protocol. *Turkish Journal of Chemistry* (Submitted).

20 Sobia Tabassum, Awais Ahmad, Syed Abbas Raza, Saad Maroof Saeed, Akasha Aftab, Abdur Rahim, **Javed Iqbal**, Anish Khan, Maria Sadaf. Recent advancement and development of sodium Alginate base blend and composite for biomedical application; A critical review. *International Journal of Biological Macromolecules* (Submitted).

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- 21 Muhammad Sadiq, Ghias Uddin, Aziz-ur-Rehman, **Javed Iqbal**, Sajid Ali, Muhammad Abdul Haleem. Piperidinosulfonyl incorporated derivatives of trisubstituted 1,2,4-triazole: Synthesis, enzyme inhibition and *in vitro* toxicity analysis. ACS Omega. (Submitted).
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- 22 Muhammad Sadiq, Ghias Uddin, Aziz-ur-Rehman, **Javed Iqbal**, Sajid Ali, Muhammad Abdul Haleem. Acetamid derivatives of 1,2,4-triazole bearing azinane moiety: Synthesis, spectral analysis and *in vitro* haemolytic activity assessment. Royal Society Open Access. (Submitted).
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- 23 Naeem Akhtar Virk, Aziz-ur-Rehman, Muhammad Athar Abbasi, Sabahat Zahra Siddiqui, **Javed Iqbal**, Syed Adnan Ali Shah, Shafi Ullah Khan. Microwave assisted synthesis and BSA binding studies of triazole analogues as an acetylcholinesterase inhibitors. ChemBioChem. (Submitted).
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Book Chapter

- 24 Author: Dr Javed Iqbal
Title of the Chapter: Antimicrobial drug resistance and its impact with nanomedicine.
<http://editorial.elsevier.com/app/book?execution=e1s3>
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References

- 1. Prof. Dr. Aziz-ur-Rehman (PhD Supervisor)**
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