Faculty Profile

Name : Dr. K.Mantelingu

Designation : Assistant Professors

Qualification : M.sc.,Ph.d.

Area of Specialization : Bioorganic and Medicinal Chemistry.

Awards / Recognitions :

- Most Cited Paper 2003-2006 Award (Bio-Organic and Medicinal Chemistry, Elsevier Ltd. UK)
- Most Cited Paper 2006-2009 Award (Bio-Organic and Medicinal Chemistry, Elsevier Ltd. UK)
- Best poster award (National symposium on Molecular Mechanism and diseases and drug action November 16-18, 2005, SAHA institute Kolkata)

Articals in Journals :

Total number of Research Publications :23.

Patents : 02.

Patents and publications :

Patents :

- Tapas K. Kundu, K. Balasubramanyam, K. Mantelingu, M. Altaf, V. Swaminathan, "Polyisoprenyl benzophenones as inhibitors of histone acetyl transferase and uses thereof" US Patent 7,402,706 B2 July 22, 200.
- Tapas K Kundu, B. Ruthrotha Selvi, K. Mantelingu, A. Hari Kishore. "Site-specific inhibitors of histone methyltransferase (HMTASE) and process of preparation thereof" US patent Application serial number 12/306,675.

Publications :

- R. Selvi, Kiranbataa, K. Mantelingu, B.A. Ashok Reddy, V. Swaminathan, T.K. Kundu et al. (2009).Substrate sequence-specific inhibition of H3R17 methyltransferase, coactivator associated arginine methyltransferase (CARM1) by small molecule, TBBD; represses p53 dependent p21 transcription Journal of Biological Chemistry in press

- M.N. Kumara, N.S. Linge Gowda, K. Mantelingu and Kanchugara Koppal S. Rangappa (2009)N-Bromosuccinimide assisted oxidation of tripeptides and their amino acid analogs: Synthesis, kinetics, and product studies J. Mol. Catalysis A. Chemical 309(1-2), 2009, 172-177
- A. Harikishore, B.M. Vedamurthy, K. Mantelingu, B.A, Ashok Reddy, K.S. Rangappa, Swaminathan, Tapas K. Kundu (2008). Specific small molecule activator of Aurora Kinase A Induces Autophosphorylation in a cell-free J.Med.Chem. 51, 792-797
- K. Mantelingu, B.A. Ashok Reddy, V. Swaminathan, T.K. Kundu et al. (2007). Specific inhibition of p300-HAT Alters Global Gene expression and repressive HIV replication. Chemistry and Biology 14, 14(6):645-57.
- Mantelingu, K. Hari Kishore, A, Balasubramanyam, K, Pavankumar, Najundaswamy, N. Chandrabhas, Rangappa, KS and Kundu TK (2007). Activation of p300 histone acetyltransferase by Small molecules altering Enzyme Structure: Probed by Surface Enhanced Raman Spectroscopy: Contribution of functional group to enhance p300 HAT activity. Journal of Physical Chemistry (B). (111), 4527-4534.
- Kavitha, CV, Basappa. Mantelingu, K. Doreswamy, B.H, Shashidhara Prasad J. and Rangappa KS. (2006). Synthesis and crystal structure studies of (2RS)-3-[(2RS)-2-(-hyddroxy-cyclohexyl)-2-(4-methyoxyphenyl]-2-pyridine-3-yl) thiazolidin-4-one. Journal of Chemical Research, 312-314
- Mantelingu, K. Kavitha, CV, Rangappa, KS, Naveen, S. Sridhar, MA, Shashidhara Prasad, J. (2007). Synthesis and crystal structure of 1-(cyano(4-methaoxyphenyl) methyl) cyclohexyl acetate. Molecular Crystals and Liquid Crystals. (469), 121-129.
- Kavitha, CV, Basappa, Swamy, SN, Mantelingu, M. Sridhar M.A, Shashidhara Prasad J. and Rangappa, KS (2006). Synthesis of new bioactive venlafaxine analogs: Novel thiazolidin -4-ones as antimicrobials. Bioorganic Medicinal Chemistry 14(7): 2290-2299
- C.V. Kavitha, Basappa, K. Mantelingu, S. Doreswamy Shashidhara Prasad and K.S. Rangappa (2006). Synthesis of new bioactive venlafaxine analogs: Novel thiazolidin -4-ones as antimicrobials. J. Chem. Res 312-314
- C.V. Kavitha, K. Mantelingu, G. Sarala, S. Naveen S. Shashidhara Prasad and K.S. Rangappa (2006). Synthesis and X-ray crystal structure analysis of 4-93,4-dichlorophenyl)-2-(3,45-trimethyoxy-benxylidene)-3,4-dihydro-napthalen-192H)-one: Sertraline key intermediate analog.. J. Chem. Res. 730-732
- Basappa, K. Mantelingu, B.H. Doreswamy, M. Mahendra, M,A. Sridhar, M.A, Shashidhara Prasad J, and Rangappa K.S. (2005). Reduction of aldehydes and oximes to their corresponding alcohols and amines by catalytic hydrogenation method Indian J. Chem. 44B: 148-151
- C.V. Kavitha, S. Lakshmi, Basappa, K. Mantelingu, G. M. A. Sridhar, Shashidhara Prasad and K.S. Rangappa (2006). Synthesis and molecular structure analysis of Venlafaxine intermediate and its analog. J. Chem. Crystal. 35(12):957-963
- K. Mantelingu, Basappa, K.S. Rangappa, B.H.Doreswamy, M. Mahendra, and J. Shashidhara Prasad (2004). Synthesis, Characterization and X-ray crystal studies of 1-ethyl-3-(chloro phenyl)-1, 2, 3-triazolium perchlorate J. Chemical Crystallography. 34(2): 141-145
- K. Mantelingu, Basappa and Rangappa, K.S. (2004). A simple and efficient method for the synthesis 1, 2-benzisoxazoles: a series of its potent acetylcholinesterase inhibitors. Indian Journal of Chemistry Section B (44B), 1954-1957.

- B. K. Vishukumar, K. Mantelingu and K. S. Rangappa (2003). Synthesis of novel isoaxozolidines via 1, 2,3dipolar cycloaddition of nitrones to olefins. Heterocyclic Communications. 9(2): 161-164.
- Basappa, M.P Sadashiva, K. Mantelingu, S. Nanjunda Swamy and K.S. Rangappa KS (2003). Solution-phase synthesis of novel 2-2- isoxazoline libraries via 1, 3-dipolar cyloaddition and their cycloaddition and their antifungal properties. Bioorganic and Medicinal Chemistry 11: 4539-4544.
- B.H. Doreswamy, Basapa, M. Mahendra, K. Mantelingu, M.A. Sridhar, J. Shashidhar Prasad, and K. S. Rangappa (2003). Synthesis and crystal structure studies of 1-ethyl-3-(Phenyl)-1,2,3 triazolium perchlorate. Analytical Sciences. (19) 31-32.
- B.H. Doreswamy, M. Mahendra, J. Shashidhar Prasad, K. Mantelingu, Basappa, and K.S. Rangappa (2003). Synthesis and crystal structure studies of 1-ethyl-3-(4-itrophenyl)-1,2,3 triazolium perchlorate. Molecular Crystal and Liquid Crystals. 64: 67-75
- B.H. Doreswamy, M. Mahendra, J. Shashidhar Prasad, K. Mantelingu, Basappa, and K. S. Rangappa (2003). Synthesis and crystal structure studies of 1-ethyl-3-(Phenyl)-1,2,3 triazolium perchlorate. Central European Journal. 477-490 67-75
- N.V. Anilkmar, K. Mantelingu and K.S Rangappa (2002). Synthesis and characterization of thymidine adducts of arylamines. Nucleosoides, Nucleotides and Nucleic acids. 21: 463-467.
- Mallesha, H, Ravikumar, K.R, Mantelingu K, and K.S. Rangappa (2001). Synthesis and characterization of model ultimate carcinogens/Metabolites derived from lead tetraacetate oxidation of arylnitrones: 2'-deoxyguanisine adducts. Synthesis. 10: 1459-1461.
- H.Mallesha, K.R. Ravikumar, B.K. Vishukumar, K. Mantelingu and K.S. Rangappa (2001). Histidine as a catalyst in organic synthesis: A facile in situ synthesis of a N-diarl amines. Proc. Indian Acad.Sci 113(4): 291-296
- P.A. Prasanth, K. Mantelingu, A.S. Ananda Murthy, N. Anitha, Rangaswamy and K.S. Rangappa (2001). Kinetic Mechanism of oxidation of hexoses by bromamine-T in alkaline medium J. Indian. Chem. Soc., 78, 241-245

Papers published in conference / seminars : 10.

Title of **Article /Book**	**Authors and co-authors**	**Conference/seminar**	**Date and venue**
1Non Specific to specific: Specif to Specific inhibition of p300-HAT alters the global gene expression and repressive HIV replication. 2. Activation of p300 histone	**Mantelingu, K.**, Asohok Reddy, B.A, Tapas K Kundu **Mantelingu, K.,**Harikishore,	JNCASR in house Symposium NCBS-JNC-Harvard International Symposium	January 2007 JNCASR, Bangalore September

acetylatransferase by small molecules altering enzyme structure	A.H And Tapas K Kundu etal	JNCASR in house Symposium	2006
3.Small molecule modulators histone modifying enzymes	**Mantelingu K,**Ashok Reddy , Tapas K Kundu		January 2006 JNCASR, Bangalore
4. Novel small molecule activators of hisotne acetyltransferase p300	**Mantelingu K,**Ashok Reddy , Tapas K Kundu	National symposium on Molecular Mechanism and diseases and drug action	November 16-18, 2005, SAHA institute Kolkata **<u>Obtained best poster award</u>**
5.Novel polyisoprenyl benzophenone derivatives: Specific inhibitors of histone acetyl transferase"	**Mantelingu K,**Ashok Reddy , Tapas K Kundu	National symposium on Bio-Organic and Medicinal Chemistry International conference in Chromatin and dynamics	October 5th to 7 2005 DOS in Chemistry, Mysore
6.Novel polyisoprenyl benzophenone derivatives: Specific inhibitors of histone methyl transferase.	Tapas K Kundu,**Mantelingu**, Arif. M Tapas K Kundu**Mantelingu**	In house symposium JNCASR Bangalore nternational conference on Dieses and therapeutics	2005 July held at Kyoto University January 2005 JNCASR,

7.HAT moulators and Disease	**K,**Altaf M	Indian Council of Chemists	Bangalore
8.Garcinol erivatives as Specific inhibitors of p300	**Mantelingu K,**Swaminathan, Radhika , Tapas K Kundu	ICC conference	September 2004 Held at
9.Syntheisis and characterization novel DNA adducts	Rangappa KS,**Mantelingu K** , Mallesh H, and Rangappa KS		January 2003 held Shimoga, Karnataka
10.Synthesis and characterization of stable nitrenium ions	**Mantelingu, K,**Rangappa KS		January 2003 held Mysore Karnataka