

T Durai Ananda Kumar, M. Pharm, PhD

Associate Professor

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Research Interests:

- Research focus on QbD approach - Design of Experiments (DoE) for the synthetic chemistry and pharmaceutical methods.
- Technical expertise in bioinformatics and docking simulation softwares.

Education:

1. **D. Pharmacy** (1995-1998): First Class, Madurai Medical College, Madurai, Tamilnadu, India.
2. **B. Pharmacy** (1998-2002): First Class, KM College of Pharmacy, TN Dr MGR Medical University, Madurai, Tamilnadu, India.
3. GATE 2003: 76.63 PS
4. **M. Pharmacy** (2004-2006): First Class with distinction, JSS College of Pharmacy, TN Dr MGR Medical University, Ootachamund, Tamilnadu, India.
5. Short Term Course on 'Modern Instrumental Methods for Pharmaceutical Analysis' (2008): at Centre for environment, JNTU-H, Hyderabad.
6. **Ph.D:** 2016, Jawaharlal Nehru Technological University, Hyderabad.

Teaching Experience:

1. In, Gokaraju Rangaraju College of Pharmacy, Hyderabad
 - **Associate Professor:** From 20thFeb 2016 till date
 - **Senior Assistant Professor:** From 2nd May 2011 to 26th Aug 2016 (5 years)
 - **Assistant Professor:** From 3rd May 2006 to 2nd May 2011 (5 years)Teaching Bioorganic-Medicinal Chemistry, Pharmacoinformatics and Pharmaceutical Analysis subjects
2. Resource person for the Induction programs for the employees of Dr Reddys laboratories and Mylan Laboratories.
3. Resource person for the B.Sc., Drug Chemistry Course, Dr BR Ambedkar University, for the employees of Dr Reddys Laboratories.

Professional Recognition, Awards, Achievements:

1. Awarded First rank for M Pharm Project (Pharmaceutical Chemistry) by Tamilnadu Pharmaceutical Sciences Welfare Trust in the year 2006.

Representative Publications:

1. T. Durai Ananda Kumar, N. Swathi, J. Navatha, C.V.S. Subrahmanyam, K. Satyanarayana. Tetrabutylammonium bromide and K₂CO₃: an eco-benign catalyst for the synthesis of 5-arylidene-1,3-thiazolidine-2,4-diones via Knoevenagel condensation. *J. Sulfur Chem.* 2015; 36(1): 97-107. (available online: <http://dx.doi.org/10.1080/17415993.2014.970555>).
2. T. Durai Ananda Kumar, N. Yamini, CVS Subrahmanyam, K Satyanarayana. Design and optimization of eco-benign one-pot synthesis of 2,4,5-triaryl-1H-imidazoles by three component condensation using response surface methodology, *Synth. Commun.* 2014; 44(15): 2256-2268. (Impact factor: 1.06)
3. T. Durai Ananda Kumar, P. Mohan, CVS Subrahmanyam, K Satyanarayana. Comparative study of catalytic potential of TBAB, BTEAC, and CTAB in one-pot synthesis of 1,4-dihydropyridines under aqueous medium, *Synth. Commun.* 2014; 44(4): 574-582.
4. N Swathi, T Durai Ananda Kumar, CVS Subrahmanyam, K Satyanarayana. Synthesis and in silico drug likeliness evaluation of N, 5-disubstituted -1,3-thiazolidine-2,4-dione analogues, *J Pharm Res*, 2013; 6: 106-111.

5. V Alagarsamy, S Meena, KV Ramaseshu, V Raja Solomon, T Durai Ananda Kumar, K Thirumurugan. 4-Cyclohexyl-1-substituted-4H-[1,2,4]-triazolo[4,3-a]-quinazolin-5-ones: Novel class of H1 antihistaminic agents. *Chem Biol Drug Des*, 2007, 70(3); 254-260. Pubmed PMID: 17718720
6. V. Alagarsamy, S Meena, K V Ramaseshu, V Raja Solomon, T Durai Ananda Kumar. Synthesis of novel 3-butyl-2-substituted amino-3H quinazolin-4-ones as analgesic and anti-inflammatory agents. *Chem Biol Drug Des*, 2007; 70(2):158-163. Pubmed PMID: 17683377
7. V Alagarsamy, D Shankar, S Meena, K Thirumurugan, T Durai Ananda Kumar, Synthesis, analgesic, anti-inflammatory and ulcerogenic index activities of novel 2-methylthio-3-substituted -5,6-dimethyl thieno[2,3-d]pyrimidin-4(3H)-ones. *Drug Dev Res*, 2007, 68(3); 134-142.
8. V Alagarsamy, V Raja Solomon, M Murugan, R Sankara Narayanan, P Periyasamy, R Deepa, T Durai Ananda Kumar and K Thirumurugan. Synthesis of 3-(2-pyridyl-2-substituted-quinazolin-4(3H)-ones as new analgesic and anti-inflammatory agents. *Biomed Pharm*, 2006, 70; 1-8. PMID: 17175131
9. V Alagarsamy, R Rajesh, R Meena, S Vijaykumar, K V Ramaseshu, T Durai Ananda Kumar. Synthesis, analgesic, anti-inflammatory and anti-bacterial activities of novel 2-methylthio-3-substituted quinazolin-4(3H)-ones. *Biol. Pharm. Bull*, 2004, 27, 652-656. PMID: 15133239
10. T. Durai Ananda Kumar, P. Soumya, CVS Subrahmanyam, K Satyanarayana. Bio-compatible and efficient catalytic synthesis of 3, 4-dihydropyrimidin-2(1H)-ones and thiones in aqueous medium. *Bull. Cat. Soc. India*, 2013; 12: 49-53.
11. T. Durai Ananda Kumar, Y. Kranthi Ramya, CVS Subrahmanyam, K Satyanarayana. Efficiency of phase transfer catalysts in permanganate mediated oxidation of benzaldehyde in aqueous medium: an eco-benign approach. *Bull. Cat. Soc. India*, 2013; 12: 16-20.
12. N Swathi, T Durai Ananda Kumar, K Haribabu, CVS Subrahmanyam, Synthesis and biological evaluation of substituted thiazolamine, imidazo[2,1b]thiazol-6(5H)-one, thiazolo[3,2a]pyrimidin-5-one and thiazolyl thiourea derivatives, *Indian J Het Chem*, 2012; 21 (3): 263-268.
13. Swathi. N, Durai Ananda Kumar. T, Yuvaraj. S, Subrahmanyam CVS, Proton Pump Inhibitors, *Hygeia*, 2009, 1(1); 28-32.
14. Anand Kumar. T, Badami. S, Prashantha Kumar. B.R, Santhosh Kumar. H. D, Ravi. S, Durai Ananda Kumar. T, Microwave assisted synthesis of pyrazoline derivatives and their antiangiogenic and antioxidant activities. *Indian J Het Chem*, 2007; 16 (2): 333-336

Books:

1. T. Durai Ananda Kumar, *Elementary Pharmacoinformatics*, 2014, PharmaMed press, BSP Books, Hyderabad.
2. T. Durai Ananda Kumar and N Swathi, *Experimental Organic Medicinal Chemistry*, PharmaMed press, BSP Books, Hyderabad. (in press)

Quality Improvement Program/ Staff Development Program/ Training program

- Participated in ICMR sponsored training program on 'Drug Chemistry' held at JSS College of Pharmacy, Mysuru, Karnataka during 15th to 27th June 2015.
- Participated in staff development program on 'Process modelling and simulation for optimization in the development of pharmaceutical formulations' held at Gokaraju Rangaraju College of Pharmacy, Hyderabad during 17th to 19th November 2009.
- Participated in the AICTE sponsored QIP program on 'Modern trends in Pharmaceutical Chemistry' held at JSS College of Pharmacy, Ooty., during February, 7th to 20th, 2006.

Conference Publications:

1. Participated and presented (oral) a paper in the AICTE sponsored national level seminar on 'Universal Perception of Pharmaceutical Research and Development' held at Pulla Reddy Institute of Pharmacy, Hyderabad., during 3rd and 4th September, 2013.

Professional membership:

1. Association of Pharmaceutical Teachers of India (AP/LM 379)
2. Pharmacy Council of India – Tamilnadu State Council (7217 A1)