



Curriculum Vitae

Name	Muhammad Naveed Umar
Permanent Address	Mohallah Karkani, Village PO and Tehsil Katlang District Mardan, Khyber Pakhtunkhwa, Pakistan.
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Nationality	Pakistan
Gender	Male
CNIC	16101-1259000-3
Passport Number	AH2220003
Employment experience	QAU Islamabad Mphil R.A From 01.09.2003 to 25.08.2005 QAU Islamabad PhD. R.A From 02.01.2006 to 02-05-2006 University of Malakand Lecturer in Pharmacy. From 10.03.2006 to 10.03.2007 Jacobs University Germany PhD Scholar From 16.03.2007 to 16.08.2010 University of Malakand Assistant Professor Contract From 23.08.2010 to 29.06.2011 University of Malakand Assistant Professor TTS From 30.06.2011 to 29.06.2017 University of Malakand Associate Professor Tenured From 30.06.2017 to Date
Work Title	Associate Professor Tenured Department of Chemistry, University of Malakand.
Organization/Institution	
Personal information	

Education and training	
MSc	Organic Chemistry Pakistan (2003)
M.Phil	Organic Chemistry Pakistan (2005)
Ph.D	Organic Synthetic Chemistry Jacobs University Bremen Germany (2010)
Mphil and Phd Students.	Currently three PhD and 10 Mphil students are under my supervision
M.Phil Dissertation	Synthesis of 8-hydroxy-6-methoxy-3-pentylisocoumarin from Sesquicillium Candelabrum & Synthesis of some Unnaturally occurring isocoumarins.
PhD Dissertation	Synthesis of Novel Picolyamine Template Catalysts and its application in Asymmetric Aldol Reactions.
Projects	<ul style="list-style-type: none"> □ Study the Effect of Additives on Asymmetric Reductive Amination. □ Study the Effect of Different Lewis Acids on Asymmetric Reductive Amination. □ Synthesis of New Thiourea Organocatalysts and Testing their Application. □ Synthesis of New Formamide Organocatalysts and Testing their Application. □ Synthesis of Novel Catalysts for Enantioselective Reductive Amination. □ Synthesis of Novel Chiral Amines on Multi-gram Scale. □ Synthesis of Diketones as key intermediates for Chiral Diamine. □ Synthesis of Chiral amine and its application as catalysts in drugs synthesis.
Funded Projects	<p>Highly efficient and recoverable catalyst adsorbed on zirconia for carbon-carbon bond connecting reactions Funded by HEC Completed</p> <p>The efficeint and facile synthesis of asymeric Aldole adducts catalyzed by bifunctional diamine organocatlysts Funded by PSF In Progress</p>
Laboratory Skills	<ul style="list-style-type: none"> □ The use of different chromatographic techniques (GC, HPLC, GC-MS) for natural products isolation and purification. □ The use of NMR for identification for different organic compounds. □ The use of different animal models in determination of pharmacological activity of natural products. □ Organic synthesis skills (handling of air sensitive reaction, high and low temperature reactions, micro and multi-gram scale reactions and multistep synthesis). □ Inorganic synthesis skills. □ The use of different purification techniques on small and large scale reactions (Crystallization, Kugelrohr distillation and chromatography).

Workshop on combinatorial chemistry in May 2004 by Prof. Dr Rademann of Berlin university Germany.
 5th International and 15th National Chemistry Conference 24-27 November 2004 in QAU Islamabad
 Awareness and Training Workshop on "Self-Assessment Procedures" May 18 -20, 2011.
 Two Days Training Workshop on Quality Criteria Held at University of Malakand
 July 27-28, 2011.
 National Symposium on Kinetics and Catalysis held at Baragali Summer Campus University of Peshawar
 26-28 September, 2011.
 Workshop on Innovation in Chemical Education June 4-7, 2012. HEC, University of Malakand.
 5th Invention to Innovation Summit 3-4 November 2015, University of Hurripur.
 27th National and 15th International Chemistry Conference August 22-25, 2016. Jointly Sponsored by HEC,
 Chemical Society of Pakistan and University of Malakand.
 Invention to Innovation Summit 2016, November 16-17 UET Peshawar.
 International Entomological Congress December 16-18 2016, University of Agriculture Faisal Abad.
 Work shop on "Causes and Consequences of HIV/AIDS in Rural and Urban Communities in Pakistan"
 April 5-6, 2017, Organized by Department of Sociology and English jointly, University of Malakand.
 IX International Conference in Chemistry Kyiv-Toulouse (ICKT-9) Taras Shevchenko National University
 Kyiv Ukraine 5-9 June 2017. Jointly sponsored with Toulouse University France.
 International Conference on Sustainable Technologies September 12-13 2017 Islamabad Organized by UET
 Peshawar
 1st national Conference on "Emerging Trends in Pharmaceutical Sciences" October 09-11,2017 Organized
 By Department of Pharmacy, University of Malakand.
 2nd International Symposium for Chang, an Young Scholars 15-19 November Chang, an University
 Xian, Shanxi China. Invited key note speaker
 The second Shaanxi Province Silk Road Forum of Young Scholars 16 November 2017, Hosted by Shaanxi
 Provincial Party Committee of the CPC, The people Govt of Shaaanxi Province China.
 3rd International Chemistry Conference on "Recent Trends in Chemistry" November 23-24, 2017 Organized
 Department of Chemistry, Allama Iqbal Open University Islamabad Pakistan.
 One Day Training on "Basics of Clinical Practice in Psychology, 22- December 2017 Organized by Department
 of Psychology, University of Malakand.
 National conference on Plants from Food to phytomedicines 3-4 May 2018. Jointly organized by University of
 Malakand and University of Sargodha.
 29th National and 17th International Chemistry conference, 06-08 September 2018. Institute of chemical
 Sciences, University of Peshawar.
 2- Days Work shop on" QUANTITATIVE DATA ANALYSIS THROUGH SPSS IN SOCIAL MANAGEMENT
 AND BIOLOGICAL SCIENCES. 10-11 September 2018. Organized by University of Malakand.
 1st National conference on phytomedicines Current and future Perspective, 9-11 October 2018. Shaheed
 Benazir Bhutto, University Sheringal.
 1st International Basic Medical Sciences Conference "Challenges and Opportunities" October 23-25, 2018
 Organized by Khyber Medical University Peshawar.
 Seminar on "Young People and Mental Health in Changing World" October 24, 2018
 Organized by Department of Psychology University of Malakand.
 1st National workshop on Molecular Biology, Tools and Techniques. 12-14 Nov 2018. Organized by
 Department of Botany, University of Malakand.
 4th Invention to Innovation Summit, KP 2018 22-23 November 2018, Cecos University Peshawar.
 Two Days Training workshop on "Acceptance and Commitment Therapy" December 12-13, 2018
 Organized by Department of Psychology University of Malakand.

Won merit scholarship in M.phil course work.
 Won the HEC FDP (University of Malakand) scholarship for PhD in Germany

List of Publications

1. Thomas C. Nugent, **M. Naveed Umar**, Ahtaram Bibi. Picolyamine as an Organocatalyst Template for Highly Diastereo- and Enantioselective Aqueous Aldol Reactions. *Org. and Bio Mol. Chem.* 2010, 18, 4085.
2. Thomas C. Nugent, **M. Naveed Umar**, Daniela E. Negru, Mohamed El-Shazly, Dan Hu, Abdul Sadiq, Ahtaram Bibi. Sequential Reductive Amination-Hydrogenolysis: A One-Pot Synthesis of Challenging Chiral Primary Amines *Advance Synthesis and Catalysis* 2011, 353, 2085-2092.
3. Thomas C. Nugent, **M. Naveed Umar**, A Bibi, M. Shoaib, A Sadiq, F. N. Tehrani. In search of a Substrate broadening Organocatalyst Template: Examination of Picolyamine For Michael and Aldol reactions. *Org. and Bio Mol. Chem.* 2012, 10, 9287-9294
4. **M. Naveed Umar**, M. Shoaib and Seik Weng Ng. 2-Benzyl-3-phenyl-1-(pyridin-2-yl)-propan-1-one., *Acta Cryst.* **2012**, E68, o575.
5. **M. Naveed Umar**, M. Shoaib and Seik Weng Ng. 1-(Pyridin-2-yl)-2-[2-(trifluoromethyl)-benzyl]-3-[2-(trifluoromethyl)phenyl]-propan-1-one. *Acta Cryst.* **2012** E68, o576.
6. **M. Naveed Umar**, M. Nawaz Tahir, M. Shoaib, A. Ali and Ziauddin. 1,3-Bis(1-cyclohexylethyl)imidazolidine-2-thion. *Acta Cryst.* **2012**, E68, o743.
7. **M. Naveed Umar**, M. Nawaz Tahir, M. Shoaib, A. Ali and I. Khan. 1,3-Bis(1-phenylethyl)imidazolidine-2-thione. *Acta Cryst.* **2012**, E68, o1188.
8. **M. Naveed Umar**, M. Nawaz Tahir, M. Shoaib, A. Ali and I. Khan. N-Methylpyrrolidine-1-carbothioamide. *Acta Crystallographica E* **2012**, E68, o1706.
9. M. Nawaz Tahir, **M. Naveed Umar**, A. Ali, H. A. Shad. 2-[(E)-3,4-Dimethoxybenzylidene]-hydrazinecarboxamide. *Acta Cryst.* E68, 2012, o1724.
10. M. Nawaz Tahir, Akbar Ali, **M. Naveed Umar**, Ishtiaq Hussain and Hazoor Ahmad Shad. (2E)-2-(4-hydroxy-3-methoxybenzylidene)hydrazinecarboxamide. *Acta Cryst.* E68, **2012**, o2071
11. M. Nawaz Tahir, Akbar Ali, **M. Naveed Umar**, Ishtiaq Hussain and Hazoor Ahmad Shad. 3-[(E)-(pyridin-3-ylimino)methyl]phenol. *Acta Cryst.* E68, **2012**, o2072
12. Zia Ud Din, Akbar Ali, **Naveed Umar**, Nazish, Ghani Shah Pir Muhammad, Sarwar Khan, Sajjad Hussain, Ayaz Hassan, Sabir Khan and Imran Khan Phytochemical, Physicochemical screening and antioxidant activity of the fruit of *solanum nigrum* *Stud. J. Chem.*, **2012**, 1 (1), 7-14.
13. Haroon-Ur-Rasheed, **M. Naveed Umar**, Khalid Khan and M. Naveed Anjum. Synthesis and Relaxivity Measurement of Porphyrin Based Magnetic Resonance Imaging (MRI) Contrast Agents *Journal of Structural Chemistry* **2014**, 55 (5) 950-955.
14. Haroon-Ur-Rasheed, Khalid Khan, M. Yasin, **M. Naveed Umar**. Solvent Degradation in CO₂ Capture Process From Power Plant Flue Gas. *Theoretical and Experimental Chemistry* **2014**, 49, 371-375.

15. M. sadiq, Razia, **M. Naveed Umar**, Gul zamin. One Pot Synthesis of Aldol adduct Catalyzed by Immobilized Picolyamine on Zirconia, *Modern Research In Catalysis* **2014**, 3, 1-5.
16. Haroon Ur Rasheed, Khalid khan, Muhammad Yaseen, Waseem Hassan, **M. Naveed Umar**. Synthesis and Relaxivity Measurement of Cyclen Based Magnetic Resonance Imaging (MRI) Contrast reagent. *Rev. Roum. Chim* **2014**, 59 (1) 27-33.
17. Haroon Ur Rashid, Kaichao Yu, **Muhammad Naveed Umar**, Muhammad Naveed Anjum and Khalid Khan Catalyst role in chemical vapor deposition (cvd) process: a review *Reviews on Advanced materials Science* **2015**, 40, 235-248
18. Mohammad Shoaib, Ghawsur Rahman, Syed Wadood ali Shah and **Muhammad Naveed Umar** Synthesis of 4-aminoantipyrine derived Schiff bases and their evaluation for antibacterial, cytotoxic and free radical scavenging activity *Bangladesh J Pharmacol* **2015**; 10: 332-336
19. Mohammad Shoaib, Syed Wadood Ali Shah, Niaz Ali, Ismail Shah, **Muhammad Naveed Umar**, Shafi Ullah, Muhammad Ayaz, Muhammad Nawaz Tahir and Sohail Akhtar, In-vitro Enzyme inhibition potentials and antioxidant activity of synthetic flavone derivatives *Journal of Chemistry* **2015**, 1-7. <http://dx.doi.org/10.1155/2015/516878>
20. Imran Khan and **Muhammad Naveed Umar** Evaluation of Crude Extract of *Melia azedarach* Linn. Against Attenuated Amphotericin B Resistant *Leishmania tropica* Strain *Journal of Basic & Applied Sciences*, **2015**, 11, 314-317
21. Imran Khan, Kafeel Ahmad, Ali Talha Khalil, Jangrez Khan, Yusra Ali Khan, Muhammad Shahab Saqib, **Muhammad Naveed Umar**, Hilal Ahmad Evaluation of antileishmanial, antibacterial and brine shrimp cytotoxic potential of crude methanolic extract of Herb *Ocimum basilicum* (Lamiaceae) *J Tradit Chin Med* **2015** June 15; 35(3): 316-322
22. Mohammad Sadiq, Muhammad Ali, Rashid Iqbal, Khalid Saeed, Aimal Khan, **Muhammad Naveed Umar**, Haroon Ur Rashid Efficient Aerobic Oxidation of Cyclohexane to KA Oil Catalyzed By Pt-Sn Supported On MWCNTs *J. Chem. Sci.* **2015** 127, (7) 1167-1172.
23. Mohammad Sadiq, Muhammad Ali, Razia Aman, Mohammad Ilyas **Muhammad Naveed Umar**, Haroon Ur Rasheed kinetic study of selective gas-phase oxidation of isopropanol to acetone using monoclinic ZrO_2 as a catalyst *Quimica Nova* **2015** 38(7) 891-895.
24. S. W. Khan, J. H. Zaidi, G. S. Khan, **M. Naveed Umar**, M. C. Galan, M. Haddow and Haroon Ur Rasheed Synthesis and Characterization of Monoaryl Esters of L-tartaric acid and Their Process for Fries rearrangement. *J IRAN CHEM SOC* **2015** 12:1819-1827
25. Imran Khan, Momin Khan and **Muhammad Naveed Umar**, Nanobiotechnology and Its Applications In Drug Delivery System. A review, *IET Nanobiotechnology* 2015 1-5 doi: 10.1049/iet-nbt.2014.0062
26. Haroon ur Rashid, **Muhammad Naveed Umar**, Mian gul Sayed, Nasir Karim and Rukhsana Ghaffar Synthesis and evaluation of analgesic, anti-inflammatory and anti-bacterial activity of synthetic porphyrin derivatives *REVUE ROUMAINE DE CHIMIE*, **2015**, 60 (9) 861-866.
27. Imran Khan, Momin Khan, **Muhammad Naveed Umar**, and Deog-Hwan Oh, Attenuation and Production of the Amphotericin B-Resistant *Leishmania tropica* Strain *Jundishapur J Microbiol.* **2016** 9(6) 32159.
28. **Muhammad Naveed Umar**, Mohammad Shoaib, Mohammad Sadiq, Muhammad Ayaz, Sumaira Miskeen, Ismail Shah, Imran Khan, Haroon Ur Rashid, Ikram Ilahi, Sher_Wali Khan Synthesis and Pharmacological Properties of 1, 3-bis [(S) phenylethyl] imidazo[4,5-b]pyridine-2-thione *Pharmaceutical Chemistry Journal*, **2016** (50), 6, 366-371.

29. Haroon Ur Rashid, Marco Antonio Utrera Martines, Juliana Jorge, Paula Martin de Moraes **Muhammad Naveed Umar**, Kamin Khan, Hanif Ur Rehman Cyclen-based Gd³⁺ Complexes as MRI Contrast Agents: Relaxivity Enhancement and Ligand Design *Bioorganic & Medicinal Chemistry* **2016** online <http://dx.doi.org/10.1016/j.bmc.2016.09.069>
30. Khan SW, Zaidi JH, Nasser N, El-Sayed E, Khan KM, Yousuf S, Khan M, Nadhman A, **Umar MN**, Perveen S, Miana GA. Synthesis, Characterization, Antimicrobial and Antileishmanial Activities of Amide derivatives of L-tartaric acid. *Journal of the chemical society of pakistan*. **2016** 1;38(1):70-79.
31. M. Shoaib, S. W. A. Shah, N. Ali, I. Shah, **M. N. Umar**, Shafiullah1, M. N. Tahir, M. Ghias Synthetic flavone derivatives. An antibacterial evaluation and structure-activity relationship study *Bulgarian Chemical Communications, Volume 48, Number3 (pp. 414– 421)* **2016**.
32. Karim N, Khan I, Ahmad N, Umar M. N, Gavande N, Antidepressant, anticonvulsant and antinociceptive effects of 3_-methoxy-6- methylflavone and 3_-hydroxy-6-methylflavone may involve GABAergic mechanisms, *Pharmacological Reports* (2017), <http://dx.doi.org/10.1016/j.pharep.2017.03.001>
33. Adnan Shahzad, Zarif Gul, Ezzat Khan, **Muhammad Naveed Umar**, Muhammad Raza Shah, Awal Noor, Haroon Ur Rashid and Sher wali Khan. 2-Acetyl pyridine derivatives; facile synthesis, characterization and DFT calculations *Quimica Nova* (**2017**) . <http://dx.doi.org/10.21577/0100-4042.20170087>
34. Mohammad Shoaib, Ismail Shah, Niaz Ali, Achyut Adhikari, Muhammad Nawaz Tahir, Syed Wadood Ali Shah, Saiqa Ishtiaq, Jahangir Khan, Shahzeb Khan and **Mohammad Naveed Umer**, Sesquiterpene lactone! a promising antioxidant, anticancer and moderate antinociceptive agent from *Artemisia macrocephala* jacquem *BMC Complementary and Alternative Medicine* (**2017**) 17:27
35. Mohammad Shoaib, Haya Hussain, Syed Wadood Ali Shah, Mohammad Naveed Umar and Abid Ullah, Synthesis, acute toxicity, analgesic activity and cytotoxicity of Somebisthiourea derivatives *Pak. J. Pharm. Sci.*, Vol.30, No.4, July **2017**, pp.1351-1356.
36. Sadia Maria , Umar Muhammad Naveed , Naz Robina , Khan Jahangir , Synthesis and characterization of 2-[(hydroxy(4-nitrophenyl) methyl] cyclohexanone for its potential application as off-on fluorescent sensor for selective cadmium detection, *Res.J.chem.sci.*, Volume 7, Issue (8), Pages 7-18, August,18 (**2017**)
37. Sumaira Naz, Muhammad Zahoor, **Muhammad Naveed Umar**, Barkat Ali, Riaz Ullah, Abdelaaty A Shahat, Hafiz Majid Mahmood, and Muhammad Umar Khayam Sahibzada, Enzyme Inhibitory, Antioxidant And Antibacterial Potentials Of Synthetic Symmetrical And Unsymmetrical Thioureas, *Drug Des Devel Ther.* **2019**, 13: 3485–3495
38. Zahra Begum, Momin Khan, Sher Wali Khan, Muhammad Imran, Noor Rehman, **Muhammad Naveed Umar**, Atif Kamil, Turghun Muhammad, Synthesis, Characterization, Antifungal and Antibacterial Activities of Novel Amide Derivatives of 1,3-Dioxolane, *International Journal of Chemistry*; Vol. 11, No. 1; **2019**, 71-78
39. Mohammad Shoaib, Mehreen Ghias, Syed Wadood Ali Shah, Niaz Ali, **Muhammad Naveed Umar**, Abdullah, Meboobur Rahman, Ismail Shah and Shafiullah Synthetic flavonols and flavones: A future perspective as anticancer Agents, *Pak. J. Pharm. Sci.*, Vol.32, No.3, May **2019**, pp.1081-1089
40. Mohammad Shoaib, Syed Wadood Ali Shah, Niaz Ali, **Naveed Umar**, Ismail Shah, Shafiullah and Muhammad Nawaz Tahir A possible mechanistic approach of synthetic flavonoids in the management of pain, *Pak. J. Pharm. Sci.*, Vol.32, No.3, May **2019**, pp.911-917

41. Mehreen Ghias , Mohammad Shoaib, Syed Wadood Ali Shah, **Muhammad Naveed Umar** , Shakir Ullah ,Niaz Ali, Ismail Shah and Shafiullah, Nootropiceffects of synthetic flavonoid derivativeson scopolamine induced memory impairment in mice via cholinesterase inhibition and antioxidant system *Pak. J. Pharm. Sci.*, Vol.32, No.5(Suppl), September **2019**, pp.2325-2332
42. SWA Shah, M Ghias, M Shoaib, N Ali, I Shah, **MN Umar**, SMM Shah, Antidiabetic potential of flavonoids from *Artemisia macrocephalla* Jaquem in streptozotocin-induced diabetic rats: Pharmacological and biochemical approach *Pak. J. Pharm. Sci* 32 (6), **2019**, 2865-2871
43. Mohammad Shoaib, Syed Wadood Ali Shah, Mehreen Ghias, Niaz Ali, Naveed Umar, Ismail Shah, Shafiullah, Muhammad Nisar, Tour Jan, Muhammad Nawaz Tahir Synthesis, crystal studies and biological evaluation of flavone derivatives *Pak. J. Pharm. Sci* 33 (1), **2020**, 11-20.

References

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1. **Prof. Dr. Thomas C. Nugent**, PhD USA, Department of chemistry, Jacobs University Bremen, Germany.
2. **Prof. Dr. Manzoor Ahmad**, Associate Professor, Department of chemistry, University of Malakand KPK Pakistan
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