

Curriculum vitae

Dr. Shama Tumminakatti

Assistant Professor
DOS in Organic Chemistry (Joined in October 2016)
University of Mysore
Manasagangotri Mysuru – 570006



Contact Information

Mobile No. : +91 9481287401
E-mail : shamatumminakatti434@gmail.com

Academic Qualifications

- **Ph. D in Organic Chemistry (2016)**
Research supervisor: Prof. E. N. Prabhakaran, Department of Organic Chemistry
Indian Institute of Science (IISc), Bengaluru, India
Title of the thesis- “Investigating the Intercarbonyl X···C’ (X = O/S/N) Interactions in Short Peptides and Peptidomimetics. Evidence of Charge→π* Interactions. Synthesis and Characterization of Thioimidate Isostere Containing Peptidomimetics”
- Qualified **NET+JRF** (2009), conducted by CSIR, India
- **M. Sc in Organic Chemistry** (2009 – First class with distinction) from the Department of studies in chemistry, Karnataka University, Dharwad, Karnataka, India

Research Experience

Worked as Research Associate from July 2016 to Oct 2016 at Hindustan Petroleum Green R & D Centre, Bengaluru, India

Member of organizing committee

- For The National Conference on Recent innovations in Medicinal and material chemistry -2019 Organised by SAP-UGC, Conducted by DOS in Chemistry and DOS in Organic Chemistry, UOM, Mysore
- For The National Conference on Innovations in Chemical Sciences (NCICS) – 2020, Organised by Department of Science and Technology, Karnataka, Bengaluru, Conducted by DOS in Chemistry and DOS in Organic Chemistry, UOM, Mysore

Presentations

- Oral : Titled “**Spectroscopic and Kinetic Investigations Into the Nature of X···C’ (X = O/S) Interactions in N-Acyl Homoserine Lactones (AHLs)**”. Presented at Pfizer Lecture & 10th and 11th Prof. D. K. Banerjee Memorial Award Lectures 2016 held at Indian Institute of Science, Bengaluru by Department of Organic Chemistry.
- Poster : Titled “**Spectroscopic and Kinetic Investigations Into the Nature of X···C’ (X = O/S) Interactions in N-Acyl Homoserine Lactones (AHLs)**”. Presented at Chemical Sciences Division- ACS mini symposium 2016 held at Indian Institute of Science, Bengaluru

List of Research Publications

1. Spectral evidence for generic charge \rightarrow acceptor interactions in carbamates and esters. Erode N. Prabhakaran, **Shama Tumminakatti**, Kamal Vats and Sudip Ghosh *RSC Advances*. **2020**, *10*, 11871. (ISSN No. - 2046-2069, Impact factor – 3.049)
2. Solution structural features of N-acyl homoserine lactones. **Shama Tumminakatti**, Bhavesh Khatri, Vinayak Krishnamurti, Vishikh Athavale and Erode N. Prabhakaran *Tetrahedron Letters*. **2015**, *56*, 5771. (ISSN No. - 0040-4039, Impact factor – 2.125)
3. Exploring the consequences of a representative “*disallowed*” conformation of Aib on a 3_{10} -helical fold. **Shama Tumminakatti**, Damodara N. Reddy and Erode N. Prabhakaran *Peptide Science* **2015**, *104*, 21. (ISSN No. - 2475-8817)
4. Synthesis of 5,6-dihydro-4*H*-1,3-thiazine containing peptide mimics from *N*-(3-hydroxypropyl)thioamides and epimerization studies. **Shama Tumminakatti**, Damodara N. Reddy, Aparna N. Lakshmi and Erode N. Prabhakaran *Tetrahedron Letters* **2014**, *55*, 4731. (ISSN No. - 0040-4039, Impact factor – 2.125)
5. A method for stabilizing the *cis* prolyl peptide bond: influence of an unusual $n\rightarrow\pi^*$ interaction in 1,3-oxazine and 1,3-thiazine containing peptidomimetics. Damodara N. Reddy, Ravula Thirupathi, **Shama Tumminakatti** and Erode N. Prabhakaran *Tetrahedron Letters* **2012**, *53*, 4413. (ISSN No. - 0040-4039, Impact factor – 2.125)