

# Dr. MISBAH IRSHAD

e-mail: misbahirshad@ue.edu.pk

misbahchatha@hotmail.com

Department of Chemistry, Division of Science & Technology, University of Education

Township Lahore

Mob # 04299262232



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## **PERSONAL PROFILE**

Nationality	Pakistani
Religion	Islam
Marital Status	Married
Domicile	Punjab

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## **ACADEMIC QUALIFICATIONS**

### **PhD (Chemistry)** (2010-2014)

Specialization in Organic and Pharmaceutical Chemistry.

GC University Lahore.

Katchary Road-54000, Pakistan.

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### **M.Phil. (Chemistry)** (2007-2009)

Specialization in Organic and Medicinal Chemistry.

GC University Lahore.

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### **M.Sc. (Chemistry)** (2002-2004)

Specialization in Organic Chemistry.

University of Agriculture, Faisalabad.

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### **B.Sc. (Chem, Bot, Zool.)** (1999-2001)

University of Punjab, Lahore.

(1<sup>st</sup> Div)

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### **B.Ed. (Chem, Bio.)** (2002-2004)

Allama Iqbal Open University, Islamabad

(1<sup>st</sup> Div)

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### **F.Sc. (Pre-medical)** (1997-1999)

Federal Board of Intermediate, Islamabad.

(1<sup>st</sup> Div)

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### **Matriculation (Science)** (1995-1997)

BISE

(1<sup>st</sup> Div)

## **COMPUTER SKILLS**

- MS office word
- MS Power point
- MS office excel
- MS Picture manager
- Chemistry software

## **RESEARCH INTERESTS**

Synthesis and structural analysis of organic molecules of pharmaceutical interests. Purification, characterization and structural modifications of various natural molecules to study their structure-activity relationship and *in vitro* assessment of relief by different samples to oxidative injury.

## **MAJOR RESPONSIBILITIES**

Teaching and Research, Assisting in development of new course material, supervising BS/MSc/MS students, regularly publishing journal articles, serving on committees, attending conferences, writing proposals for grants

## **ADMINISTRATIVE & ADVISORY EXPERIENCE**

- Member of Departmental Admission Committee MSc & MS
- Convener and member of QAA Review of MS Programs of UE Lahore
- Secretary of MS Interview Admission Committee Fall 2017
- Member of conducting model lesson presentation committee
- Member of university central marking committee
- Conference Committee ICE 2018 (24-1-2018)
- Member of MSc Chemistry thesis evaluation committee for viva conduction (25 & 26-9-2018)
- Member of inter and intra-campus Sports Committee
- Member of Program Team Member (PTM) & Assessment Team Member (ATM)
- Member of laboratory inspection committee
- Co-opted member for convocation 2018 (North Region, 12-2-2018)
- Member of Pink Ribbon Committee (6-11-2017)
- Member of Chemistry Curriculum Committee, Revision and development of new courses
- Maintenance of stock register and Physical Verification of Zoology Department
- Member of Chemistry Lab Management committee
- Chemistry Lab-108 Incharge
- Member of University Central library stock taking committee
- Member of University Central marking UQE Exams
- Member of MS Proposal review/evaluation committee

## **TRAINING WORKSHOPS**

1. Attended three days Workshop on “project writing” held on 29<sup>th</sup>-31<sup>th</sup> March, 2016 at University of Education, Township campus, Lahore.

2. Attended training workshop of program team members (PTM) regarding self-assessment MSc Chemistry (2018-2019) on 27-2-2019 conducted by QEC
3. Attended training on invigilation of examination conducted by controller examination on 3-12-2018
4. Attended training workshop of Assessment team members (ATM) regarding assessment of BS Chemistry SAR (2018-2019) on 12-6-2019 conducted by QEC
5. Attended the training session entitled "Ovid MEDLINE and Journals for HECS" held on
  - a. 26<sup>th</sup> June, 2020
6. Attended the training sessions entitled "Capacity Building Workshop for Research Grants" which were held on Monday July 6, 2020 to Friday July 24, 2020 (2-3 sessions per day) through Webinar.
7. Participated in "Dissecting the scholarly publishing process. A current overview on the steps to getting published" organized by Wiley Team on Wed, Jan 26, 2022 2:00 PM - 3:00 PM PKT
8. Attended Reviewer workshop: How to get the most out of being a reviewer of scientific articles organized by Elsevier APAC Customer Success Hub Team, on Wednesday 10 August, 2022
9. Attended Wolters Kluwer OVID Database-Training webinar on October 11, 2022 organized by National Digital Library Program (NDLP), Higher Education Commission (HEC), Sector H-9, Islamabad
10. Attended ASTM Digital Library (COMPASS) in collaboration with HEC training session on November 08, 2022

## **PARTICIPATION IN CONFERENCES/SEMINARS/SYMPOSIUM**

### **A. As Participant**

1. Attended and presented science model in one day "Inter Schools Science Exhibition and Models Competition" held on 26<sup>th</sup> October, 1995 at Science Museum UET, Lahore.
2. Attended and presented science model in one day "Inter Schools Science Exhibition and Models Competition" held on 31<sup>st</sup> October, 1996 at Science Museum UET, Lahore.
3. Participated in the webinar series of "mUni Campus" held on 15<sup>th</sup> May 2020 and 18<sup>th</sup>-22<sup>nd</sup> May 2020 conducted by mUni Campus - An End to End Higher Education Solution and Digital Infra provider.
4. Participated in Webinar on "Align Yourself to the Publication Process" Co-organized by Higher Education Commission of Pakistan & Elsevier on 20<sup>th</sup> May 2020, 11 am onwards.
5. Attended Masterclass Workshop: "How to Write a Great Research Paper, and Get it Accepted by a Good Journal" organized by HEC and Elsevier South Asia on June 3<sup>rd</sup> 2020 at 11 am
6. Participated in "International Conference on Research Advancements in Chemistry (ICRA-C 2021)" organized by National University of Science and Technology (NUST) on March 10-11, 2021

7. Participated in “Chemistry and Chemical Engineering Webinar with Professor Mathias Brust (Liverpool)”, organized by Department of Chemistry and Chemical Engineering SBA School of Science and Engineering, Lahore University of Management Sciences (LUMS) at 5:00 pm on Friday, January 11, 2022.
8. Attended Empowering knowledge on ethical publishing: Mastering the art of identifying predatory, fake and cloned journals "organized by Elsevier at APAC Customer Success Hub, on Wednesday 08 June, 2022

## **B. As Oral Presenter**

1. “6th international conference on Education (ICE)”, At University of Education, Lahore on 15-17 March-2018
2. “1<sup>st</sup> international conference on Chemistry (ICC)”, At Lahore Garrison University, Lahore on 16-17 April-2018
3. 4<sup>th</sup> International Chemistry Conference on Recent Trends in Chemistry at Allama Iqbal Open University Islamabad on 07-08 November 2018
4. “International Chemistry Conference: Forefronts of Chemistry, Celebrating the periodic
5. “30<sup>th</sup> National & 18<sup>th</sup> International Chemistry Conference on Recent Trends in Chemistry-CCUMT-2019”, at Department of Chemistry, University of Management and Technology, Lahore held on November 27-29, 2019.
6. 3<sup>rd</sup> International Chemistry Conference on “Chemical and Pharmaceutical Sciences: New Trends in Medicinal and Pharmaceutical Chemistry”, at Department of Chemistry, Forman Christian College University held on January 29-31, 2020.
7. “1<sup>st</sup> National Conference on “Meeting Emerging Educational Trends (MEET)”, held on March 4, 2020 at University of Jhang, Jhang.
8. 1st International Conference on “Advances in Materials Science” (AIMS 2020) held on July 23-24, 2020 At University of Education, Lahore
9. 3<sup>rd</sup> International Virtual Conference on Chemistry (ICC) 2020: Innovative Challenges and Prospects in the field of Molecular and Chemical Sciences held on September, 21-22, 2020 at Department of Chemistry, Lahore Garrison University, Avenue 4, Sector C, DHA phase-VI, Lahore, Pakistan
10. “1<sup>st</sup> International Industrial Chemistry Conference 2021 (IICC-2021)”, organized by Department of Chemistry, NED University of Engineering & Technology, Karachi virtually on February 26-28, 2021.
11. CRAABS, 2021-Conference on Recent Advances in Applied Biosciences 30th-31st March, 2021 organized by Department of Biology, Lahore Garrison University, Sector C, Phase 6, DHA, Lahore
12. 2nd International Conference on Advances in Materials Science (AIMS 2021), held on October 5-6, 2021 At University of Education, Lahore

13. 1st International Conference on Bioinformatics & Computational Methods in Post Genomics Era on Nov. 09-10, 2021 organized by Department of Bioinformatics and computational Biology, Virtual University Pakistan
14. 31<sup>th</sup> National & 19<sup>th</sup> International Chemistry Conference on “Emerging Trends in Chemistry-CCUMT-2019”, at Department of Chemistry, University of Management and Technology, Lahore held on December 16-18, 2021.

### **C. As Poster Presenter**

1. International Conference on modern trends in chemistry & energy technologies, At Comsats University Islamabad, Lahore Campus on 22-23 Oct-2018
2. Organized and presented poster on April 14, 2022 organized by Department of Chemistry, University of Education Lahore

### **3. Symposium**

4. Attended one Day Symposium on Functional Nanomaterials for Catalysis and Energy Conversion” held on May 16<sup>th</sup> 2016 at Department of Chemistry, University of Engineering & Technology, Lahore, 54890, Pakistan.
5. Attended Virtual Organic & Medicinal Chemistry on December 09, 2022 Friday 06:00 PM organized by LUMS Lahore

### **D. As An Organizer**

1. Organized on day seminar on "Innovation in Nano-Chemistry". Dr. Muhammad Akhyar Farrukh, delivered seminar in University of Education Lahore on April 17, 2019
2. As Abstract review committee (secretary) and Technical committee (convener) for 1<sup>st</sup> International Conference (Online) Trends and Research in Chemistry (TRIC-2022) organized Department of chemistry, DSNT Lahore on January 18-19 2022.
3. As MODERATOR of one session SESSION-3, HALL-5 for 2<sup>nd</sup> International Mediterranean Scientific research and Innovation congress organized by International Science & Art Research Center (ISARC), Turkey KKTC-Girne held on 30-31 JULY 2022
- 4.

## **PUBLICATIONS**

### **Journal Publications**

Synthesis, Biological Screening and Molecular Docking Studies on Some Ethylated Sulfonamides having 1,4-Benzodioxane Moiety., Pak. J. Pharm. Sci. 29(6), 1913-1925 (2016).

*In-Vitro* Antileishmanial and Antiglycation Evaluation of Biphenyl. Sci.Int., 28(3), 3049-3051, 2016.

Pharmacological Evaluation and Synthesis of New Sulfonamides Derivatives Based on 1,4-Benzodioxane. *Pak. J. Anal. Environ. Chem.* Vol. 19, No. 2 (2018) 181–194.

Synthesis, Characterization, and Phytotoxic and Antifungal Activities of Biphenyl Derivatives. *Russian Journal of General Chemistry*, 2018, Vol. 88, No. 10, pp. 2177–2182

Synthesis, Biological Evaluation and Molecular Docking Studies of Some New Sulfonamides Possessing 1,4-Benzodioxane Nucleus. *Acta Chim. Slov.* 2019, 66, 294–307.

Aurones and Analogues: Promising Heterocyclic Scaffolds for Development of Antioxidant and Antimicrobial Agents. *Russ. J. Gen. Chem.*, 2019, Vol. 89, No. 7, pp. 1519–1527.

Caffeine concentrations in locally available energy drinks of Lahore, Pakistan. *Biologia.*, December, 2019, 65 (II), pp.1-7.

Synthesis, Spectral Characterization and Antimicrobial Studies of a Novel Series of Allylidene Based Multifaceted Chalcones Analogues. *Pak. J. Pharm. Sci.*, Vol.33, No.3, May 2020, pp.987-995.

Comparative Studies of Lead and Heavy Metals Concentrations in Pakistan Soil and Its Toxic Effects. *Pol. J. Environ. Stud.*, Vol. 29, No. 4 (2020), 1-10

Method Development and Validation of Mecobalamin Injection By UV Spectrophotometer. *Pak. J. life Soc. Sci.* (2020), 18(1): 29-34

Synthesis and Structure-Activity Relationship of 1-(2-Furoyl)Piperazine Bearing Benzamides as Butyrylcholinesterase Inhibitors. *Pharm. Chem. J.* Vol.54, No.6, September 2020.

Synthesis of promising antibacterial and antifungal agents: 2-[[[4-Chlorophenyl)sulfonyl](2,3-dihydro-1,4-benzodioxin-6-yl)amino]-N-(un/substituted-phenyl)acetamides. *Pak. J. Pharm. Sci.*, Vol.33, No.5, 2020, pp.2161-2170

In silico Approach towards the Prediction of Drug-Likeness; Synthesis and In Vitro Evaluation of Biphenyl Derivatives. *Russian Journal of General Chemistry*, 2021, Vol. 91, No. 6, pp. 1082–1090. ISSN 1070-3632,

Synthesis and characterization of ultra-fine titania powders for wastewater treatment. *Digest Journal of Nanomaterials and Biostructures*. Vol. 16, No. 4, October-December 2021, p. 1595-1605

Examination Of Lead And Cadmium Contents In Commercial Paints And Varnishes Marketed In Punjab Province Of Pakistan. *Journal of Natural & Applied Sciences Pakistan*, Vol 3 (2), 2021 pp 764-774

N-Sulfonated derivatives of (2-furoyl)piperazine: Promising antibacterial agents with mild cytotoxicity. *Pakistan Journal of Pharmaceutical Sciences*. Vol. 35, No. 2, March 2022, pp. 579-585.

Treatability study of synthesized silica nanoparticles to reduce pollution load of industrial wastewater. *International Journal of Environmental Science and Technology*. Vol. 19, No7, July 2022, pp. 6183 – 6200.

Synthesis of isatin and its derivatives having antibacterial, antifungal and cytotoxic activities. *Curr Org Synth*. 2022 April 29. 19 (6), 748-756.

Synthesis of 2-[2,3-dihydro-1,4-benzodioxin-6-yl(phenylsulfonyl)amino]-N-(un/substituted-phenyl) acetamides as anti-diabetic agents. *Tropical Journal of Pharmaceutical Research* November 2022; 21 (11): 2411-2418