

Dr. Shruti Satbhaiya

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CAREER SUMMARY:

Proactive and result oriented research scholar with over 8 years of experience as a research fellow and assistant professor. Most recent assignment as SERB-National Post-Doctoral Fellowship at CSIR- National Chemical Laboratory, Pune. Looking for a suitable position in your esteemed organization where I can utilize my knowledge and education with the best of my performance and to evolve as a research scientist.

Research Interests:

- Synthesis of biologically active organic compounds
- Spectroscopic analysis of synthesized compound
- In vitro studies of organic compounds (antimicrobial, antitubercular, antioxidant, antimycobacterial and anticancer activities.)
- 2D and 3D QSAR studies
- Theoretical studies of compounds.
- Analogue based approaches analysis

Hands on Experience

- Experienced in designing and executing multi step synthesis of a library of heterocyclic compounds and ligands.
- Extensive experience in synthesis, purification and characterization of highly functionalized drug-like compound libraries using combinatorial and domino methods.
- Skilled in synthesis of Diversity-oriented fluorescence library for bio-imaging probe development.
- Excellent skills in purification of organic compounds using column chromatography, preparative TLC, HPLC, crystallization and distillation techniques.
- Expertise in handling of FT-IR spectrometer, Rheometer, HPLC, UV-Visible and Powder X-ray diffractometer.
- Expertise in NMR data analysis.

List of Publications:

- Synthesis, Characterization and Evaluation of Anti-tubercular and Antimicrobial Activities of new Thiazole derivatives
Shruti Satbhaiya, O. P. Chourasia, IJPRBS, 2015, 4(1): 265-276. (I.F.-4.278).
- Syntheses, Characterization and Antimicrobial Activities of 1-(1H-benzo[d][1,2,3]triazol-1-yl)-2-(((3aR,5R)-3--5- disubstituted - 3,3a-dihydro-2Hpyrazolo[3,4-d]thiazol-6(5H)-yl)amino)ethanone derivatives.
Shruti Satbhaiya, O. P. Chourasia Chemical Science Transactions 2015, 4, 819-827(I.F.-0.6062)
- Scaffold and cell line-based approaches for QSAR studies on anticancer agents.
Shruti Satbhaiya, O. P. Chourasia RSC Adv., 2015, 5, 84810-84820. (I.F.-3.84).
- Unravelling the Nucleophilicity of Butenolides for 1,6-Conjugate : Addition to p-Quinone Methides: A Direct Access to Diversely Substituted Butenolide Derived DiarylmethanesBrijesh M. Sharma, Dinesh R. Shinde, Ruchi Jain, EeshwaraiahBegari, **Shruti Satbhaiya**, Rajesh G. Gonnade, and Pradeep Kumar*, Org. Lett. 2018, 20, 2787-2791 (I.F. 6.4).
- Tf₂NH catalyzed 1,6-conjugate addition of 2-hydroxy-p-quinone methides with β -Functionalized Ketones: Access to 2,3,4,9-Tetrahydro-1H-xanthenones and 4H-Chromene Derivatives.
Shruti Satbhaiya, Nilesh S. Khonde, Jayant Rathod, Rajesh Gonnade and Pradeep Kumar*, Eur. J. Org. Chem., 2019, 20, 3127-3133. (I.F. 3.029).
- Yttria-zirconia based Lewis acid catalysed acylation of activated aromatic compounds
S. Ramalingam, **Shruti Satbhaiya**, Nilesh Khonde, Madhukar S. Said, Pradeep Kumar*, TMU Journal of Basic & Applied Chemistry, 2021, 1, 1-12. (I.F.0.564).

Book Chapter:

- Proline and Proline derived Organocatalysts in the Synthesis of Heterocycles
Pradeep Kumar and **Shruti Satbhaiya**, Green Synthetic approaches for biologically relevant heterocycles; **Vol.2**-Green Catalytic System and Solvents Advances in Green Chemistry, **Chapter-6**, 2021, 215-251.(Elsevier Publication)

Presentations and Workshops

- Participated in 5th Science Conclave at Indian Institute of Information Technology, Allahabad (U.P.) on Dec08 -14, 2012
- Participated and presented poster on "Synthesis of some new Fused Heterocyclic compounds from thiazole and

pyrazole and their importance in medicine" 19th ISCB International Conference at Mohanlal Sukhadia University Udaipur (Raj.) on March 02-05, 2013.

- Participated and presented oral on "Scaffold and Cell line based QSAR models for Anticancer agents" 32nd Annual National Conference, Indian Council of Chemists, at Karnataka University, Dharwad (Karnataka) on November 28-30, 2013.
- Participated and presented poster on "An Analogue Based Approaches and Importance of 2D QSAR" International conference on Frontier Discoveries and Emerging Opportunities in Life Sciences at Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) on February 13-15, 2014.
- Participated in One day Workshop on "Nuclear Magnetic resonance Spectroscopy and its Applications in Physics, Chemistry and Biology" JEOL at Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) on February 16, 2014.
- Participated in Two days hands on workshop on "Molecular Modelling and Drug Design" Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) on December 16-17, 2014.
- Participated and presented poster on "Synthesis, Characterization and antimicrobial activity of Pyrazoline Derivatives" 102nd Indian Science Congress at University of Mumbai, Mumbai (Maharashtra) on January 03-07, 2015.
- Participated in Global Initiative for academic Networks workshop on "Green and Sustainable Chemistry" at Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) on January 25-30, 2016.
- Participated and presented oral on "An Analogue Based Approaches for Anticancer agents: An Importance of 2D QSAR" 31st M. P. Young Scientist Congress at Vigyan Bhawan, Bhopal (M.P.), February 24-29, 2016.
- Participated in Global Initiative for academic Networks workshop on "Substances of Abuse: Pre and postnatal exposure: Pharmacological effects and analytical methods of Detection" at Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) on September 5-11, 2016

Teaching Experience (5 years 7 months)

Institution	Designation	Date from	Date to
Nehru Mahavidyalaya, Lalitpur, U.P. India	Assistant Professor	15- Sep - 2016	31-Aug-2017
Dr. H. S. Gour University, Sagar, M.P. India	Research Scholar	15 – Sep - 2011	8 – Apr - 2016
Gyan Sagar Engineering College, Sagar, M.P. India	Engineering Lecturer	28 – Aug - 2010	16 – Mar- 2011

Research Experience (2 years)

Institution	Designation	Date from	Date to
CSIR-National Chemical Laboratory, Pune, 411008	Post-doctoral fellow	18- Sep - 2017	17-Sep-2019

Awards

- University fellowship by University Grant commission July 2011 to July 2015.
- National Post-doctoral Fellowship by SERB- DST –New Delhi, September 2017 to September 2019.
- Merit Certificate for NPDF Poster Competition 2021, organized by SERB-ACS.

PROFESSIONAL QUALIFICATIONS:

- Ph.D. (Org. Chemistry) Dr. Hari Singh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh, India
- M.Sc. (Chemistry) Dr. Hari Singh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh, India.
- B.Sc. (CBZ) Raghuveer Singh Rajkiya Mahavidyalaya, Lalitpur, affiliated to Bundelkhand University, Jhansi, Uttar Pradesh

COMPUTER SKILLS

- Operating System: Windows XP, Vista, Windows 7, 8 & 10 and Linux.
- Software's: MS-Office, Adobe Photoshop, Origin lab, Chem Draw, Chem Sketch, AMPAC, CODESSA, SYBYL, Gauss view, Gaussian, autodock and other related software's.
- Working Knowledge on Internet and other essential tools

PERSONAL PROFILE:

Date of Birth: 20th Jan 1988
Gender: Female
Languages: English, Hindi

Marital status: Married
Nationality: Indian
Travel Document: Passport No. Z2683416
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REFERENCE:

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