Samiullah

EMPLOYMENT

Department of Chemistry, University of Balochistan Chairman, Department of Chemistry Professor in Chemistry Associate Professor of Chemistry Assistant Professor of Chemistry Undergraduate Coordinator	Quetta, Pakistan 2024-Present 2023-Present 2018-2023 2012-2018 2017
Department of Chemistry, University of Copenhagen Post Doc Research Fellow	CPH, Denmark March - Nov 2023
Visiting Faculty, Sardar Bahadur Khan Women University, Quetta Teaching and Research Supervision	2014-2017
EDUCATION	
	G
University of Warwick PhD in Chemistry (Organic Synthesis)	Coventry, UK 2008-2012
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RESEARCH INTERESTS

Synthesis of small molecules, MBH adducts their glycosylated, piperidine and piperzine derivatives of MBH adducts, hydroxamic acids, acylthiourea, transition metal complexes of hydroxamic acids and acylthiourea, micro RNAs.

PUBLICATION

- 1. Baqi, A., **Samiullah**, Khan, J., Sadiq, A., Khan, Y., et al. (2025). Computational identification and experimental validation of novel *Saccharum officinarum* microRNAs along with their targets through RT-PCR approach. *Plant Signaling & Behavior*, 20(1), 2452334.
- 2. Baqi, A., Samiullah, Khan, G. M., Asadullah, Khan, N., & Attiq-Ur-Rehman. (2025). *In silico* based profiling and characterization of functional microRNAs and their crucial targets in *Saccharum officinarum*. *Indian Journal of Biochemistry and Biophysics* (IJBB), 62(2), 154-160.
- 3. Hakeem, A., **Samiullah.**, Khan, N., & Khan, G. M. (2025). Determination of Heavy Metals in Domestic and Broiler Chickens Meat in Quetta City. *Portugaliae Electrochimica Acta*, *43*, 355–363
- 4. Baqi, A., **Samiullah**., Ayub, M., Saleem, M. Z., Khan, G. M., & Asadullah. (2024). Genome-wide profiling of novel conserved *Zea mays* microRNAs along with their key biological, molecular and cellular targets and validation using an RT-PCR platform. *Karbala International Journal of Modern Science*, 10(1), 4.

- 5. Baqi, A., Samiullah., Saleem, M. Z., Ayub, M., & Saeed, S. (2024). Identification and annotation of the 21 novel sugarcane (*Saccharum officinarum*) microRNA clusters and their significant biological, molecular and cellular targets. *Tropical Plant Biology*, 1-17.
- 6. Baqi, A., **Samiullah**., Saleem, M. Z., Ayub, M., & Habibullah. (2024). Experimental validation and characterization of Sugarcane Genome-Encoded MicroRNAs and their targets using PCR-based expressional methodology. *Journal of Agricultural Science and Technology*, 26(5), 1057-1071.
- 7. Baqi, A., Samiullah, Khan, G. M., Asadullah, Khan, N., & Ahmed, A. (2024). Identification and characterization of functional microRNAs and their significant targets in maize plants. *Journal of Plant Biochemistry and Biotechnology*, 33(4), 700-704.
- 8. Aslam, S., **Samiullah**., Ullah, H., Rehman, A. U., Khan, N., Baqi, A., & Khan, Y. (2024). Synthesis, in vitro anti-urease, In-silico molecular docking study and ADMET predictions of piperidine and piperazine Morita-Baylis-Hillman Adducts (MBHAs). *Zeitschrift für Naturforschung C*, (0).
- 9. Khan, R. W., Kakar, A. U. R., Khan, N., Hakeem, A., & **Samiullah**. (2024). Determination of selected metal concentrations in potatoes with different brands of potato chips in Quetta. *South African Journal of Chemistry*, 78, 158-161.
- 10. Jaffar, K. U. N., Kakar, A. U. R., Asghar, M., Samiullah., Khan, N., Hakeem, A., & Afsar, S. (2024). Flow injection chemiluminescence determination of copper oxychloride (fungicide) in freshwater and fruits samples employing 1, 10-phenanthroline—H2O2 reaction system. *Journal of Liquid Chromatography & Related Technologies*, 1-11.
- 11. Hakeem, A., **Samiullah.**, Khan, N., et al. (2024). Flow injection determination of paracetamol in pharmaceutical formulations using Luminol–diperiodatoargentate (III) system with chemiluminescence detection. *Journal of Population Therapeutics & Clinical Pharmacology*, 31(5), 1578–1590.
- 12. Jaffar, K. U. N., Kakar, A. U. R., Asghar, M., Samiullah., & Khan, N. (2024). Flow injection chemiluminescence determination of lambda-cyhalothrin and clodinafop-propargyl in freshwater samples. *International Journal of Environmental Analytical Chemistry*, 1-21.
- 13. Khan, F., **Samiullah.**, Khan, N., et al. (2024). Heavy metals assessment in camel meat, beef and mutton through atomic absorption spectrophotometer in Quetta. *Pure and Applied Biology*, 14(2), 327-331.
- 14. Mustafa, S., Kakar, A. U. R., Malik, Y., Khan, N., & Samiullah. (2024). Tolerance pattern against the heavy metals and pesticides in Escherichia coli isolated from water samples. *Brazilian Journal of Microbiology*, 1-6.
- 15. Ghaffar, A., Khan, N., Ali, I., **Samiullah**., Shah, W. A., & Khan, M. J. (2024). Exploring the hidden world of muskmelon miRNAs: experimental hunts of computational predicted miRNAs and their protein targets. *Genetic Resources and Crop Evolution*, 1-15.
- Ghaffar, A., Khan, N., Saleem, M. Z., Ali, I., Rehman, A. U., Shah, W. A., & Samiullah. (2024).
 Identification and Characterization of Evolutionary Conserved Muskmelon Non-coding miRNAs and Their Target Proteins. *Biochemical Genetics*, 1-22.
- 17. Ghaffar, A., Khan, N., Ali, I., **Samiullah**., & Shah, W. A. (2024). Bioassays, characterization and electronic transitions studies of organtin (IV) dithiocarbamates of p-Bromo-N methylbenzylamine dithiocarbamates. *Discover Chemistry*, *I*(1), 1-8.
- 18. Baqi, A., **Samiullah**, Rehman, W., Bibi, I., Menaa, F., Khan, Y., & Sattar, A. (2023). Identification and validation of functional miRNAs and their main targets in *Sorghum bicolor*. *Molecular Biotechnology*, 1-15.
- 19. Nisa, K. U., Kakar, A. U. R., Asghar, M., **Samiullah**, Naqeebullah, Niamatullah, & Shah, A. (2023). Flow injection chemiluminescence determination of acetochlor and cartap-HCl in freshwater samples using an acidic KMnO4–rhodamine-B reaction system. *Luminescence*, *38*(5), 647-661.

- 20. Ghaffar, A., Baqi, A., Ali, I., **Samiullah**., & Shah, W. A. (2023). In-Silico prediction and profiling of novel non-coding miRNAs and their target proteins in muskmelon (*Cucumis melo*). *Pakistan Journal of Agricultural Sciences*, 60(2).
- 21. Haleem, A., Ullah, H., **Samiullah**, Akbar, A., Ahmad, N., Ellahi, M., & Nawaz, M. (2022). Synthesis and biological activity of morita baylis hillman adducts and their oximes. *Pharmaceutical Chemistry Journal*, *56*(2), 185-190.
- 22. Gul, Z., Akbar, A., Ali, I., Muhammad, J., **Samiullah**., Rehman, Z. U., Bano, A., & Rabaan, A. A. (2022). High throughput screening for bioactive components of *Berberis Baluchistanica ahrendt* root and their functional potential assessment. *BioMed Research International*, 2022(1), 1746116.
- 23. Achakzai, R., Khan, N., **Samiullah**., & Tareen, A. H. (2022). Determination of heavy metals in the dates (P. dactylifera L.) of Balochistan (Panjgoor and Turbat). *Baghdad Journal of Biochemistry and Applied Biological Sciences*, 3(03), 220-228.
- 24. Rashid, N., Shafee, M., Iqbal, S., Samad, A., Khan, S. A., Hasni, M. **Samiullah**., & Akbar, A. (2021). Enterotoxigenic methicillin resistant Staphylococcus aureus contamination in salted fish from Gwadar Balochistan. *Brazilian Journal of Biology*, 83, e247701.
- 25. Ayaz, M., Kasi, J. K., Kasi, A. K., Bokhari, M., Sohail, M., & Samiullah. (2021). Natural Plant Trifolium Pratense, Mirabilis Jalapa and Bassia Scoparia Extract Used as Photosensitizer in Dye-Sensitized Solar Cell. *Iranian Journal of Chemistry and Chemical Engineering*, 40(3), 872-880.
- 26. Qahir, A., Khan, N., Hakeem, A., **Samiullah**., & Kamal, R. (2021). The antioxidant, antimicrobial, and clinical effects with elemental contents of pomegranate (*Punica granatum*) peel extracts: A review. *Baghdad Journal of Biochemistry and Applied Biological Sciences*, 2(01), 21-28.
- 27. Bibi, M., **Samiullah**., Khan, S., Khan, N., Tareen, A. H., Bibi, S., & Taj, H. (2021). Determination of essential and non-essential elements in *Xylanthemum macropodum* of Balochistan, Pakistan. *Baghdad Journal of Biochemistry and Applied Biological Sciences*, 2(02), 95-105.
- 28. Hakeem, A., **Samiullah**., Khan, N., & Khan, S. (2020). A Comparative Study of the Heavy Metals in the Meat of Chickens in Different Cities of Pakistan. A Review. *Al-Nahrain Journal of Science*, 23(2), 75-79.
- 29. Khan, M., Khan, N., Ghazal, K., Shoaib, S., **Samiullah**, Ali, I., & Rehman, A. U. (2020). Synthesis, characterization, crystal structure, in-vitro cytotoxicity, antibacterial, and antifungal activities of nickel (II) and cobalt (III) complexes with acylthioureas. *Journal of Coordination Chemistry*, 73(12), 1790-1805.
- 30. Tareen, A. H., Mandokhail, A., **Samiullah**., Khan, N., Tariq, S., & Kakar, N. (2020). Determination of Antioxidants by Four Different Methods in Medicinally Important Plant *Ebenus Stellata* of Balochistan. *Al-Nahrain Journal of Science*, 23(4), 13-18.
- 31. Ghazal, K., Shoaib, S., Khan, M., **Samiullah**., Rauf, M. K., Khan, N., & Ali, I. (2019). Synthesis, characterization, X-ray diffraction study, in-vitro cytotoxicity, antibacterial and antifungal activities of nickel (II) and copper (II) complexes with acyl thiourea ligand. *Journal of Molecular Structure*, 1177, 124-130.
- 32. Akbar, A., Sadiq, M. B., Ali, I., Samiullah., Anwar, M., Muhammad, N., Muhammad, J., & Anal, A. K. (2019). Lactococcus lactis subsp. lactis isolated from fermented milk products and its antimicrobial potential. *CyTA-Journal of Food*, *17*(1), 214-220.
- 33. Behlil, F., **Samiullah.**, Akbar, A., Tareen, R. B., Achakazai, A. K. K., Ali, I., & Rehman, A. (2019). Phytochemical screening and antioxidant activity determination of some medicinally important plants of Balochistan. *Pakistan Journal of Botany*, *51*(2), 1-8.
- 34. Leghari, S. K., Akbar, A., Qasim, **Samiullah**., Asrar, M., Rohail, H., & Ali, I. (2019). Estimating anticipated performance index and air pollution tolerance index of some trees and ornamental plant species for the construction of green belts. *Pol J Environ Stud*, 28, 1759-1769.

- 35. Akbar, A., Ali, I., **Samiullah**, N. U., Khan, S. A., Rehman, Z. I. A. U. R., & Rehman, S. U. (2019). Functional, antioxidant, antimicrobial potential and food safety applications of curcuma longa and cuminum cyminum. *Pakistan Journal of Botany*, 51(3), 1129-1135.
- 36. Ghaffar, A., Khan, N., **Samiullah**,, I. A., Akbar, A., Attiq-ur-Rehman, W. A. S., & Abdul Baqi, S. (2019). Biological and electronic transition studies of the previously reported organotin (IV) dithiocarbamates of p-Fluoro-Nmethylbenzylaminedithiocarbamate. *Pure and Applied Biology* (*PAB*), 8(1), 672-679.
- 37. Muhammad, A., Attiq-Ur-Rehman, N. K., **Samiullah**., Asghar, M., Baqi, A., & Mohammad Hussain, H. (2019). 79. Spectrophotometric determination of phenolic antioxidants in four varieties of apples (*Pyrus malus*) from Balochistan, Pakistan. *Pure and Applied Biology (PAB)*, 8(1), 768-779.
- 38. Ghaffar, A., Khan, N., **Samiullah**, I. A., Akbar, A., Attiq-ur-Rehman, W. A. S., & Abdul Baqi, S. (2019). 67. Biological and electronic transition studies of the previously reported organotin (IV) dithiocarbamates of p-Fluoro-Nmethylbenzylaminedithiocarbamate. *Pure and Applied Biology* (*PAB*), 8(1), 672-679.
- 39. Irshad, A., Khan, N., **Samiullah**., Farina, Y., Baloch, N., Ali, A., Mun, L. K., & Murtaza, G. (2018). Synthesis, spectroscopic characterization, X-ray diffraction studies and in-vitro antibacterial activities of diorganotin (IV) derivatives with N-methyl-4-bromobenzohydroxamic acid. *Inorganica Chimica Acta*, 469, 280-287.
- 40. Khan, N., Waseem, N. A., **Samiullah**., & Rehman, F. U. (2018). The Applications of Flow Injection Analysis Coupled with LuminolChemiluminescence in Basic Medium. *Journal of the Chemical Society of Pakistan*, 40(6), 1103-1103.
- 41. Asghar, M., Yaqoob, M., Samiullah., Ali, S., Munawar, N., & Nabi, A. (2018). Development of flow injection spectrophotometric method for 1-napthylthiourea using sodium nitrite and sulphanilic acid diazotization reaction. *Journal of Spectroscopy*, 2018(1), 3920289.
- 42. Bano, A., Hussain, J., Akbar, A., Mehmood, K., Anwar, M., Hasni, M., **Samiullah**., & Ali, I. (2018). Biosorption of heavy metals by obligate halophilic fungi. *Chemosphere*, 199, 218-222.
- 43. Alam, F., Aslam, S., Tareen, R. B., Khan, A., Khan, N., Akber, A., **Samiullah**., & Khan, S. S. (2017). Determination of Chemical Composition, Total Phenolic Content and Antioxidant Activity of Xylanthemum Macropodum. *Journal of the Chemical Society of Pakistan*, 39(1).
- 44. Khan Achakzai, A. K., Yaqoob, M., **Samiullah**., & Khan Barozai, M. Y. (2017). Chemical Structure, Occurrence and Health Hazard Status of Ochratoxin A (OTA) in Cereal Food and Feeds of Pakistan: A Review. *Journal of the Chemical Society of Pakistan*, 39(5).
- 45. Ali, I., Akbar, A., Aslam, M., Samiullah., Anwar, M., Punnapayak, H., & Rakshit, S. K. (2016). Comparative study of physical factors and microbial diversity of four man-made extreme ecosystems. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 86, 767-778.
- Alam, M., Khan, A., Wadood, A., Bashir, S., Aman, A., Farooq, U., Samiullah., & Al-Harrasi, A. (2019). Bioassay-guided isolation of urease inhibitors from Ferula narthex Bioss. South African Journal of Botany, 120, 247-252.
- 47. Turner, P. A., Geden, J. V., White, A., **Samiullah**., Clarkson, G. J., & Shipman, M. (2015). New strategies for the synthesis and functionalization of tetrahydroxanthones. *Tetrahedron*, 71(50), 9433-9438.
- 48. Turner, P. A., Whatmore, J. L., & Shipman, M. (2013). Stereocontrolled synthesis of a d-amicetose functionalised tetrahydroxanthone related to kigamicin A. *Tetrahedron Letters*, *54*(48), 6538-6540.

WORKING PAPERS

- 1 Studies for the synthesis and biological potential evaluation of advanced intermediates from Morita-Baylis-Hillman (MBH) adducts, funded by the Higher Education Commission Aghaze Haqooqe Balochistan package.
- 2 Identification and analysis of microRNAs and their targets in important members of Poaceae, funds from the University of Balochistan Research Fund (UBRF) will be used here.
- 3 Heavy metal determination in the fruits available at Quetta City funded by Higher Education Commission through Aghaze Haqooqe Balochistan Package.

GRANTS	
University of Balochistan, Quetta, Pakistan Topic: Phytchemical investigation of Plants of Balochistan Role: Principal Investigator; Amount: Rs. 382000	2014-2018
Higher Education Commission of Pakistan Topic: Mangroves of Balochistan Role: Co-Investigator; Amount Rs 2100000	2014-2016
The Prime Minister's Research Scheme, Pakistan Topic: Synthesis of acylthiourea ligands and transition metal complexes Role: Principal Investigator; (02 Year MPhil funding for 05 students)	2015-2016
Aghaze haqooqe Balochistan Project, Pakistan Topic: Phytochemical screening of some medicinal plants of Balochistan, synthes metal complexes and evaluation of their biological activities. Role: Principal Investigator; (Full funding for one PhD student for 04 years)	sis of transition 2014-2018
Aghaze haqooqe Balochistan Project, Pakistan Topic: MBH adducts and their derivatives Role: Principal Investigator; (Full funding for one PhD student for 04 years)	2019-2024
AWARDS	
Faculty Development Scholarship University of Balochistan	2008-2012
Gold Medalist- Student of the Year Department of Chemistry, University of Balochistan	2004-2005
Teacher of the Year Award	

2013

PRESENTATION AND TALK

Chief Minister of the Balochistan

- 2023 Danish Chemical Society, Department of Chemistry, University of Copenhagen, Denmark
- 2018 4th Invention to innovation summit Balochistan, University of Balochistan, Pakistan
- 2018 1st International Conference on Material Science and Nanotechnology, University of Balochistan, Pakistan
- 2016 3rd International Conference on Green Economics, Iran
- 2016 6th International conference on Green system and Innovation, Higher Education Commission, Pakistan
- 2010 Loughborough synthesis, Loughborough, U.K.
- 2010 Leicester synthesis Meeting, Leicester, UK
- 2010 Post Graduate Symposium, University of Warwick, UK
- Birmingham Meeting, Birmingham, UK 2009
- 2009 Bristol Synthesis, Bristol, UK
- 2008 Bristol Synthesis, Bristol, UK

COURSES DESIGN AND EVALUATIONS

- 2022 MPhil and PhD courses evaluated and designed in the Department of Chemistry at the University of Balochistan, Pakistan.
- M.Sc Chemistry and BS Chemistry courses designed at the University of Balochistan, 2019 Pakistan.
- 2015 M.Sc Chemistry course evaluated for SBK, Women University, Pakistan.
- 2014 BS Chemistry course evaluated for SBK, Women University, Pakistan.
- 2018 IX, X, XI, and XII classes Chemistry text book evaluation, Balochistan Book Board, Pakistan

PROFESSIONAL MEMBERSHIP

- Member of the academic council, University of Balochistan, Quetta. 2024
- Member of the academic council, University of Balochistan, Quetta. 2022
- Member of the academic council, University of Balochistan, Quetta. 2021
- Member of the academic council, University of Balochistan, Quetta. 2019
- 2018 Member of the academic council, University of Balochistan, Quetta.
- Member of the academic council, University of Balochistan, Quetta. 2017

ADMINISTRATIVE ROLE

- 2024 Chairman Department of Chemistry, University of Balochistan, Quetta.
- 2024 Chairman of the Board of studies, Department of Chemistry, University of Balochistan, Ouetta.
- 2022 Member of the Board of studies, Department of Chemistry, University of Balochistan,
- 2019 Member of the academic council, University of Balochistan, Quetta.
- 2018 Member of the syndicate, University of Balochistan, Quetta.
- Member of of the Board of studies, Sardar Bahadur Khan, Women University, Quetta. 2017

TEACHING

University of Turbat, KechMPhil thesis evaluation and viva voce exams

University of Balochistan, Quetta PhD, MPhil, Masters and UG Courses (A separate decument of the tought courses over the years is attached)	2012-Present
(A separate document of the taught courses over the years is attached)	
Sardar Bahadur Khan Women University, Quetta (Visiting Faculty)	
Advanced Stereochemistry (MPhil)	2014
Chromatography I (MPhil)	2015
Molecular Spectroscopy (MPhil)	2016
Chromatography II (MPhil)	2017
RESEARCH SUPERVISION	
PhD University of Balochistan, Pakistan	
Farida Behlil (Phytochemistry and hydorxamic acid complexes) (Graduated)	2014
Samina Aslam (MBH Adducts and their derivatives) (Thesis write up stage)	2019
Abdul Baqi (micro RNAs) (Graduated)	2019
MPhil University of Balochistan, Quetta, Pakistan.	2012 progent
I have supervised over 10 MPhil students in conducting research on the	2012-present
extraction and antioxidant properties of various medicinal plant extracts from Balochistan.	
extraction and antioxidant properties of various medicinal plant extracts from Ba	ilociiistaii.
MPhil SBK Women University, Quetta, Pakistan.	2014-2018
I have produced more than 05 MPhil students by research working on the	20112010
synthesis of acylthiourea ligands and their transition metal complexes at SBK We	omen University
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ENTERDALAT EN AMBRIED	
EXTERNAL EXAMINER	
Sardar Bahadur Khan Women, University	
MPhil, MChem and BS thesis evaluation and viva voce exams	2017-2022

2017-present