

# CURRICULUM VITAE

**SHAFQAT HUSSAIN**  
University of Baltistan Skardu, Gilgit-Biltistan



## **PERSONAL DETAILS:**

Father's Name	Mr. Alif Shah
Date of Birth	17 <sup>th</sup> July 1982
Religion	Islam
Nationality	Pakistani
Domicile	Gilgit
Marital Status	Married
Gender	Male
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## **CURRENT STATUS:**

Head, Department of Chemistry, University of Baltistan, Kargil Road Skardu, Gilgit-Biltistan, Pakistan

## **ACADEMIC RECORD:**

### **INTERNATIONAL GRE SUBJECTIVE (CHEMISTRY) CONDUCTED BY ETS, USA:**

Attempted on November, 2011; 60 Percentile.

### **Ph. D. (ORGANIC CHEMISTRY)**

Completed in January 2015, "H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan",

I joined Department of Chemistry Karakoram International University Gilgit as Assistant Professor in 20<sup>th</sup> May, 2015 on Interplacement Program Higher Education Commission, Pakistan.

Currently I am serving as Assistant Professor (TTS) Department of Chemistry, University of Baltistan, Skardu

### **Detail of Courses:**

- **Total Synthesis of Natural Products**
- **Survey of Mass Spectrometry**
- **Findings from Mass Spectrometric Data and how to solve the mass spectra**
- **Hazards of chemical laboratories and industries**

### **M. Phil. (CHEMISTRY) COURSE WORK:**

From "H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan", in 2012.

### **Detail of Courses:**

1 CHEM-701

General Spectroscopy

2	CHEM-702	<b>Mechanism, Structure and Reactivity</b>
3	CHEM-703	<b>Stereochemistry</b>
4	CHEM-704	<b>Practical-I</b>
5	CHEM-705	<b>Biosynthesis and Isolation of Natural Products And Bioassay Screenings</b>
6	CHEM-706	<b>Organic Synthesis</b>
7	CHEM-707	<b>Practical-II</b>
8	TM-301	<b>Mathematics for Chemists</b>
9	TM-304	<b>Introduction to Statistics</b>

#### Academic Details

##### **M. Sc. (Chemistry)**

From “Federal Urdu University of Arts, Science and Technology, Karachi, Pakistan”; (in 2007).

##### **B. Sc. (Pass). (Chemistry, Botany, Zoology)**

From “from University of Karachi, Karachi, Pakistan.” (in 2005).

##### **F.Sc. (Pre-Medical)**

From “Govt. Government Superior Science College Shah Faisal Colony Karachi, Pakistan” (in 2003).

##### **S. Sc. (Science)**

From “Federal Board of Intermediate and Secondary Education (FBISE),”; (in 1999).

#### **EXPERIENCE:**

- Assistant Professor, University of Baltistan, Skardu, Gilgit-Baltistan, 2018-04-12, to date
- Assistant Professor, Karakoram International University Gilgit-Baltistan, 2015-05-20, to 12-04-2018
- Five years research experience in Chemistry at H. E. J. Research Institute of Chemistry, International Center of Chemical and Biological Sciences, University of Karachi, Pakistan, 2009-02-10, 2014-03-11
- One year research experience during M.Sc. at H. E. J. Research Institute for Chemistry, International Center of Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan, 2007-01-08, 2007-12-21

#### **Research Projects**

1. Awarded Startup Research Grant-Higher Education Commission titled ‘**Synthesis and Optimization of indole Derivatives as Anti Inflammatory Lead molecules**’ (0.42M). P I
2. Provisional award of research project under KIU recurring grant funds against head research and survey for the current financial year 17, titled ‘**Synthesis of Triazole Derivatives as Antimicrobial Agents**’ at total cost of (0.89M). PI  
NO.KIU/TR/PA/RG

#### **RESEARCH PUBLICATION:**

1. Oxadiazoles and Thiadiazoles: Novel  $\alpha$ -Glucosidase Inhibitors, Hamdy Kashtoh, **Shafqat Hussain**, Ajmal Khan, Syed Muhammad Saad, Jalaluddin A. J. Khan, Khalid Mohammed Khan, Shahnaz Perveen, M. Iqbal Choudhary. *Bioorganic and Medicinal Chemistry*, 22, 2014, 5454-5465.

2. A New Catalyst for the Synthesis of Quinoxaline Derivatives, Khalid M. Khan, **Shafqat Hussain**, Shahanaz Perveen, Fazal Rahim, Sammer Yousuf and Ejaz Hussain, Sodium Bromate/Sodium Hydrogen Sulfite: *Letters in Organic Chemistry*, 2014, 426-431.
3.  $\beta$ -glucuronidase Inhibitory Studies on Coumarin Derivatives, Khalid Mohammed Khan, Muhammad Imran Fakhri, Nimra Naveed Shaikh, Syed Muhammad Saad, **Shafqat Hussain**, Shahnaz Perveen and Muhammad Iqbal Choudhary. *Medicinal Chemistry*, 2014, 10, 778-782.
4. Triazinoindole analogs as .potent inhibitors of  $\alpha$ -glucosidase: Synthesis, biological evaluation and molecular docking studies, Fazal Rahim, Khadim Ullah, Hayat Ullah, Abdul Wadood, Muhammad Taha, Ashfaq Ur Rehman, Imad uddin, Muhammad Ashraf, Ayesha Shaukat, Wajid Rehman, **Shafqat Hussain**, Khalid Mohammed Khan.. *Bioorganic Chemistry*, 58, 2015, 81–87.
5. Synthesis, in vitro evaluation and molecular docking studies of thiazole derivatives as new inhibitors of  $\alpha$ -glucosidase, Fazal Rahim , Hayat Ullah, Muhammad Tariq Javid, Abdul Wadood, Muhammad Taha, Muhammad Ashraf, Ayesha Shaukat, Muhammad Junaid, **Shafqat Hussain**, Wajid Rehman, Rashad Mehmood, Muhammad Sajid, Muhammad Naseem Khan and Khalid Mohammed Khan. *Bioorganic Chemistry*, 62, 2015, 15–21
6. Evaluation of bisindole as potent  $\beta$ -glucuronidase inhibitors: Synthesis and in silico based studies. Khalid Mohammed Khan, Fazal Rahim, Abdul Wadood, Muhammad Taha, Momin Khan, Shagufta Naureen, Nida Ambreen, **Shafqat Hussain**, Shahnaz Perveen, Mohammad Iqbal Choudhary. *Bioorganic and Medicinal Chemistry Letters*, 2014, 24, 1825-1829.
7. Benzothiazole Derivatives: Novel Inhibitors of Methylglyoxal Mediated Glycation of Proteins In Vitro, Sanaullah Abbasi, Salma Mirza, Saima Rasheed, **Shafqat Hussain**, Jalaluddin A. J. Khan, Khalid Mohammed Khan, Shahnaz Perveen, M. Iqbal Choudhary. *Medicinal Chemistry*, 2014, 10, 824-835
8. Antiglycation Activity of Quinoline Derivatives- A New Therapeutic Class for the Management of Type 2 Diabetes, Bilquees Bano, Sanaullah Abbasi, Saima Rasheed, **Shafqat Hussain**, Jalaluddin A. J. Khan, Khalid Mohammed Khan and M. Iqbal Choudhary.. *Medicinal Chemistry*, 2014, 11, 60-68
9. Synthesis, Antimicrobial and Phytotoxic Activity of Amide Derivatives of L-( )-2,3-Diacetoxy-4-methoxy-4-oxo-butanoic acid. Mahrukh Malik, Sher Wali Khan, Javed Hussain Zaidi, Khalid Mohammed Khan, **Shafqat Hussain**, Shahnaz Perveen and Ghulam Abbas Miana. *Journal of Chemical Society Pakistan*, 36, 2014, 170-176.
10. Synthesis and Structure-activity Relationship of Thiobarbituric Acid Derivatives as Potent Inhibitors of Urease, Khalid Mohammed Khan, Fazal Rahim, Ajmal Khan, Muhammad Shabeer, **Shafqat Hussain**, Wajid Rehman, Muhammad Taha, Momin Khan, Shahnaz Perveen, and M. Iqbal Choudhary. *Bioorganic & Medicinal Chemistry*, 22 2014, 4119–4123
11. Synthesis and  $\beta$ -glucuronidase inhibitory activity of 2-arylquinazolin- 4(3H)-ones Khalid Mohammed Khan, Syed Muhammad Saad, Nimra Naveed Shaikh, **Shafqat Hussain**,

- Muhammad Imran Fakhri, Shahnaz Parveen, Muhammad Taha and Muhammad Iqbal Choudhary. *Bioorganic & Medicinal Chemistry*, 22, 2014, 3449-3454
12. New Facile Eco-Friendly and Rapid Synthesis of Trisubstituted Alkenes Using Bismuth Nitrate as Lewis Acid, Munira Taj Muhammad, Khalid Mohammad Khan, Muhammad Taha, Tariq Khan, **Shafqat Hussain**, Muhammad Imran Fakhri, Shahnaz Perveen,.. *Latter in Organic Chemistry*, 13, 2016, 231-235
  13. Crystal structure of methyl 2-(7-hydroxy-2-oxo-2H- chromen-4-yl)acetate, Sammer Yousuf, **Shafqat Hussain**, Khalid Mohammed Khan, Muhammad Shabeer and Shahnaz Perveen,. *Crystallography E*. 2015, 71, 0677–0678.
  14. Synthesis in-vitro  $\alpha$ -glucosidase inhibitory activity and molecular docking studies of new thiazole derivatives, Khalid Mohammed Khan, Saira Qurban, Uzma Salar, Muhammad Taha, **Shafqat Hussain**, Shahnaz Perveen, Abdul Hameed, Nor Hadiani Ismail, Muhammad Riaz, Abdul Wadood, , *Bioorganic Chemistry*, 68, (2016) 245-258.
  15. Synthesis, in vitro evaluation and molecular docking studies of 5-bromo-2-Aryl benzimidazole as  $\alpha$ -glucosidase inhibitors, Tanzila Arshad, Khalid Mohammed Khan, Najma Rasool, Uzma Salar, **Shafqat Hussain**, Tahreem Tahir, Mohammed Ashraf, Abdul Wadood, Muhammad Riaz, Shahnaz Perveen, Muhammad Taha, , *Medicinal Chemistry Research*, (2016) 25, 2058-2069
  16. 5-Bromo-2-aryl benzimidazole derivatives as non-cytotoxic potential dual inhibitors of  $\alpha$ -glucosidase and urease enzymes, Tanzila Arshad, Khalid Muhammad Khan, Najma Rasool Uzma Salar **Shafqat Hussain**, Huma Asghar, Muhammed Asharaf, Abdul Wadood, Muhammad Riaz Shahnaz Perveen, Muhammad Taha, Nor-Hadiani Ismail, , *Bioorganic Chemistry*, 72 (2017) 21-31.
  17. Crystal Structure and Hirshfeld surface analysis of 1-(4-cholor-phen-yl)-2-{{[5-(4-chloro-phen-yl)-1,3,4-oxa-diazol-2-yl]sulfan-yl}ethanone, Rajesh Kumar, **Shafqat Hussain**, Khalid M. Khan, Shanaz Perveen and Sammer Yousuf, , *Acta Cryst* (2017). E73, 524-527
  18. Crystal Structure and Hirshfeld surface analysis of 1-(4-bromophenyl)-2-{{[5-(pyridine-3-yl)-1,3,4-oxadiazol-2-yl]sulfanyl}ethan-1-one. Huma Bano, **Shafqat Hussain**, Khalid M. Khan, Shanaz Perveen and Sammer Yousuf, , *Acta Cryst* (2017). E73, 623-626
  19. 1,1'-Carbonyldiimidazole (CDI) mediated facile synthesis, structural characterization, antimicrobial activity and in-silico studies of coumarin-3-carboxamide derivatives. Uzma Salar, Khalid Mohammed Khan, Muhammad Imran Fakhri, **Shafqat Hussain**, Saima Tauseef, Shagufta Amber, Abdul adood, Huma Khan, Shahnaz Perveen. *Medicinal Chemistry*, 2018;14(1):86-101).
  20. Synthetic nicotinic/isonicotinic thiosemicarbazides: In vitro urease inhibitory activities and molecular docking studies. Shahnaz Perveene Basharat Ali, Khalid Mohammed Khana, Arshiaa, Kanwal, **Shafqat Hussain**, Safdar Hussain, Muhammad Ashraf, Muhammad Riaz, Abdul Wadood, *Bioorganic Chemistry*, 2018, 79, 34-45
  21. Comparative phytochemical profile of some medicinal plants from gilgit-baltistan, Muhammad Ismail\*, Shams Jamal, Noor-Ul-Haq, Shabbir Hussain, **Shafqat Hussain**, *Progress in Nurtition*, 2019; 22,

22. Nematicidal properties of some medicinal plants from selected flora of Gilgit-Baltistan, M. Ismail<sup>1</sup>, S. Fayyaz, M. Azad, S. Javed, I. Ali, S. Ali and **Shafqat Hussain**, *The Journal of Animal & Plant Sciences*, 2019, 29, 1182-1187
23. Structural parameters, electronic, linear and nonlinear optical exploration of thiopyrimidine derivatives: A comparison between DFT/TDDFT and experimental study. Ajaz Hussain, Muhammad Usman Khan, Muhammad Ibrahim, Muhammad Khalid, Akbar Ali, **Shafqat Hussain**, Muhammad Saleem, Naseeb Ahmad, Shabbir Muhammad, Abdullah G. Al-Sehemi, Ayesha Sultan  
*Journal of Molecular Structure*, 1201, 2019, 1271-1283
24. 2-Mercapto Benzothiazole Derivatives: As Potential Leads for the Diabetic Management, Saeed Ullah, Salma Mirza, Uzma Salar, **Shafqat Hussain**, Kulsoom Javaid, Khalid Mohammed, Khan, Ruqaiya Khalil, Atia-tul-Wahab, Zaheer Ul-Haq, Shahnaz Perveen and M. Iqbal Choudhary. *Medicinal Chemistry*, 2020, 16, 1-15.
25. Determination of Constituents and Estimation of Sugar and Trace Element in Soft Drinks, Amina Sultana, Anila Anwar, Rubina Perveen, Farah Kishwer, Rabia Farheen, Azhar Ali and **Shafqat Hussain**, *Fuuast.J. Biol.* 2019, 9, 257-261.
26. Free Radical Scavenging and Cytotoxic Activities of Substituted Pyrimidines, Qurat-ul-Ain, **Shafqat Hussain**, M. Iqbal Choudhary, Khalid Mohammed Khan, ArXiv Preprint, 2020, 2003, 36-45

#### **POSTERS PRESENTED:**

Sodium Bromate/Sodium Hydrogen Sulfite: A New Catalyst for the Synthesis of Quinoxaline Derivatives, 13<sup>th</sup> International Symposium on Natural Product Chemistry organized by the H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan (September 22-25, 2012).

#### **SEMINAR ATTENDED:**

- Lecture Series on “**Mass Spectrometry**” delivered by **David B. Smith** (Ray DeIn Professor & Deloitte Scholar. University of Nebraska-Lincoln), in H. E. J., International Center for Chemical and Biological Sciences, University of Karachi, Pakistan.

#### **CONFERENCE AND SYMPOSIUM ATTENDED:**

1. Attended the 13<sup>th</sup> International Symposium on Natural Product Chemistry organized by the H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan (September, 22-25, 2012).
2. 14<sup>th</sup> Asian Symposium On Medicinal Plants, Spices and other Natural Products (ASOMPS), December 9-12, 2013, H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan.

#### **SCIENTIFIC SKILLS:**

Sufficient knowledge of advanced analytical techniques:

- ✓ NMR Spectroscopy
- ✓ IR Spectroscopy
- ✓ Mass Spectrometry
- ✓ UV-Spectroscopy
- ✓ High performance Liquid Chromatography (HPLC)

- ✓ Gas Chromatography (GC)
- ✓ Polarimetry
- ✓ X-Ray Crystallography