

Assistant professor, DOS in Chemistry,
Mukthagangotri , KSOU Mysore

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RESEARCH INTEREST Medicinal Chemistry, Natural product synthesis, Designing and characterization of heterocyclic compounds, Synthesis of 2,5-Disubstituted 1,3,4-Thiadiazole using Dithioester

AVAILABILITY • Start time is negotiable; may be possible to start immediately

- Geographic location is flexible

PROFILE SUMMARY 6+ Years of experience in research and development in the area of organic chemistry. Reaction monitoring, purification, crystallisation, TLC, Column chromatography, solvent extraction, skilled communicator and leader. Structure characterization using NMR, IR, UV and LCMS.

WORK EXPERIENCE

- Have extensive experience in reaction monitoring as well as a deep understanding of their reactant and product.
- Predicting the product, writing mechanism like acid catalyzed, base catalyzed reactions.
- Choosing solvents like water, DMSO, DMS, Methanol, Ethanol, temperature monitoring and time maintenance.
- Investigating an effect of substituent on reactant in reaction.
- Solvent extraction and column skill in getting maximum yield.

RESEARCH EXPERIENCE

Biocan syngene

, Bangalore Research Associate **July 2011 to August 2012**

- Synthesis of organic compounds: In this work, monitoring reactions like addition, elimination, rearrangement, oxidation and reduction reactions. Skills like solvent extraction, TLC, column chromatography, crystallization, distillation and product characterization using NMR and LCMS.

Department of Studies in Chemistry, University of Mysore, Mysuru

Research Scholar **June 2015 to October 2020**

- Synthesis of Heterocyclic Compounds Using Dithioester and their Biological Studies.

Supervisor: Dr.K. Mantelingu **TEACHING EXPERIENCE**

- Worked as lecturer in SVEI PU College Mysore. (2013).
- Pooja Bhagavat Memorial Mahajana Education Centre Post Graduate Wing(2014)
- guest faculty in MVPG, Tubinakere and Maharani's Science College, Mysuru. (2014-2021).
 - Presently working as Assistant professor KSOU 2021-Till date

EDUCATION

University of Mysore, Mysuru-570006, Karnataka, India

PhD,(Submitted)(October 2020), DOS in Chemistry, Mysuru.

CSIR-UGC,India NET, June 2013

Master of Science, June 2011,

Per: 65.6

Department of Studies in Chemistry, Mysuru.

B.Ed, 2009, (CTE Mysuru),

BSc, 2007, (Physics, Chemistry and Mathematics),

Per: 66.5

Yuvaraja's College Mysuru

RESEARCH PAPER PRESENTED IN INTERNATIONAL CONFERENCE

"Efficient One-Post Synthesis of 2,5 Disubstituted 1,3,4-Thiadiazole from Dithioesters under Mild Condition" Paper presented in two days international conference on "Developing Drugs for Tomorrow (Challenges and Opportunities)" organized by Aichunchanagiri Institute for Molecular Medicine, held at B G Nagara, Karnataka, during January 2018.

REFEREED PUBLICATIONS

[1] Kemparajegowda, Hasan A Swarup, Nagarakere C. Sandhya, Shobith Rangappa, Kempegowda Mantelingu, and Kanchugarakoppal S. Rangappa. "Efficient OnePot Synthesis of 3, 5-Disubstituted 1, 3, 4-Thiadiazole from Dithioesters under Mild Condition." ChemistrySelect 4, no. 15 (2019): 4611-4614.

[2] Swarup, Hassan A., Kemparajegowda, Kempegowda Mantelingu, and Kanchugarkoppal S. Rangappa. "Effective and Transition-Metal-Free Construction of Disubstituted, Trisubstituted 1, 2, 3-NH-Triazoles and Triazolo Pyridazine via Intermolecular 1, 3-Dipolar Cycloaddition Reaction." ChemistrySelect 3, no. 2 (2018): 703-708.

[3] Kemparajegowda, Hassan A. Swarup, Sandhya C. Nagarakere, Shobith Rangappa, Rangappa S. Kanchugarkoppal, and Mantelingu Kempegowda. "Structural studies of 2, 5-disubstituted 1, 3, 4-thiadiazole derivatives from dithioesters under the mild condition: Studies on antioxidant, antimicrobial activities, and molecular docking." Synthetic Communications (2020): 1-17.

[4] Kemparajegowda, Hassan A. Swarup, Chandrasekar S. Kempegowda Mantelingu, Sulfuric acid-mediated synthesis of 2,5-disubstituted 1,3,4-thiadiazole via intramolecular

cyclization reaction from dithioesters: An approach to crystal structure prediction, DFT studies and Hirshfeld surface analysis.

[5] Kemparajegowda, Hasan A Swarup, Nagarakere C. Sandhya, Shobith Rangappa, Kempegowda Mantelingu, and Kanchugarakoppal S. Rangappa. " An Efficient One-Pot Synthesis of 1,3-Disubstituted imidazo[1,5-a] pyridines from dithioester, 2-methylaminopyridine and alcohol using propylphosphonic anhydride (T3P R) Manuscript under communication.

WORKSHOPS AND CONFERENCES ATTENDED

[6] International symposium on Developing Drugs for Tomorrow (Challenges and Opportunities).

[7] The Indian Science Congress Association Conference.

[8] Seminar on Benefits of Nuclear and Material Sciences in Day to Day Life.

REFERENCES AVAILABLE TO CONTACT

Available upon request. • Dr. K. Mantelingu, Professor Department of Studies in Chemistry

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