

Dr. AGHA ZEESHAN MIRZA

Makkah, Saudia Arabia

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Date of Birth: October 15, 1980

Work Experience

2012-present **Assistant Professor**
Umm Al Qura University

Makkah
Saudi Arabia

Teaching:

- B.Sc. (Chemistry) Courses
- General Chemistry, Chemistry of Aromatic and Aliphatic Compounds
Practical course: Petroleum, Organic Reactions and Preparations, Analytical and Eletrochemistry
- Supervised three final year students research projects in Faculty of Pharmacy

Research

- Successfully completed AAAS reviewed (2 Million SAR) KACST project entitled “**Preparation and Development Through Computer-Aided Molecular Drug Design of Isoxazolidine Nucleosides and Isoxazolidinyl and Nucleosidyl Podophyllotoxin Derivatives with Potential Antiviral and Anticancer Activities**” as Co PI.

Under Progress

- Designed (0.6 Million SAR) KACST project entitled “**Preparation and Development through Computer-Aided Drug Design of bifunctional Hybrid agents with combined anti hyperglycemic anticancer activities and antihyperglycemic cardioprotective activities**” (Project no. 13-MED729-10). Accepted from AAAS and KACST.
- Working on (0.14 Million SAR) DSR project entitled “**Design and synthesis of novel thiazolidinedione derivatives for anti-diabetic, antioxidant and antiglycation activities**”.

Submitted

- Designed, conceived and submitted (Cost 599149/- SAR) GPURC project entitled “**Synthesis of heterocyclic nucleosides and phosphono-nucleosides as anticancer agents through Computer-Aided Molecular Modeling and their anticancer studies**” (Project No. 2-17-03-007-0001).
- Designed and submitted (Cost 200000/- SAR) DSR project entitled “**Designing Heterogeneous gold based bimetallic nano-alloy catalysts for the one pot synthesis of phthalic anhydride from o-Xylene oxidation**” as Co PI.

2010-2012 **Principal Chemist R & D**
Intertek Pakistan (Pvt.) Ltd.

Karachi
Pakistan

- Responsible for maintaining and organizing R&D department for the first time in Intertek Pakistan (Pvt.) Ltd.
- Developed number of simultaneous and single HPLC methods for detecting drugs, melamine, vitamins, sudan dyes and other testing chemicals
- Developed microbiological pathogens testing facilities for the first time in Intertek Pakistan (Pvt.) Ltd.
- Developed laboratory section of R&D budget; manages within budget.
- Developed training protocols and provide training to R&D analytical staff.
- Participated in project management activities and as requested, supports and may represent R&D on project teams on various R&D projects

2004-2005	Chemist ENAR Petrotech (Petroleum Refining Facility)	Karachi Pakistan
2003-2004	Trainee Production Officer Abbott Laboratories (Pakistan) Limited. <ul style="list-style-type: none"> Conducted routine in-process checks for raw material dispensing, oral solid and liquid drug forms manufacturing and finished products packaging Developed write ups and review of SOPs for production control and systems 	Karachi Pakistan
Education 2009	Purdue University Visiting Researcher Department of Agricultural and Biological Engineering	Indiana USA
2005-2011	University of Karachi Department of Chemistry PhD in Pharmaceutical Chemistry	Karachi Pakistan
2002-2003	University of Karachi Department of Chemistry M.Sc. Organic Chemistry	Karachi Pakistan
1999-2000	University of Karachi B.Sc. Chemistry, Physics, Math	Karachi Pakistan
Research	<ul style="list-style-type: none"> Conducted research on synthesis of gold nanoparticles and functionalization with biomolecules for biodetection applications. Used Surface Plasmon Resonance (SPR) and Raman Spectroscopy for detection of diseases biomarkers in <i>in vitro</i> settings. These nanomaterials were characterized through different spectroscopic techniques i.e., UV/vis-NIR spectroscopy, IR and Raman spectroscopy and TEM analysis. Significant work was done on Computational Chemistry, drug interactions, synthesis of derivatives, drug metal complexes and characterization using UV spectrophotometry, HPLC, IR and NMR, Conductometer, Atomic Absorption and CHN elemental analysis. Analysis of different co-administered drugs has been done through UV/vis spectrophotometry and HPLC. GC mass and Rotary Evaporator were also used. 	
Workshop and Certificate Courses		
2013	Umm Al Qura University Workshop on E-learning Environment and Build Content Workshop on Course Management 2	Makkah KSA
2011	National Productive Organization (Ministry of Industries Government of Pakistan) Training Program on Method Validation	Karachi
2010	Departments of Physics and Applied Physics (University of Karachi and Radiance Foundation Karachi) Workshop on “Nanotechnology: An Overview and Applications”	Karachi

2008	Seminar on Atomic Absorption spectrometer by We Brothers Scientific in collaboration with VARIAN Incorporation USA.	Karachi
2008	Mathematical Sciences Research Centre (Federal Urdu University of Arts, Sciences and Technology) Proficiency enhancement program on Drug Stability.	Karachi
2007	Institute of Environmental Studies (University of Karachi) Workshop on “Biosafety, Health and Environment: A New Frontier”.	Karachi
2006	Dr. Panjwani Centre for Molecular Medicine and Drug Research (University of Karachi) National Workshop on Biotechnology Training and Activities in Allergy Vaccines Development in Pakistan.	Karachi
2005	HEJ Research Institute of Chemistry (University of Karachi) Completed certificate course on “X-ray Crystallography”. Completed course work on “Quantum Mechanics”.	Karachi
2005	National Centre of Excellence in Analytical Chemistry (University of Sindh) Completed instrumental training Program on HPLC and GLC.	Jamshoro
2005	University of Karachi Workshop on “Introduction to Digital Library Resources and their Effective Usage” arranged by HEC.	Karachi
2002	Department of Chemistry (University of Karachi) Computer short course	Karachi
Online Courses		
2013	Completed course “Writing in the Sciences” from Stanford University USA (Stanford Online OpenEdX).	
2006	Completed course on “Human Participant Protection Education for Research Teams” sponsored by National Institute of Health (NIH) USA.	
Conference & Seminar		
2013	Attended 1 st International Scientific Meeting on Emerging Molecular Targets in Cancer Therapy and Drug Development	Makkah (KSA)
2010	Attended 4 th Saudi Science Conference	Madinah (KSA)
2010	Attended 5 th Pharmacognosy Conference 2010	Karachi (Pak)
2010	Attended 12 th International Symposium on Natural Product Chemistry	Karachi (Pak)
2010	Attended 1 st International Symposium on Nano Chemistry	Karachi (Pak)
2009	Attended 2 nd International Symposium cum Training Course on Molecular Medicine and Drug Research.	Karachi (Pak)

2007	Attended 7 th International and 17 th National Chemistry Conference.	D.I.Khan (Pak)
2007	Attended International Chemistry Conference.	Lahore (Pak)
2007	Attended 7 th Annual Conference of Society of Pharmacovigilance.	Jaipur (India)
2006	Attended 10 th International Symposium on Natural Product Chemistry.	Karachi (Pak)
2006	Attended 6 th International and 16 th National Chemistry Conference.	Multan (Pak)
2006	Attended 1 st International Chemistry Conference.	Faisalabad
2005	Attended 1 st International Conference on Environmental Horizon.	Karachi (Pak)

Membership Associate Editorial Board Member of “Current Organic Chemistry” (Bentham Sciences)
 Associate Editorial Board Member of “Coronaviruses” (Bentham Sciences)
 Associate Editor of “American Journal of Biomedical Science & Research”
 Member Editorial Advisory Board of “Asian Journal of Medicinal and Analytical Chemistry”
 Member Editorial Advisory Board of “Journal of Nanotechnology in Diagnosis and Treatment”
 Member Editorial Board of “Journal of New Developments in Chemistry”
 American Nano Society (Full member)
 Chemical Society of Pakistan (Student Member)
 Directory of Chemist of Pakistan with Industrial Experience by NCGC
 Reviewer of Journal of Nanoparticle Research
 Reviewer of Colloids and Surfaces B: Biointerfaces
 Reviewer of Journal of AOAC International
 Certificate of Outstanding Contribution in Reviewing Spectrochimica Acta Part A (2017)

Scholarship awarded

2008 International Research Support Initiative Program
2005 Indigenous 5000 fellowship program Batch II (Doctoral Program)
 (Higher Education Commission of Pakistan)

Research Profiles

Google Scholar: <https://scholar.google.com/citations?user=wcuukTcAAAAJ&hl=en&oi=ao>

Research ID: <http://www.researcherid.com/rid/B-3151-2008>

Publons: <https://publons.com/a/1373587>

ORCID: <http://orcid.org/0000-0003-2688-8215>

Research Publications

2020

- 47 Somia Gul, Humera Khatoon, Nameera Ahmed, Haneen Rashid, **Agha Zeeshan Mirza**, Possible role of grape fruit in controlling hyperglycemia and associated complications: Better glyceic control in healthy subjects through fruits fibers as compared to fruit juices, *Bangladesh Journal of Medical Science*, 19 (3) 480-485.
- 46 Asma Rafiq, Somia Gul, Arzoo Ajaz, Sakina Fatima and **Agha Zeeshan Mirza**, Quantitative analysis of Pantoprazole Sodium Sesquihydrate in bulk and solid dosage form via UV-Spectrophotometric method, *Indian Journal of Pharmaceutical Education and Research*, (2020), 54 (2), 448-455.
- 45 Hina Shamshad, Abdul Hafiz, Ismail I. Althagafi, Maria Saeed and **Agha Zeeshan Mirza**, Characterization of the *Trypanosoma brucei* Pteridine Reductase Active-Site using Computational Docking and Virtual Screening Techniques, *Current Computer-Aided Drug Design*, 2020, 15.

2019

- 44 Najma Sultana, M. Saeed, Ahsan Zamir Siddiqi and **Agha Zeeshan Mirza**, Synthesis and antibacterial studies of ciprofloxacin-metal complexes, *Journal of Chinese Pharmaceutical Sciences*, (2019), 28 (6), 422–429.
- 43 **Agha Zeeshan Mirza**, Advancement in the development of heterocyclic nucleosides for the treatment of cancer - A review, *Nucleosides, Nucleotides and Nucleic Acids*, (2019) 38 (11), 836–857.
- 42 **Agha Zeeshan Mirza**, Ismail I. Althagafi and Hina Shamshad, Role of PPAR receptor in different diseases and their ligands: Physiological importance and clinical implications, *European Journal of Medicinal Chemistry*, (2019), 166, 502–513.
- 41 **Agha Zeeshan Mirza** and Hina Shamshad, QSAR and docking studies on piperidyl-cyclohexylurea derivatives for prediction of selective and potent inhibitor of matriptase, *Current Computer-Aided Drug Design*, (2019), 15 (2), 167–181.
- 40 **Agha Zeeshan Mirza** and Hina Shamshad, Fabrication and characterization of doxorubicin functionalized PSS coated gold nanorod, *Arabian Journal of Chemistry*, (2019), 12 (1), 146–150.

2018

- 39 Majdi M. Bkhaitan, Mohammed Alarjah, **Agha Zeeshan Mirza**, Ashraf N. Abdalla, Hamdi M. El-Said, Hani S. Faidah, Preparation and biological evaluation of metronidazole derivatives with monoterpenes and eugenol, *Chemical Biology & Drug Design*, (2018), 92:1954–1962.
- 38 **Agha Zeeshan Mirza**, HPLC-UV method for simultaneous determination of irbesartan, candesartan, gliquidone and pioglitazone in formulations and in human serum, *Journal of Chinese Pharmaceutical Sciences*, (2018), 27 (4), 273–280.
- 37 Majdi M Bkhaitan, **Agha Zeeshan Mirza**, Spectrophotometric method for determination of meclizine in pure and dosage form via ion pair complex formation using eosin Y, *Current Pharmaceutical Analysis*, 2018, 14 (2), 95–100.

2017

- 36 Majdi M. Bkhaitan, **Agha Zeeshan Mirza**, Ashraf N. Abdalla, Hina Shamshad, Zaheer Ul-Haq, Mohammed Alarjah and Anna Piperno, Re-profiling of full-length Phosphonated Carbocyclic 2'-Oxa-3'-Aza nucleosides towards antiproliferative agents: Synthesis, Antiproliferative activity and molecular docking study, *Chemical Biology & Drug Design*, 2017, 90, (5), 679–689.
- 35 Majdi M. Bkhaitan, **Agha Zeeshan Mirza**, Hina Shamshad, Hamed I. Ali, Design, Molecular Docking Study, and ADME Predictions of Isoxazolidine Podophyllotoxin Derivatives for Potential Antitumor Activity, *Journal of Molecular Graphics and Modelling*, (2017), 73, 74–93.
- 34 **Agha Zeeshan Mirza**, M. Saeed, Najma Sultana, HPLC method development, validation and its application to investigate *in vitro* effect of pioglitazone on the availability of H₁ receptor antagonists, *Journal of Association of Arab Universities for Basic and Applied Sciences*, (2017), 22, 70–75.

2016

- 33 Majdi M Bkhaitan and **Agha Zeeshan Mirza**, A novel quantitative spectrophotometric method for the analysis of vigabatrin in pure form and in pharmaceutical formulation, *Current Pharmaceutical Analysis*, 2016, 12 (4), 365-370.

2015

- 32 Majdi M Bkhaitan and **Agha Zeeshan Mirza**, Stability-indicating HPLC-DAD method for simultaneous determination of atorvastatin, irbesartan, and amlodipine in bulk and pharmaceutical preparations, *Bulletin of the Korean Chemical Society*, (2015) 36, (9) 2230–2237.
- 31 **Agha Zeeshan Mirza** and Farhan Ahmed, New, simple and validated UV-spectrophotometric methods for the estimation of pyridoxine hydrochloride in bulk and formulation, *Bulgarian Chemical Communications*, (2015) 47, (1) 131 – 134.
- 30 **Agha Zeeshan Mirza**, A novel drug delivery system of gold nanorods with doxorubicin and study of drug release by single molecule spectroscopy, *Journal of Drug Targeting*, 2015, 23(1): 52–58.

2014

- 29 **Agha Zeeshan Mirza**, M. Saeed and Najma Sultana, Method development and validation of amlodipine, gliquidone and pioglitazone: Application in the analysis of human serum, *Analytical Chemistry Letters*, (2014) 4: 5-6, 302-312.
- 28 **Agha Zeeshan Mirza** and Farhan Ahmed, Nanomedicine and drug delivery: a mini review, *International Nano Letters* (2014) 4, art. no. 94, 1-7, DOI 10.1007/s40089-014-0094-7.
- 27 Nawab Sher, Farhan Ahmed Siddiqui, Najmul Hasan, Nighat Shafi, Arif Zubair and **Agha Zeeshan Mirza**, Simultaneous determination of antihistamine anti-allergic drugs, cetirizine, domperidone, chlorphenamine maleate, loratadine, meclizine and buclizine in pharmaceutical formulations, human serum and pharmacokinetics application, *Analytical Methods*, 2014, 6, 2704-2714.

2013

- 26 Farhan Ahmed, Nawab Sher, Hina Shamshad, Nighat Shafi and **Agha Zeeshan Mirza**, Analysis of metformin, glimepiride and pioglitazone in human serum and its application to pharmacokinetics, *Analytical Methods*, 2013, 5, 5096–5104.
- 25 **Agha Zeeshan Mirza** and Hina Shamshad, A versatile approach for the functionalization of gold nanorods and nanoparticles, *Journal of Nanoparticle Research*, (2013) 15 (1), art. no. 1404.
- 24 **Agha Zeeshan Mirza**, M. Saeed, Najma Sultana, RP-LC method for the simultaneous determination of gliquidone, pioglitazone hydrochloride and atorvastatin in formulations and human serum, *The Journal of AOAC INTERNATIONAL*, (2013) 96 (1), 56-59.
- 23 **Agha Zeeshan Mirza**, M. Saeed, Najma Sultana and Faiza Qureshi, Spectroscopic study to characterize *in vitro* interaction of losartan with gliquidone and pioglitazone, *Medicinal Chemistry Research* (2013) 22, (1) 351-359.

2012

- 22 Shabana Naz, **Agha Zeeshan Mirza**, Hina Shamshad, Nighat Shafi and Asia Naz, Physical and chemical characterization of mefenamic acid in different pharmaceutical dosage forms and their stability studies using novel RP-HPLC method, *Medicinal Chemistry Research*, (2012), 21, (11) 3591-3597.
- 21 Najma Sultana, M. Saeed, Moona Mehboob Khan, Darakhshan M. Saleem and **Agha Zeeshan Mirza**, Determination of Tryptophan in Raw Materials, Rat Brain and Human Plasma by RP-HPLC Technique, *Journal of Chromatographic Sciences*, (2012) 50 (6): 531-537.

2011

- 20 **Agha Zeeshan Mirza** and Hina Shamshad, Preparation and characterization of doxorubicin functionalized gold nanoparticles, *European Journal of Medicinal Chemistry*, (2011) 46 1857-1860.
- 19 Farhan Ahmed, **Agha Zeeshan Mirza**, M. Hashim Zuberi and Faiza Qureshi, Optimization of quantitative analysis of buclizine hydrochloride using UV spectrophotometry in bulk drug and dosage formulations, *Medicinal Chemistry Research*, (2011) 20 (1)121-124.
- 18 Najma Sultana, M. Saeed, Hina Shamshad, **Agha Zeeshan Mirza**, Asia Naz, Beenish Fatima, M. Asif and M. Ahmed Mesaik, Synthesis, characterization and biological activities of cetirizine analogues, *Spectroscopy-Biomedical Applications*, (2011) 26 (4-5) 317-328.
- 17 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza**, Simultaneous determination of gliquidone, pioglitazone hydrochloride and verapamil in formulation and human serum by RP-HPLC, *Journal of Chromatographic Sciences*, (2011) 49(2)114-117.

2010

- 16 Farhan Ahmed, M. Saeed, Najma Sultana, **Agha Zeeshan Mirza**, M. Hashim Zuberi and Faiza Qureshi, Facile and manifest spectrophotometric methods for the determination of six quinolone antibiotics in pharmaceutical formulations using iron salts, *Medicinal Chemistry Research*, (2010)19(9)1259–1272.
- 15 M. Saeed, Najma Sultana, Hina Shamshad and **Agha Zeeshan Mirza**, Drug interaction studies of gliquidone with fexofenadine, cetirizine and levocetirizine, *Medicinal Chemistry Research*, (2010)19(9)1064–1073.
- 14 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza** and Hina Shamshad, High-performance liquid chromatographic analysis of pioglitazone, gliquidone, rosuvastatin and simvastatin in formulations and human serum, *Chinese Journal of Chemistry*, (2010) 28(10), 1998-2002.
- 13 M. Saeed, Najma Sultana, Farhan Ahmed and **Agha Zeeshan Mirza**, Determination and Quantification of Piracetam and Its Four Impurities by RP-HPLC with UV Detection, *Journal of Chromatographic Sciences*, (2010) 48 (7)589-594.
- 12 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza** and Farhan Ahmed, (2010) Validated RP-HPLC method for quantitation of gliquidone in pharmaceutical formulation and human serum, *Journal of Chilean Chemical Society*, 55(2) 156-158.

- 11 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza** and Farhan Ahmed, Simultaneous Determination of Gliquidone, Fexofenadine, Buclizine and Levocetirizine in dosage formulation and human serum by RP-HPLC. *Journal of Chromatographic Sciences*, (2010) 48 (5) 382-385.
- 10 Farhan Ahmed, M. Saeed, Najma Sultana, Faiza Qureshi, **Agha Zeeshan Mirza**, Hashim Zuberi, Saima Sher, Nawab Sher, Hina Shamshad and Nadia Rehman, Spectrophotometric determination of gabapentin in pharmaceutical formulations using ninhydrin and π -acceptors, *European Journal of Medicinal Chemistry*, (2010) 45(7) 2761-2767.
- 9 M. Saeed, Najma Sultana, Sajida Naseem and **Agha Zeeshan Mirza**, Drug interaction studies of H₂-receptor antagonists with mefloquine, pyrimethamine and sulfadoxine, *Medicinal Chemistry Research*, (2010) 19(2)136–156.
- 2009**
- 8 Farhan Ahmed, M. Saeed, Najma Sultana, Faiza Qureshi, **Agha Zeeshan Mirza** and Hina Shehnaz, Quantitative Determination of Fluoroquinolonic Antibiotics: Pefloxacin, Norfloxacin, Ciprofloxacin and Ofloxacin in Pharmaceutical Preparations and Human Serum by High-Performance Liquid Chromatography Using Multi-Wavelength Calibration Technique, *Chem. Anal. (Warsaw)*, (2009) 54(6), 1465-1485.
- 7 M. Saeed, Najma Sultana, Faiza Qureshi, Farhan Ahmed, **Agha Zeeshan Mirza**, Saima Sher Bahadur and M. Hashim Zuberi, Simultaneous Determination of Tranexamic Acid and Losartan Potassium in Dosage Formulations and Human Serum by RP-LC, *Chromatographia*, (2009), 70 (5/6), 789–795.
- 6 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**, Preparation and spectroscopic characterization of metal complexes of gliquidone, *Journal of Molecular Structure*, (2009) 927(1-3), 54-59.
- 2008**
- 5 M. Saeed, Najma Sultana, M. Afzal and **Agha Zeeshan Mirza**, Interaction studies of cephradine with H₂ receptor antagonists, *Journal of Chemical Society of Pakistan*, (2008) 30(5) 734-739.
- 4 M. Saeed, Najma Sultana, Farhan Ahmed, **Agha Zeeshan Mirza** and M. Hashim Zuberi, Spectrophotometric techniques to determine tranexamic acid; kinetic studies using ninhydrin and direct measuring using ferric chloride, *Journal of Molecular Structure*, (2008) 891 (1-3) 475-480.
- 2007**
- 3 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza**, M. Hashim Zuberi and Farhan Ahmed. *In vitro* hypoglycemic activity of methanolic extract of some indigenous plant, *Pakistan Journal of Pharmaceutical Sciences*, (2007) 20(4): 268-73.
- 2 M. Saeed, Najma Sultana, Farhan Ahmed, M. Hashim Zuberi and **Agha Zeeshan Mirza**, Spectrophotometric methods for the simultaneous analysis of meclizine hydrochloride and pyridoxine hydrochloride in bulk drug and pharmaceutical formulations, *Pakistan Journal of Pharmaceutical Sciences*, (2007) 20(2): 149-156.

2006

- 1 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**, Spectrophotometric method for quantitative determination of gliquidone in bulk drug, pharmaceutical formulations and human serum, *Pakistan Journal of Pharmaceutical Sciences*, (2006) 19(3): 185-189.

Abstracts in Conferences

- 9 M. Saeed, Najma Sultana, Farhan Ahmed and **Agha Zeeshan Mirza**, Stability indicating method for the determination of piracetam and its four impurities by RP-HPLC with UV detection, TC-PO6, 19 CONFERENCIA DE QUIMICA. CUBA 15-18 December, 2008, Santiago de Cuba City
- 8 M. Saeed, Najma Sultana, Farhan Ahmed, F. Qureshi, **Agha Zeeshan Mirza** and M. Hashim Zuberi, Spectrophotometric determination of gabapentin in pharmaceutical formulations using ninhydrin and π -acceptors, QA-PO7, 19 CONFERENCIA DE QUIMICA. CUBA 15-18 December, 2008, Santiago de Cuba City
- 7 M. Saeed, Najma Sultana, Farhan Ahmed, **Agha Zeeshan Mirza** and M. Hashim Zuberi Kinetic spectrophotometric determination of tranexamic acid using ninhydrin and direct measuring using ferric chloride, QA-PO6, 19 CONFERENCIA DE QUIMICA. CUBA 15-18 December, 2008, Santiago de Cuba City.
- 6 M. Saeed, Najma Sultana, Farhan Ahmed, **Agha Zeeshan Mirza** and M. Hashim Zuberi, Facile and manifest spectrophotometric methods for the determination of six quinolone antibiotics in pharmaceutical formulations using iron salts, QA-C1, 19 CONFERENCIA DE QUIMICA. CUBA 15-18 December, 2008, Santiago de Cuba City.
- 5 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza** and Faiza Qureshi, Drug Interaction Studies of Losartan with antidiabetic drugs using Spectroscopic and Chromatographic techniques, 7th Annual Conference of Society of Pharmacovigilance (India), National Institute of Medical Sciences, November 23-25, 2007, Jaipur India.
- 4 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**. Drug Interactions of Gliquidone with H₁ receptor antagonists, International Chemistry Conference, "Recent Advances in Chemistry" November, 2-3 2007, Department of Chemistry, Lahore College for Women University, Lahore, Page 44.
- 3 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**, Drug Interaction Studies of Cephridine with H₂ receptor antagonists. 7th International & 17th National Chemistry Conference Excellence through Innovation, February 26-28, 2007 Department of Chemistry, Gomal University, Dera Ismail Khan.
- 2 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza**, Zuberi M.H.and Siddiqui F.A. Hypoglycemic Activity of Methanolic Extract of Some Indigenous Plant, 1st International Chemistry Conference, November 1- 3, 2006, GC University, Faisalabad, Pakistan. Pg 29.
- 1 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**. Synthesis and characterization of gliquidone metal complexes. 6th International & 16th National Chemistry Conference, Quality of life and chemical sciences, April 6-8, 2006 Department of Chemistry, Bahauddin Zakariya University, Multan. Page-184.

Posters in Conferences

- 11 M. Saeed and Najma Sultana, M. Hashim Zuberi, **Agha Zeeshan Mirza** and Farhan Ahmed, *In vitro* studies of interaction between metformin and NSAIDs using spectrophotometry and RP-high performance liquid chromatography, 4th Saudi science Conference, March 21-24th, 2010, Taibah University, Al-Madinah Al Munawwarrah, KSA.

- 10 **Agha Zeeshan Mirza**, M. Saeed and Najma Sultana, Simultaneous determination of gliquidone, pioglitazone hydrochloride and atorvastatin, (P-74), 21st International Symposium on Pharmaceutical and Biomedical Analysis from 11-14 October 2009 at the Hilton Walt Disney Resort, Orlando, USA.
- 9 **Agha Zeeshan Mirza**, M. Saeed and Najma Sultana, Simultaneous determination of gliquidone, pioglitazone, irbesartan and candesartan in dosage formulation and human serum by RP-HPLC, PAQ28, p-595. 34th International Symposium on High Performance Liquid Phase Separations and related Techniques, July 28- June 02, 2009. Germany.
- 8 M. Saeed, Najma Sultana, Farhan Ahmed and **Agha Zeeshan Mirza**, Simultaneous Determination of Paracetamol, Tizanidine and Diclofenac in Pharmaceutical Formulations and in Human Serum by RP-HPLC, p-96, Post-3, Taibah International Chemistry Conference–2009. March 23–25, 2009 Al-Madinah Al Munawwarah, Saudi Arabia.
- 7 **Agha Zeeshan Mirza**, M. Saeed and Najma Sultana, Simultaneous Determination of Gliquidone, Fexofenadine, Buclizine and Levocetirizine in dosage formulation and human serum by RP-HPLC. (Poster) 2nd International Symposium cum Training Course on Molecular Medicine and Drug Research (MMDR-2), January 12-15, 2009, Karachi, Pakistan.
- 6 **Agha Zeeshan Mirza**, M. Saeed and Najma Sultana, *In vitro* drug Interaction of gliquidone with verapamil, 8th Annual Conference of Society of Pharmacovigilance (India), January 09-11, 2009, Kolkata India. Page-56.
- 5 M. Saeed, Najma Sultana, Hina Shamshad, Malik Asia Naz, Nighat Shafi, **Agha Zeeshan Mirza** and Shabana Naz Shah, Physical and chemical characterization of mefenamic acid in different pharmaceutical dosage forms and their stability studies using novel RP-HPLC method, 8th Annual Conference of Society of Pharmacovigilance (India), January 09-11, 2009, Kolkata India. Page-53.
- 4 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**, Drug Interaction Studies of gliquidone with quinolones using RP-HPLC 11th International symposium on Natural Product Chemistry, October 29- November 01, 2008 H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Page-85.
- 3 M. Saeed, Najma Sultana, **Agha Zeeshan Mirza** and Farhan Ahmad, Determination and Quantification of Piracetam and Its Four Impurities by RP-HPLC with UV Detection (Poster) P-0756-T. 32nd International Symposium on High Performance Liquid Phase Separations and related Techniques, May 10-16, 2008, Baltimore, MD, USA.
- 2 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**, Simultaneous Determination of Gliquidone, Pioglitazone Hydrochloride, Rosvastatin and Simvastatin Using RP-HPLC (Poster) P-0754-T, 32nd International Symposium on High Performance Liquid Phase Separations and related Techniques, May 10-16, 2008, Baltimore, MD, USA.
- 1 M. Saeed, Najma Sultana and **Agha Zeeshan Mirza**. Gliquidone interaction with Aluminum, Bismuth, Lead and Arsenic. (Poster). 10th International symposium on Natural Product Chemistry, January 6-9, 2006 H.E.J. Research Institute of Chemistry, University of Karachi, Karachi. Page-230.

References

- 1 Dr. Joseph Irudayaraj
Founder Professor in Bioengineering
Associate Head of Graduate Programs
3102 Micro and Nanotechnology Lab
University of Illinois at Urbana-Champaign
(217) 300-0525
Email: jirudaya@illinois.edu

- 2 Dr. Aeraj ul Haque
Patent agent
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- 3 Dr. Majdi M. Bkhaitan
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