

**BIO-DATA OF**  
**Dr. K. H. NARASIMHAMURTHY**  
Assistant Professor  
Department of Studies in Organic Chemistry  
Manasagangotri, University of Mysore  
Mysuru-570006, Karnataka, India

### PROFILE

Four years of experience as a researcher. Extensive knowledge in the field of Synthetic organic chemistry and Medicinal chemistry, to pursue and establish an independent and high quality research program, to engage in relevant professional and seeking a career to share my knowledge and experience with students and gain more experience into the education and teaching field.

### ACADEMIC EXPERIENCE

1. Worked as a guest lecturer for M.Sc. Organic Chemistry at DOS in Chemistry, University of Mysore, and Mysuru for the year 2014-15.
2. Worked as an Assistant professor for M.Sc. Organic Chemistry at Department of Chemistry, Acharya Institute of Graduate Studies from 14-9-2015 to 02-04-2016.
3. Presently working as an Assistant professor for M.Sc. Organic Chemistry at Department of Studies in Organic Chemistry, Manasagangotri, University of Mysore, Mysuru-570006, Karnataka, India, from 04-04-2016 to till date.

### EDUCATION DETAILS

- ✓ BSc (Chemistry, Zoology, Microbiology), Govt. Science College, Tumakuru.  
Tumkur University: Year 2005-2008,
- ✓ MSc Chemistry.  
Kuvempu University: Year 2008-2010,
- ✓ Ph.D in Chemistry  
University of Mysore: Year 2012-2015.  
Thesis title: Novel Approach for the Synthesis of Nitrogen containing Heterocycles and Their Biological Studies.

### ACADEMIC ACHIVEMENTS

- ✓ Qualified Karnataka State Lecture Eligibility Test (K-SET) in chemical sciences conducted by University of Mysore December-2014.

### MEMBERSHIP IN SCIENTIFIC SOCIETIES

Life member of Indian Science Congress Association (Membership no L24889).

### SEMINARS, WORKSHOPS, CONFERENCES, SYMPOSIA ATTENDED

1. **International Conference on “Synthetic and Structural Chemistry” (ICSSC-2011)** held on 8<sup>th</sup>-10<sup>th</sup> December, 2011 at DOS in Chemistry, Mangalore University, Mangalagangothri, Mangaluru.
2. International conference conducted by 100<sup>th</sup> **Indian science congress association 1-7<sup>th</sup> January- 2013 (Kolkata).**
3. **National conference on “Recent Trends in Chemical Research”** held on 3<sup>rd</sup> and 4<sup>th</sup> January 2014 Sri Jayachamaraja College of Engineering Mysuru.

4. **Seminar on “Benefits of nuclear and material sciences in day to day life”** held on 21<sup>st</sup> and 22<sup>nd</sup> August 2015, University of Mysore, Mysuru.
5. International conference conducted by 103<sup>rd</sup> **Indian science congress association 1-7<sup>th</sup> January- 2016 (Mysore).**
6. **National conference on “Emerging trends in nano chemistry”** held on 2<sup>nd</sup> February 2017 MMK & SDM Mahila Maha Vidyalyaya, Krishnamurthipuram, Mysore.
7. **International Symposium on “Developing Drugs for Tomorrow Challenges and Oppurtunities”** held on 1<sup>st</sup> and 2<sup>nd</sup> January 2018 Adichunchanagiri institute of molecular medicine, B G Nagara, Karnataka India.
8. **National conference on “Biodiversity and Bioprospecting for Sustainable Development”** 23<sup>rd</sup> and 24<sup>th</sup> of February 2018 at Institution of Excellence, Vijnana Bhvana, University of Mysore, Mysuru.

#### POSTER, ORAL PRESENTATION

1. **International symposium on “Chemical biology and drug discovery”** held on 9<sup>th</sup>-10<sup>th</sup> January, 2014 at University of Mysore. Presented poster entitled “Synthetic utility of propylphosphonic anhydride and DMSO media: An efficient one pot three component synthesis of 2-arylquinolines.
2. **National conference on pure and applied chemistry (NACOPAC)** held on 8<sup>th</sup> – 10<sup>th</sup> December, 2014 at DOS in Chemistry, University of Mysore. Presented oral presentation “Easy access for the synthesis of 2-aryl 2,3 dihydroquinazolin-4(1H)-ones using *gem* dibromomethylarenes as synthetic aldehyde equivalent”.
3. **International symposium on “Chemical Biology and Drug Discovery”** held on 9<sup>th</sup>-10<sup>th</sup> January, 2015 at University of Mysore. Presented poster entitled “Synthesis and evaluation of 5-((5-(4-methoxyphenyl)furan-2-yl) methylene) thiazolidine-2,4-diones as a new class of cytotoxic agents for leukemia treatment”.
4. **National one-day seminar on “Chemistry and Chemical Biology”** held on 26<sup>th</sup> may 2015 University of Mysore, Manasagangotri, and Mysuru-570006. Presented poster entitled Synthesis and antiproliferative activity of 2,3-dihydroquinazolin-4(1H)-ones.
5. **National conference on “Science and Technology for National Development-Health, Environment and Agriculture”** held on 5<sup>th</sup> and 6<sup>th</sup> October 2016 Jain University Bangalore presented poster entitled 2,3 dihydroquinazolinones as potential antiproliferative and tumor inhibitory agents.
6. **International conference on “Advanced Functional Materials for Energy Environment and Healthcare”** held on 18<sup>th</sup> to 20<sup>th</sup> March 2019 presented poster entitled Synthesis of piperidine conjugated dihydroquinazolin-4(1H)-ones and their antiproliferative activity, molecular docking studies and DFT calculations.
7. **107<sup>th</sup> Indian science congress association 3-7<sup>th</sup> January- 2020 (Bangalore GKVK).** Presented poster entitled Synthetic Utility of ZrO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> in Synthesis of 2,3-dihydroquinazolin-4 (1H) –ones.

#### RESEARCH EXPERIENCE

1. Worked as Project trainee in **Astra Zeneca India, Pvt. Ltd.** from 6<sup>th</sup> June 2009 to 30<sup>th</sup> June 2009.
2. Worked as a project fellow under UGC sponsored one time grant from October 2011 to March 2013, DOS in chemistry, UOM, Mysore.
3. Worked as a Junior and Senior Research Fellow under Research Fellowship in Science for Meritorious Students (**UGC-RFSMS**) for **Ph. D.** degree in **Chemistry** entitled “**Novel Approach for the Synthesis of Nitrogen Containing Heterocycles and their**

**Biological Studies**” under the guidance of **Prof. K. S. Rangappa**, DOS in chemistry, University of Mysore, Mysuru from 20<sup>th</sup> April 2013 to 26<sup>th</sup> June 2015.

#### CONFERENCE CONDUCTED

1. Organizing committee member of national conference on “**Recent Innovations in Medicinal and Material Chemistry**” held on 8<sup>th</sup> and 9<sup>th</sup> March 2019 DOS in Chemistry, University of Mysore, Mysuru (Sponsored by UGC-SAP-DRS III and UPE).
2. Organizing committee member of **National conference on Innovations in Chemical Sciences**” held on 30<sup>th</sup> and 31<sup>st</sup> January 2020 Vijnana Bhavan, University of Mysore, Manasagangotri, Mysuru (Sponsored by Karnataka Science and Technology Academy).

#### RESEARCH PUBLICATIONS

1. **K. H. Narasimhamurthy**, S. Chandrappa, K. S. Sharath Kumar, T. R. Swaroop, K. S. Rangappa. “Synthetic utility of propylphosphonic anhydride – DMSO media: an efficient one-pot three component synthesis of 2-aryl quinolines”. **Chem. Lett.** 2013, 42, 1073-1075.
2. **K. H. Narasimhamurthy**, S.Chandrappa, K. S. Sharath Kumar, K. B. Harsha, H. Ananda and K. S. Rangappa. Easy access for the synthesis of 2-aryl 2,3 dihydroquinazolin-4(1H)-ones using gem dibromomethylarenes as synthetic aldehyde equivalent, **RSC Adv.** 2014, 4, 34479-34486.
3. K. S. Sharath Kumar, T. R. Swaroop, K. B. Harsha, **K. H. Narasimhamurthy**, K. S. Rangappa “T3P-DMSO mediated one pot cascade protocol for the synthesis of 4-thiazolidinones from alcohols”. **Tetrahedron. Lett.** 2012, 535619–5623.
4. K. S. Sharath Kumar, Ananda H, Mahesh Hegde, **K. H. Narasimhamurthy**, S. C. Raghavan, K.S. Rangappa, Synthesis and antiproliferative effect of novel 4-thiazolidinone-,pyridine- and piperazine-based conjugates on human leukemic cells. **Eur.J.Med.Chem.** 2014, 81, 341-349.
5. C. V. Kavitha, S. Chandrappa, **K. H. Narasimhamurthy** and K. S. Rangappa Synthesis and Evaluation of 5-((5-(4-methoxyphenyl)furan-2-yl) methylene)thiazolidine-2,4-diones as a New Class of Cytotoxic Agents for Leukemia Treatment. **Asian Journal of Biochemical and Pharmaceutical Research.** 2014, 4, 309-323.
6. Ananda H, K.S. Sharath Kumar, Mahesh Hegde, **K. H. Narasimhamurthy**, S. C. Raghavan, K. S Rangappa, *In Vitro* Topoisomerase II Inhibitory and Apoptotic Activities of Novel 3,5 Disubstituted Thiophene-2-carboxylates, **Organic & Medicinal Chem IJ.** 2016; 1(2): 555556.
7. **K. H. Narasimhamurthy**, Ananda. H, K. S SharathKumar, K. S Rangappa, Dihydroquinazolinones as Potential Antiproliferative and Tumor Inhibiting agents, **Organic & Medicinal Chem IJ.** 2016; 1(2): 555560.
8. Y.R.Girish, K.S.SharathKumar, **K. H. Narasimhamurthy**, K. S Rangappa, S. Shashikanth, ZrO<sub>2</sub> nanoparticles-supported Cu<sub>2</sub>(II)-β-cyclodextrin mediated synthesis of N-2 substituted tetrazoles by [2+3] cycloaddition and post tetrazole alkylation, **Asian J. Chem.** 2018, 30, 1093-1098.
9. **K. H. Narasimhamurthy**, A. M. Sajith, K. S. Rangappa, Synthetic utility of gem-dibromomethylarenes in organic synthesis, **Syn Commun**, 2019, 49, 1777-1801.

10. **K. H. Narasimhamurthy**, Y.R.Girish, N.Thimmaraju, K.S.Rangappa, Utility of  $ZrO_2-Al_2O_3$  in the synthesis of 2,3-dihydroquinazolin-4(1*H*)-ones, **Chemical Data Collections**, 2019, 21, 100230.
11. **K. H. Narasimhamurthy**, Chandra, B. K. Sagar, K. S. Rangappa, H. S. Yathirajan and C. Glidewell, The crystal structure of (RS)-7-chloro-2-(2,5-dimethoxyphenyl)-2,3-dihydroquinazolin-4(1*H*)-one:two hydrogen bonds generate an elegant three dimensional Frame work structure, **Acta E**, 2019, 75, 843-847.
12. B. Savitha, Eeda Koti Reddy, C.S. Ananda Kumar, R. P. Karuvalam, M. Syed Ali Padusha, V. A. Bakulev, **K. H. Narasimhamurthy**, A. M. Sajith, M. N. Joy, A modified approach for the site selective direct C-6 arylation of benzylated uracil, **Tetrahedron Lett.**, 2019,151332.
13. **K. H. Narasimhamurthy**, Chandra, T. R. Swaroop, S. Jagadish, K. S. Rangappa, Synthesis of Piperidine Conjugated Dihydroquinazolin-4(1*H*)-ones and their Antiproliferative Activity, Molecular Docking Studies and DFT Calculations, **Letters in Drug Design & Discovery**, 2020, 17, 85-93.
14. **K. H. Narasimhamurthy**, A. M. Sajith, M. N. Joy, K. S. Rangappa, An overview of recent developments in the synthesis of substituted thiazoles, **Chemistryselect**, 2020, 5, 5929-5656.