

**Dr. Jahan Zaib Arshad**  
**Assistant Professor**  
 Department of Chemistry  
 Government College Women University Sialkot, Pakistan  
 Qualification: PhD Chemistry  
 Specialization: Inorganic Chemistry  
 Email: [jahanzaib.arshad@gcwus.edu.pk](mailto:jahanzaib.arshad@gcwus.edu.pk)

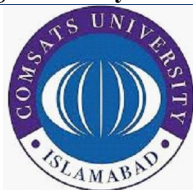


### Academic Qualification

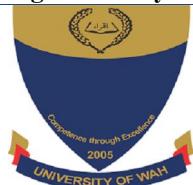
**PhD Chemistry (Inorganic/Analytical Chemistry) Split PhD Program (2013 – 19)**



**MS Chemistry (Inorganic/Analytical Chemistry) (2010 – 12)**



**BS (Hons) Chemistry (Inorganic/Analytical Chemistry) (2005 – 09)**



### Teaching Training

**National Faculty Development Program (NFDP) Training (4<sup>th</sup> June 2020 – 4<sup>th</sup> July 2020)**



**B.Ed (2018-20)**



### Research Interests

Inorganic Medicinal Chemistry  
 Bioinorganic Chemistry  
 Organometallic Chemistry

### Publications

1. Hanif, M.; Arshad, J.; (*Joint First Author*) Astin, J.; Zafar, A.; Movassaghi, Leung, E.; Patel, K.; S.; Söhnel, T.; Reynisson, J.; Sarojini, V.; Rosengren, R.; Jamieson, S. M.; Hartinger, C. G., A Multitargeted Approach: Organorhodium Anticancer Agent Based On Vorinostat as a Potent Histone Deacetylase Inhibitor. Accepted in *Angewandte Chemie* **2020**, *132* (34), 14717-14722. (IF= 12.2)  
 Presented in 9<sup>th</sup> Asian Biological Inorganic Chemistry (AsBIC) Conference (2018), Singapore.
2. Arshad, J.; Hanif, M.; Zafar, A.; Movassaghi, S.; Tong, K.; Reynisson, J.; Kubanik, M.; Waseem, A.; Söhnel, T.; Jamieson, S. M.; Organoruthenium and-Osmium Complexes of 2-Pyridinecarbothioamides Functionalized with a Sulfonamide Motif: Synthesis, Cytotoxicity and Biomolecule Interaction. *ChemPlusChem* **2018**, *83*, 612-619. (IF: 3.4)
3. Arshad, J.; Hanif, M.; Movassaghi, S.; Kubanik, M.; Waseem, A.; Söhnel, T.; Jamieson, S. M.;

Harterger, C. G., Anticancer Ru( $\eta^6$ -*p*-cymene)Complexes of 2-Pyridinecarbothioamides: A Structure–Activity Relationship Study. *Journal of Inorganic Biochemistry* **2017**, *177*, 395-401. (IF: 3.3)

4. Mumtaz, A.; **Arshad, J.**; Saeed, A.; Nawaz, M.A.H.; Iqbal, J.; Synthesis, Characterization and Urease Inhibition Studies of Transition Metal Complexes of Thioureas Bearing Ibuprofen Moiety. *Journal of the Chilean Chemical Society* (2018), 63 (2), 3934-3940. (IF: 1)

5. Waseem, A.; **Arshad, J.**, A Review of Human Biomonitoring Studies of Trace Elements in Pakistan. *Chemosphere* **2016**, *163*, 153-176. (IF: 5.7)

6. Waseem, A.; **Arshad, J.**; Iqbal, F.; Sajjad, A.; Mehmood, Z.; Murtaza, G., Pollution Status of Pakistan: A Retrospective Review on Heavy Metal Contamination of Water, Soil, And Vegetables. *BioMed research international* **2014**, <http://dx.doi.org/10.1155/2014/813206>. (IF: 2.5)

#### Teaching or Research Assistant Experience

1. **Assistant Professor** (August 2020 – continue) at Government College Women University Sialkot (GCWUS), Sialkot, Pakistan.

2. 1 Year Experience as **Research Assistant** (2015-16) in Harterger Lab, School of Chemical Sciences, University of Auckland, Auckland, New Zealand.

3. 5 Years Experience as **Teaching or Research Assistant** (2013-15, 2016-19) in Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.

#### Research Expertise

Synthesis, Characterization and Biological Studies

Leadership Skills

Excellent Interpersonal Skills

Effective Communication Skills

Effective Conceptual Skills

Lab Managerial Expertise

Supervising Undergraduate and Graduate Students

Arranging Effective Scientific Group Discussions

Ensuring Health & Safety Protocols in Lab

Preparing Manuscripts and Research Proposals, Proof Reading

#### Instrumental Expertise

Nuclear Magnetic Resonance (NMR) Spectrometer

UV/Visible Spectrophotometer

IR Spectrophotometer

Flash Column Chromatography

#### Biological Expertise

Cytotoxic Assay

Hydrolytic Stability of Metal Complexes by  $^1\text{H}$ NMR and ESI-MS

Amino Acids and Protein Binding Study by  $^1\text{H}$ NMR

DNA Binding Constant by Cyclic Voltammetry

#### Computer Expertise

Proficient use of DOS, Windows XP, Vista, 7, 8, 10 Operating Systems

MS Office (Word, Powerpoint, Excel)

Top Spin Software for NMR Data Interpretation

Mercury Software for Single Crystal XRD Structure Analysis

ChemOffice (ChemDraw Ultra, ChemBioDraw Ultra)

#### Conferences or Symposiums

1. International Conference on Chemical Sciences (2019) Jointly Organized by Department of Chemistry, Quaid-i-Azam University, Islamabad and Pakistan Academy of Sciences, Islamabad. (Participant)

2. 9<sup>th</sup> Asian Biological Inorganic Chemistry Conference (2018) Singapore Organized by National University of Singapore, Singapore and Nanyang Technological University, Singapore. (PhD Research Work Presented)

3. 1<sup>st</sup> Auckland Symposium On Medicinal Inorganic Chemistry Organized by School of Chemical Sciences, The University of Auckland, Auckland, New Zealand. (Participant)

4. Green Chemistry Symposium (2015) Organized by School of Chemical Sciences, University of Auckland, Auckland, New Zealand. (Participant)

#### Achievements

2015 – 2016 International Research Support Initiative Program (IRSIP) Scholarship  
Awarded By Higher Education Commission, (HEC), Islamabad, Pakistan.

2013 – 2017 PhD Fellowship Awarded By Quaid-i-Azam University, Islamabad, Pakistan.

2010 – 2011 MS Scholarship Awarded By COMSATS University Islamabad, Abbottabad, Pakistan.  
2010 – 2012 Overall 3<sup>rd</sup> Position in MS Chemistry  
2005 – 2009 Overall 3<sup>rd</sup> Position in BS(Hons) Chemistry

#### References

1. Prof. Dr. Aamir Waseem (PhD Supervisor)  
Department of Chemistry, Quaid-i-Azam University, Islamabad, Pakistan.  
Email Address: [amir@qau.edu.pk](mailto:amir@qau.edu.pk)
2. Prof. Dr. Christian Hartinger (PhD Foreign Supervisor)  
School of Chemical Sciences, University of Auckland, Auckland, New Zealand.  
Email Address: [c.hartinger@auckland.ac.nz](mailto:c.hartinger@auckland.ac.nz)
3. Dr. Muhammad Hanif (PhD Co-Supervisor)  
School of Chemical Sciences, University of Auckland, Auckland, New Zealand.  
Email Address: [m.hanif@auckland.ac.nz](mailto:m.hanif@auckland.ac.nz)