

Curriculum Vitae

Dr. Sita Ram

Personal details

Name Sita Ram
Address Assistant Professor, Department of Chemistry
J.C. Bose University of Science & Technology
YMCA, Faridabad
Haryana-121006
Telephone +91-9728552956
E-Mail inssa.sitaram@gmail.com
Born 25.05.1986
Nationality Indian
Place of birth Sirsa, Haryana, India
Marital status Married



Academic background

Degree	Year	Board/University	Percentage of marks obtained/Remarks
Ph.D	Jan. 2016	Kurukshetra University, Kurukshetra, India	--
M.Sc. Chemistry	2009	Kurukshetra University, Kurukshetra, India	71.9 %/First division
B. Sc. (Bio-Technology)	2007	Kurukshetra University, Kurukshetra, India	73.79 %/First division
Senior Secondary	2004	Board of School Education Haryana, India	72 %/First division
Matriculation	2002	Board of school Education Haryana, India	74.83 %/First division

Research

Jan. 2010 – Jan 2013 **Junior Research Fellow (CSIR-JRF)** in the Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, India.

Feb. 2013– July 2014 **Senior Research Fellow (CSIR-SRF)** in the Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, India.

March 2016–Feb.2017 **Research Associate** In Sun Pharmaceutical Industries Ltd. Gurgaon, Haryana, India

Publications

1. Pawan K. Sharma, **SitaRam**, Navneet Chandak; Transition Metal-Free Approach to Propynenitriles and 3-Chloropropenenitriles. *Advanced Synthesis & Catalysis* VIP, **2016**, 358, 894-899. Marked as Very Important Publication (VIP).
2. **SitaRam**, Gulsah Celik, Poonam Khloya, Daniela Vullo, Claudiu T. Supuran, Pawan K. Sharma; Benzenesulfonamide bearing 1,2,4-triazole scaffolds as potent inhibitors of tumor associated carbonic anhydrase isoforms hCA IX and hCA XII. *Bioorg. Med. Chem.*, **2014**, 22, 1873-1882.
3. **SitaRam**, Mariangela Ceruso, Poonam Khloya, Claudiu T. Supuran, Pawan K. Sharma; 4-Functionalized 1,3-diarylpyrazoles bearing 6-aminosulfonylbenzothiazole moiety as potent inhibitors of carbonic anhydrase isoforms hCA I, II, IX and XII. *Bioorg. Med. Chem.*, **2014**, 22, 6945-6952.
4. Poonam Khloya, Gulsah Celik, **SitaRam**, Daniela Vullo, Claudiu T. Supuran, Pawan K. Sharma; 4-Functionalized 1,3-diarylpyrazoles bearing benzenesulfonamide moiety as selective potent inhibitors of the tumor associated carbonic anhydrase isoforms IX and XII. *Eur. J. Med. Chem.*, **2014**, 76, 284-290.
5. Poonam Khloya, Mariangela Ceruso, **SitaRam**, Claudiu T. Supuran, Pawan K. Sharma; Sulfonamide bearing pyrazolylpyrazolines as potent inhibitors of carbonic anhydrase isoforms hCA I, II, IX and XII. *Bioorg. Med. Chem. Lett.*, **2015**, 25, 3208-3212.
6. Rajiv Kumar, Silvia Bua, **Sita Ram**, Sonia Del Prete, Clemente Capasso, Claudiu T. Supuran, Pawan K. Sharma, Benzenesulfonamide bearing imidazothiadiazole and thiazolotriazole scaffolds as potent tumor associated human carbonic anhydrase IX and XII inhibitors. *Bioorganic & Medicinal Chemistry* 25, **2017**, 1286–1293
7. Isha Saini, Annu Sharma, Rajnish Dhiman, Sanjeev Aggarwal, **Sita Ram**, Pawan K. Sharma, Grafted SiC nanocrystals: For enhanced optical, electrical and mechanical properties of polyvinyl alcohol. *Journal of Alloys and Compounds*, DOI: **10.1016/j.jallcom.2017.04.183**.
8. Isha Saini, Annu Sharma, Rajnish Dhiman, **Sita Ram** and Pawan K Sharma, Structural and thermal characterization of polyvinylalcohol grafted SiC nanocrystals. *Mater. Res. Express* 4, **2017**, 075015

Conference Attendances and Poster/Oral presentations

1. Paper presentation in “20th ISCB International Conference (ISCBC-2014) on Chemistry and Medicinal Plants in Translational Medicine for Healthcare”

- organized by the Department of Chemistry, University of Delhi, from March 1-4, 2014.
2. Oral presentation in “17th International Conference of International Academy of Physical Science (CONIAPS XVII) on Emerging Trends in Physical Science & Technology” organized by The University of Rajasthan, Jaipur, from January 16-18, 2015.
 3. Paper Presentation and 2nd Poster Prize in “National Conference on Organic Synthesis and Catalysis, Feb 17-18, 2016 Organized by Department of Chemistry, GJUST, Hisar.
 4. Oral presentation in “National Workshop on Emerging Trends in Science” organized by D. A. V. College (Lahore), Ambala City, from February 12-14, 2015.
 5. Oral presentation in “4th National Conference on Recent Advances in Chemical and Environmental Science (RACES-2015)” organized by the Department of Chemistry, Arya P. G. College, Panipat, Haryana, from February 27-28, 2015.
 6. Participated in the “Indo-German Workshop entitled “New perspective for nano-carriers in biomedical application” organized by the Department of Chemistry, Delhi University on 14 January, 2013.
 7. Participated in the one day National workshop on “Ancient Indian Scientific Heritage (AISH-2014)” organised by Department of A.I.H., Cul. & Arch., K.U.K. & Vigyan Bharati, Haryana on 11 November, 2014.
 8. Participated in “51st Annual Convention of Chemists, 2014” held at the Department of Chemistry, Kurukshetra University Kurukshetra, Haryana from December 9-12, 2014.
 9. Participated in “4th Indo-Italian Workshop on “Chemistry and Biology of Antioxidants” organized by the Department of Chemistry, University of Delhi on 16 November, 2010.
 10. Participated in “4th Indo-Italian Seminar on “Green Chemistry and Natural Products” organized by the Department of Chemistry, University of Delhi on 17 November, 2010.
 11. Participated in the National Workshop on “Scientific /Research Paper Writing” organized by The National Academy of Sciences, India from April 5-7, 2013.

Teaching activity

Aug. 2014 to March 2016 Taught as Assistant Professor on contractual basis to Post Graduation student in the Department of Chemistry, Kurukshetra University, Kurukshetra, Haryana, India.

Current Job

13th Feb 2017 to present Working as Assistant Professor, Department of Chemistry, J.C. Bose University of Science & Technology, YMCA, Faridabad, Haryana, India

Additional Skills

Languages English (Fluent), Hindi (Fluent, Mother tongue), Punjabi.

English Typing Can type 55 WPM.

Technical Experience

- Good command on Biology and Bio-technology.
- Can handle air and moisture sensitive reactions, metal catalyzed hydrogenations etc.
- Experience of scaling up of reactions from gram scale to kilo scale
- Can operate analytical instruments (NMR, UV-VIS spectro-photometer, FTIR, GC-MS and HPLC etc).

Research Area

During PhD course, my research was mainly focused on bioorganic field as well as mechanistic study in organic chemistry in general. We developed carbonic anhydrase inhibitors and antimicrobial as well as anti-inflammatory agent in particular in the medicinal area of my research. Since the discovery of carbonic anhydrases, targeting their tumor associated isoforms hCA IX and XII selectively over hCA I and II has been considered as a promising strategy in treatment of cancer. We have designed and synthesized some sulfonamide based heterocyclic scaffolds exhibiting moderate to excellent inhibition profile against hCA IX and XII. The compounds were also shown to be effective against antimicrobial – anti-inflammatory activities. Synthesis of all the target compounds was purely done by us in our laboratory while their biological testing was performed by our collaborators. Apart from this work, we have also developed some facile and efficient methodologies for the synthesis of heterocyclic compounds as well as their precursors.