Dr Jyothi N Rao

Assistant Professor - stage III

Department of Postgraduate Studies and Research in Chemistry

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Educational Qualification

- MSc in Chemistry, Mangalore University
- PhD in Organic Chemistry titled "Synthetic studies on some Nitrogen and Oxygen containing heterocycles", Mangalore University
- KSET

Recognition:

Recognized as a research supervisor under Mangalore University

- Currently guiding two PhD scholars

Award: Best paper award for Anion detection in water samples using Schiff base based chemosensors in International conference on ICRAJMMS-2023 held at KSR College of Arts and Science for Women, Trichengode, Tamilnadu16th &17th March 2023 (OP -30)

Research Activities

Research Project: (Period, agency, amount)

Funding Agency	Title of Project	Amount	Period/ Status
UGC	Synthesis of biologically important novel pyrazoles	1.75,000/-	2014-2016 Completed
MJES	Synthesis and characterization of novel colorimetric chemosensors for anion triggered CO_2 sensing in aqueous medium	1,25,000/-	2020- 2023 Completed

List of Papers published

1. Synthesis, characterization of organochemosensors and their application for anion detection in water Jyothi Rao, R. Deeksha and G. S. Kavya *Rasayan J.Chem* Vol. 17 | No. 1 |113-117| January - March | 2024
2. A novel and efficient method to synthesis miconazole analogue and its Intermediates K Sujatha, Jyothi Rao , S. Vinayak Bhawat and Soujanya

Rasayan J. Chem 14 2021 0974-1496.

3. Synthesis and study of 3-methyl-N-[arylmethylene]-1H-indazol-5-amines from 2- Hydroxy-4-aminoacetophenone and their antimicrobial activity Sujatha K,Jyothi N Rao, AMA Khader, Balakrishna Kalluraya, *International Research Journal of Pharmacy* 2020,11 (8),2230- 8407

4. Synthesis, Characterization and Antioxidant Activity of Pyrimidinone Derivatives

Jyothi N Rao and Sujatha K *Der Pharma Chemica* 2020, 13 (4):1-4

5. Regioselective reaction: synthesis and pharmacological study of Mannich bases containing ibuprofen moiety KV Sujith, **JN Rao**, P Shetty, B Kalluraya *European journal of medicinal chemistry* 44 (9), 3697-3702

6. 4-Chloro-N′-[(Z)-4-nitrobenzylidene] benzohydrazide monohydrate HK Fun, PS Patil, **JN Rao**, B Kalluraya, S Chantrapromma *Acta Crystallographica Section E:* Structure Reports Online 64 (9), o1707-o1707 2008

7. Microwave assisted one-pot synthesis of some 2, 5-disubstituted 1, 3, 4-oxadiazolesB Kalluraya, **JN Rao,** KV Sujith *Indian Journal Of Heterocyclic Chemistry* 17 (4), 359-362 2008

8. Ethyl4-(4-methoxyphenyl)-2-oxo-6-phenylcyclohex-3-ene-1-

carboxylateHK Fun, SR Jebas, **JN Rao**, B Kalluraya *Acta Crystallographica Section E:* Structure Reports Online 64 (12), o2448-o2448 2008

9. 3-Benzamidomethyl-4-[(E)-2-chlorobenzylideneamino]-1H-1, 2, 4-triazole-5 (4H)-thione

   HK Fun, SR Jebas, **JN Rao**, B *Kalluraya Acta Crystallographica Section E*: Structure Reports Online 65 (1), o48-o48 2009

10. An efficient microwave assisted synthesis of some pyrazolines and their biological activity **JN Rao**, KV Sujith, B Kalluraya *Indian Journal of Heterocyclic Chemistry* 18 (4), 365-368 2009.

11. Synthesis of some thiazoles carrying pyrazole moiety as possible antimicrobial agents **JN Rao**, B Kalluraya, S Shetty *Indian Journal of Heterocyclic Chemistry* 20 (2), 173-174 2010.

12. rac-2-Bromo-3-ethoxy-1, 3-bis (4-methoxyphenyl) propan-1-oneHK Fun, SR Jebas, JN Rao, B Kalluraya *Acta Crystallographica Section E*: Structure Reports Online 65 (1), o19-o19 2009.

13. [3-(4-Chlorophenyl)-5-hydroxy-5-phenyl-4,5-dihydro-1H-pyrazol-1-yl](3-pyridyl) methanone HK Fun, SR Jebas**, JN Rao**, B Kalluraya *Acta Crystallographica Section E:* Structure Reports Online 64 (12), o2363-o2364 2008.

14. Solvent free microwave-assisted synthesis of some novel

pyrimidinones/ thiones and their biological studies, **Jyothi N. Rao** and Balakrishna Kalluraya Page No: 38-42 *Der Chemica Sinica* Volume 7: Issue 3: 2016.

15. Synthesis and antimicrobial studies of some new thiadiazepine derivatives **Jyothi N. Rao** and Balakrishna Kalluraya *International journal of Emerging Trends in Science and Technology* Page No. 3964-3967 (3), 2016.

16. Synthesis of novel pyrazole derivatives by Vilsmeier Haack reaction Jyothi N. Rao, Pooja, Nithya and Royline, *International journal of Emerging Trends in Science and Technology* Page No. 5337-5342 (4)2017.

17. Synthesis of 1,3,4-oxadiazole derivatives, *International journal of chemistry and pharmaceutical science*, 2017, 5(9):155-159.

Refresher Course

Attended 14 days Science Academies Refresher Course on "Molecules and Materials for Application in Synthesis and Devices" from May 7 - May 20, 2018 organized by Saiva Bhanu Kshatriya College, Arupukottai Tamilnadu

Research papers presented in Conferences

1. Anion detection in water samples using Schiff base based chemosensors
   Jyothi N Rao, Shreya Bhakta and Anisha Rebello International conference on ICRAJMMS-2023 held at KSR College of Arts and Science for Women, Trichengode, Tamilnadu16th &17th March 2023 (OP -30)

2. Synthesis, Characterization and biological studies of novel pyrimidanones
   Jyothi N Rao , Pooja and Nithya International conference on advances in Chemical and Material Sciences Mangalore University during October 17-19,2019

3. Synthesis of some novel formylpyrazoles derived from pyrimidines Lingappa B, **Jyothi N. Rao** and Balakrishna Kalluraya National Conference on Current Trends in Chemical Research (CTCR) held at the Dept. of Chemistry, MangaloreUniversity, during 13-14th May 2006 (Abs. No. 77) .
4. Ceric ammonium mediated synthesis of some novel 2,5- disubstituted-1,3,4- oxadiazoles
   Jyothi N. Rao, Sujith K.V and Balakrishna Kalluraya Annual National Conference of ICC, held at Birla College of Arts, Science and Commerce Kalyan Bombay, during 26th-28th December 2006 (Abs. No. 00-CYSA-11).
5. Synthesis of some novel pyrazolines **Jyothi N. Rao**, Sujith K.V and Balakrishna Kalluraya
   Annual National Conference of ICC, held at Birla college of Arts, Science and Commerce Kalyan Bombay, during 26th-28th December 2006 (Abs. No. 00- CYSA -12).

6. Synthesis, Characterization and Biological activity studies of 2-hydrazino-

pyrazolo-thiadiazepine and their hydrazones **Jyothi N. Rao**, Sujith K.V and Balakrishna Kalluraya

National Conference on Emerging Trends in Chemical Research, held at Annamalai University, during 17 -18th October 2008 (Abs. No. P61).

7. Convenient Synthesis and Characterization of some Ibuprofen triazole derivatives Sujith K.V, **Jyothi N. Rao** and Balakrishna Kalluraya National Conference on Emerging Trends in Chemical Research, held at Annamalai University, during 17 -18th October 2008 (Abs. No. P 63).
8. Non-carboxylicanalogues of arylpropionic acids: Synthesis and Characterization of some Ibuprofen oxadiazole derivatives Sujith K.V, **Jyothi N.Rao,** A. Muralidharan and Balakrishna Kalluraya National Seminar on Recent Trends in Chemistry , held at Govt. College, Kasaragod, during 6 -7th November 2008 (YRT-1).
9. Synthesis, Characterization and Biological activity studies of 3-alkyl / aryl -9-substituted-1,2,4 triazolo[3,4-b] pyrazolothiadiazepines **Jyothi N. Rao**, Sujith K.V and BalakrishnaKalluraya27th Annual Conference of ICC, held at Gurukul Kangri Vishwavidyalaya Haridwar, during 27-29th December 2008 (Abs.No.OP-CYSA-03).
10. Synthesis, Structural and Pharmacological Evaluation of Schiff and Mannich bases bearing Ibuprofen moiety Sujith K.V, **Jyothi N. Rao** and BalakrishnaKalluraya27th Annual Conference of ICC, held at Gurukul Kangri Vishwavidyalaya Haridwar, during 27-29th December 2008 (Abs. No. OO-CYSA-03).
11. Synthesis of novel pyrazole derivatives by Vilsmeier Haack reaction Razeena, Abel, Sreenija and **Jyothi N Rao** National conference held at St Aloysius College Mangaluru during 3-4th February 2016 (Abs No. OO-09).