

**Dr. SABAHAT ZAHRA SIDDIQUI****d/o**

Abdul Hafeez Siddiqui &amp; Saleema Khatoon

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Old: H. No. 68, St. No. 56 Bilal, Syed Park Sant Nagar, Lahore.Land Line No. +92-423-7152175Mobile No. +92-336-3335523e-mail: [sabahat.gcu@gmail.com](mailto:sabahat.gcu@gmail.com)CNIC No. 35202-2486893-2Religion: IslamD.O.B : 22<sup>nd</sup> October 1982

<b>Research Interests</b>	<ul style="list-style-type: none"> <li>Synthesis, structural modification &amp; elucidation of organic heterocycles</li> <li><i>In vitro</i> Bioassay screening (Anti-enzymatic/ anti-bacterial/antioxidant/cytotoxicological analysis) of synthetic moieties and medicinal plant extracts and elucidating structure-activity relationship (SAR)</li> <li>Computational analysis of synthesized derivatives</li> <li>Natural Product's Isolation and their structural investigations</li> </ul>		
<b>Education</b>	<b>Department of Chemistry GC University, Lahore</b>		
18 credit hour course (468/600; 78 %)	Specialization: <i>Synthetic Organic Chemistry/Natural Products</i> Dissertation: <i>"Investigations on the chemical constituents of Olea ferruginea and synthesis of biologically active molecules containing 2,5-disubstituted-1,3,4-oxadiazole core"</i> Supervisor: Dr. Muhammad Athar Abbasi	2009 – 2014 PhD/ Split PhD UPENN, USA (IRSIP Scholar 2011-2012)	
(836/1200; 70 %; 1 Division)	<b>Institute of Chemistry University of Punjab, Lahore</b> Specialization: <i>Synthetic Organic Chemistry</i> Dissertation: <i>Synthesis and application of 2-Phenylbenzimidazoles and their derivatives"</i> Supervisor: Prof. Dr. Munawar Ali Munawar	2005-2007 M.Phil	
(G.P.A 3.25, 1046/1300; 80 %; 1 <sup>st</sup> Division)	<b>Department of Chemistry GC University, Lahore</b> Specialization: <i>Synthetic Organic Chemistry</i> Dissertation: <i>"Synthesis and Characterization of Benzotriazoles, Benzimidazoles and their Derivatives."</i> Supervisor: Dr. Iftikhar Ahmad Co-Supervisor: Dr. Muhammad Zia-ur-Rehman	2002-2004 M.Sc	
(634/900; 70.4 %; A <sup>+</sup> )	<b>Lahore College for Women University, Lahore</b> Specialization: <i>Chemistry, Botany and Zoology</i>	2000 – 2002 B.Sc	
(771/1100; 70 %; A)	<b>Govt. Jinnah Degree College , Lahore</b> Specialization: <i>Pre-Medical (Chemistry, Biology, English and Physics)</i>	1998 – 2000 Intermediate	
(607/850; 71 %; A)	<b>Sacred Heart Cathedral High School, Lahore.</b> Courses: Chemistry, Biology, English, Physics and Mathematics	1998-2000 Matriculation	
<b>Service rendered</b> (Government Of Pakistan)	As "Presiding Officer in Elections 2013" after One day training of Presiding Officer organized by Election Commission of Pakistan at Govt. Islamia High School for Boys, Mughalpura-Lahore.	22 <sup>nd</sup> April, 2013	
<b>Research</b>	<b>Department of Chemistry GC University, Lahore</b>		
<b>Session/Supervision</b>	<b>Dissertation</b>	<b>Researcher (Roll No.)</b>	<b>Program</b>
2007-2009	Synthesis and Characterization of Quinoxaline Derivatives	Hammad Khalid (Roll No. 1034)	M.Sc Industrial Chemistry
<b>Supervisor</b>			

2007-2009 <i>Supervisor</i>	Synthesis and Characterization of Pyrimidine Derivatives and Their Biological Activity	Irum Hussain (Roll No. 961)	B.Sc (H)
2007-2009 <i>Supervisor</i>	Synthesis of Substituted Pyrimidine-5-carboxylate and its Biological Activity	Shabana Abdul Hameed (Roll No. 957)	
2008-2010 <i>Co-Supervisor</i>	Synthesis of Coumarine based dyes	Shamsa Mehmood	
2008-2010 <i>Supervisor</i>	Metal Complexation of Hippuric Acid	Nuzhat Shafique (993)	
2008-2010 <i>Supervisor</i>	Synthesis and Characterization of 2-Aminobenzothiazoles and Their Derivatives	Mian Usama Waqas (829)	
2010-2011 <i>Supervisor</i>	<i>In vitro</i> assessment of antioxidant activity of <i>Pyrus pashia</i>	Saima Ali (161)	
2010-2011 <i>Co-Supervisor</i>	Antioxidant Activity on Various Extracts of <i>Lonicera quinquelocularis</i> and Synthesis of 6-membered Heterocycles	Hina Saleem Paracha (177)	
2011-2012 <i>Supervisor</i>	Synthesis and spectral characterization of different sulfonamides derived from 4-acetamidobenzene sulfonyl chloride	Anam Zahid (161)	
2012-2013 <i>Supervisor</i>	Synthesis and structural analysis of derivatives of 2-ethyl-6-methyl aniline	Hafsa Rafiq (167)	
2012-2013 <i>Supervisor</i>	Synthesis and spectral analysis of 2-methoxy aniline derivatives	Maryam Shafique (185)	
2012-2013 <i>Supervisor</i>	Synthesis, spectral characterization and chymotrypsin activity of <i>N</i> -substituted sulfamoylacetamides	Sobia Shahid (177)	
2013-2014 <i>Supervisor</i>	Synthesis and biological evaluation of Schiff-bases derived from 2-(4-chlorophenoxy)acetohydrazide	Anum Naeem (156)	
2015-2016 <i>Supervisor</i>	Synthesis of Schiff-bases derived from 2-[5-(4-chlorophenoxy)methyl-1,3,4-oxadiazol-2-ylthio]acetohydrazide.	Safdar Abbas 166-BH-CHEM-12	
2016-2017 <i>Supervisor</i>	Synthesis of acetohydrazides bearing 2-[5-(4-chlorophenoxy)methyl-1,3,4-oxadiazol-2-thiol moiety.	Samra Tahseen 174-BH-CHEM-12	
	Synthesis and Characterization of <i>N</i> -substituted derivatives of 4-methylpiperazine	Shehzadi Yaseen 188-BH-CHEM-13	
2017-2018 <i>Supervisor</i>	Synthesis and characterization of <i>N</i> -substituted derivative of 4-[{4 ( <i>N</i> -3,5-dimethylphenyl)sulfamoyl}phenyl] acetamide	Hafiza Saman Arshad 315-BH-CHEM-14	
	Synthesis and spectral characterization of <i>N</i> -aryl derivatives of 4-acetamidobenzenesulfonyl chloride	Hafiz Hassan Munawar 372-BH-CHEM-14	
	Synthesis and structural characterization of sulfonamide derived from 4-acetamidobenzenesulfonylchloride	Farwa Afzal 350-BH-CHEM-14	
	Synthesis and spectral analysis of <i>N</i> -substituted-3,5-dimethylaniline derivatives	Muhammad Hassan 350-BH-CHEM-14	

2018-2019 <i>Supervisor</i>	Synthesis of S-alkyl substituted triazole	Rizwana Sikandar 189-BH-CHEM-12	
2020-2021 <i>Supervisor</i>	Base-initiated cyclization of substituted azole moiety	Ifra Zaheer 0234-BH-CHEM-17	
	Synthesis of derivatives of triazoles bearing substituted phenyl ring	Rimsha Azam 0228-BH-CHEM-17	
2021-2022 <i>Supervisor</i>	Base-initiated Cyclization of Darconic acid with substituted phenylisothiocyanate	Sana Riaz 0072-BH(E)-CHEM-18	
	Synthesis and spectral elucidation of <i>S</i> -substituted derivatives of triazole	Naman Qayyum 0060-BH(E)-CHEM-18	
2022-2023 <i>Supervisor</i>	Synthesis of azole molecules from p-Anisic acid utilizing ethyl isothiocyanate	Fariha Manzoor 0231-BH-CHEM-19	
2022-2023 <i>Supervisor</i>	Synthesis and Spectroscopic Studies of Novel Sulfonamide compounds bearing p-Anisic acid moiety	Nimrim Azeeqa 0249-BH-CHEM-20	
<i>Supervisor</i>	Synthesis, Spectral Analysis and Pharmacological Screening of <i>N</i> -(2,4-Dimethylphenyl)benzenesulfonamide Derivatives	Muhammad Afzaal Sarwar (4-MSFC-2012)	M.Phil
2014-2015 <i>Supervisor</i>	Synthesis, Characterization and Biological Activity of 4-Bromo- <i>N</i> -(3,4-dimethylphenyl)benzenesulfonamide Derivatives	Muhammad Ahsan (2013-MP-CHEM-56)	
2015-2016 <i>Supervisor</i>	Synthesis and structural elucidation of <i>N</i> -substituted derivatives of 4-bromo- <i>N</i> -(3,4-dimethylphenyl)benzenesulfonamide	Maria Dawood 824-MPHIL-CHEM-2014	
	Synthesis and spectral analysis of <i>N</i> -alkyl/aralkyl derivatives of 4-bromo- <i>N</i> -(3,4-xylidene)benzenesulfonamide	Sundas Fatima 815-MPHIL-CHEM-2014	
	Synthesis, characterization and biological screening of <i>N</i> -acyl derivatives of 4-methyl-1-piperazine	Hafiz Muhammad Athar 851-MPHIL-CHEM-14	
	Synthesis, characterization and biological screening of <i>N</i> -sulfonated derivatives of 3,5-xylidene	Mazhar Hussain 837-MPHIL-CHEM-2014	
2017-2018 <i>Supervisor</i>	Synthesis and spectral analysis of <i>N</i> -(4-[ <i>N</i> -(substituted)- <i>N</i> -3,5-dimethylphenyl]sulfonyl)phenyl)acetamides	Ayesha Sharif 845-M.Phil-2015	
	Synthesis and structural elucidation of <i>N</i> -{4[(aryl-3,5-dimethylaniline)sulfonyl]phenyl}acetamides	Tahira Parveen 841-M.Phil-2015	
2018-2019 <i>Supervisor</i>	<i>S</i> -alkylated derivatives of 4-methoxybenzoic acid	Maheen Shahid 826-MPhil-Chem-2016	

	Synthesis and spectral characterization of S-substituted derivatives of draconic acid	Zainab Ayaz 823-MPhil-Chem-2016
	Base-Catalyzed Cyclization of Substituted Benzohydrazide and its Spectral Analysis	Muhammad Ashraf 828-MPhil-CHEM-17
	Synthesis and spectral characterization of S-substituted derivatives of 1,2,4-triazole	Shahid Khan 857-MPhil-CHEM-17
	Base-catalyzed cyclization of Daraconic acid with substituted phenylisothiocyanate	Hafiz Muhammad Daniyal Nadeem 0856-7-M.Phil-18
	Synthesis & spectral characterization of di-substituted triazoles bearing 4-methoxyphenyl moiety	Farwa Afzal 0814-7.M.Phil-18
	Synthesis & spectroscopic studies of phenylisothiocyanate derivatives	Muhammad Hasnain Zaghim 0026-MSFC-18
2020-2021 <i>Supervisor</i>	Design, Synthesis and spectral characterization of Some S-Substituted Derivatives of 5-(4-methoxyphenyl)-4-(4-nitrophenyl)-4H-1,2,4-triazole-3-thiol	845-MPhil-CHEM-19 Hafsa Mubeen
	Synthesis and spectroscopic studies of S-Substituted Alky/aryl derivatives of 1,2,4-triazole	827-MPhil-CHEM-19 Muhammad Nisar
2021-2022 <i>Supervisor</i>	Synthesis and spectral analysis of triazole derivatives containing <i>p</i> -anisic acid moiety	Maryam Irshad 0254-MPhil(M)-CHEM-20
	Synthesis and spectroscopic studies of heterocyclic molecules bearing phenylisothiocyanate ring	Ruqiya Siddique 0202-MPhil(M)-CHEM-20
	Design, Synthesis and spectral characterization of compounds covering 1,2,4-triazole nucleus	Usama Haidar Awan 0849-MPhil-CHEM-20
	Synthesis and spectral analysis of new molecules derived from substituted benzoic acid	Muhammad Younas 0244-MPhil(M)-CHEM-20
	Synthesis and spectroscopic studies of triazoles bearing substituted aromatic-isothiocyanate moiety	Muhammad Kaleem Mumtaz 0255-MPhil(M)-CHEM-20
2022-2023 <i>Supervisor</i>	Synthesis and characterization of Nitrogen containing heterocyclic molecules using spectral techniques	Sania Mazhar 0275-M.Phil-Chem-21
	Synthesis and spectral analysis of triazoles containing 4-methoxy benzoic acid	Rafia Maryam 0825-M.Phil-Chem-21
	Synthesis and structural evaluation of Novel alkyl halide molecules bearing substituted benzoic acid moiety	Muhammad Irfan 0284-M.Phil-Chem-21
	Design, Synthesis and structural confirmation of triazoles derivatives through spectroscopic techniques	Arfa Ashraf 0252-M.Phil-Chem-21

	Synthesis and spectroscopic studies of various triazoles molecules bearing phenyl isothiocyanate moiety	218-M.Phil(M)-Chem-21	
	Design, Synthesis and spectroscopic analysis of molecules containing azole ring	Sakina Khan 219-M.Phil(M)-Chem-21	
	Synthesis and spectral analysis of heterocyclic compounds formed by Base-Catalyzed Cyclization of para-substituted benzoic acid	Farwa Nawaz 0013-MSFC-21	
	Design, Synthesis and Structural Elucidation of heterocyclic molecules by utilizing various spectral techniques	Amna rahman 0014-MSFC-21	
	Design, Synthesis and characterization of heterocyclic compounds containing substituted aromatic acid	Hareem Ashraf 0019-MSFC-21	
2023-2024 <i>Supervisor</i>	Design, Synthesis and characterization of N-(4-methoxybenzoyl)-2,4,6-trimethylbenzenesulfonohydride by using various spectral techniques	Muneeba Mushtaq 0235-MPHIL-CHEM-22	
	Design, Synthesis and spectral analysis of 3,5-dichloro-2-hydroxy-N-(4-methoxybenzoyl)benzenesulfonohydrazide	Noman Naeem Bajwa 0211-MPHIL-CHEM-22	
2016-2017 <i>Supervisor</i>	Synthesis, Characterization and Biological Evaluation of 4-Chloro-N-(3,5-dimethylphenyl)benzenesulfonamide Derivatives	Muniba Javed 2013-MSPC-CHEM-17	MS Pharmaceutical Chemistry
2016-2017 <i>Supervisor</i>	Synthesis, structural elucidation and bioactivity of hydrazone derivatives bearing 1,3,4-oxadiazole moiety.	Sadaf Nasir 08-MSPC-2014	
2017-2018 <i>Supervisor</i>	Base-catalyzed cyclization of di-substituted phenylacetic acid	Aamir Rasool 846-MSc-CHEM-17	MSc
	Synthesis of 1,2,4-triazole-3-thiol using ethyl isothiocyanate	Aqsa Rubab 349-MSc-CHEM-17	
	Synthesis and spectral characterization of S-substituted derivatives of 1,2,4-triazole	Ali Asghar 817-MSc-CHEM-17	
	Synthesis of S-alkyl triazoles derived from p-methoxybenzoic acid	Tasmiya Sardar 0832-MSc-18	
	Base-catalyzed cyclization of arylhydrazide into 1,3,4-oxadiazole moiety	Kainat Rasool 190-MSc-15	
	Base Initiated Ring Closure of Di Substituted Azole Moiety	Muhammad Rasheed 857- MSc-CHEM-18	
2019-2021 <i>Supervisor</i>	Synthesis and spectral analysis of 4-Nitrophenylisothiocyanate derivatives	0854-MSc-CHEM-19 Ayeza Abdul Rasheed	
	Synthesis of spectral elucidation of Novel compounds derived from substituted triazoles covering 4-methoxyphenyl core	0858-MSc-CHEM-19 Zahid Raza Baig	
	Design, Synthesis and spectral analysis of di-substituted aryl triazoles bearing benzoic acid nucleus	0860-MSc-CHEM-19 Seher Nasir	
	Base-Catalyzed Cyclization of p-methoxybenzoic acid with substituted phenylisothiocyanate	0879-MSc-CHEM-19 Hassan Raza	
2021-2023	Synthesis and spectral analysis of heterocyclic	Mahnoor Nadeem	

<b>Supervisor</b>	compounds bearing triazole ring	0835-MSc-CHEM-20		
	Synthesis and structural confirmation of azole molecules utilizing Ethyl Isothiocyanate	Aliza Yaqoob 0817-MSc-CHEM-20		
	Design, Synthesis and spectroscopic studies of heterocyclic molecules containing triazole nucleus	Ramsha Arooj 0804-MSc-CHEM-20		
	Synthesis and characterization of nitrogen containing molecules covering substituted benzoic acid	Muhammad Zain Ul Abideen 0842-MSc-CHEM-20		
	Synthesis and spectroscopic studies of heterocyclic compounds bearing 1,2,4-triazole moiety	Imranullah 0843-MSc-CHEM-20		
<b>PhD Supervisor</b>	Synthesis and structure-activity relationship studies of 3,4,5-trisubstituted-1,2,4-triazole heterocyclic scaffolds derived from p-anisic acid	Muhammad Arfan 2016- PhD-CHEM- 23 Degree Awarded	PhD Chem	
	Synthesis and structure-activity relationship studies of 3,4,5-trisubstituted-1,2,4-triazole heterocycles derived from p-chlorophenoxyacetic acid	Saima Ali 2015-PHD-CHEM-113 HEC Awardee Degree Awarded		
	Synopsis write up in process	Maria Ayub 2015-PHD-CHEM-114		
	Course Work and Comprehensive Completed, Synopsis in BOS	Faisal Shahzad 201-PhD-Chem-2017		
	Course Work and Comprehensive Completed, Synopsis in BOS	Aurangzeb 219-PhD-Chem-2018		
<b>Teaching Experience</b>	<i>Lecturer- Assistant Professor (TTS) Department of Chemistry GC University, Lahore</i>			
Aug 2007 – To Date	Supervision of research students and teaching of MS (Pharmaceutical), M. Phil, B.Sc. (Hons.) of Organic, Analytical, Biochemistry, MS Excel, Cost accounting, Radio analytical and Inorganic Chemistry and Intermediate classes. Conducting tutorial sessions on moral boosting and providing guidance to students in grasping the fundamentals and concepts of their subjects.			
<b>Industrial Experience</b> <b>Jan 2005 (3 Months)</b>	<i>Research and Development Officer -Pacific Pharmaceuticals, 30 Km Multan Road Lahore.</i>			
	Propping up of the research and development activities and synthesis of Calcium Phosphate bis-hydrate which acts as a binder in medicines and also checked the dissolution time of medicines in biological medium.			
<b>Opportunities</b>	<i>Selected as a Subject specialist Teacher in : 2006–2007</i>			
	<ul style="list-style-type: none"> <li>• Garrison Girls Academy Cant, Lahore.</li> <li>• Crescent Model High School, Lahore</li> </ul>			
<b>Projects</b>	<i>M.Phil– Final Year Projects</i>			
	<ul style="list-style-type: none"> <li>• Factors affecting Flame atomic absorption and Emission spectra of inorganic elements.</li> <li>• Synthesis of Benzyl bromide.</li> <li>• Digestion of Organic materials by Nitric acid and Hydrogen peroxide</li> </ul>			
<b>Instrumentation</b>	<ul style="list-style-type: none"> <li>• NMR spectrometers : Operation and Interpretation (Training from UPENN, USA)</li> <li>    Bruker DRX 400 MHz NMR (uni400)</li> <li>    Bruker DMX 360 MHz NMR (DMX360)</li> <li>    Bruker DMX 300 MHz NMR (DMX300)</li> <li>    Bruker AV-II 500 MHz NMR (AVII500B)</li> <li>• IR Spectrometer</li> </ul>			



“Drug-Development – Natural and Synthetic” held on at COMSATS Institute of Information Technology, Abbottabad, Pakistan.	
Attended Chemistry Conference “Chemical Trends 2013” held on LUMS, Pakistan.	27 <sup>th</sup> Sep, 2013
<b>Dr. Christopher Arabi, MIT</b> –“ Nanoparticles and innovation”	1 <sup>st</sup> Nov, 2011
<b>Dr. Mark Scialdone, DuPont</b> –“ Better Chemistry”	7 Nov, 2011
<b>Prof. Robert flowers, Lehigh University</b> –“Give or take electron-Mechanistic studies of single electron transfer in important synthetic reactions”	14 <sup>th</sup> Nov, 2011
<b>Prof. Jimmy Wu, Dartmouth</b> –“ Exploring chemistry of sulfur”	21 <sup>st</sup> Nov, 2011
<b>Dr. Pat Confalone, Dupont</b> –“Topics from discovery and process chemistry in pharmaceutical and agricultural research and development”	5 <sup>th</sup> Dec, 2011
<b>Prof. Norito Takenaka, University of Miami</b> –“Assymmetric catalysis with helical-chiral pyridine”	23 <sup>rd</sup> Jan, 2012
<b>The 2012 distinguished Alumini Award</b> <b>Ei-ichi Negishi (Purdue University)</b> “Magical powers of <i>d</i> -block transition metals-Pd catalyzed cross-coupling and Zr-catalyzed asymmetric carboalumination of alkenes (ZACA)”	30 <sup>th</sup> Jan, 2012
<b>Prof. J. E. Backvall, Arrhenius Lab. Stockholm University</b> “Biomimetic catalysis in green organic transformations”	
<b>Ben Feringa, University of Groningen</b> “Exploring chiral space in asymmetric catalysis”	
<b>Gregory Fu, Massachusetts Institute of Technology</b> “Palladium and Nickel-catalyzed cross-coupling reactions of alkyl electrophiles”	
<b>Alois-Furstner-Max-Plank-Instut for Kohlenforschung</b> “Catalytic pi-bond activation-Concepts and applications”	
<b>Madeleine Joullie Lecture-Tim swager-MIT</b> “Polycyclic aromatics for use as high performance electronic materials”	6 <sup>th</sup> Feb, 2012
<b>Dr. Fred Sharifi, NIST</b> “Nanostructure and disruptive technologies”	13 <sup>th</sup> Feb, 2012
<b>Prof. Peter Zhang, University of South Florida</b> “Metalloradical catalysis for stereoselective C-H amination”	14 <sup>th</sup> Feb, 2012
<b>Prof. Michael Duncan, University of Georgia</b> “Infrared spectroscopy of cold ions and their clusters: Inorganic and organic chemistry in gas phase”	16 <sup>th</sup> Feb, 2012
<b>Prof. Nathan Leudtke, University of Zurich</b> “Probing the limits of DNA Chemical Biology”	17 <sup>th</sup> Feb, 2012
<b>Prof. Philips Parson, Imperial College, UK</b> “Application of furan chemistry in synthesis”	20 <sup>th</sup> Feb, 2012
<b>Professor Kendall Houk, UCLA, Bristol Myers Squibb</b> <b>Dr. Joel C. Barish</b> “Vignettes in Kinase Inhibitor Drug Discovery: Evolution of a drug target class”	28 <sup>th</sup> Feb, 2012
<b>Kendall N. Houk</b> “Dynamics, Mechanisms and Theory of Cycloaddition”	
<b>Dr. Ryan Looper, University of UTAH</b> “Propargylguanidine hydroaminations and their application to important heterocyclic scaffolds”	5 <sup>th</sup> March, 2012
<b>Professor Hubert Yin, University of Colorado</b> “Drugging the Undruggable”	12 <sup>th</sup> March, 2012
<b>Professor Weiping Tang, University of Wisconsin, Madison</b> “Design and Development of New Reactions Driven by the pi-Acidity of Rhodium (I) Catalyst”	19 <sup>th</sup> March, 2012
<b>Professor Krishna Kumar, Tufts University</b>	2 April, 2012

<p>“A New Paradigm for Molecular Design and Engineering”</p> <p><b>Novartis Lectures</b>  <b>Professor Dean Toste, UC Berkeley</b>  <b>“Concepts and Catalysts for Enantioselective Reactions of Carbon-Carbon Multiple Bond”</b>  <b>Frederic Zecri, Novartis Institutes for Biomedical Research</b>  <b>“Novel Potent and Selective S1P-1 Receptor Modulators for the Treatment of Multiple Sclerosis as Potential Back-up to Gilenya™”</b></p> <p><b>Professor Guigen Li, Texas Tech University</b>  “Can Organic Synthesis Avoid Traditional Purification of Using Chromatography and Recrystallization?”</p> <p><b>Professor Steve Martin, UT, Austin</b>  “Recent Advances in the Synthesis of Complex Heterocyclic Natural Products”</p> <p><b>“International Workshop on Crystallography &amp; Nanomaterials” and “1<sup>st</sup> Meeting of Pakistan Association of Crystallography”</b> under the celebration of International Year of Chemistry” at Department of Chemistry, GC University Lahore.</p> <p>Participant and Presenter in <b>“Inter-universities Poster Competition under the celebration of International Year of Chemistry”</b> at Department of Chemistry, GC University Lahore.</p> <p><b>“Two Days Workshop on Crystallography under the celebration of International Year of Chemistry”</b> at Department of Chemistry, GC University Lahore.</p> <p><b>Professor Erin Carlson, Indiana University</b>  “Chemical Probes to Explore Bacterial Development and Pathogenesis”</p> <p>Participant and Presenter in <b>“Inter-universities Poster Competition”</b> at Department of Chemistry, GC University Lahore.</p> <p><b>“12 International Symposium on Natural Product Chemistry”</b> at HEJ (ICCB), University of Karachi.</p>	3 <sup>rd</sup> April, 2012 9 <sup>th</sup> April, 2012 13 <sup>th</sup> April, 2012 19 Oct, 2011 to 21 <sup>st</sup> Oct, 2011 12 <sup>th</sup> Sep, 2011 6 June, 2011 to 7 June, 2011 16 <sup>th</sup> April, 2012 12 <sup>th</sup> Jan, 2011 22 Nov, 2010 to 25 Nov, 2010 2011-2012 14-15 <sup>th</sup> Jan, 2010 5-7 <sup>th</sup> October, 2009 14 <sup>th</sup> June, 2008 27 March, 2007 to 28 <sup>th</sup> March, 2007 24 <sup>th</sup> Nov, 2007 27 March, 2007 to 28 <sup>th</sup> March, 2007 24 <sup>th</sup> Jan to 26 <sup>th</sup> Jan 2018 24 <sup>th</sup> Jan to 26 <sup>th</sup> Jan 2018
<p><b>“Certificate of participation” in Chemistry Week</b> celebrated as the closing ceremony of International Year of Chemistry at Department of Chemistry, GC University Lahore.</p> <p>International Seminar on <b>“New Trends in Chemistry”</b> Lahore College for Women University, Lahore.</p> <p>Attended and Delivered Lecture in the International Seminar/Workshop on <b>“Preservation and Enhancement of Biodiversity: Application of Tree Rings in Pakistan”</b> held at GC University, Lahore.</p> <p><b>“International Conference on Role of Chemistry for Environmental Preservation (RCEP)”, Lahore.</b></p> <p><b>2<sup>nd</sup> meeting of “Nobel Laureates with Pakistani Students/Young Scholars”</b> at PINSTECH, Islamabad.</p> <p><b>“Impact of the WTO on services sector with focus on Engineering and Allied industries”</b></p> <p><b>1<sup>st</sup> meeting of “Nobel Laureates with Pakistani Students/Young Scholars”</b> at PINSTECH, Islamabad.</p> <p>Chaired the <b>University-Industry Linkage</b> session at International Chemistry Conference for the promotion of University-Industry Linkage organized by Department of Chemistry GC University, Lahore-Pakistan</p> <p>Convenor <b>“Printing and Publication Committee”</b> in International Chemistry Conference for the promotion of University-Industry Linkage organized by Department of Chemistry GC University, Lahore-Pakistan</p>	2011-2012
	14-15 <sup>th</sup> Jan, 2010
	14 <sup>th</sup> June, 2008
	27 March, 2007 to 28 <sup>th</sup> March, 2007
	24 <sup>th</sup> Nov, 2007
	27 March, 2007 to 28 <sup>th</sup> March, 2007
	24 <sup>th</sup> Jan to 26 <sup>th</sup> Jan 2018
	24 <sup>th</sup> Jan to 26 <sup>th</sup> Jan 2018

	Resource person for <b>Training of CHEM DRAW software</b> at Inter-University training program organized by Department of Chemistry GC University, Lahore-Pakistan	2018
	Participated in "National Workshop on environmental assessment, procedures, methodologies and legislations" organized by The Enviro Monitor, Lahore-Pakistan	13 <sup>th</sup> Jan 2018
	2 days' workshop on <b>COMPUTATIONAL TOOLS FOR DRUG DESIGN &amp; DISCOVERY</b> , Department of Chemistry & ACS Punjab in partnership with Office of Research, Innovation & Commercialization (ORIC), FCCU	17-18 <sup>th</sup> Oct 2023
	Participated in one-day international symposium on <b>International Symposium on Hybrid Materials for Energy Conversion and Storage</b> organized by the Functional Materials Research Group, Department of Chemistry, Government College University, Lahore	16th February 2023
<b>Posters</b>	Poster Presentation (ORG-P-4) on " <b>Phytochemical investigation and antioxidant activities of some species of Ebenaceae family</b> " in 1 <sup>st</sup> International CSP conference held at Institute of Chemistry University of Punjab, Lahore-Pakistan.	21 <sup>th</sup> Oct, 2014
	Poster Presentation (ANA-P-26) on " <b>Chemical profile and pharmacological investigation of essential oils from five Citrus species</b> " in 1 <sup>st</sup> International CSP conference held at Institute of Chemistry University of Punjab, Lahore-Pakistan.	21 <sup>th</sup> Oct, 2014
	Attended and presented poster in one day Chemistry Conference " <b>Chemical Trends 2013</b> " held on LUMS, Pakistan.	27 <sup>th</sup> Sep, 2013
	Poster Presentation (KSD-12) and Abstract on " <b>Synthesis, Characterization and Biological Activities of S-substituted 5-benzyl-1,3,4-oxadiazole-2-thiol derivatives</b> " Published in the " <b>12<sup>th</sup> International Symposium on Natural Product Chemistry</b> " held at COMSATS institute of Information Technology, Abbottabad-Pakistan.	25 Aug, 2013 to 27 Aug, 2013
	Poster Presentation (P-110) and Abstract on " <b>Olea ferruginea: A Potential Natural Source to Protect from Oxidative Stress</b> " Published in the " <b>12<sup>th</sup> International Symposium on Natural Product Chemistry</b> " held at HEJ Research Institute, University of Karachi.	22 Nov, 2010 to 25 Nov, 2010
<b>Abstracts</b>	<b>"Essential Oils and Latex as Novel Antiviral Agents against Potato Leaf Roll Virus (PLRV)".</b> In Abstracts book; <b>13<sup>th</sup> International Symposium on Natural Product Chemistry</b> , H.E.J Research Institute Of Chemistry, International Centre For Chemical And Biological Sciences, University of Karachi, Pakistan: (201).	22 Sep, 2012 to 25 Sep, 2012
	<b>"Large Scale Extraction of Essential oil from Citrus Peel Waste in Food Protection and Medicine: GC-MS Analysis of Citrus Essential Oils".</b> In Abstracts book; <b>13<sup>th</sup> International Symposium on Natural Product Chemistry</b> , H.E.J Research Institute Of Chemistry, International Centre For Chemical And Biological Sciences, University of Karachi, Pakistan: (115).	22 Sep, 2012 to 25 Sep, 2012
<b>Articles</b>	<b>"Cross couplings"</b> in <b>Scientific Ravi</b> GC University, Lahore.	2013
	<b>"Herbs and Spices"</b> in <b>Scientific Ravi</b> GC University, Lahore.	2010
	<b>"Radioactive Wastes"</b> in <b>Scientific Ravi</b> GC University, Lahore.	2004
<b>Oral Talk</b>	1. Oral Talk on "Synthesis and in vitro pharmacological evaluation, molecular docking and cytotoxic studies of N-substituted-5-(4-methoxyphenyl)-1,3,4-oxadiazole-2-yl-2-sulfanylacetamides" in 1st International CSP conference held at Institute of Chemistry University of Punjab, Lahore-Pakistan. 2. Oral Talk on "Synthesis, Characterization and Biological	21 <sup>st</sup> Oct 2014 25 <sup>th</sup> Aug, 2013 to 27 <sup>th</sup>

	<p>Activities of S-substituted 5-benzyl-1,3,4-oxadiazole-2-thiol derivatives" Published in the "12th International Symposium on Natural Product Chemistry" held at COMSATS institute of Information Technology, Abbottabad-Pakistan.</p> <p>3. Oral Talk on "synthesis and bioactivity of heterocycles" organized by Department of Chemistry and Department of Pharmacy "3-Day international conference" held at Forman Christian College, Lahore-Pakistan</p> <p>4. Resource person for CHEM DRAW training inter-universities (Lahore)</p> <p>5. 2<sup>nd</sup> International Conference on recent advances in Chemical Sciences held at Department of Chemistry GC University, Lahore</p> <p>6. Oral Talk in 3<sup>rd</sup> International Conference of Chemical and Pharmaceutical sciences: New trends in Medicinal and Pharmaceutical Chemistry held at Forman Christian College, Lahore-Pakistan</p> <p>7. IUPAC Global Women Breakfast Invited Talk ; Online Panelist and Invited lecture on Women Empowerment</p> <p>8. 19th International and 31st National Chemistry Conference on emerging trends in Chemistry 2021 University of Management Sciences; Title : S-Aralkylated 5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazole-3-thiols: As suitable Alzheimer's disease drug candidates</p> <p>9. <b>21st International, 1st Inter-Islamic, &amp; 33rd National Chemistry Conference on Chemical Sciences: Technology, Innovation &amp; Sustainability.</b> Synthetic triazole-based scaffolds: As potential anti-cholinesterase agents for neurodegenerative diseases &amp; also <b>Technical Session-IV Organic (Room 52)</b> Chair: Dr. Monazza Serwar Co-chair: Dr. Sabahat Zahra Siddiqui and abstract in abstract book of conference <b>Quaid-i-Azam University</b>, Islamabad.</p>	Aug, 2013 17 <sup>th</sup> - 19 <sup>th</sup> Jan, 2018 2018 20 <sup>nd</sup> -22 <sup>nd</sup> March, 2019 January 29 <sup>th</sup> -31 <sup>st</sup> 2020 3 <sup>rd</sup> March 2021 16-18th Dec 2021 Abstract book published No. 156 23-25 October, 2023
<b>Academic Honors</b>	<p><b>Split PhD Scholarship for University of Pennsylvania, USA</b> under "International Research Support Initiative Program" (19<sup>th</sup> Meeting for Split PhD- PIN: IRSIP 19 Ps 10) by <b>Higher Education Commission</b>, Pakistan.</p> <p><b>Certificate of Excellence/Shield</b> from the Department of Chemistry GC University, Lahore for providing services as B.Sc coordinator and Co-Advisor, Ravian forensic society GC University, Lahore.</p> <p><b>Acknowledgement of Services/Shield</b> from the Department of Chemistry GC University, Lahore for providing services as B.Sc coordinator, IRSIP Scholar (PhD) and Co-Advisor, Ravian forensic society GC University, Lahore.</p> <p>Qualified <b>NTS Subject Test- Chemistry</b> on with accumulative <b>67</b> score and <b>80.01</b> percentile.</p> <p><b>Merit certificate</b> for 5<sup>th</sup> Position in <b>M.Phil Chemistry</b> at Institute of Chemistry, Punjab University, Lahore</p> <p><b>Academic certificate of Merit</b> for securing 3<sup>rd</sup> Position in M.Sc Chemistry at GC University, Lahore.</p> <p><b>Academic Roll of Honor</b> in Graduate Study at Lahore College for Women University, Lahore.</p> <p><b>Awarded Grade A</b> in the subject of <b>Vocational Education</b> by Sacred Heart Cathedral High School, Lahore</p> <p><b>Letter of Appreciation</b> from the Department of Chemistry GC University, Lahore on conducting effectively "Inter Universities</p>	Aug, 2013 April, 2012 2014 2013 11 <sup>th</sup> Oct, 2010 16 <sup>th</sup> Dec, 2009 2004 2002 1998 12 <sup>th</sup> Sep, 2011

	Poster Competition". <b>Certificate of Merit</b> from the Department of Chemistry GC University, Lahore for "Outstanding Contribution in Departmental Development". <b>Acknowledgement of Services</b> to the Department of Chemistry GC University, Lahore for providing services in maintaining "Quality Assurance in the Department". <b>Letter of Appreciation</b> from the Department of Chemistry GC University, Lahore on conducting effectively the National workshop on "Crystallography: single crystal structure determination".	2010-2011  14 <sup>th</sup> July, 2009  25 <sup>th</sup> Aug, 2008 to 26 <sup>th</sup> Aug, 2008
<b>Membership</b>	1. Life Member- <b>Chemical Society of Pakistan</b> . 2. <b>IUPAC Affiliate 2017</b> 3. Ex Co-Advisor- <b>Dunnicliff Chemical Society</b> (2008-2011) GC University, Lahore. 4. Co-Advisor- <b>Ravian Forensic Society</b> (2012-till date) GC University, Lahore	
<b>HEC</b>	HEC Approved Supervisor since 2015	
<b>Affiliated Institute Examiner/ Thesis evaluator</b>	<p>Gabriel College Mandi Bhauddin/NICAAS College/PRFU College</p> <p><b>Paper Setter</b></p> <p>1. CHEM-2201 Theory Paper Setter of Final Examinations of BS (H) 2020 NICAAS College Rahim Yar Khan affiliated with GCU Lahore</p> <p>2. CHEM-2101 Organic Chemistry Paper Affiliated Institute 2018</p> <p>3. Paper Setter for Semester-II Final Examination 2021, CHEM-1101 Biochemistry-I for Lahore Medical and Dental College and Ruth PRAFU college of life sciences; Dated: 21-06-2021</p> <p>4. Marking of Answer Scripts for Semester-II Final Examination 2021, CHEM-1101 Biochemistry-I for Lahore Medical and Dental College and Ruth PRAFU college of life sciences; Dated: 18-10-2021</p> <p>5. External Examiner for Semester-II Final Examination 2021, CHEM-1101P Biochemistry-I (Practical) for Ruth PRAFU college of life sciences</p> <p>6. Paper Setter for Semester-V Final Examination 2021, CHEM-2201 Organic chemistry-II for Affiliated Institutions; Dated 02-12-2021</p> <p>7. Marking of Answer Scripts for Semester-VI Final Examination 2021, CHEM-2202 Organic chemistry for Affiliated Institutions; Dated 10-02-2021</p> <p>8. Marking of Answer Scripts for Semester-VI Final Examination 2021, CHEM-2202 Organic chemistry for Affiliated Institutions; Dated 02-12-2021</p> <p>9. External Examiner for Semester-V Final Examination 2021, CHEM-2201P Organic Chemistry (Practical) for NICAAS college; Dated 22-02-2021</p> <p>10. Paper Setter for Semester-VI Final Examination 2021, CHEM-3103 Organic chemistry-III for Affiliated Institutions; Dated 17-05-2021</p> <p>11. Marking of Answer Scripts for Semester-VI Final Examination 2021, CHEM-3103 Organic Chemistry-III for Affiliated Institutions; Dated 14-06-2021</p> <p>12. External Examiner for Semester-VI Final Examination 2021, CHEM-3103P Organic Chemistry-III (Practical) for NICAAS college; Dated 24-06-2021</p> <p>13. Faculty F.Sc recruitment paper setter, examiner and interviewer as Subject specialist Department of Chemistry GCU, Lahore</p> <p><b>Viva examiner</b></p> <p>1. LCWU; Lahore College of Women University</p> <p>2. Islamia College Cooper Road -Lahore</p> <p>3. Forman Christian College</p> <p>4. Minhaj University</p> <p>5. University of Education-Township</p> <p>6. Samanabad College</p> <p>7. Evaluation of thesis for BS (H) of Affiliated Colleges Queen Marry College, Lahore on 11th Jan 2021 at 10:00 AM; Roll No. 17667 Roll No. 17693</p> <p>8. Evaluation of thesis for BS(H) of Govt. Graduate College for Women Gulberg, Lahore on 16-08-2021</p>	

<b>Invigilation/External Examiner/University duties</b>	<ol style="list-style-type: none"> <li>Member of committee of verification of documents of BS (Hons.)</li> <li>Member of Departmental Purchase committees of (Department of Chemistry/SDSC; Sustainable Development Study Center)</li> <li>Member of Board of Faculty GC University, Lahore</li> <li>Viva examiner of LCWU; Lahore College of Women University, Samanabad College Lahore, Queen Mary College, Lahore, Government Islamia College, Lahore and UET University of Engineering &amp; Technology, Lahore</li> <li>External Examiner paper making &amp; marking/Syllabus counselor for Affiliated Institutes of GCU</li> <li>Dean's Science &amp; Technology's Representative for Campus Management System</li> <li>Women Conference convener at Falettie's Hotel</li> </ol>
<b>As Reviewer</b>	<ol style="list-style-type: none"> <li>Journal Of Heterocyclic Chemistry</li> <li>Annals of Medicine and Medical Research; 6th July 2019</li> <li>Archives of Medical Research; 8th Jan 2020</li> <li>Archiv der Pharmazie; 19th July 2019</li> <li>Reviewed of Biomedicine &amp; Pharmacotherapy Elsevier; (9th, 24th &amp; 30th July 2019) 20th March 2018</li> <li>Reviewed of Bioorganic; (13th Feb 2020 19-20th July 2019)</li> <li>Biomedicine &amp; Pharmacotherapy Elsevier Reviewer; 2nd April &amp; 7th May 2018 15th June 2019</li> <li>Carbohydrate polymer Elsevier; 5th Jun 2018</li> <li>Chiang Mai Journal of Sciences; 17th July 2019</li> <li>Journal of The Chilean Chemical Society; 17th March 2016</li> <li>Journal of Chemical Society of Pakistan; 27th July 2018</li> <li>Composite communications; 19th April 2018</li> <li>Heliyon; 28th Jan 2020</li> <li>Journal of Enzyme Inhibition and Medicinal chemistry; 14th June 2019</li> <li>Journal of Molecular Graphics and Modeling; 3rd Sep 2020</li> <li>Materials Today Proceedings; 7th Sep 2020</li> <li>Nano structures and Nano Objects; 23rd Apr 2020</li> <li>Elsevier; 25th Jun 2018</li> <li>Saudi Pharmaceutical Journal ; 4th Dec 2019</li> <li>Sustainable Chemistry and Pharmacy; 9th Oct 2019</li> <li>SNAPP (Springer Nature); 2021</li> <li>J of Molecular Structure; 2021</li> <li>Inorganic Chemistry Communications; 2021</li> <li>Phosphorous, Sulfur, Silicon and related elements 2023</li> <li>The journal of biological and chemical luminescence 2023</li> </ol>
<b>Extracurricular activities</b>	<ul style="list-style-type: none"> <li>1<sup>st</sup> Poster Session conducted by Dunnicliff Chemical Society of GC University on 12<sup>th</sup> January 2011.</li> <li>2<sup>nd</sup> Position in Poster Session - <i>International Workshop on Crystallography and Nanomaterials</i> conducted by Department of Chemistry GC University on 19<sup>th</sup> – 21<sup>st</sup> October 2011.</li> <li>Certificate of Participation in <i>International Workshop on Crystallography and Nanomaterials</i> conducted by Department of Chemistry GC University on 19<sup>th</sup> – 21<sup>st</sup> October 2011.</li> <li>Certificate of Participation &amp; Poster Presentation in <i>Inter Universities Poster Competition under the Celebration of IYC</i> conducted by Department of Chemistry GC University on 12<sup>th</sup> September 2011.</li> <li>Certificate of Merit Awarded by Dunnicliff Chemical Society of GC University on 27-04-2004.</li> <li>Certificate of Merit Awarded by Dunnicliff Chemical Society of GC University on 27-04-2004.</li> <li>1<sup>st</sup> position in <i>Quiz Competition</i> conducted by Biological Society of GC University on 26th April 2003.</li> <li>1<sup>st</sup> position in <i>Poetry Competition</i> awarded by Government Jinnah Degree College, Lahore.</li> <li>Certificate in <i>Relay Race</i> at Sacred Heart Cathedral High School, 1998.</li> <li>Certificate in <i>English Debates</i> at Sacred Heart Cathedral High School, 1998.</li> <li>Certificate in <i>Bazm-e-Adab</i> at Sacred Heart Cathedral High School, 1998.</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Certificate in Dramatics</b> at Sacred Heart Cathedral High School, 1998.</li> <li>• <b>Certificate in Dramatics</b> at Sacred Heart Cathedral High School, 1997.</li> <li>• <b>Certificate in creative writing (Urdu Poetry)</b> at Sacred Heart Cathedral High School, 1997.</li> <li>• <b>Certificate in Speech Competition</b> at Sacred Heart Cathedral High School, 1996.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Certificate in Dramatics</b> at Sacred Heart Cathedral High School, 1996.</li> <li>• <b>Certificate of Participation</b> in <i>Inter Departmental</i></li> </ul>
<b>Administrative experience</b>	<ol style="list-style-type: none"> <li>10. B.Sc Coordinator: (2012 – till date) Serving to arranging the examinations of various classes and assuring smooth and quality education.</li> <li>11. Member of Technical Committee: (18-08-2008 – till date) serving as member of technical committee for assurance of the quality of various chemicals, glass ware and equipments purchased for the department.</li> <li>12. Member Board of Faculty: Ravian Forensic society: (03-05-2010 till 28-10-2011) serving as co-advisor for the empowerment of the forensic science and society works for arranging annual functions, educational tours and invited lectures.</li> <li>13. Staff Secretary: (03-05-2010- till date) serving as staff secretary for the better coordination of the staff members of the department.</li> <li>14. Tutor: (29-08-2007 - till date) as Tutor No. 45/30, for guidance and moral improvement of the students.</li> <li>15. Departmental In charge Computer &amp; Accessories: (03-05-2010 till date) serving as departmental in charge computer &amp; accessories to facilitate the departmental activities.</li> <li>16. Coordinator Intermediate Program: (03-05-2010 till 28-10-2011) as a coordinator, for making the Program successful and ensure its running in a smooth way.</li> <li>17. Member of Departmental Quality Assurance Committee: (18-08-2008 till 28-10-2011) serving as a member for maintenance of quality and course outlines of the courses which the department offers.</li> <li>18. Co-Advisor Dunncliff Chemical society: (03-05-2010 till 28-10-2011) serving as co-advisor of Dunncliff Chemical Society, Department of Chemistry for the betterment of the society for arranging annual functions, educational tours and invited lectures.</li> <li>19. Stage secretary of organizing committee: (03-05-2010 till 28-10-2011) serving as secretary on invited lectures and workshops.</li> <li>20. In-charge Organopharmaceutical Lab and UV-Spectrophotometer: (2007-till 28- 10-2011)</li> <li>21. Member of Board of Studies in Chemistry: (06-05-2010 till 28-10-2011) Serving as member of Board of Studies in Chemistry for meeting about evaluation and approval of B.Sc/ MS/PhD thesis and research topics, curriculum design and launching of academic Programs</li> <li>22. Campus Management system working team (2018-2019)</li> <li>23. Team member faculty evaluation team under guidance of QEC: (18-08-2008 till date)</li> <li>24. PAT (Program Assessment Team Leader) Department of Chemistry GCU, Lahore</li> <li>25. Self-Assessment Report (Team Member) Department of Chemistry GCU, Lahore</li> <li>26. MSc (Entry Test) Conduction duty Department of Chemistry GCU, Lahore</li> <li>27. Annual Stock Checking Duty (Material Chemistry Lab and Breakage Register of all Labs of Department of Chemistry GCU, Lahore</li> <li>28. Entry Test interviews Fsc Pre-Medical and Engineering and also Kinship interviews FSc /GAT Tests papers marking and invigilation duties</li> <li>29. Examination invigilation duty</li> <li>30. Member Technical Committee Scientific Ravi, GCU Lahore</li> </ol>
<b>Faculty Development</b>	<ol style="list-style-type: none"> <li>1. “Developed Curriculum of Analytical Chemistry” at GC University, Lahore B.Sc (Hons) on 3rd Aug 2012.</li> <li>2. “Arranged Curriculum for B.Sc. (Hons.) Chemistry complete-HEC guidelines” at GC University.</li> <li>3. “Certified Master Trainer”-19th Mater Trainer Faculty Professional Development Program by Learning Innovation division, Higher Education Commission-Islamabad held on 6<sup>th</sup> Sep 2012 to 24<sup>th</sup> Oct 2012.</li> </ol>

<b>RESEARCH PROJECTS: 2015-2018</b>  <b>PKR:</b> 525,306/-  <b>Collaboration</b>	<p>Synthesis, characterization and Pharmacological evaluation of 2-{5-[(4-chlorophenoxy)methyl]-4-un/substitutedphenyl-4H-1,2,4-triazole-3-ylthio} alkanamides 603/ORIC/15; 22-10-15, GC University, Lahore.</p> <p>Collaboration with Universiti Teknologi MARA, Malaysia for spectral facilitation</p>
<b>Courses studied</b>	<ul style="list-style-type: none"> <li>• Modern Organic Synthesis</li> <li>• Gene Technology</li> <li>• Supramolecular &amp; Nanochemistry</li> <li>• Chemistry of Natural Products</li> <li>• Proteomics</li> <li>• Quality Assurance</li> </ul>
	<ul style="list-style-type: none"> <li>• Analytical Chemistry</li> <li>• Inorganic Chemistry</li> <li>• Biochemistry</li> <li>• Physical Chemistry</li> <li>• Industrial Process &amp; Quality Control</li> </ul>
<b>Scholarsh ip</b> (1 <sup>st</sup> Nov'11 till 30 <sup>th</sup> April'12)	<p>International research support initiative program (IRSIP)-Higher Education Commission of Pakistan for University of Pennsylvania-USA “UPENN” for 6 months.</p>
<b>Project UPENN, USA</b>	<p>Scale up studies for the synthesis of “Boron trifluoroborates” for “Organic syntheses”</p>
<b>Books</b>	<ol style="list-style-type: none"> <li>1 <b>Sabahat Zahra Siddiqui</b> and T. Muhamood, “Benzotriazoles and Benzimidazoles: Synthesis, characterization and antimicrobial activity of benzotriazoles, benzimidazoles and their derivatives”. LAP LAMBERT Academic Publishing GmbH &amp; Co. KG., Heinrich-Bocking-Str. 6-8, 66121, Saarbrucken, Germany. pp. 1-101 (2012). ISBN: 978-3-659-19094-0.</li> <li>2. Muhammad Athar Abbasi and <b>Sabahat Zahra Siddiqui</b>, “Synthetic 5-substituted-1,3,4-oxadiazole-2-thiols derivatives as viable therapeutic entrants for Alzheimer’s Disease”. LAP LAMBERT Academic Publishing GmbH &amp; Co. KG., Heinrich-Bocking-Str. 6-8, 66121, Saarbrucken, Germany. pp. 1-85 (2014). ISBN: 978-3-659-59528-8.</li> <li>3. Muhammad Athar Abbasi and <b>Sabahat Zahra Siddiqui</b>, “1-Amino-2-phenylethane derived sulfonamides as possible candidates for Alzheimer’s Disease” LAP LAMBERT Academic Publishing GmbH &amp; Co. KG., Heinrich-Bocking-Str. 6-8, 66121, Saarbrucken, Germany. (2014) ISBN: 978-3-659-63658-5.</li> <li>4. Muhammad Athar Abbasi and <b>Sabahat Zahra Siddiqui</b>, “Sulfonated derivatives of 2,4-Xyldine: Possible therapeutic agents” LAP LAMBERT Academic Publishing GmbH &amp; Co. KG., Heinrich-Bocking-Str. 6-8, 66121, Saarbrucken, Germany. (2014) ISBN: 978-3-659-63658-5.</li> <li>5. <b>Sabahat Zahra Siddiqui</b> and Maryam Shafique “Synthesis and spectral characterization of N-substituted sulfonamides derived from 4-Chlorobenzenesulfonyl Chloride” LAP LAMBERT Academic Publishing GmbH &amp; Co. KG., Heinrich- Bocking-Str. 6-8, 66121, Saarbrucken, Germany. (2014) ISBN: 978-3-659-63999-9.</li> <li>6. <b>Sabahat Zahra Siddiqui</b> and Maryam Shafique “N-substituted sulfamoylacetamides derived from 4-acetamidobenzenesulfonyl chloride as Chymotrypsin Inhibitors” LAP LAMBERT Academic Publishing GmbH &amp; Co. KG., Heinrich-Bocking-Str. 6-8, 66121, Saarbrucken, Germany. (2014) ISBN: 978-3-659-64891-5.</li> </ol>

**Travel**

- USA (Study- Split PhD IRSIP Program, HEC) for 6 Months to University of Pennsylvania, Philadelphia-USA.
- India (Travel visit) Several times
- Saudi Arabia
- Dubai

<b>References:</b>	Dr. M. Athar Abbasi (PhD Advisor/Associate Professor)	Department of Chemistry, GC University, Lahore-54000 Pakistan Cell: +92-333-4896380 , Tel. Off: +92-42-111000010 Ext. 449 E-mail: <a href="mailto:atrabbasi@yahoo.com">atrabbasi@yahoo.com</a>
	Dr. Aziz-ur-Rehman (Associate Professor)	Department of Chemistry , GC University, Lahore-54000 Pakistan Cell: +92-300-2697982, Tel. Off: +92-42-111000010 Ext. 449 E-mail: <a href="mailto:azizryk@hotmail.com">azizryk@hotmail.com</a>
	Gary A. Molander (Hirschmann-Makineni (Chair, Professor of Organic Chemistry)	Department of Chemistry, University of Pennsylvania, USA Office: 4001 IAST Phone: (215) 573-8604 Fax: (215) 573-7165 Email: <a href="mailto:gmolandr@sas.upenn.edu">gmolandr@sas.upenn.edu</a>

## Publications

- 1- **S.Z. Siddiqui**, Usama Waqas, Mehmant Akkurt, Aziz-ur-Rehman and Isalm Ullah Khan., 2- Amino-1,3-benzothiazol-3-ium dihydrogen phosphate., *Acta Cryst. E66*, o1929 (2010). **0.351 (2010)**
- 2- M.A. Abbasi, S.H. Ali, M. Ashfaq, Aziz-ur-Rehman, M.Z. Qureshi, **S.Z. Siddiqui** and V.U. Ahmad. 2,7-Dichlorofluorescein: A suitable complexing agent for the spectrophotometric determination of ofloxacin in pure and pharmaceutical dosage forms. *J. Chem. Soc. Pak.* 32(2), 172-175 (2010). **0.393**
- 3- M.A. Abbasi, A. Kausar, Aziz-ur-Rehman, H. Saleem, Sadia, M. Jahangir, **S.Z. Siddiqui** and V.U. Ahmad. Preparation of new formulations of anti-acne creams and their efficacy. *Afr. J. Pharm. Pharmcol.* 4(6), 298-303 (2010).
- 4- M.A. Abbasi, A. Raza, T. Riaz, T. Shahzadi, Aziz-ur-Rehman, M. Jahangir, D. Shahwar, **S.Z. Siddiqui**, A.R. Chaudhary and N. Ahmad. Investigation on the volatile constituents of *Juglans regia* and their *in vitro* antioxidant potential. *Proc. Pakistan Acad. Sci.* 47(3), 137-141 (2010).
- 5- M.A. Abbasi, A. Zafar, T. Riaz, Aziz-ur-Rehman, S. Arshad, D. Shahwar, M. Jahangir, **S.Z. Siddiqui**, T. Shahzadi, and M. Ajaib. Evaluation of comparative antioxidant potential of aqueous and organic fractions of *Ipomoea carnea*. *J. Med. Plants Res.* 4(18), 1883-1887 (2010).
- 6- M.A. Abbasi, T. Riaz, E. Anwar, Aziz-ur-Rehman, T. Shahzadi, **S.Z. Siddiqui**, M. Irshad and M. Ajaib. Comparative study on the volatile constituents of American and Pakistani almonds and their antioxidant activities. *Biosci. Res.* 7(1), 56-62 (2010).
- 7- M.A. Abbasi, Sadia, M. Jahangir, **S.Z. Siddiqui**, A. Kausar, H. Saleem, M. Ajaib and V.U. Ahmad. Preparation of new formulations of balm as a remedy of flu and their efficacy. *Hamdard Medicus* 53(4), 106-109 (2010).
- 8- M.A. Abbasi, A. Aslam, T. Riaz, Aziz-ur-Rehman, T. Shahzadi, **S.Z. Siddiqui**, M. Irshad and M. Ajaib. Investigation on the comparative antioxidant potential of various fractions of *Vitex negundo* of Pakistani origin. *Biosci. Res.* 8(1), 01-07 (2011).
- 9- M.A. Abbasi, S. Arshad, T. Riaz, Aziz-ur-Rehman, A. Zafar, **S.Z. Siddiqui**, T. Shahzadi, and M. Ajaib. *In vitro* assessment of relief to oxidative injury by different samples of *Xanthoxylum armatum*. *Asian J. Chem.* 23(8), 3353-3356 (2011). **0.14**
- 10- T. Shahzadi, M.A. Abbasi, T. Riaz, Aziz-ur-Rehman, **S.Z. Siddiqui** and M. Ajaib. *Caryopteris odorata*: A Rich Source of antioxidants for protection against chronic diseases and food products. *J. Chil. Chem. Soc.* 56(2), 678-681 (2011). **0.463**
- 11- M.A. Abbasi, A. Kausar, Aziz-ur-Rehman, M.I. Umar, **S.Z. Siddiqui** and V.U. Ahmad. Preparation of new formulations of perfumes and their persistency. *Hamdard Medicus* 54(2), 78-81 (2011).
- 12- **S.Z. Siddiqui**, M.A. Abbasi, Aziz-ur-Rehman, T. Riaz, T. Shahzadi, M. Ajaib and K.M. Khan. *Olea ferruginea*: A potential natural source of protection from oxidative stress. *J. Med. Plants Res.* 5(17), 4080-4086 (2011).
- 13- T. Riaz, M.A. Abbasi, T. Shahzadi, Aziz-ur-Rehman, **S.Z. Siddiqui** and M. Ajaib. *Colebrookia oppositifolia*: A valuable source of natural antioxidants. *J. Med. Plants Res.* 5(17), 4180-4187 (2011).
- 14- M.A. Abbasi, K. Nazir, T. Shahzadi, T. Riaz, Aziz-ur-Rehman, **S.Z. Siddiqui** and M. Ajaib., *Acrachne racemosa*: a

potent source for natural antioxidants., *Asian J. Phram. Bio. Res.* 1(3), 376-383 (2011).

15- Aziz-ur-Rehman, S. Gulzar, M.A. Abbasi, T. Shahzadi, T. Riaz, **S.Z. Siddiqui** and M. Ajaib. *In vitro* assessment of protection from oxidative stress by various fractions of *Artemisia incisa* Pamp. *J. Serb. Chem. Soc.* 76(10), 1379-1386 (2011). **0.917**

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