

Vijay Kumar Merugumolu

Department of Pharmaceutical Chemistry
NGSM Institute of Pharmaceutical Sciences
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AREAS OF EXPERTISE

Pre Clinical Evaluation of NCE's

Reporting skills undertaking research

Surveys Academic Research

Data collecting techniques

PROFESSIONAL DEVELOPMENT

Doctoral Degree Programme
Nitte University – July 2014 to Present

M.Pharm (Pharmacology),
RGUHS, Bangalore-2013

B.Pharm, RGUHS Bangalore -2011

STRENGTH

- ✓ Initiative
- ✓ Highly numerate
- ✓ Computer literate
- ✓ Quick learner
- ✓ Team working ability

LINGUISTIC PROFICIENCY

- ✓ Hindi
- ✓ Telugu
- ✓ Kannada
- ✓ Tulu
- ✓ English

Career objective:

To utilize my skills and abilities in impacting the success and growth of a clinical research group in becoming a key person for its reputation as a leader in the clinical research organization.

Qualification Summary

- ✓ Experienced in conducting experiments including preparation, sampling, data collection and analysis and preparation of SOP's
- ✓ Highly proficient in searching for chemical literature as demonstrated during Masters degree
- ✓ Efficient management of research laboratory including maintenance of equipment and materials.
- ✓ Compliance with procedures and protocols in relation to research being conducted as part of industry/university partnership

SKILLS

Computer

- ✓ Extensive knowledge of all Microsoft Office programs
- ✓ Completed advanced courses in Excel, Powerpoint and Word
- ✓ Experienced in the use of advanced Internet search engines
- ✓ Ability to produce systematic reviews using databases such as PubMed, NCBI and RCSB

Communication/Teamwork

- ✓ Positive interpersonal skills demonstrated through teaching and collaboration as part of research teams
- ✓ Excellent feedback on oral presentation and Power point skills throughout studies
- ✓ Proven ability to be an active part in research which takes me to a next level.

RESEARCH EXPERIENCE

Nitte University Funded Projects:

1. In-vitro pharmacological investigation of *Desmodium triflorum* and *Soyamda febrifuga* for anti-diabetic, anti-arthritic and anti-urolithiatic studies.
2. Synthesis and anti-depressant activity of Novel heterocyclic compounds derived from Chalcones.
3. Synthesis and In-vitro membrane stabilizing and inhibition of protein denaturation activities of Novel Pyrazoline derivative.

CONSULTANCY PROJECTS:

Sl. No.	Organization	Title
1.	Savitha University, Chennai	Evaluation of Antidiabetic Activity of Aqueous and ethanolic extracts of leaf of Chloroxylon Swietenia in STZ induced diabetic rats
2.	Department of Chemistry, Mangaluru University, Mangalagangothri	Synthesis, Characterization and Biological Activity of Chalcones and Hydrazones Containing Nitrogen And Sulphur Heterocycles
3.	Department of Chemistry, Mangaluru University, Mangalagangothri	Synthesis, Characterization and Biological Activity of Oxadiazole Derivatives Containing Nitrofurane and Nitrothiophene Heterocycles
4.	Mount Zion Medical College	Evaluation of antihyperlipidemic and hepatoprotective activity of Cinnamomum zeylanicum, Eugenia jambolana and Chloroxylon swietenia plant extracts in albino rats
5.	Mount Zion Medical College, Kerala	Anti diabetic activity of plant extract
6.	Department of Inorganic Chemistry, Karnataka University, Dhawad, Karnataka	Analgesic and anti-inflammatory activity
7.	Dept. of Biochemistry, Gulbarga University, Shimoga	Anti Diabetic activity of herbal samples (Sample 1 and Sample 2)
8.	Dept. of Biochemistry, Gulbarga University, Gulbarga	Hepato protective activity of herbal samples (Crude and isolated Extracts)
9.	Department of Dravyaguna, Shri D.G.M Ayurvedic Medical College, Hospital and P.G Research centre, Dr. S.V Savadi Road, Gadag	Anti-histaminic activity of kashaya & churna.

CONFERENCES / SYMPOSIA ORGANISED

1. As organizing secretary: One day seminar on **“Professional Development and personal excellence”** on 12th March, 2018, held at NGSM Institute of Pharmaceutical Sciences, Nitte (Deemed to be University), Mangaluru.
2. As Co-organizing secretary: National Conference on **“Role of Organic Chemical Intermediates in Cognitive Disorders and Mental Health”** Sponsored by ICMR and Nitte University on 17th – 18th February, 2017, held at NGSM Institute of Pharmaceutical Sciences, Nitte University, Mangaluru.
3. As Organising Committee member: One Day Seminar on **“Perspectives in New Drug Discovery”** on 3rd November 2016, held at NGSM Institute of Pharmaceutical Sciences, Nitte University, Mangaluru.
4. As Organising Committee member: One Day Seminar on **“Role of CADD in Drug Design & Development”** on 26th November, 2015, held at NGSM Institute of Pharmaceutical Sciences, Nitte University, Mangaluru.

RESEARCH PROCEEDINGS

Presentations

1. E-Poster Presentation: Synthesis and in-Vitro evaluation of novel pyrazolone derivative. Presented at National Seminar on Applications of 4 Rs in Alternatives to Animal Testing (4Rs-AAT 2017) held at JSS College of Pharmacy, Ootacamund, Tamilnadu during 15-16 September, 2017. **(Best Presentation)**
2. Oral Presentation: Anti-hyperglycemic activity of Novel pyrazolone derivatives at Two day national conference on “Chemistry for Sustainable Future”, NCCSF 2017 held on 27th – 28th January, 2017 at SDM College, Ujire.
3. Oral Presentation: “Pyrazolones as potential Anti-diabetic and Anti-arthritic agents” at 1st International Conference on Innovations in Pharmaceutical sciences (ICIPS-2016) held at Guru nanak Institutions Technical campus Hyderabad, 29-30 July 2016
4. Oral Presentation: "Synthesis and *In-Vitro* Evaluation of Novel Pyrazolone Derivatives" presented at UGC Sponsored National conference on NEW Approaches and Concepts in Microbial technology, held on 29-30 September 2016 at Maharani Science College for Women, Bangalore.
5. Oral Presentation: “Synthesis and Anticonvulsant Activity of Novel Pyrazolone Derivatives” at National Workshop on Clinical Research Methodology held on 29th – 31st October 2015 at KSHEMA, Nitte University, Mangalore.
6. "Synthesis antidepressant and antiarthritic activity of Novel Pyrazolone Derivatives." Presented at 5th PESCP International Conference held on 17th and 18th October 2015. **(Secured I Prize)**
7. Comparative Study of Anti-allergic Potential among the different Flurobenzothiazole Derivatives Presented at one day National Conference "Re-Visioning Pharmacy Education and Research: Contemporary Issues and Future Strategies" held on 16.03.2014 at Sri Siddhartha Pharmacy College, Nuzvid.
Awarded as Best Presentation.
8. Comparative Study of Antiallergic Potential among the different Flurobenzothiazole Derivatives' Presented at 65th Indian Pharmaceutical Congress to be held during 20-22 December 2013 at New Delhi, India.
9. Cardioprotective Effect of *Tecoma Stans* Flowers in Oxidative Stress Induced by Doxorubicin Myocardial Infarction In Rats. Presented in UGC sponsored National Conference on Biotechnological Approaches in Medicinal and Aromatic plants Research on 21st & 22nd at Maharani's Science College for Women Bengaluru Karnataka.
10. Protective effect of *Tecoma stans* leaf extract on experimentally induced gastric ulcers in rats Presented in 64th Indian Pharmaceutical Congress, SRM University, Chennai held on 7th to 9th Dec 2012.
11. Leaves of *Tecoma Stans* as a Protective agent against Doxorubicin Induced Cardio Toxicity in Rats Presented in ICPG 2012 Theme: Pharma Vision- Present & Future Venue: Chettinad Health City, Kelampakkam, Chennai. Date 6th & 7th October, 2012.
12. Effect of hydro-alcoholic extract of *Tecoma stans* flowers in cisplatin-induced nephrotoxic rats Presented at National Conference on “Current Scenario & Future Prospects of Pharmaceutical Education & Research in

India” in collaboration with Association of Pharmacy Professionals (APP) At Globus College of Pharmacy, Bhopal.

Publications:

1. S B Patil, H S Bhojya Naik, C Nagaraju, R Viswanath, S K Rashmi, **M Vijay Kumar**, Sugarcane juice medicated eco-friendly synthesis of visible light active zinc ferrite nanoparticles: Application to degradation of mixed dyes and antibacterial activities, *Materials Chemistry and Physics* 212 (2018), pp. 351-362
2. P V Sowmya, Boja Poojary, B C Revanasiddappa, **M Vijaykumar**, P Nikil, Vasantha Kumar, Novel 2-methyl-6-arylpyridines carrying active pharmacophore 4,5-dihydro 2-pyrazolines: synthesis, antidepressant, and anti-tuberculosis evaluation, *Research on Chemical Intermediates* Dec 2017, Volume 43, Issue 12, pp 7399–7422
3. S. L. D. V. Ramana Murty Kadali, M. C. Das, R. Vijayaraghavan and **M. Vijay Kumar**, Evaluation of Antidiabetic Activity of Aqueous and Ethanolic Extracts of Leaves of Chloroxylon Swietenia in Streptozotocin (Stz) Induced Diabetes in Albino Rats, *Biomedical and Pharmacology Journal* Vol.10 No.3 Sept, pp 1347-1353
4. B C Revanasiddappa, **M Vijay Kumar**, Prashanth Nayak, Ajmal Roshan Ali, M S Jisha, Synthesis, Antibacterial and Antifungal Evaluation of Novel Pyrazoline Derivatives, *Research Journal of Pharmacy & Technology*, Vol. 10, Issue 5, May 2017, pp. 1481-1484.
5. B C Revanasiddappa, **M Vijay Kumar**, Prashant Nayak, Neethu Jose, Ajmal Roshan Ali, Apoorva, Yashaswini, Synthesis Antibacterial and Antifungal Evaluation of Novel Arylazo Pyrazole Derivatives, *Rapports De Pharmacie*, Vol. 2, Issue 4, 2016, Oct-Dec, pp. 315-318
6. **Vijay Kumar M**, B.C Revanasiddapa, Synthesis and anti-depressant evaluation of novel pyrazolone derivatives. *Bangladesh J Pharmacol* 2016; 11: 558-63.
7. Sunita T, **Vijay Kumar M**, Manjusha MP, and Shanmukha I, Correlation of Antioxidant Principles with Cardioprotective Activity of Madhuca longifolia (Koenig) Leaves on Isoproterenol Induced Myocardial Infarction, *Res J Pharm Bio Chem Sci*, 2016; 7(1): 971-977
8. **Vijay Kumar M**, Revanasiddappa B C Synthesis and antidiabetic evaluation of novel pyrazolone derivatives. *Ind J Het Chem*, 2015; 25: 169-172
9. Shanmukha I, **Vijay Kumar M**, Jayachandran E, Revanasiddappa B C Antiepileptic Activity Of Some Novel Substituted Fluoro Benzothiazole Derivatives *Int J Pharm Pharm Sci*, 2015 ;7(7):157-159.
10. I.Shanmukha, A.M.Madhusudhana, E.Jayachandran, **M.Vijay Kumar** and B. Prakash Comparative Study of Anticonvulsant Property among Different Fluoro Substituted Synthesized Benzothiazole Derivatives *British J Pharm Res* 4(6): 759-769, 2014.
11. Shanmukha ittagi, **Vijay Kumar Merugumolu** , Ramachandra Setty Siddamsetty, Cardioprotective effect of hydro alcoholic extract of *Tecoma stans* flowers against Isoproterenol induced myocardial infarction in rats. *Asi Pac J Trop Dis*
12. Shanmukha, **Vijay Kumar M**, Ramachandra Setty S Effect of *Tecoma stans* leaves for its preventive role on Experimentally induced liver Toxicity . *Int J Pharm Res*: 0974- 4304.
13. Shanmukha I **Vijay Kumar M** Ramachandra Setty S Protective effect of *Tecoma stans* leaf extract on Experimentally induced gastric ulcers in rats .*Int J Drug Dev Res*, 0975-9344.

14. Jignesh Patel K, Shanmukha I, **Vijay Kumar M** Ramachandra Setty S, Rajendra SV Role of polyphenols in nephroprotective potential of *samanea saman (jacq.) Merr* leaves on experimentally induced renal injury The Indo Am J Pharma Res: 2231-6876.
15. Shivakumar B.S., Ramaiah M, Hema M.R., **Vijay Kumar M**, Vaidya V.P. Quantitative Determination of Total Content of Phenol, Flavonoid and Tannin in leaf Extract of *Barlaria Buxifolia* Linn. Am J Pharm Tech Res 2012; 2(5)

Conferences attended:

1. Participated in One day workshop on “Biosafety guidelines and practices for Health care and Research” held on 13th January, 2017 organized by IBSC at Nitte University Mangalore
2. Participated in Drug Discovery India 2016, 4th International conference was conducted by SELECTBIO on 29th and 30th September 2016 held at Le Meridien Hotel, Bengaluru
3. Participated in National Seminar and Work Shop on Functional Nanomaterials for energy, environment and health. held On 21-22 march at Mangalore University.
4. Participated in AICTE sponsored QIP held at Manipal from January 18 to 31, 2016.
5. Participated in One day “Symposium on Animals in Biomedical Research: the Changing perspectives” Sponsored by ICMR, New Delhi and Organized by NGSMIPS Mangalore on 22nd January 2016
6. Participated in the One day seminar on “Role of CADD in Drug Design and Development” held on 26th November 2015, organized by dept. of Pharm. Chemistry, NGSM Institute of Pharmaceutical Sciences, Mangalore.
7. UGC sponsored National Conference on Biotechnological Approaches in Medicinal and Aromatic plants Research on 21st & 22nd March at Maharani’s Science college for Women Bengaluru Karnataka.
8. International Congress of Pharmacy Graduates 2012 Theme: Pharma Vision Present & Future Venue: Chettinad Health City, Kelampakkam, Chennai. Date 6th & 7th October, 2012.
9. One day National Conference on “Current Scenario & Future Prospects of Pharmaceutical Education & Research in India” in collaboration with Association of Pharmacy Professionals (APP) Globus College of Pharmacy, Bhopal on 1st Nov 2012
10. Two-days National conference on “Reforms and Innovations in Pharmacy Education towards global Standards” held on 17th-18th August 2012 at CPS, IST, JNT University, Hyderabad, AP.
11. R.G.U.H.S. Sponsored three days workshop on “**Advanced Experimental techniques in Pharmacology and Molecular Biology**” at Sree Siddaganga College of Pharmacy, Tumkur. Date: 24-26 January 2012.
12. One day national seminar on “Recent Advances in Pharmaceutical Research” Conducted by S.C.S. College of Pharmacy, Harapanahalli in October 2010.

Achievements:

1. **Best Presentation award for** Synthesis and in-Vitro evaluation of novel pyrazolone derivative. Presented at National Seminar on Applications of 4 Rs in Alternatives to Animal Testing (4Rs-AAT 2017) held at JSS College of Pharmacy, Ootacamund, Tamilnadu during 15-16 September, 2017.
2. **Best Presentation award for** Synthesis antidepressant and antiarthritic activity of Novel Pyrazolone Derivatives." Presented at 5th PESCP International Conference held on 17th and 18th October 2015.

3. ***Best Presentation award for*** Comparative Study of Anti-allergic Potential among the different Flurobenzothiazole Derivatives Presented at one day National Conference "Re-Visioning Pharmacy Education and Research: Contemporary Issues and Future Strategies" held on 16.03.2014 at Sri Siddhartha Pharmacy College, Nuzvid.

DECLARATION:

I hereby declare that all the information furnished above is true to the best of my knowledge.

Date : 30/05/2018

Place : Mangaluru

(Vijay Kumar M)