

Dr.M.N.Kumara, M.Sc., B.Ed., Ph.D.,	
Designation	Assistant Professor
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Area of Specialization	Physical Organic Chemistry

AWARDS

- **National Merit Scholarship-1996**
- Prof. D.S. Mahadevappa **Gold medal** for having secured the highest marks in B.Sc., (Chemistry), University of Mysore, Mysore.
- Smt. Lakshmiddevamma **Gold medal** for having secured the highest marks in B.Sc., (Chemistry), University of Mysore, Mysore.
- Prof. B. Sayad Ali **Gold medal** for having secured the highest marks in B.Sc., (Chemistry), University of Mysore, Mysore.
- Prof. H.S. Sankegowda **Cash prize** for having secured the highest marks in B.Sc., (Chemistry), University of Mysore, Mysore.
- **University Project Grant-** Junior Research Fellow, University of Mysore-1998.
- **Postdoctoral Research fellow**, IMCE, Kyushu University, **JAPAN**.

RESEARCH PROJECT

Sl. No.	Title of the Project	Sanction Order No. / Date and Duration	Name of the Funding Agency	Amount sanctioned
1	Major Research Project Synthesis and Mechanistic Investigation of Benzimidazole and Benzothiozole derivatives	F.No.41-317/ 2012 (SR)] July-2012 to June-2015	UGC	7. 15 Lakhs

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- Membership of **American Association for the Advancement of Science-2001**
- Member of **Japan Chemical Society** (2006-2007)
- Life member- **Indian Council of Chemists** (LF-1439)
- Life member- **Indian Science Congress** (LF-24851)

EDITORIAL BOARD MEMBER

- **Journal of Catalyst and Catalysis: April-2014 to till date.**

CONFERENCES ORGANISED

- **Member of Organizing Committee:** International Symposium on Challenges Drug Discovery Programme-2011(ISCDDP-2011). Held at KSOU, Manasagangotri, Mysore-6, INDIA, on Feb.16-17, **2011, INDIA.**

MEMBERSHIP IN ADVISORY COMMITTEE

- **Member of National Adviser Committee:** UGC sponsored national conference on recent trends in chemistry (RTC-2011). Held at P.E.S.College of science, Arts and Commerce, Mandya, Karnataka state, INDIA, on Sep. 16 - 17, **2011, INDIA.**

LIST OF PUBLICATIONS (2010-2014)

- 1) Synthesis of Indolecarboxamides and Their Docking Studies with H1,5HT and CCR2 Antagonist Receptors.
E.Siddalingamurthy, K.M.Mahadevan, N.M.Jagadeesh, **M.N Kumara.**
Am. J. Pharm. Health. Res.,: 2(7), 2014.
- 2) Synthesis and Fluorescence Study of Some New Blue Light Emitting 3-(1,3-benzothiazol/benzoxazol-2-yl)-2Hchromen-2-ones.
K.M.Mahadevan, H.N.Harishkumar, Jagadeesh N.Masagalli, **M.N.Kumara.**
SOP TRANSACTIONS ON ORGANIC CHEMISTRY: Volume 1(1), 2014.
- 3) Crystal structure of cis -1-(2-methyl-1,2,3,4-tetrahydroquinolin-4-yl)azepan-2-one.
P.S.Pradeep, S.Naveen, **M.N.Kumara,** K.M.Mahadevan and N.K.Lokanath
Acta. Cryst., E70,0981–982 (2014).
- 4) Crystal structure of 1-[(2S*, 4R*)-6-fluoro-2-methyl-1,2,3,4-tetrahydroquinolin-4-yl]pyrrolidin-2-one.
P.S.Pradeep, S.Naveen, **M N.Kumara,** K.M.Mahadevan and N.K.Lokanath.
Acta. Cryst., E70, 153–156 (2014).
- 5) Synthesis and docking study of 3-(n-alkyl/aryl piperidyl) indoles with serotonin-5HT, H1 and CCR2 antagonist receptors.
E.Siddalingamurthy, K.M. Mahadevan, N M.Jagadeesh, **M.N. Kumara**
Int. J. Pharm. Pharm. Sci., Vol 6, Issue 4, 475-482, 2014.
- 6) Synthesis of novel γ -carboline derivatives and their *in silico* studies on 5ht1, h1 and ccr2 antagonist receptors.
E.Siddalingamurthy, K.M.Mahadevan, N.M.Jagadeesh, **M.N. Kumara**
Int. J. Pharm. Pharm. Sci., Vol 6, Issue 10, 548-554, 2014.
- 7) Synthesis and cytotoxic studies of 2, 3-dimethylindoles and tetrahydrocarbazoles.
T.O.Shrungesh Kumar, K.M.Mahadevan, **M. N. Kumara**
Int. J. Pharm. Pharm. Sci., Vol 6, Issue 2, 137-140, 2014.
- 8) A Validated Stability Indicating RP-UPLC Method for the Quantitative Determination

of Potential Impurities of Allopurinol.

Sajan P.G, Rohith T, Santosh Patil, Mantelingu K, Rangappa K.S., **Kumara M.N.**
Am. J. Pharm. Health .Res: 2(10). 2014..

- 9) Rapid, highly efficient and stability indicating rp-uplc method for the quantitative determination of potential impurities of carvedilol active pharmaceutical ingredient.
Sajan P.G, Rohith T, Santosh patil, Mantelingu K, Rangappa K .S, **Kumar M. N.**
Int. J. Pharm. Pharm. Sci,: Vol 6, Issue 10, 214-220, 2014.
- 10) RP-UPLC method development and validation for the quantitative determination of potential impurities of trimipramine maleate.
Sajan. P.G and **Kumara. M. N.**
Journal of Pharmacy Research: 8(10), 1475-1479, 2014.
- 11) Synthesis and molecular docking study of N-alkyl/aryl-2-aryl-Indol-3-yl-Glyoxylamides as novel anticancer agents.
N.M. Jagadeesh, K.M. Madhavan, **M. N. Kumara**, N Prashantha.
International Journal of Pharmacy and Pharmaceutical Sciences, Vol.6, 2014.
- 12) Ruthanium(III)-catalysed oxidation of some α -aminoacids by sodium-N-chloro-p-toluenesul fonamide(CAT) in acid medium: Mechanistic investigation.
P. Prasantha, B.K Kempegowda, S.Ananda, K.S.Rangappa and **M.N.Kumara***.
Journal of Molecular Catalysis A: Chemical, 383-384, 203-208, 2014.
- 13) RP-HPLC method development and validation of Desvenlafanine in bulk and pharmaceutical formulations.
S.N.Praveen Kumar, D.G.Bhadre gowda, **M.N.Kumara**, K.Mantelinu and K.S.Rangappa.
Journal of Pharmacy Research, 5(3), 1611-1613, 2012.
- 14) Simultaneous determination of flupenthixol hydrochloride and melitracen hydrochloride in pharmaceutical dosage form by means of high-performance liquid chromatography.
S.N.Praveen Kumar, D.G.Bhadre gowda, **M.N.Kumara**, K.Mantelinu and K.S.Rangappa.
Journal of Pharmacy Research, 5(3), 1608-1610, 2012.
- 15) Trifluoroethanol as a metal-free, homogeneous and recyclable medium for the efficient one-pot synthesis of dihydropyrimidones.
S.V. Rashmi, Raghava, **M.N.Kumara**, K. Mantelingu and K.S.Rangappa
Synthetic Communications, 42, 424-433, 2012.
- 16) Oxidation of L-Amino acids with Metal ion in Sulphuric Acid Medium: Effect of Nucleophilicity and Hydrophobicity on reaction rate.
M. N. Kumara*, K. Mantelingu, D.G.Bhadregowda, Kanchugara Koppal S.Rangappa

***Int. J. Chem. Kinet.*, 43(11), 599-666, 2011.**

- 17) β -Cyclodextrin Catalyzed Oxidation of Some α -Amino acids with Chloramine-T in Alkaline Medium: Kinetics and Mechanistic Studies.

P.Prasantha, B.K.Kempegowda, D.G.Bhadregowda, K.Mantelingu, S.Ananda, Kanchugara Koppal S.Rangappa and **M.N.Kumara***.

***Journal of Molecular Catalysis A: Chemical*, 353-354, 111-116, 2011.**

- 18) N-Bromosuccinimide assisted oxidation of tripeptides and their amino acid analogs: Synthesis, kinetics, and product studies

N S.Linge Gowda, K.Mantelingu, Kanchugara Koppal S. Rangappa and **M.N.Kumara**

***Journal of Molecular Catalysis A: Chemical*, 309, 172-177, 2009.**

- 19) N-Bromosuccinimide assisted Oxidation of hydrophobic tetrapeptide sequence of elastine: A mechanistic Study

N.S.Lingegowda, **M. N. Kumara**, D.Channegowda, Kanchugara Koppal S Rangappa and Netkal M Madegowda

***Journal of Molecular Catalysis A: Chemical*, 269, 225-233, 2007.**

- 20) N-bromosuccinimide Oxidation of Dipeptides and their Amino Acids: Synthesis, Kinetics and Mechanistic Studies

N.S.Linge gowda, **M. N. Kumara**, D. Channe gowda and K.S. Rangappa .

***Int. J. Chem. Kinet.*, 38(6), 376-385, 2006.**

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CONFERENCE/SEMINAR: ATTENDED/PARTICIPATED

1. ***Attended***: National Conference on Pure and Applied Chemistry on the occasion of Golden Jubilee Celebration of Department of Studies in Chemistry held at DOS in Chemistry, Manasagangotri, Mysore during 29th to 31st December, **2014** in **INDIA**
2. ***Poster presentation***: International Symposium on Chemical Biology-Drug Discovery: Hydrophobic interaction of substituted phenoxazines with bovine serum albumin and reversal of drug resistance in bacterial cells. Held in Mysore University, on January 9th and 10th, **2014** in **INDIA**.
3. ***Poster presentation***: National conference on impact of chemical biology on society (NCICBS-2012): Reactivity of nano-scale laser-flash photolytically generated substituted diarylmethyl carbocations with aliphatic substituted alcohols: Solvent nucleophilicity. Held at Department of Industrial Chemistry, Kuvempu University, Shimoga on April 26 and 27, **2012** in **INDIA**.
4. ***Poster presentation***: UGC sponsored international conference on synthesis and structural Chemistry (ICSSC-2011): Nanosecond Laser Flash Photolytic Generation of Substituted Diarylmethyl Cations in Acetonitrile: Reactivity of Acidic Nucleophiles. Held

at Department of studies in Chemistry, Mangalore University, Mangalore during Dec. 8-10, **2011** in **INDIA**.

5. **Attended:** College level one day seminar on chemistry and materials on the **occasion of International year of Chemistry 2011**: Held at Department of Chemistry and Department of Polymer Science and Technology, JSS college of engineering, Mysore-5700 05, on 25th November, **2011** in **INDIA**.
6. **Poster presentation:** UGC sponsored national conference on recent trends in chemistry (RTC-2011): Ru(III)-catalysed oxidation of some α -aminoacids by sodium *N*-chloro-p-toluenesulfonamide(CAT) in acid medium: Mechanistic investigation. Held at P.E.S. College of science, Arts and Commerce, Mandya, on Sept. 16 and 17, **2011** in **INDIA**.
7. **Poster presentation:** International Symposium on Challenges Drug Discovery Programme-2011(ISCDDP-2011): Oxidation of *L*-Amino acids with Metal ion in Sulphuric Acid Medium: Effect of Nucleophilicity and Hydrophobicity on reaction rate. Held at KSOU, Manasagangotri, Mysore-6 on Feb.16 and 17, **2011** in **INDIA**.
8. **Oral presentation:** The 20th International Conference on Physical Organic Chemistry: Nucleophilic Reactivity of n-Aliphatic Higher Alcohols in Acetonitrile: Held at Busan on August 22 - 28, **2010** in **SOUTH KOREA**.

Research Guidance for Ph.D Degree

Sl. No.	Name of the Research Scholar	Registration No.	Title	Status
1	MR. BASAVARAJU B.C.	Ex:9.6/Ph.D./PR339/2011-12 dated: 29-02-2012	Synthesis and mechanistic investigation of oxidation of Benzimidazole & benothiazole derivatives	Doing Research
2	MR. SRIDHAR B.T.	Ex:9.6/Ph.D./PR337/2011-12, dated: 29-02-2012	phenoxazines as specific inhibitors of Akt in cancer cells and their kinetics and mechanistic approach	Doing Research
3	MR. SAJAN P.G.	Ex:9.6/Ph.D./PR338/2011-12, dated: 29-02-2012	New Analytical Methods Development and Validation of Pharmaceutical Drug Substances	Doing Research
4	MR.HARSHA. M.	Ex.9.9/Ph.D/PR1264/2012-13	Kinetics and Mechanistic studies of some physiologically impotent drug molecules	Doing Research
5	MR.JEEVAN.	DOR.9.4/Ph.D/PR0296/2014-15	Oxidation of Pharmacologically Active Drug by N-metallo-N.halogeno-Aryl Sulphonamides: A Kinetic Study using spectrophotometry	Doing Research