

Curriculum Vitae

Dr. C. S. Ananda Kumar

Associate Professor
Department of Applied Sciences
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Professional Career:

- Working as Associate Professor at Department of Nanotechnology, Muddenahalli, Visvesvaraya Technological University, December 2013 –to till date .
- **JSPS Post-Doctoral Fellow:**
Prof. Kenji Monde, Hokkaido University, Japan, November 2011 to November 2013
- **Post-Doctoral Associate:**
Prof. L. J. Williams, Department of Chemistry and Chemical Biology, Rutgers University, USA, Feb 2011 to October 2011
- **Dr. D. S. Kothari Post-Doctoral Fellow:**
Prof. Goverdhan Mehta, Department of Organic Chemistry, Indian Institute of Science, Bangalore, and School of Chemistry, University of Hyderabad. Hyderabad, India, September 2008 to January 2011.

Educational Qualification:

- **Doctor of Philosophy (Chemistry):**
Prof. K. S. Rangappa, Department of Studies in Chemistry, Entitled of thesis, “Synthesis, Characterization and Biological Studies of *N*-Substituted 1-Benzhydryl-piperazine and Hydantoin Derivatives”, April 2005 – July 2008.
- **Master of Science (Chemistry):** Department of Studies in Chemistry, University of Mysore, Mysore, 2001-2003 (First class).
- **Bachelor of Science (PCM):** Bharathi college, University of Mysore, Mysore, 1998-2001 (First Class),

Honors and Fellowships:

- Awarded **Best Research Publication** from Vision Group of Science and Technology (VGST) 2018-2019 by Government of Karnataka, Bengaluru
- Awarded **Japan society for the promotion of Sciences (JSPS)** Post-doctoral fellowship for two years by Government of Japan, Japan (Nov 2011 to November 2013).

- Awarded **Dr. D. S. Kothari post-doctoral fellowship** by University Grants Commission (UGC), New Delhi (September 2009 – January 2011).
- Awarded UGC-SAP Junior Research Fellowship (JRF) by University Grants Commission (UGC), New Delhi (April 2005-July 2008).

Membership/Professional Activities

- Member, American Chemical Society (ACS), USA
- Member, Royal Society of Chemistry (RSC), London.
- Lifetime Member, Indian Society of Analytical Scientists, India (ISAS).
- Lifetime Member, Chemical Research Society of India (CRSI).
- Lifetime Member, Indian Society of Chemists and Biologists (ISCB).
- Lifetime Member, Society of Biological Chemists (SBC), India
- Lifetime Member, Indian Association for Cancer Research (IACR)
- Lifetime Member, Indian Council of Chemists (ICC).
- Lifetime Member, Society of Polymer Science (SPSI), India
- Lifetime Member, Indian JSPS Alumni Association (IJAA)
- Lifetime Member, Indian Science Congress Association (ISCA)

Academic Responsibilities

- BoE, Member, Nanotechnology for UG-PG under VTU since 2021.
- BOS Member, Nanotechnology for Post Graduate under VTU since 2016-2018.
- BOE Member, Nanotechnology for Bachelor of Engineering under VTU 2016-2018.
- BOE Member (Invited), Centre for Materials for Post graduate under University of Mysore since 2017-2018.
- Deputy Chief Superintendent (External/Internal) to conduct VTU exams 2014-2016
- Technical Committee member, Asia-Pacific Chemical, Biological and Environmental Engineering Society, ICCBS since 2015-2018.

Industrial Experience:

- As Research chemist in **Hikal Research and Development Centre**, Bangalore, India, February 2004 to April 2005.
- As Research chemist in **Jubilant Biosys Ltd.**, Bangalore, India, September 2003 to February 2004.

Research Interests:

- Total synthesis of biologically active natural products
- Development of novel synthetic methodologies
- Medicinal chemistry
- Nanotechnology in Drug Discovery/Nanomedicine

Projects sanctioned as Principal Investigator

1. **Establishment of Nanobiotechnology laboratory for drug discovery programme in cancer therapy** submitted to VGST, Govt of Karnataka under K-FIST (Level I) Rs. 20.0 lakhs for two years

Presentation/Participation in Conference/Symposia/Workshop

- National conference on **“Science and Technology: Rural Development – 2019” (NCSTRD)**, held at University of Mysore, 17-18 October 2019 (**Organising Committee**).
- International Conference on **Nano Engineering Science and Research Advances - 2019 (NESARA-2019)**, held on 09 September, 2019 at Department of Nanotechnology, Visvesvaraya Technological University, Muddenahalli.
- International Conference on Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC) organized by Centre for Materials Science and University of Mysore at University of Mysore, 18-20 March, 2019 (**Organising Committee**).
- International Symposium on Nanomaterials-2018, held on 22 September, 2018 at Department of Nanotechnology, Visvesvaraya Technological University, Muddenahalli (**Organising Committee**).
- National Conference on Biodiversity and Bio-prospecting for sustainable Development – 2018 (BBSD - 2018) organized by Institution of Excellence in association with PURSE, Vijnana Bhavan, University of Mysore at University of Mysore, 23-24 February 2018 (**Session Chair**).
- International Conference on Science and Technology (STFCS-2016) organized by IJAA and University of Mysore in association with JSPS, at University of Mysore, 8-9 August, 2016 (**Organising Secretary**).
- Workshop on TAXONOMY and COURSE OUTCOMES organised by Visvesvaraya Technological University, Regional Office, Bengaluru during 03-04 Jan 2017. At Bengaluru.
- International Conference on Nanotechnology (ICNANO 2016) organized by Department of Nanotechnology, Visvesvaraya Technological University, Muddenahalli, 21-23 April, 2016 (**Joint Secretary**).
- 8th Bangalore India Nano, Lalit Ashok, Bangalore 3-4, March 2016.

- International Conference on Metals in Genetics, Chemical biology and Therapeutics (ICMG 2016), Indian Institute of Science, Bengaluru, 17-20, February, 2016 (**Poster presentation**).
- 103rd Indian Science Congress, University of Mysore, Mysore, 3-7, Jan 2016.
- International Conference on Ceramic and Advanced Materials for Energy and Environment, Christ University, Bengaluru, 15-17, December, 2015.
- Workshop on Nanomaterial held at VTU Regional office, Bangalore, 14th December, 2015.
- National conference on Advanced Functional Materials (AFM-2015) organized by DSCE and DSU, Bangalore, 4-5 December, 2015.
- BangaloreITE.biZ, 2014 Organized by Department of IT BT and S&T Government of Karnataka held at Bangalore, 8-10 December, 2015.
- 15th International Conference on Chiroptical Spectroscopy held at Hokkaido University, Sapporo, 30th August – 3rd September, 2015 (**Poster presentation**).
- One-day National Seminar on Chemistry and Chemical Biology on the occasion of Prof. K.S. Rangappa's 60th birthday held at University of Mysore, Mysore, 26th May, 2015.
- Workshop on Computational Methods in Small Molecule and Bio-pharmaceutical Drug Discovery organized by University of Mysore, Institute of Excellence in association with Schrodinger Inc., USA at Mysore, 7-9, May, 2015.
- Workshop in Biorisk Management organized by USA, at VTU Regional Office, Bangalore, 16-18, March, 2015.
- International Symposium on Chemical Biology Approach to Metabiomics, Chemical Genomics and Epigenomics (ISCBMCE-2015) organized by University of Mysore at Mysore, 18-16, February, 2015 (**Poster presentation**).
- Two days conference on ISTD- Southern regional conference, 2015 Organized by VTU/Indian Society for Training and Development held at VTU Regional Centre, Bangalore, 28-29, January, 2015.
- Faculty Skill Development Programme Conducted by VTU at VTU Regional Centre, Bangalore, 12-17, January, 2015.

- India Bangalore Nano – 2014 Organized by Department of IT, BT and S&T Government of Karnataka held at Bangalore, 4-6, December, 2014.
- Workshop on X-Ray Crystallography, DOS in Physics, University of Mysore, 10th November 2014.
- Global Renewable Energy Summit – 2014 Organized by Federation of Karnataka Chamber of Commerce and Industry held at Bangalore, 5-7, June, 2014.
- Soft Skills Program organized by Latitude Edutech, Centre for Post-graduate Studies, Bangalore, 10th April, 2014.
- Faculty Training Programme; Two Day Workshop on NUVOTON nu-Micro ARM Cortex-M0 and its Applications Organized by Department of Nanotechnology and Department of DECS, VTU CPGSB at Bangalore, 18-19, March, 2014.
- Workshop on “Training of Evaluators on Outcome Based Education and Accreditation” organized by VTU Belagavi, 3rd February, 2014 and 14-16, March 2014.
- Faculty Development Programme on “Role of Teachers: Challenges and Opportunities” organized by VTU Belgaum, India, 23rd February 2014.
- Author workshop jointly organized by VTU Belgaum and Springer, Central College, city campus, Bangalore University, India, 13th February 2014.
- 27th National Convention of Metallurgical and Materials Engineers (NCMME) on Multi-Functional and Adaptive Materials organized by the Karnataka State Centre, Institute of Engineers, Bangalore, India, 6-7 February 2014.
- International Symposium on Chemical Biology-Drug discovery, University of Mysore, Mysore, India, 9-10 January 2014.
- The 11th International Symposium for future drug discovery and Medical care - **Poster presentation**, Hokkaido University, Sapporo, Japan, 31st July, 2013.
- 14th International Conference on Chiroptical Spectroscopy – **Poster presentation**, Vanderbilt University, Nashville, TN USA, June 9-13, 2013.
- The Symposium on Molecular Chirality 2013 - **Poster presentation**, Kyoto University, Kyoto, Japan, 10th-11th May, 2013.

- The 4th Symposium on Chiral Science and Technology - **Oral presentation**, Waseda University, Tokyo, Japan, 1st March, 2013.
- The Indian Institute of Science Centenary Conference held at Indian Institute of Science, Bangalore, India, 13 -16 December 2008.
- National Conference of Indian Chemical Society (ICC-2007), Department of Chemistry, Kalyan, Bombay, India, 11-15 April 2007.
- National Symposium on Bio-Organic and Medicinal Chemistry (NSBM-2005), Department of Studies in Chemistry, University of Mysore, Mysore, India, 5-7 September 2005.
- Short Term Course on Topics in the Chemistry and Physics of Materials, JNCASR, Bangalore, 14-15 October 2004.

Research Publications:

1. B. Shwetha, M. Srinivasa Sudhanva, G.S Jagadeesha, N.R Thimmegowda, Vivek K Hamse, B.T Sridhar, K.N Thimmaiah, C.S Ananda Kumar, Rangappa Shobith, K.S Rangappa. Furan-2-carboxamide derivative, a novel microtubule stabilizing agent induces mitotic arrest and potentiates apoptosis in cancer cells, *Bio-organic Chemistry*, **2021**, *108*, 104586.
2. S. Jagadeesh Babu, Murthy M, Navya Rani, M. Ravi, Chaitrabanu C, Manjunath Shetty, Prasanna D. Shivaram, **C. S. Ananda Kumar**, Dinesh Rangappa, Carbon-Based TiO₂-x Heterostructure Nanocomposites for Enhanced Photocatalytic Degradation of Organic Pollutants. *Ceramics International*, **2021**, *47(7)*, 10314-10321.
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3. S. Jagadeesh Babu, V. Navakoteswara Rao, Dharmapura H.K. Murthy, Mahesh Shastri, Murthy M, Manjunath Shetty, K. Anantha Raju, Prasanna D. Shivaram, **C. S. Ananda Kumar**, M.V. Shankar, Dinesh Rangappa, Significantly enhanced cocatalyst-free H₂ evolution from defect engineered brown TiO₂. *Ceramics International*, **2021**, *47(10)*, 14821-4828..
4. Bhushanarao Dogga, **C. S. Ananda Kumar**, Jayan T Joseph, Palladium-Catalyzed Reductive Carbonylation of (Hetero) Aryl halides and Triflates using Cobalt carbonyl as CO Source. *European Journal of Organic Chemistry*, **2021**, *2021(2)*, 309-311.
5. Bhaskaran Savitha, Eeda Koti Reddy, C. S. Ananda Kumar, Ranjith P. Karuvalam, M. Syed Ali Padusha, Vasiliy A. Bakulev, Kereyagalahally H. Narasimhamurthy, Ayyiliath M. Sajith, Muthipeedika Nibin Joy, A modified approach for the site-selective direct C-6 arylation of benzylated uracil. *Tetrahedron Letters*, **2020**, *60*, 151332-151333.

6. Krishnamurthy K. N, Sridhara S. N, **Ananda Kumar C. S**, Optimization and kinetic study of biodiesel production from Hydnocarpus wightiana oil and dairy waste scum using heterogeneous CaO nano catalyst. *Renewable energy*, **2020**, *146*, 280-296.
7. S.B. Benaka Prasad, Sachin Mysore, C.S. Ashok Raj, K.S. Rangappa, K. Mahadevaiah, **C. S. Ananda Kumar**, Synthesis of novel 2,3-dihydro-5,6-dimethoxy-2-((piperidine-4-yl)methyl) inden-1-one derivatives: As Acetyl Cholinesterase Inhibitors, *Current Bioactive compounds*, **2020**, *16*, 348-357.
8. Prakash Bhaskar, Suresha Kumara Tholappanavara. Hanumanthappa, **Ananda Kumar Channapille Koppalu Sidddegowda**, Sowmya Haliwana Banakara Vijaykumar Bhuvanesh Sukhlal Kalal, Vinitha Ramanath Pai, Vasantha Kumar, Sujan Ganapathy, Synthesis of Pyrimidinone Associated Triazole Carboxamides: Anticancer and DNA Binding Studies, *Current Bioactive compounds*, **2019**, *15*, 000. DOI: [10.2174/1573407215666190328222350](https://doi.org/10.2174/1573407215666190328222350)
9. Haridas K.R, Syed Ali Padusha Mohamed Khan, Bhaskaran Savitha, Eeda Koti Reddy, Parthasarathi D, Rajeeesh Pakkath, Ayyiliath M Sajith, **C. S. Ananda Kumar**. A highly efficient pre-catalytic system (XPhos-PdG2) for the Suzuki-Miyaura cross-coupling of 7-chloro-1H-pyrrolo[2,3-c]pyridine employing low catalyst loading, *Molecular diversity*, 2019, *23*(3), 697-707.
10. Bhaskaran Savitha, Eeda Koti Reddy, Parthasarathi D, Rajeeesh Pakkath, Ayyiliath M Sajith, **C. S. Ananda Kumar**, Haridas KR, M. Syed Ali Padushaa, A Highly Efficient Catalyst for the Suzuki-Miyaura Cross-Coupling Reaction of 5-(5-chloropyridin-3-yl)-3-methyl-1,3,4-oxadiazol-2(3H)-one, *Journal of heterocyclic chemistry*, 2018, *55*(10), 2277-2283.
11. S.B. Benaka Prasad, S. Naveen, C. S. Ananda Kumar, N.K. Lokanath, A.V. Raghu, Iqab Daraghme, Kakarla Raghava Reddy, Ismail Warad, Synthesis, structural exploration, spectral and combinatorial analysis of racemic-3-isobutyl-5-phenyl-5-(pyridin-4-yl)imida-zolidine-2,4-dione: Comparison between experimental and DFT calculations, *Journal of Molecular Structure*, **2018**, *1167*, 215-226.
12. Krishnamurthy K. N, Sridhara S. N, **Ananda Kumar C. S**, Synthesis and Optimization of Hydnocarpus Wightiana and Dairy Waste Scum as Feed Stock For Biodiesel Production By Using Response Surface Methodology, *Energy*, **2018**, *153*, 1073-1086.
13. Benaka Prasad S.B, **Ananda Kumar C.S**, Raghu Anjanapura, Raghava Reddy Kakarla, Deepa Urs M.V, Naveen S, Synthesis, Structural Exploration and Hirshfeld Surface Analysis of a novel bioactive heterocycle: (4-(6-fluorobenzof[d]isoxazol-3-yl) piperidin-1-yl)(morpholino)methanone, *Chemical Data Collections*, **2018**, *15-16*, 1-9.
14. Siddabasave Gowda B. Gowda, Atsufumi Nakahashi, Keiko Yamane, Saori Okamoto, Yuta Murai, **Ananda Kumar C. Siddegowda**, Mostafa A. S. Hammam, Tohru Taniguchi, Kenji Monde, Facile Chemoselective Strategy toward Capturing Sphingoid Bases by Unique Glutaraldehyde Functionalized Resin, *ACS Omega*, **2018**, *3*, 753-759.

15. **C. S. Ananda Kumar**, B. Veeresh, K. C. Ramesha, C. S. Ashok Raj, K. M. Mahadevaiah, S. B. Benaka Prasad, K. S. Rangappa, Synthesis of novel spiro hydantoin and evaluation of their anticonvulsant activity, *J. Applicable. Chem*, **2018**, *7*, 274-281.
16. S. B. Benaka Prasad, C. S. Ananda Kumar, Diphenyl(piperidin-4-yl) methanol derivatives as an antimicrobial agents, *Der Pharma Chemica*, **2017**, *9*, 103-109.
17. Suvarna Shenvi, G. Chandrasekara Reddy, S. Naveen, N. K. Lokanath, **C. S. Ananda Kumar**, Structural Elucidation, Characterization, Crystal Structure and Hirshfeld Surface Analysis of 1-(2, 4, 5-Trimethoxy phenyl)-2-nitropropene, *Der Pharma Chemica*, **2017**, *9*, 55-60.
18. **C. S. Ananda Kumar**, B. Veeresh, K. C. Ramesha, C. S. Ashok Raj, K. M. Mahadevaiah, S. B. Benaka Prasad, Synthesis and evaluation of novel diazaspino hydantoin as potential anticonvulsants, *Central Nervous agents in Medicinal Chemistry*, **2017**, *17*, 1-8.
19. **C. S. Ananda Kumar**, S. Naveen, S. B. Benaka Prasad, N. S. Linge Gowda, N. K. Lokanath, Structural Elucidation and Hirshfeld Surface Analysis of a novel Piperazine Derivative: (4-Benzhydrylpiperazin-1-yl)(morpholino)methanone, *J. Applicable. Chem*, **2017**, *6*, 274-281.
20. **C. S. Ananda Kumar**, B. Veeresh, K. C. Ramesha, C. S. Ashok Raj, K. M. Mahadevaiah, S. B. Benaka Prasad, S. Naveen, M. Madaiah, Synthesis and anti-inflammatory activity of 1-benzhydryl-piperazine urea derivatives, *J. Applicable. Chem*, **2017**, *6*, 282-290.
21. **C. S. Ananda Kumar**, B. Veeresh, K. C. Ramesha, C. S. Ashok Raj, K. M. Mahadevaiah, S. B. Benaka Prasad, S. Naveen, M. Madaiah, K. S. Rangappa, Antidiabetic studies of 1-benzhydryl-piperazine sulfonamide and carboxamide derivatives, *J. Applicable. Chem*, **2017**, *6*, 232-240.
22. Naveen Shivalingegowda, Liew Suk Ming, Jozaizulfazli Jamalis, **Channapillekoppal Siddegowda Ananda Kumar**, Neratur Krishnappagowda Lokanath, Synthesis, characterization, structural elucidation and Hirshfeld surface analysis of (*E*)-3-(3-methylthiophen-2-yl)-1-(pyrazin-2-yl)prop-2-en-1-one, *Chemical Data Collections*, **2017**, *7-8*, 58-67.
23. A. Nakahashi, **C. S. Ananda Kumar**, H. Mostafa, S. B. Gowda, Y. Murai, K. Monde, Stereochemical study of sphingosine by vibrational circular dichroism, *Org. Lett.*, **2016**, *18*, 2327-2330.
24. Bhaskaran Savitha, Ayyiliath M. Sajith, Eeda Koti Reddy, **C. S. Ananda Kumar**, M. Syed Ali Padusha, Suzuki-Miyaura cross-coupling reaction in water: facile synthesis of (hetero) aryl uracil bases using potassium organotrifluoroborates under microwave irradiation, *Chemistry Select*, **2016**, *1*, 4721-4725.
25. S. Naveen, S. B. Benaka Prasad, H. R. Manjunath, **C. S. Ananda Kumar**, K. S. Rangappa, N. K. Lokanath, M. A. Sridhar, Synthesis, characterization, crystal and

- molecular structure studies of 1-(3,5-dimethyl-2,3-dihydro-isoxazole-4-sulfonyl)-piperidin-4-yl}-diphenyl-methanol, *Mol. Cryst. Liq. Cryst.*, **2015**, *616*, 143-150.
26. Cynthia E. Theodore, S. Naveen, S. B. Benaka Prasad, M. Madaiah, **C. S. Ananda Kumar**, N. K. Lokanath, Crystal structure of 1'-(2-methylpropyl)-2,3-dihydrospiro[1-benzothiopyran-4,4'-imidazolidine]-2',5'-dione, *Acta Cryst*, **2014**, *E70*, o1043-o1044.
 27. Goverdhan Mehta, Saikat Sen, **C. S. Ananda Kumar**, A self-assembly mediated by C---H... hydrogen bonds and C[delta]++ O[delta]--dipolar interactions: the crystal structure of (2R*,4R*,7S*,10R*,12R*)-3,11,13,15-tetraoxapentacyclo [5.5.3.01, 7.02, 4.010,12]pentadeca-5,8-dien-14-one, *Acta Crystallogr. Section E*, **2013**, *E69*, o1504.
 28. Chandagirikoppal V. Kavitha, Mridula Nambiar, Pavan B. Narayanaswamy, Elizabeth Thomas, Ujjwal Rathore, **Channapillekoppalu S. Ananda Kumar**, Bibha Choudhary, Kanchugarakoppal S. Rangappa, Sathees C. Raghavan, Propyl-2-(8-(3,4-Difluorobenzyl)-2',5'9-Dioxo-8-Azaspiro [Bicyclo [3.2.1] Octane-3,4'-Imidazolidine] -1'-yl) Acetate Induces Apoptosis in Human Leukemia Cells through Mitochondrial Pathway following Cell Cycle Arrest, *PLOSE ONE*, **2013**, *8*, e69103.
 29. Goverdhan Mehta, **C. S. Ananda Kumar**, Saikat Sen, (2aR*,5S*, 6aS*, 8aS*,E)-ethyl 5-hydroxy-7,7,8a-trimethyl-8-oxo-2,2a,5,6,6a,7,8,8a-octahydro-1H-pentaleno [1,6-bc]oxepine-4-carboxylate, *Acta Crystallog. Section E*, **2012**, *E68*, o3392-3393.
 30. S. Chandrappa, M. Umashankara, K. Vinaya, **C. S. Ananda Kumar**, K. S. Rangappa, One-Pot Synthesis of Aryl Oxime Analogues from Methyl Arenes Using NBS and Hydroxyl Amine Hydrochloride, *Tetrahedron letters*, **2012**, *53*, 2632-2635.
 31. H. R. Manjunath, S. Naveen, **C. S. Ananda Kumar**, S. B. Benaka Prasad, M. A. Sridhar, J. Shashidhara Prasad, K. S. Rangappa, crystal and molecular structure studies of 1'-Benzyl-8-(3-fluorobenzyl)-8-azaspiro[bicyclo-[3.2.1]octane-3,4'-imidazolodine]-2',5'-dione, *J. Chem. Crystallogr.*, **2012**, *42*, 504-507.
 32. H. R. Manjunath, S. Naveen, **C. S. Ananda Kumar**, S. B. Benaka Prasad, M. V. Deepa Naveen, M. A. Sridhar, J. Shashidhara Prasad, K. S. Rangappa, crystal and molecular structure studies of 1'-Benzyl-8-(4-fluorobenzyl)-8-azaspiro[bicyclo-[3.2.1]octane-3,4'-imidazolodine]-2',5'-dione, *J. structural Chemistry*. **2011**, *52*, 959-963.
 33. S. Chandrappa, K. Vinaya, **C. S. Ananda Kumar**, K. S. Rangappa, One-pot Synthesis of Benzimidazoles from gem-Dibromomethylarenes Using o-Diaminoarenes, *Tetrahedron Letters*, **2010**, *51*, 6493-6497.
 34. K. Vinaya, B. Veeresh, **C. S. Ananda Kumar**, D. S. Prasanna, S. R. Ranganatha, S. B. Benaka Prasad, B. M. Patil, K. S. Rangappa. Synthesis of Novel 1-benzhydryl-4-(3-(piperidin-4-yl)propyl) Piperidine Sulfonamides as Anticonvulsant Agents, *Letters in drug design and discovery*, **2010**, *7*, 109-115.
 35. S. Chandrappa, H. Chandru, A. C. Sharada, K. Vinaya, **C. S. Ananda Kumar**, N. R. Thimmegowda, P. Nagegowda, M. Karuna Kumar, K. S. Rangappa, Synthesis and in vivo anticancer and antiangiogenic effects of novel thioxothiazolidin-4-one

- derivatives against transplantable mouse tumor, *Med. Chem. Res.*, **2010**, *19*, 236-249.
36. S. B. Benaka Prasad, K. Vinaya, **C. S. Ananda Kumar**, Sanjay Swarup and K. S. Rangappa, Synthesis and in vitro antiproliferative activity of diphenyl(sulphonylpiperidin-4-yl)methanol derivatives, *Med. Chem. Res.*, **2010**, *19*, 220-235.
37. S. Naveen, H. R. Manjunath, K. Vinaya, S. B. Benaka Prasad, **C. S. Ananda Kumar**, M. A. Sridhar, K. S. Rangappa, J. Shashidhara Prasad, Synthesis and Crystal Structure of a Novel Bioactive 1-Benzhydrylpiperazine Derivative, *Str. Chem. Communications*, **2010**, *1*, 3-36.
38. S. R. Ranganatha, K. Vinaya, S. Chandrappa, **C. S. Ananda Kumar**, S. B. Benaka Prasad, D. S. Prasanna, K. S. Rangappa, Synthesis of 6-fluoro-3-(4-piperidinyl)-1,2-benzisoxazole amino acid Derivatives and Anti-DNA Damaging Activity, *Int. J. drug design and discovery*, **2010**, *1*, 57-64.
39. S. Chandrappa, K. Vinaya, B. M. Srikanta, C. S. Ananda Kumar, D. S. Prasanna, N. R. Thimmegowda, Shylaja M. Dharmesh and K. S. Rangappa, Inhibition of Gastric H⁺, K⁺-ATPase by novel thiazolidinone derivatives, *Journal Sulfur Chemistry*, **2010**, *31*, 189-196.
40. Goverdhan Mehta, Nachiket S. Likhite, **C. S. Ananda Kumar**, A concise synthesis of the bioactive meroterpenoid natural product (±)-liphagal, a potent PI3K inhibitor, *Tetrahedron Letters*, **2009**, *50*, 5260-5262.
41. **C. S. Ananda Kumar**, S. B. Benaka Prasad, K. Vinaya, S. Chandrappa, N. R. Thimmegowda, S. R. Ranganatha, K. S. Rangappa, Synthesis and antiproliferative activity of substituted diazaspino hydantoin: A structure-activity relationship study, *Invest. New Drugs*, **2009**, *27*, 131-139.
42. **C. S. Ananda Kumar**, S. B. Benaka Prasad, K. Vinaya, S. Chandrappa, N. R. Thimmegowda, Y. C. Sunil Kumar, Sanjay Swarup, K. S. Rangappa, Synthesis and in vitro antiproliferative activity of novel 1-benzhydryl-piperazine derivatives against human cancer cell lines, *Eur. J. Med. Chem.*, **2009**, *44*, 1223-1229.
43. **C. S. Ananda Kumar**, C. V. Kavitha, K. Vinaya, S. B. Benaka Prasad, N. R. Thimmegowda, S. Chandrappa, Sathees C. Raghavan, K. S. Rangappa, Synthesis and in vitro cytotoxic evaluation of novel diazaspino bicyclo hydantoin derivatives in human leukemia cells: A SAR study, *Invest. New Drugs*, **2009**, *27*, 327-337.
44. C. V. Kavitha, Mridula Nambiar, **C. S. Ananda Kumar**, Bibha Choudhary, K. Muniyappa, K. S. Rangappa, Sathees C. Raghavan, Novel Derivatives of Spirohydantoin Induce Growth Inhibition Followed by Apoptosis in Leukemia Cells, *Biochem. Pharmacol.*, **2009**, *77*, 348-363.
45. Basappa*, **C. S. Ananda Kumar***, S. Nanjunda Swamy, K. Sugahara, K. S. Rangappa, Antitumor and anti-angiogenic activity of novel hydantoin derivatives:

- Inhibition of VEGF secretion in liver metastatic osteosarcoma cells, *Bioorg. Med. Chem.*, **2009**, *17*, 4928-4934.
46. **C. S. Ananda Kumar**, Karunakara Murthy, M. P. Sadashiva, K. Vinaya, N. R. Thimmegowda, S. B. Benaka Prasad, S. Chandrappa, K. S. Rangappa, Synthesis and In Vitro Antimicrobial Activity of Medicinally Important Novel N-alkyl, N-aryl and Urea Derivatives of 1-benzhydryl Piperazine: A Structure-Activity relationship Study, *Letters in drug design and drug discovery*, **2009**, *6*, 146-154.
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Patents:

1. Antiaging Painting Technology

Indian Patent 202141018007

2. Novel Nanomaterial composition for dye degradation

Indian Patent: 202141018026

Research Guidance: Guiding 05 students, 01 awarded

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