



Dr. Rehman Zafar Ph.D

Pharm-D, Rph, M-Phil (RIU), Ph.D. Pharmacy (RIU) (KCI, UK)

Rehman.zafar@amdc.edu.pk

Rehmanzafar016@gmail.com

+92 316 516 92 90

OBJECTIVE

An environment,
Where I can apply my
knowledge to the best of
my technical,
Management, decision
making and
communication skills, to
produce Satisfying,
Innovative and
successful
solutions to the
problems that
may be faced.

Research GOALS

My Goals are to align my
research with global
initiatives that can adhere
to global challenges like
health, poverty and others.

I did my under graduation from Islamabad, Pakistan. I completed my Pharmacy Graduation and Master in Pharmaceutical Chemistry from Riphah International University, Islamabad, Pakistan. I completed my PhD in 2023 and my research work was a collaborative project of **Quaid-e-Azam University, Islamabad** and **University of Malakand, Khyber Pakhtunkhwa, Pakistan**. I joined **Dr. Rahman's Research Group in King's College London** for 6 months to complete my doctoral research project. My research involved the synthesis of new chemical moieties having the enzyme inhibitory potential to work against acetylcholinesterase and butyrylcholinesterase enzyme that will help to design a future drug candidate for Alzheimer Disease (AD). I have been serving different Pharmacy institutes in Pakistan for last many years. Currently I have been working as Associate Professor/ Principal at Iqra Institute of Health Sciences Islamabad. I have **28** Scientific Publication in well reputed International HEC recognized Journals.

EDUCATION

Qualification	Year	Subjects	University /Institute/College /School
PhD	2017-2023	Pharmaceutical Chemistry	Faculty of Pharmaceutical Sciences, Riphah International University, Islamabad
PhD (IRSIP)	Nov-2020 to May 2021	Pharmaceutical Chemistry	Institute of Pharmaceutical Science King's College London, Uk
M-Phil	2014-2016	Pharmaceutical Chemistry	Riphah International University, Islamabad
Pharm-D (Doctor of Pharmacy)	2006-2011	Pharmacy	Riphah International University, Islamabad
F.SC	2003-2005	Pre-Medical	Army Public School and College, Ordinance Road, Rwp
Matric	2003	Physics, Chemistry, Biology	Saint Paul's Cambridge School, Rwp

PERSONAL INFORMATION

Father's Name: Sh. Zafar Ellahi

Date of Birth: 29th Aug 1987

Religion: Islam

Marital Status: Married

WORKING EXPERIENCE

S.No	Organization	Designation	Job Descriptions	Duration	Experience
1.	Iqra Institute of Health Sciences (IIHS), Islamabad	Associate Professor/ Principal	Administration/ Pharmaceutical Chemistry-I Pharmaceutical Analysis	05-09-2023 To Present	01 Year - 06 Months - 09 days
2.	Akhtar Saeed College of Pharmacy, Bahria Golf City, Murree Expressway Rawalpindi	Assistant Professor/Associate Professor/Vice Principal	Administration/ Pharmaceutical Chemistry-I	17-09-2021 To 04-09-2023	01 Year- 11 Months- 22 days
3.	Yusra Institute Of Pharmaceutical Sciences, Rawat, Islamabad	Lecturer/ Senior Lecturer/ Assistant Professor/Admin Incharge	Pharmaceutical Chemistry-I (Organic), Medicinal Chemistry	25-08-2014 To 20-03-2021	06 Years- 06 Month- 25 days
4.	University of Health Sciences, Lahore	Approved External Examiner/ Paper Assessor	Organic Chemistry, Pharmaceutical Analysis, Medicinal Chemistry	2015- 2021	N/A
5.	Quaid-E-Azam International Hospital, Islamabad	Hospital Pharmacist	Inventory, Stock, FIFO, Dispensing And Training Of Junior Staff	17-03-2014 To 21-07-2014	04 Months- 04 Days
6.	A-Plus Pharmacy, Rawat, Islamabad	Retail Pharmacist/ Administrator	Stock, Inventory, Expiry, Narcotic Drugs Maintenance	15-04-2011 To 03-03-2014	02 Years- 11 Months- 12 Days
7.	Holy Family Hospital, Rawalpindi	Junior Hospital Pharmacist	Dispensing, Inventory, Demands Etc.	2011	N/A
8.	Islamic International Medical Complex (IIMC)	Clinical Pharmacist	Drug-Drug Interactions, Indications, Contraindications, Dose Adjustments	14-02-2011 To 08-04-2011	01 Month- 24 Days
9.	Railway Hospital Rawalpindi	Clinical And Hospital Pharmacist	Drug-Drug Interactions, Dose Adjustments, Dispensing Etc.	2010-2011 (Course Study Project)	N/A
Total Professional Experience Till to date					13 Years 06 Months - 06 days

RESEARCH PROJECTS AND PUBLICATIONS

1. **Zafar R**, Zubair M, Ali S, Shahid K, Waseem W, Naureen H, Haider A, Jan MS, Ullah F, Sirajuddin M, Sadiq A. Zinc metal carboxylates as potential anti-Alzheimer's candidate: in vitro anticholinesterase, antioxidant and molecular docking studies. *Journal of Biomolecular Structure and Dynamics*. 2021 Feb 11;39(3):1044-54. (IF: 3.2)
2. Irfan A, Ahmad S, Hussain S, Batool F, Riaz H, **Zafar R**, Kotwica-Mojzych K, Mojzych M. Recent updates on the synthesis of bioactive quinoxaline-containing sulfonamides. *Applied Sciences*. 2021 Jun 19;11(12):5702. (IF: 2.8)
3. **Zafar R**, Naureen H, Zubair M, Shahid K, Saeed Jan M, Akhtar S, Ahmad H, Waseem W, Haider A, Ali S, Tariq M. Prospective Application of Two New Pyridine-Based Zinc (II) Amide Carboxylate in Management of Alzheimer's Disease: Synthesis, Characterization, Computational and in vitro Approaches. *Drug Design, Development and Therapy*. 2021 Jun 21:2679-94. (IF: 4.8)
4. Alshehri OM, Alshamrani S, Mahnashi MH, Alshahrani MM, Khan JA, Shah M, Alshehri MA, **Zafar R**, Zahoor M, Jan MS, Sadiq A. Phytochemical Analysis, Total Phenolic, Flavonoid Contents, and Anticancer Evaluations of Solvent Extracts and Saponins of *H. digitata*. *BioMed Research International*. 2022 Oct 4;2022. (IF: 3.1)
5. Alshehri OM, Mahnashi MH, Sadiq A, **Zafar R**, Jan MS, Ullah F, Alshehri MA, Alshamrani S, Hassan EE. Succinimide Derivatives as Antioxidant Anticholinesterases, Anti- α -Amylase, and Anti- α -Glucosidase: In Vitro and In Silico Approaches. *Evidence-Based Complementary and Alternative Medicine*. 2022 Jul 30;2022. (IF: 2.06)
6. Mahnashi MH, Alyami BA, Alqahtani YS, Alqarni AO, Jan MS, Hussain F, **Zafar R**, Rashid U, Abbas M, Tariq M, Sadiq A. Antioxidant Molecules Isolated from Edible Prostrate Knotweed: Rational Derivatization to Produce More Potent Molecules. *Oxidative medicine and cellular longevity*. 2022 Feb 27;2022. (IF: 7.31)
7. Irfan A, Faiz S, Rasul A, **Zafar R**, Zahoor AF, Kotwica-Mojzych K, Mojzych M. Exploring the Synergistic Anticancer Potential of Benzofuran–Oxadiazoles and Triazoles: Improved

- Ultrasound-and Microwave-Assisted Synthesis, Molecular Docking, Hemolytic, Thrombolytic and Anticancer Evaluation of Furan-Based Molecules. *Molecules*. 2022 Feb 2;27(3):1023. (IF: 4.6)
8. Mfarrej MF, Wang X, Fahid M, Saleem MH, Alatawi A, Ali S, Shabir G, **Zafar R**, Afzal M, Fahad S. Floating Treatment Wetlands (FTWs) is an Innovative Approach for the Remediation of Petroleum Hydrocarbons-Contaminated Water. *Journal of Plant Growth Regulation*. 2022 May 27:1-9. (IF: 3.5)
 9. **Zafar R**, Shahid K, Wilson LD, Fahid M, Sartaj M, Waseem W, Saeed Jan M, Zubair M, Irfan A, Ullah S, Sadiq A. Organotin (IV) complexes with sulphonyl hydrazide moiety. Design, synthesis, characterization, docking studies, cytotoxic and anti-leishmanial activity. *Journal of Biomolecular Structure and Dynamics*. 2021 Aug 21:1-1. (IF: 3.2)
 10. Waseem W, Anwar F, Saleem U, Ahmad B, **Zafar R**, Anwar A, Saeed Jan M, Rashid U, Sadiq A, Ismail T. Prospective Evaluation of an Amide-Based Zinc Scaffold as an Anti-Alzheimer Agent: In Vitro, In Vivo, and Computational Studies. *ACS omega*. 2022 Jul 19;7(30):26723-37. (IF: 3.7)
 11. Ghoneim AA, **Zafar R**, El-Farargy AF. Design, Synthesis, Molecular Docking and Antimicrobial Activity of Novel Thiazolo [5, 4-c] Pyridine Glycoside and Thiazolo [4, 5-d] Pyrimidin Glycoside. *Polycyclic Aromatic Compounds*. 2022 Aug 9;42(7):4599-620. (IF: 2.4)
 12. Pervaiz A, Jan MS, Hassan Shah SM, Khan A, **Zafar R**, Ansari B, Shahid M, Hussain F, Ijaz Khan M, Zeb A, Mukarram shah SM. Comparative in-vitro anti-inflammatory, anticholinesterase and antidiabetic evaluation: computational and kinetic assessment of succinimides cyano-acetate derivatives. *Journal of Biomolecular Structure and Dynamics*. 2022 Apr 25:1-4. (IF: 3.2)
 13. Al-Khaldi A, Ghoneim AA, El-sherif MA, Elbargisy R, Ghanem HB, **Zafar R**. Construction, molecular docking, antimicrobial and antioxidant activity of some novel 3-substitued indole derivatives using 3-Acetyl indole. *Journal of Saudi Chemical Society*. 2021 Nov 1;25 (11):101360. (IF: 5.8)

14. Shah, Syed Muhammad Mukarram, Syed Muhammad Hassan Shah, **Rehman Zafar**, Mohammad Ijaz Khan, Fida Hussain, Anwar Zeb, Syed Wadood Ali Shah, and Muhammad Saeed Jan. "Identification, Molecular Profiling, Docking Studies and determination of In-vivo Anti-Inflammatory Potential of Teucrium Stocksianum Bioss Fixed Oil (FO)." (2021). *(Pre-prints)*
15. **Zafar, R**, Zafar, I., Fahid, M., Zubair, M., Waseem, W., Shahid, W., Akhtar, S., Ahmad, H., Akhtar, H., 2020. False results perceptions of different urine parameters delaying one day for analysis. *Clinical practice*, 17(3), pp. 1498-1502. *(IF: 2.1)*
16. Akhtar, S., Ahmad, H., Akhtar, H., **Zafar, R**, Waseem, W. and Sherwani, M.K., 2019. Protein Kinase Inhibitory Potential and Anti-Fungal Activities of Metal Complexes of Anti-Viral Drug Ribavirin. *RADS Journal of Pharmacy and Pharmaceutical Sciences*, 7(1), pp.9-15. *(IF: 0.720)*
17. **Zafar, R**, Waseem, W., Akhtar, S., Ahmad, H., Akhtar, H. and Gul, R., 2018. Weight lifters maltreatment of anabolic steroids in twin cities of Pakistan. *RADS Journal of Pharmacy and Pharmaceutical Sciences*, 6(4), pp.217-222. *(IF: 0.720)*
18. **Zafar R**, Zafar I, Waseem W, Jan MS. A prospective clinical case study of COPD (coronary obstructive pulmonary disease) patient shifted to emergency, *Corpus Journal of Clinical Trials (CJCT)*, 2(1) 2021. *(IF: 0.05)*
19. **Zafar, Rehman**, Imran Zafar, Wajeelha Waseem, and Muhammad Saeed Jan. A Prospective Clinical Case Study of COPD (Coronary Obstructive Pulmonary Disease) Patient Shifted to Emergency "**Corpus Journal of Clinical Trials (CJCT)**". " 2021 April 16; 2(1): 2021. **(A case report)**
20. Alshehri OM, Alshamrani S, Mahnashi MH, Alshahrani MM, Khan JA, Shah M, Alshehri MA, **Zafar R**, Zahoor M, Jan MS, ul Hassan SS. Research article phytochemical analysis, total phenolic, flavonoid contents, and anticancer evaluations of solvent extracts and saponins of H. Digitata. *Angiogenesis*. 2022;4(5):10-16. *(IF: 9.2)*
21. Waseem W, **Zafar R**, Jan MS, Alomar TS, Almasoud N, Rauf A, Khattak H. Drug repurposing of FDA-approved anti-viral drugs via computational screening against novel

- 6M03 SARS-COVID-19. *Irish Journal of Medical Science* (1971-). 2023 Jul 29:1-1. (IF: 1.8)
22. Mahnashi MH, Ali S, M. Alshehri O, Almazni IA, Asiri SA, Sadiq A, **Zafar R**, Jan MS. Pharmacological evaluations of amide carboxylates as potential anti-Alzheimer agents: anti-radicals, enzyme inhibition, simulation and behavioral studies in animal models. *Journal of Biomolecular Structure and Dynamics*. 2023 Aug 22:1-20. (IF: 3.2)
 23. Kanwal M, Sarwar S, Nadeem H, **Zafar R**, Rahman KM. Synthesis of Pyrazoline derivatives, condensation of β -dicarbonyl compounds with isoniazid (INH), and their biological evaluation as multitarget anti-Alzheimer's disease agents. *Chemical Papers*. 2023 Dec 16:1-0. (IF: 2.1)
 24. Almasoudi H, Jan MS, Nahari MH, Binshaya A, Mahnashi MH, Ibrar M, **Zafar R**, Sadiq A. Phenolics phytochemistry, in-vitro, in-silico, in-vivo and mechanistic anti-inflammatory and antioxidant evaluations of *Habenaria digitata*. *Frontiers in Pharmacology*.;15:1346526. (IF: 7.8)
 25. Akbar HS, Muhammad N, Jan MS, **Zafar R**, Ali S, Sadia H, Alomar TS, AlMasoud N, Rauf A, Sharma R. Design, Synthesis, Molecular Docking, and Anti-Inflammatory Potential of Amide Coupling Carboxylate Derivatives. *ChemistrySelect*. 2024 Apr 12;9(14):e202303100. (IF: 1.9)
 26. Asiri SA, Shabnam M, **Zafar R**, Alshehri OM, Alshehri MA, Sadiq A, Mahnashi MH, Jan MS. Evaluation of *Habenaria aitchisonii* Reichb. for antioxidant, anti-inflammatory, and antinociceptive effects with in vivo and in silico approaches. *Frontiers in Chemistry*. 2024 Mar 19;12:1351827. (IF: 3.8)
 27. Ahmad I, Alam W, Pirzada AS, Darwish HW, **Zafar R**, Daglia M, Khan H. Oxindole derivatives alleviate paracetamol-induced nephrotoxicity and hepatotoxicity: biochemical, histological, and computational expressions. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2024 Nov 15:1-3. (IF: 3.1)

28. Sadiq A, Khan MA, **Zafar R**, Ullah F, Ahmad S, Ayaz M. Synthesis and Anti-Inflammatory and Analgesic Potentials of Ethyl 2-(2, 5-Dioxo-1-Phenylpyrrolidin-3-yl)-2-Methylpropanoate. **Pharmaceuticals**. 2024 Nov 12;17(11):1522. (*IF: 4.3*)
29. Ullah K, Ali S, Haider A, Naz S, Yousuf S, Munawar KS, Jan MS, **Zafar R**, Kumar R. Investigation of pivalic acid-derived organotin (IV) carboxylates: Synthesis, structural insights, interaction with biomolecules, and computational studies. **Journal of Molecular Structure**. 2025 Feb 15;1322:140444. (*IF: 4.0*)

RESEARCH SUPERVISION:

MS/M. Phil Students

1. **Wajeeha Waseem**, M. Phil Thesis Entitled, "Computational and Pharmacological Evaluation of Zinc Based Scaffold as Potential Anti-Alzheimer Agent", Riphah International University, Islamabad, Pakistan, **2022**.
2. **Kainat Fareed**, MS Thesis Entitled, "Investigation on Free Radical Scavenging and Anti-Alzheimer's Potential of Habenaria Aitchisonii Reichb, a natural herb of Pakistan", University of Wah, Wah Cantt, Pakistan, **2024**.

NATIONAL AND INTERNATIONAL CONFERENCES

CERTIFICATES OF PARTICIPATION IN NATIONAL AND INTERNATIONAL CONFERENCES

1. "Recent Advances & Challenges in Molecular Biology, Biochemistry & Biotechnology", being hosted by **Center for Advanced Drug Research**, **2016**
2. National Conference on Recent Innovations in Pharmaceutical Sciences (NCRIPS), **2015**
3. 1st International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS), **2016**
4. 2nd International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS), **2017**
5. 3rd International Chemistry conference on "RECENT TRENDS IN CHEMISTRY", hosted by **ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD, PAKISTAN**, **2017**

6. 1st International conference, ADVANCES IN DRUG DISCOVERY AND DEVELOPMENT, department of Biochemistry, AWKUM, joined organized by NARC, Islamabad, 2018

CERTIFICATES OF POSTER PRESENTATION IN NATIONAL AND INTERNATIONAL CONFERENCES

1. “Recent Advances & Challenges in Molecular Biology, Biochemistry & Biotechnology”, being hosted by Center for Advanced Drug Research, 2016
2. 1st International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS), 2016
3. 2nd International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS), 2017

CERTIFICATES OF ORAL PRESENTATION IN NATIONAL AND INTERNATIONAL CONFERENCES

1. 2nd International Conference on Recent Innovations in Pharmaceutical Sciences (ICRIPS), 2017
2. 3rd International Chemistry conference on “RECENT TRENDS IN CHEMISTRY”, hosted by ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD, PAKISTAN, 2017
3. 1st International conference, ADVANCES IN DRUG DISCOVERY AND DEVELOPMENT, department of Biochemistry, AWKUM, joined organized by NARC, Islamabad, 2018

INVITED REVIEWER/GUEST REVIEWER IN INTERNATIONAL JOURNALS:

- Advances in Research (AIR)
- International Journal of Biochemistry Research and Review (IJBRR)
- International Journal of Biological Macromolecules (IJBM)
- Asian Journal of Research in Infectious Diseases (AJRID)
- Journal of Medicinal Chemistry by Bentham Science (BMS-MC)
- Journal of Current Computer Aided Drug Design (BMS-CCADD)
- Journal of Pharmaceutical Research International (JPRI)
- Cytokine (CYTO)

COURSES:

- Hazardous Substances Awareness in King's College London, UK
- Induction in King's College London, UK
- Common Nasal Condition in King's College London, UK

CERTIFICATE OF ENGLISH LANGUAGE:

- **LanguageCert Level 1 Certificate in ESOL International (Listening, Reading, Writing) (Communicator B2) 603/1961/6: High Pass**
- **LanguageCert Level 1 Certificate in ESOL International (Speaking) (Communicator B2) 603/1962/8: High Pass**

HOBBIES:

- Travelling
- Long Drives
- Listening Soft Music

INTERPERSONAL SKILLS

- Positive Attitude to work
- Communication Skills
- Team Player
- Critical Thinking and Problem Solving
- Time Management Skills
- Coping with Pressure
- Flexibility
- Ability to Accept Challenges and Constructive Feedback
- Strong Work Ethics

REFERENCES

Will be provided as required

