

Curriculum Vitae

Dr. Samira Amir

Chemistry Instructor

Department of Chemistry

College of Science & General Studies

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ACADEMIC PROFILE

PhD (Chemistry) (2012)

Thesis Title: *“Synthesis Characterization and Enzyme Activity of Metal Based Biomimics”*

Department of Chemistry,

Aligarh Muslim University, Aligarh-202002, India

Master of Science (Inorganic Chemistry) (2004-2006)

First Division

Aligarh Muslim University,

Aligarh, U.P, India.

Bachelor of Science (Chemistry) (2001-2004)

First Division

Rohilkhand University,

U.P, India.

INTERNATIONAL RESEARCH EXPERIENCE

International experience of One year as Young Researcher on “Organometallic Synthesis of Biological Importance” from **2/01/08 to 12/12/2008** in collaboration with *Prof. Claudio Pettinari and Prof. Fabio Marchetti*, **Department of Chemical Sciences, University of Camerino ITALY.**

NATIONAL RESEARCH EXPERIENCE

Project Assistant in Department of Biotechnology sponsored project entitled “Design of Novel Anticancer Drugs and Analysis of Their Therapeutic Potential by in Vitro and in Vivo Studies” with Prof. Sartaj Tabassum from 1/06/09 to 3/03/10 in collaboration with Advanced Centre for Training and Education in Cancer “ACTREC”, Mumbai, INDIA.

AREA OF INTEREST

Research interests include coordination chemistry, bio-inorganic chemistry and metal applications in SOD & Anticancer drugs.

Synthesis of novel nanomaterials as a drug delivery carrier

RESEARCH SKILL

Synthesis of new SOD mimics
Pharmaceuticals Analysis
Coordination compound synthesis

INSTRUMENT HANDLED

- ^1H NMR, ^{13}C NMR
- UV-Visible spectrophotometer
- Fluorescence spectrophotometer
- FT-IR instrument
- Gel Electrophoresis of Protein and DNA
- Gel Documentation
- TGA/DSC Instrument
- HPLC Instrument
- Cyclic voltammeter
- Viscosity measurements

PUBLICATIONS

1. Sartaj Tabassum, **Samira Amir**, Farukh Arjmand, Claudio Pettinari, Fabio Marchetti, Norberto Masciocchi, Giulio Lupidi, Riccardo Pettinari. Mixed-Ligand Cu (II)-Vanillin Schiff Base Complexes; Effect of Coligands on their DNA Binding, DNA Cleavage, SOD Mimetic and Anticancer Activity. *European Journal of medicinal Chemistry* (2013) **60**, 216-232. (**Impact Factor: 3.5**)
2. Afzal Hussain, Mohamed F. Al Ajmi, **Samira Amir**, Imran Ali. Development and validation of methods for profens in human plasma by SPE and HPLC. (2016) *Accepted Bio Medical Chromatography*. (**Impact Factor: 1.8**)
3. Sartaj Tabassum, **Samira Amir**, Farukh Arjmand, Claudio Pettinari, Fabio Marchetti, Norberto Masciocchi, Giulio Lupidi, Riccardo Pettinari. Design and Synthesis of Phenanthroline containing (E)-2-(2-hydroxy-3-methoxybenzylideneamino)-2-methylpropane-1, 3-diol based Co (II) and Zn (II) Complexes: DNA Binding, DNA Cleavage, SOD Mimetics and Anticancer Activity. (2016) *Major Revision in RSC Advances*. (**Impact Factor: 3.8**)
4. Mohamed F. Al-Ajmi, Afzal Hussain, **Samira Amir**, M. S. Anwar, Maqsood A. Siddiqui, Abdulaziz A. Al-Khedhairy, B. H. Koo. Green Synthesis of Zinc Oxide Nanoparticles Using Alstonia Macrophylla Leaf Extract and Their In-Vitro Anticancer Activity. (2016) *Communicated Science of advance materials* (**Impact Factor: 2.6**)
5. Sartaj Tabassum, **Samira Amir**, Farukh Arjmand, Vivek Bagchi. Tetra-organotin(IV) Complexes as Topoisomerase I inhibitor: Synthesis, Characterization, Crystal Structure, in vitro DNA Binding Studies and Validation through ^1H and ^{31}P NMR. (2015) *Communicated Organometallics*. (**Impact Factor: 3.9**)

6. Sartaj Tabassum, *Samira Amir*, Farukh Arjmand. New Sn(IV) complexes as Topoisomerase I Inhibitors: Synthesis and in vitro Interaction with Biomolecules. (*Manuscript under preparation for Journal of Photochemistry and Photobiology B*). (*Impact Factor: 2.8*)

CONFERENCES AND SYMPOSIUM ATTENDED

1. Presented Paper in 15 th ISCB International Conference “Bridging Gaps in Discovery and Development: Chemical and Biological Sciences for Affordable Health, Wellness and Sustainability” held on 4th-7th February 2011 at Rajkot, India.
2. Presented Paper “International Conference on Chemistry; Frontier and Challenges-ICCFC” held on 05-06, March 2011 at Department of Chemistry, Aligarh Muslim University, Aligarh, INDIA.
3. Presentation Paper in National Symposium on “Recent Trends in Chemical Sciences (NSRTCS - 2010)” held on 24-25 February at Department of Chemistry, Aligarh Muslim University Aligarh-202002

REVIEWER OF THE JOURNALS

1. Journal of Bioinorganic Chemistry and Applications

FELLOWSHIPS

1. UGC Fellowship for PhD as a research scholar 2006-2011
2. Worked as Project Assistant in Department of Biotechnology sponsored project, from 1st June 2009 to 3rd March 2010.
3. Worked as Young Researcher at Department of Chemical Sciences, University of Camerino Italy, from 2nd Jan 2008 to 12th December 2008.
4. Worked as a Research Assistant for a period of 4 months under DST PURSE Programme in the Department of chemistry from Jan 2013 to September 2013.

COMPUTER SKILLS

Working Knowledge of MS-Office, Origin, Sigma Plot and PyMOL

PERSONAL INFORMATION

Date of Birth : June 29, 1982
Sex : Female
Nationality : Indian
Marital Status : Married
Husband Name : Dr. Afzal Hussain
Passport Detail : G4747378
Languages : English, Hindi, Urdu

Correspondence & Permanent Address

C/o Al-Noori Traders
Patrampur chok,
Lakri Mandi Jaspur, 244712 (U.S. Nagar) Uttarakhand, India

REFERENCES

1. Professor Sartaj Tabassum

(PhD. Supervisor)

Department of Chemistry

Aligarh Muslim University,

Aligarh, 202002, India

Tel. +91-9358255791

E-mail: tsartaj62@yahoo.com

2. Dr. Farukh Arjmand

(Associate Professor)

Department of Chemistry

Aligarh Muslim University,

Aligarh, 202002, India

Tel. +91-9897157511

E-mail: farukh_arjmand@yahoo.co.in

3. Professor Claudio Pettinari

**(Indo-Italian Exchange Program
Supervisor)**

Department of Chemical Sciences

Camerino MC, ITALY

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402356

E-mail: claudio.pettinari@unicam.it

DECLARATION

I hereby declare that the given above information are true to the best of my knowledge and belief and can be supported with reliable documents when needed.

Place: Riyadh

Date:

(SAMIRA AMIR)