



## Prof. M Thirumala Chary

M.Sc:Ph.D

Professor of Emeritus

1) Member of International Society of Heterocyclic Chemistry (ISHC) 2) Member of Indian Society for Technical Education (ISTE) 3) Member of Indian Association for Chemistry Teachers (IACT) 4) Member of Press Council of India (PCI)

Chemistry

### Areas of Interest:

- Environmentally benign synthesis of heterocyclic moieties.
- Synthesis and antimicrobial ability of 1, 8 -Naphthyridines.
- Synthesis and biological assay of Quinoxaline derivatives

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### -> Educational & Professional

#### -> Academic Qualifications

- > PGDCMP in Computr Programming, APPC with First (1995-1994)

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Ph.D in Heterocyclic Chemistry, Kakatiya University (1986-1991)

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M.Sc in Organic Chemistry, Kakatiya University with First (1982-1984)

#### -> Professional Experience

#### -> Teaching Experience

- > Associate Professor, KITS, Warangal (03-12-2016 - 16-12-2005)
- > Senior Lecturer, KITS, Warangal (2000 - 15-12-2005)
- > Lecturer, KITS, Warangal (03-12-1995 - 09-12-2000)
- > Lecturer, KITS, Ramtek (03-12-1988 - 07-12-1995)

#### -> At JNTUH

- > Professor, JNTUH, Hyderabad (2010 - Till Date)

#### -> Books

- > Dr.B.Rama Devi, Dr.M.Thirumala Chary, *College Practical Chemistry(B.Tech)*, Cengage Learning, 2016
- > Dr.M.Thirumala Chary, *Text Book of Engineering 3rd Edition*, Scitech publications, Chennai, 2016
- > Dr.M.Thirumala Chary, *Text book of Engineering*, Scitech publication, Chennai, 2012

#### -> Publications

**International Journals**

- > V. HariPriya, **M. Thirumala Charya**, E. Laxminarayana, *Synthesis and Antibacterial Activity of Some New Quinoxaline-Benzohydrazides*, Vol No. Sec 55B(2), pp.207, 2016
- > Ranadheer Kumar M, Laxminarayana E, Vasudha M, Thirumala Chary M, *A facile synthesis of 6-chloro-2-methoxy-7-(trifluoromethyl)imidazo[1,5-a]pyrido[3,2-e]pyrazine*, Ultra Chemistry , Vol No.12(2), pp.35-37, 2016
- > Hemalatha Kotakommula, HariPriya Badapalli, Laxminarayana Eppakayala, Thirumala Chary Maringanti, *An efficient synthesis of (5-(3-hydroxyquinoxalin-2-yl)-1,3,4-thiadiazol-2-yl)benzamide and (3-(3-hydroxyquinoxalin-2-yl)-5-mercapto-4H-1,2,4-triazol-4-yl)(aryl)methanones*, International Journal of Chemical Sciences, Vol No.14(4), pp.2265-2272, 2016
- > E.Laxminarayana, G. Venkatasatyanarayana, V. Lakshmana Rao, **M. Thirumala Chary**, B. Balram , E. Laxminarayana, *Synthesis and Biological Evaluation of 4-(4-chlorophenyl)cyclohexaneCarbohydrazide Derivatives as Anti-Bacterial Agents*, Asian Journal Chemistry, Vol No.22 (6), pp.2267, 2015
- > Karnaji Harkala, Laxminarayana Eppakayala, Thirumala Chary Maringanti, *An efficient synthesis of N-(tert-butylsulfonyl)imines devoid of catalyst*, Journal of Ultra Chemistry , Vol No.11(1), pp.19, 2015
- > Rajanikanth Mamilada , Surendra Damerla, Rambabu Gundla, Thirumala Chary Maringanti, Subhabrata Sen, *Pyrrrolidine and piperidine based chiral spiro and fused scaffolds via build/couple/pair approach*, RSC Adv., Vol No.XX, pp.1-8, 2014
- > Narendar Atmakuri, Laxminarayana Eppakayala, Thirumala Chary Magnti, *A Simple and efficient protocol for the synthesis of 1,8-Naphthyridines using sodium hydrogensulfate on silica gel under solvent free condition.*, Indian Journal of Heterocyclic Chemistry, Vol No.23, pp.239, 2014
- > Karnaji Harkala, Laxminarayana Eppakayala, Thirumala Chary Maringanti, *Synthesis and biological evaluation of benzimidazole Linked 1,2,3-triazole congeners as agents*, Organic and Medicinal Chemistry Letters , Vol No.4, pp.14, 2014
- > Mallaiiah Bucha, Giri Tharikoppula, Laxminarayana Eppakayala, Thirumala Chary Maringanti , Shashikala Kethireddy, *Synthesis of 2-cyclopropyl-3-(5-aryl-1H-pyrazol-3-yl)-1,8-naphthyridine and derivatives*, Organic and Medicinal Chemistry Letters , Vol No.4:14, 2014
- > G.Venkata Satyanarayana, V.Lakshmana Rao, **M. Thirumala Chary**, B. Ram, B. Balram , *Synthesis and Antimicrobial Activity of Novel Hydrazone Derivatives of 4-(4-chlorophenyl)cyclohexanecarboxylic acid*, Journal of Applicable Chemistry, Vol No.3 (3), pp.1232-1238, 2014
- > Mallaiiah Bucha , Giri Tharikoppula, Laxminarayana Eppakayala, Thirumala Chary Maringanti, Shashikala Kethireddy, *Synthesis of 2-cyclopropyl-3-(5-aryl-1H-pyrazol-3-yl)-1,8-naphthyridine and derivatives*, Organic and Medicinal Chemistry Letters , Vol No.4:16, 2014
- > K. Susmitha, **M. Thirumala Chary**, T. Vinod Kumar, G. Venkateshwarlu, *Spectrophotometric determination of imipramine HCl in pure and pharmaceutical forms*, Der Pharma Chemica, Vol No.5(3), pp.271-279, 2013
- > A. Narender, E. Laxminarayana, T. Kranthi Kumar, M. Thirumala Charya. *A facile synthesis of N-(2-Cyclopropyl-[1,8]naphthyridine-3-carbonyl)-guanidine and 4-(2-Cyclopropyl-[1,8]naphthyridin-3-yl)-6-aryl-[1,3,5]triazin-2-ylamine.*, Journal of Chemical Sciences, Photon , Vol No. 107 , pp.206-208, 2013
- > K.Susmitha, M.Thirumala Chary, G.Venkateshwarlu, *Spectrophotometric determination of Bromhexine HCl in pure and pharmaceutical forms.*, ISRN Analytical Chemistry, Vol No.Article ID 861851, 2013
- > SubbaSubhabrata Sen, Rajanikanth mamilada, Rambabu Gundala, M.T.Chary, *Diversity oriented synthesis of Macrocyclic diaryl ethers by Dotz benzannulation*, Asian J. Org. Chem, Vol No.10, 2013
- > Narendar Atmakuri, Laxminarayana Eppakayala, Thirumala Chary Maringanti, *Synthesis and biological evaluation of some novel 2-aryl-pyran-4-ones of 1,8- naphthyridin and its derivatives.*, World J. of Pharm and Pharma Sci. , Vol No.5 (2), pp.3929-3945, 2013
- > Anantoju Kishore Kumar, Tharikoppula Giri, Eppakayala Laxminarayana, Maringanti Thirumala Chary, *A facile synthesis of Methyl-2-(N-ethyl-N-phenylamino)naphthyridine-3-carboxylates*, International Journal of Chemical and Analytical Science , Vol No.4, pp.146-148, 2013
- > K. Susmitha, M. Thirumala Chary, T.Charan Singh, G. Venkateshwarlu, *Spectrophotometric determination of Amitriptyline HCl in pure and pharmaceutical forms.*, J. Chil. Chem. Soc., Vol No.58, pp.1986-1991, 2013
- > T. Sreekanth, M.Thirumala Chary, U. V. Subba Rao, *Study of Characterization and Transport Properties of (PEO + NaClO3) Polymer Electrolyte.*, Journal of Trends in Chemistry, Vol No.Vol3, 1, , pp.1-5, 2012
- > Laxminarayana E, Shivashankar S , Thirumala Chary M., *A novel synthesis of tert-butyl 2-methyl-1, 8-naphthyridine-3-carboxylates*, J Trends Chem, Vol No.2(1), pp.6-8, 2011
- > K. Susmitha, **M. Thirumala Chary**, G. Venkateshwarlu , *Assay of dicyclomine hydrochloride in pharmaceutical formulations by extractive spectrophotometry*, Int. J. Chem. Sci., Vol No.9(3), pp.1353-1363, 2011
- > M.Ranadheer Kumar, E.Laxminarayana, B.Srinivasulu, M.Thirumala Chary, *Synthesis and antimicrobial activity of 5, 6-dihydro-3-arylnaphtho[1,2-b][1,8]-naphthyridine and their derivatives.*, Int. J. Chem. Sci. : , Vol No.8(4), pp.2120-2126, 2010
- > M. Ranadheer kumar, E. Laxminarayana, B. Sreenivasulu, **M. Thirumala chary**, *A facile synthesis of 2-chloro-1,8-naphthyridine-3-carbaldehyde; their transformation into different functionalities and antimicrobial activity.*, Int. J. Chem. Sci, Vol No.8(4), pp.2025-2036, 2010
- > E.Laxminarayana, Ranadheer Kumar , M.Thirumala Chary, *Synthesis of 7-[4-(4-(6-Phenyl pyrimidin-4-yl-amino) phenyl)-6-arylpyrimidine-2-thio-2-yl]-amino-4-methyl-1,8-naphthyridin-2-ols as antibacterial activity*, Int.J. ChemTech Res., Vol No.2(4), pp.1980-1986, 2010
- > Thirupathiah T, Kranthi kumar T, Laxminarayana E, M.Thirumala Chary, *Synthesis of N'-arylidenequinoxaline-2-carbohydrazides, 3-Benzyl-5-(quinoxalin-3-yl)-1,3,4-oxadiazole-2(3H)-thiones and 1-(2-Aryl-5-(quinoxalin-3-yl)-1,3,4-oxadiazol-3(2H)-yl)ethanones*, Int.J. ChemTech Res, Vol No.2(4), pp.1987-1991, 2010
- > E. Laxminarayana, Randheer Kumar M., A. Singara Charya , M.Thirumala Chary , *Decolourisation and biodegradation of sulphonated azo dyes by fungi to clean dye contaminated soil environments*, J Nat Env Sci , Vol No.1(1), pp.35-42, 2010
- > M. Thirumala Chary , E. Laxminarayana, Nikhat Kousar , M.A.Singara Charya, *Bioremediation of dye contaminated soils by using fungi*, Trends soil sci plant Nutri J, Vol No.1(1), pp.1-6, 2010
- > E.Laxminarayana, Kranthi Kumar, D.Ramesh, M.Thirumala Chary, *Antibacterial activity of some novel 1,8-naphthyridine containing thiazolidinones, ?-lactam and 2,4-dihydroxy compounds*, Organic Chemistry, Vol No.6, pp.4, 2010
- > E.Laxminarayana, M.Ranadheer Kuma, D.Ramesh , M.Thirumala Chary, *A study on antimicrobial activity of 1,8-naphthyridines containing triazinones, oxadiazin ones, pyrazolyl and substituted pyrimidines*, Organic Chemistry, Vol No.6, pp.4, 2010
- > M.Ranadheer Kumar, E.Laxminarayana, D.Ramesh, M.Thirumala Chary, *A facile synthesis of 2-chloro-1,8-naphthyridine-3-carbaldehyde:their transformation into different functionalities and antimicrobial activity.*, Int. J. Chem. Sci., Vol No.8(4), pp.2025-2036, 2010
- > Thirupathiah T, Kranthi kumar T., Laxminarayana E , Thirumala Chary M, *Synthesis of NÁĕá, -á, é-arylidenequinoxaline-2-carbohydrazides,3-benzyl-5-(quinoxalin-3-yl)-1,3,4-oxadiazole-2(3H)-thiones and 1,2-aryl-5-(quinoxalin-3-yl)-1,3,4-oxadiazol-3-(2H)yl) ethanones*, Int J.Chem Tech Res, Vol No.2(4), pp.1987-1991, 2010
- > Thirupathiah T, Kranthi kumar T, Laxminarayana E , Thirumala Chary M , *Synthesis of NÁĕ™,arylidenequinoxaline-2-carbohydrazides,3-benzyl-5-(quinoxalin-3-yl)-1,3,4-oxadiazole-2(3H)-thiones and 1,2-aryl-5-(quinoxalin-3-yl)-1,3,4-oxadiazol-3-(2H)yl) ethanones.*, Int J.Chem Tech Res, Vol No.2(4), pp.1987-1991, 2010
- > M.Randheer Kumar, E.Laxminarayana, D.Ramesh , M.Thirumala Chary, *Synthesis and antimicrobial activity of 5,6-dihydro-3-arylnaphtho[1,2-b][1,8]-naphthyridine and their derivatives*, Int. J. Chem Sci, Vol No.8(4), pp.2120-2126, 2010
- > E.Laxminarayana, M.Randheer Kumar., D.Ramesh , M.Thirumala Chary, *Synthesis of 7-[4-(4-(6-phenyl pyrimidin-4-yl-amino)phenyl)-6-arylpyrimidine-2-thio-2-yl]-amino-4-methyl-1,8-naphthyridin-2-ols as antibacterial agents*, Int J.Chem Tech Res, Vol No.2(4), pp.1981-1986, 2010
- > E.Laxminarayana, T.Kranthi kumar , M.Thirumala Chary , *Synthesis of ionic liquid crystal materials of 3,4-dihydro-3-pyridyl-2H-naphtho[2,1-e][1,3]oxazine derivatives*, Int J. Chem Sci, Vol No.8(4), pp.2367-2372, 2010
- > S.Shiva Shankar, E.Laxminarayana , M.Thirumala Chary, *Synthesis of 5-(2-methoxy-1,8-naphthyridin-3-yl)-4-aryl-4H-1,2,4-triazole-3-thiols & 5-(2-methoxy-1,8-naphthyridin-3-yl)-N-aryl-1,3,4-thiadiazol-2-amines*, Int J.Chem Sci., Vol No.8(4), pp.2533-2541, 2010
- > M.Thirumala chary, A Narender, M.Ranadheer Kumar , E.Laxminarayana, *Synthesis and microbial activity of Pyrazole derivatives of 2-Cyclopropyl-1,8- naphthyridines.*, Asian J.of Chemistry , Vol No.21(9), pp.6885-6903, 2009
- > E.Laxminarayana, M.Thirumala chary, *Microwave assisted synthesis of some 2,4-dihydroxy 1,8- naphthyridines and their derivatives devoid of solvent and catalyst*, Heterocyclic communications, Vol No.15(1), pp.35-41, 2009
- > M.Thirumala chary, E. Laxminarayana, S. Shiva Shankar, *Synthesis of 3-chloro-1-(2-chloro-1,8-naphthyridin-7-yl)-4-arylazetid-2- ones and 3-(2-chloro-1,8-naphthyridine-7-yl)-2-aryltiazolidin-4- ones from 7-chloro-1,8- naphthyridin-2-amine*, Vol No.21(5), pp.3547-3552, 2009
- > M.Thirumala chary, E. Laxminarayana, S. Shiva Shankar, *Synthesis of 3-chloro-1-(2-chloro-1,8-naphthyridin-7-yl)-4-arylazetid-2- ones and 3-(2-chloro-1,8-naphthyridine-7-yl)-2-aryltiazolidin-4- ones from 7-chloro-1,8- naphthyridin-2-amine*, Vol No.21(5), pp.3547-3552, 2009
- > Narendar A. E. Laxminarayana, Thirumala Chary M, Randheer kumar M, *Synthesis and antimicrobial activity of pyrazol derivatives of 2-cyclopropyl-1,8-naphthyridines*, Asian Journal of Chemistry, Vol No.21(9), pp.6885, 2009
- > A. Narender, M.Thirumala chary , *15. A Novel synthesis of 4-hydroxy-1,8-naphthyridines*, J.Chilian Chem Soc. , Vol No.54, pp.289-290, 2009
- > M.Thirumala chary , E.Laxminarayana, S.Shiva Shankar , *Synthesis of 3-(3,5-dimethyl-2-(1,8-naphthyridin-7-yl)phenyl)-1,3,5-triazinan-2-ones and 3-(3,5-dimethyl-2-(1,8-naphthyridin-7-yl)phenyl)-1,3,5-oxadiazinan-4-ones as antibacterial agents*, International Journal of Applied Chemistry , Vol No.4(3), pp.237, 2008
- > M.Thirumala Chary, B.Sreenivasulu , *A study of antifungal activity of 2-methyl-N-oxo-2-aryl-3-thiazolidinyl-1-8-naphthyridine-3-carboxamides*, Nat.Acad. sci.Letters, Vol No.17 3 & 4, pp.59-62, 1994
- > M.Thirumala Chary , B.Sreenivasulu, *9. A study on the antibacterial activity of 2-methyl-3-(5-phenyl- or 1,5-diphenyl-2- pyrazolin-3-yl)-1,8-naphthyridines*, J.Parasit. Apl.Anim.Bio. , Vol No.3 92 0, pp.125-128, 1994
- > M.Thirumala Chary, K.Mogilaiah, B.Sreenivasulu, *1. Synthesis od 3-(5-phenyl or 1,5-diphenyl-2-pyrazolin-3-yl)-2-methyl-1,8-naphthyridines*, Colln. Czechoslovak Chem commun, Vol No.53, pp.1543, 1988
- > M.Thirumala Chary , K.Mogilaiah, B.Sreenivasulu, *2. Synthesis of 2-methyl-N-(4-oxo-2-aryl-3-thiazolidinyl)-1, 8-naphthyridine-3-carboxamides*, Sulphur letters (U K), Vol No.8(2), pp.79-88, 1988
- > Kranthi kumar T, Laxminarayana E, Shiva shankar S, Thirumala Chary M, *22. Synthesis of 1-(1-benzyl-1h-benzo[d]imidazol-2-yl)-3-alkylureas*, Journal of Chilian Chemical Society
- > Shiva Shankar S, Laxminarayana E, Narendar A, Thirumala Chary M, *23. Synthesis of 5-(2-methoxy-1,8-naphthyridin-3-yl)-1,3,4-oxadiazole-2(3H)-thione and 1-(2-methoxy-1,8-naphthyridin-3-yl)-4-aryltiosemicarbazides*, Asian Chemistry Letters
- > M.Thirumala chary , A. Narender, *24. Synthesis of 2-cyclopropyl-[1,8]-naphthyridine-3-carboxylic acid (4-phenyl-2-thioxo-thiazol-3-yl)-amides and coumarine derivatives*, International Journal of Applied Chemistry
- > Thirumala Chary Maringanti, Narendar Atmakuri, Laxminarayana Eppakay, Shiva Shankar Sripelly, *Clean and efficient microwave synthesis of 6, 6Áĕá, -á, é-dimethyl-6, 7-dihydro-1, 8, 9, 14-tetraaza-pentaphene and 3, 3a, 4, 5-tetrahydro-4, 4Áĕá, -á, é-dimethyl-3-phenylindolo [5, 4-b] [1, 8] naphthyridin-2-one and derivatives*, Heterocyclic Communications, Vol No.16,2-3, pp.187-193
- > D. Ramesh, B.Sreenivasulu, E.Laxminarayana , M.Thirumala Chary, *Study of antifungal activity of 2-methyl-1,8-naphthyridine containing semicarbazides and amino-oxadiazol.*, Journal of Bio-technology
- > Shivashankar.S, Laxminarayana E, Ranadheer kumar, M.Thirumala chary.M., *Synthesis of 5-(2-methoxy-1,8-naphthyridin-3-yl)-4-aryl-4H-1,2,4-triazole-3-thiols and 5-(2-methoxy-1,8-naphthyridin-3-yl)-N-aryl-1,3,4-thiadiazol-2-amines from 1-(2-methoxy-1,8-naphthyridin-3-yl)-4-aryltiosemicarbazides*, Indian Journal of Heterocyclic chemistry
- > M.Thirumala Chary, A. Narender , E. Laxminarayana, *A Simple and efficient protocol for the synthesis of 1,8-Naphthyridines using sodium hydrogen sulfate on silica gel under solvent free condition*, Organic Communications
- > Shashikala K, Thirumala Chary M, Laxminarayana E, *Synthesis and Antibacterial Activity of Novel 5,6, 7,8-tetrahydroimidazo[1,2-a] pyrimidine-2-carbohydrazide Derivatives*, Chemistry Central Journal
- > Shashikala K, Thirumala Chary M, Laxminarayana E, *Synthesis and antibacterial activity of novel Imidazo[1,2-a]pyrimidin-2-yl)methylenebenzohydrazides*, Indian Journal of Chemistry , Vol No.Sec B
- > Karnaji Harkala, Laxminarayana Eppakayala, Thirumala Chary Maringanti, *An efficient synthesis of 1-(1-(4-substitutedbenzyl)-1H-1,2,3-triazol-4-yl)methyl)-4-halo-1H-pyrrolo[2,3-b]pyridine*
- > Karnaji Harkala, Laxminarayana Eppakayala, Ramesh Domala , Thirumala Chary Maringanti, *Antibacterial activity of 2-(1H-benzo[d]imidazol-2-ylimino)-5-arylidene-thiazolidin-4-ones, 1-(1H-benzo[d]imidazol-2-yl-5-alkyl-1,3,5-triazinane-2-thiones and 3-(1H-benzo[d]imidazol-2-yl)-5-aryl-1,3,5-oxadiazinan-4-thiones.*, International journal of Chemistry and Pharmaceutical Sciences

#### National Journals

- > Venkatasatyanarayana, G Lakshmana Rao, Thirumala Chary, M, Laxminarayana, E, *Synthesis, Characterization and Antimicrobial Evaluation of (E)-4-(substitutedphenyl)-N'-(1-phenylethylidene) cyclohexanecarbohydrazide Derivatives*, Indian Journal of Chemistry , Vol No.Sec B, Issue No.55B(6), pp.718, 2016
- > T. Thirupathiah, M. Thirumala Chary, E. Laxminarayana, *An efficient synthesis of 1-(Quinoxalin-6-yl)-1H-1,2,3-triazole-4-carboxylic acid*, Indian Journal of Chemistry, Vol No.Sec-B, Issue No.55B(6), pp.761, 2016
- > V.Haripriya, E Laxminarayana , M Thirumala Chary, *A facile synthesis of 3-hydroxy-N-(4-oxo-2-arylthiazolidin-3-yl)quinoxaline-2- carboxamides and N-(3-chloro-2-oxo-4-arylazetid-1-yl)-3-hydroxyquinoxaline-2- carboxamides*, Indian Journal of Chemistry, Vol No.Sec B , 53(B) 9, pp.1222-1225, 2014
- > B. Malliah, E. Laxminarayana, T. Giri .**M. Thirumala Chary**, *A facile synthesis of 3-(5-Chloro-1-phenyl-1H-benzod[imidazol-2(3H)-ylideneamino]-2-arylthiazolidin-4-ones, 3-Aryl-[1,2,4]triazino[4,3-a]-5-Substitutedbenzimidazol-4-ones and 1-(5-chloro-1-phenyl-1H-benzod[imidazol-2(3H)-ylideneamino]-3-chloro-4-arylazetid-2-ones*, Indian Journal of Heterocyclic Chemistry, Vol No.24, pp.181, 2014
- > T.Giri, E.Laxminarayana, B. Malliah , M.Thirumala Chary, *A facile synthesis of 3-substituted -1-(3-chloro-4-(1H-pyrrolo-1-yl) benzenamine sulphonyl) methyl) benzenes*, Indian Journal of Heterocyclic Chemistry, Vol No.22 (2), pp.415-416, 2013
- > B. Malliah, E.Laxminarayana, S. Shivashankar, M.Thirumala Chary, *Synthesis of oxadiazolo and triazoloderivatives of 1,8-naphthyridine by conventional and ecofriendly methods and evaluation of their antibacterial activity.*, Indian Journal of Heterocyclic Chemistry, Vol No.22 (2), pp.333-336, 2013
- > T. Kranthi Kumar, T.Thirupathiah, E. Laxminarayana, M.Thirumala Chary, *An efficient and clean synthesis of 2-(5-substituted-7-phenyl-[1,2,4]triazolo[4,3- f]pyrimidin-3-yl) quinoxalines*, Der Pharme Chem , Vol No.3(1), pp.453, 2011
- > M. Randheer Kumar, S. Shiva Shankar, E. Laxminarayana , M.Thirumala Chary, *Synthesis of (2-Methyl-1,8-naphthyridin-3-yl)(4-methyl-3-arylpyrazol[3,4-c]pyrazol- 6 (2H)-yl) methanone*, Der Pharme Chem , Vol No.3(1), pp.434, 2011
- > M. Randheer Kumar, S. Shiva Shankar, E. Laxminarayana , M.Thirumala Chary, *Synthesis of (2-Methyl-1,8-naphthyridin-3-yl)(4-methyl-3-arylpyrazol[3,4-c]pyrazol- 6 (2H)-yl) methanone*, Der Pharme Chem , Vol No.3(1), pp.434, 2011
- > E.Laxminarayana, T.Kranthi kumar, S.Shiva Shankar, M.Thirumala Chary, *An efficient and clean synthesis of N-aryl-6-hydroxy-2-methylpyrimidine-4-carbohydrazides*, Der Pharme Chem, Vol No.3(3), pp.149-152, 2011
- > M. Randheer Kumar, A. Narendar, E. Laxminarayana .**M. Thirumala Chary**, *Winder bromide reaction: Synthesis of 2-Methoxy-3-(3-phenyl-1H-pyrazol-5-yl)-1,8-naphthyridine and derivatives*, Indian Journal of Heterocyclic Chemistry, Vol No.22 (2), pp.333-336, 2011
- > M Thirumala Chary , D Ramesh, E Laxminarayana, B Sreenivasulu, *Synthesis and microbial activity of 1-alkyl and aryl-3-(2-methyl-1,8-naphthyridin-3-yl)ureas.*, Indian Journal of Chemistry , Vol No.Sec.B, 49(B), pp.1271-1273, 2010
- > S.Shiva Shankar, E. Laxminarayana, M.Thirumala Chary, *Synthesis of 1-(4-((1H-tetrazol-5-yl)methoxy)-2-methyl-1,8-naphthyridin-7-yl)-3- chloro-4-arylazetid-2-ones.*, Chemistry- an Indian Journal , Vol No.5, pp.2, 2010
- > Shivashankar S, Laxminarayana E, Randheer Kumar M , Thirumala Chary M, *Ecofriendly synthesis of 3,4-dihydro-5-methyl-3-phenyl-2h-[1,3]oxazino[5,6-c][1,8]naphthyridine and derivatives.*, Chemistry- an Indian Journal, Vol No.5, pp.2, 2010
- > M.Thirumala chary, S.Shivashankar, E.Laxminarayana, B.Srinivasulu , *Synthesis and antimicrobial activity of some 3-substituted naphthyridines*, Indian Journal of Heterocyclic chem., Vol No.18, pp.341-344, 2009
- > Thirumala Chary, K.Mogilaiah, B.Sreenivasulu, 6. *Substituted 1,8-naphthyridines , part xiii : synthesis antibacterial activity of some Aromatic acids, 1-(2-methyl-1,8-naphthyridin-3-yl)ethylidene hydrazides*, Vol No.26, pp.20-22, 1990
- > M.Thirumala Chary, K.Mogilaiah, B.Sreenivasulu , 7. *Synthesis of 2-methyl-3-(5-aryl-1,3,4-oxadiazol-2-yl)-1,8-naphthyridines*, J. Indian Chem Soc. , Vol No.67, pp.691-693, 1990
- > 1)M.Thirumala Chary, 2)K.Mogilaiah, 3)B.Sreenivasulu , 5. *Synthesis of 2-(2-amino-3-pyridyl)-3-substituted benzylaminothiazolidinones*, J. Indian chem. soc , Vol No.66, pp.61-63, 1989
- > M.Thirumala Chary, K.Mogilaiah, B.Sreenivasulu, 3. *Substituted 1,8-naphthyridines part V : Synthesis of 2-(1,8-naphthyridin-2-yl)-4-arylozo-1-naphthols*, J.Indian Chem Soc. , Vol No.64, pp.488, 1987
- > Thirumala Chary, K.Mogilaiah, B.Sreenivasulu, 4. *Laboratory evaluation of 2-(1,8-naphthyridin-2-yl)-4-arylozo- 1-naphthols against some phytopathogenic fungi*, Biome , Vol No.2(2), pp.77-79, 1987
- > M.Randheer kumar, A. Narendar, M.Thirumala chary, 21. *Synthesis of 1-(3,5-dimethyl-2-[1,8]naphthyridin-2-yl-phenyl)-3-phenyl-urea derivatives*, Indian Journal of heterocyclic Chemistry
- > E.Laxminarayana, s.Shiva Shankar, D.Ramesh, M.Thirumala Chary, *A study on antibacterial activity of substituted 1,8-naphthyridines containing carbaldehydes, methylene hydrazines, thiadiazol amines and triazole thiols*, Journal of Bio-technology
- > Laxminarayana E, Narendar A, Shiva Shankar S, Thirumala Chary M, *Synthesis of 7-[(4-(4-(4,5-dihydro-5-aryl-1H-pyrazol-3-yl)phenyl)-6-phenylpyrimidin-4-yl-amino)-2-yl]-amino-4-methyl-1,8-naphthyridin-2-ols and 7-[4-(4-(6-phenylpyrimidin-4-yl-amino)phenyl)-6-arylpyrimidine-2-thio-2-yl]-amino-4-methyl-1,8-naphthyridin-2-ols as antibacterial agents.*, Indian Journal of Chemistry , Vol No.Sec-B
- > M.Thirumala Chary, A. Narendar, 52. *Silica Sulfuric Acid Catalysed Synthesis of 1,8-Naphthyridines in the solid state Under Microwave Irradiation.*, an Indian Journal
- > K. Susmitha,**M. Thirumala Chary**, G. Venkateshwarlu, *Spectrophotometric determination of certain CNS stimulants via Charge transfer complexation and oxidation reactions*, Indian Journal of Chemical Technology

#### -> Events Participated/Organized

#### - Organized

- > Organized a Conference on International Conference on Recent advances in Chemistry and Chemical Engineering ICACACE-2016, Hyderabad, 11-07-2016 to 13-07-2016

#### ->Teaching

- > Applied Chemistry in Chemical Engineering I Semester (2015)
- > Organic Spectroscopy in M.SC Chemistry III (2015)
- > Spectroscopy lab in M.SC Chemistry IV (2016)
- > Phot Chemistry & Perycyclic reactions in M.Sc IV (2016)
- > Organic Spectroscopy in Ph.D Course work Ph.D Course work (2016)
- > Organic Chemistry in B.Tech 2nd Year Chemical Engineering II Semester (2016)
- > Applied Chemistry Lab in Section (A1) I Semester (2016)
- > Organic Chemistry in M.SC Chemistry I Semester (2016)
- > Applied Chemistry in Mechanical Engineering I Semester (2016)

#### -> Administrative Positions Held

- > Chairman, CRC B.Tech I Year, JNTUH College of Engineering, Hyderabad, 18 Aug 2015 - Present
- > Head, JNTUH College of Engineering, Hyderabad, 15 Nov 2016 - Present
- > Chairman, Board of Studies in Chemistry, Jawaharlal Nehru Technological University Hyderabad, 05 Oct 2012 - 31 Oct 2014
- > Principal, JNTU College of Engineering, Jagityal, 13 Sep 2012 - 15 May 2015
- > Vice-Principal, JNTU College of Engineering, Jagityal, 31 Jul 2010 - 12 Sep 2012

-> Project/Research Guidance

- Students

| Student Name       | Title  | Year | Download |
|--------------------|--|------|----------|
| A.Mounika          | Synthesis of N <sup>4</sup> -(4-chlorobenzylidene)-3-hydroxyquinoxaline-2-carbohydrazide and 3-(5-(4-chlorophenyl)-1,3,4-oxadiazol-2-yl)quinoxalin-2-ol                        | 2016 |          |
| A.GAYATHRI         | Synthesis of 1-(3-hydroxyquinoxaline-2-carbonyl)-3-methyl-1H-Pyrazol-5(4H)-one   | 2016 |          |
| M.Mounika          | Synthesis of 3-Hydroxyquinoxaline-2-carbophydrazide and 3-(5-amine-1,3,4-oxadiazol-2-yl)quinoxalin-2-ol  | 2016 |          |
| Ch.Karuna          | Synthesis of ethyl 3-((1H-tetrazol-5-yl)methoxy) quinoxaline-2-carboxylate   | 2016 |          |
| Student Name       | Title  | Year | Download |
| A. Narender        | Synthesis and antimicrobial activity of 1,8-Naphthyridines   | 2016 |          |
| E. Laxminarayana   | Synthesis and antimicrobial activity of 1,8-Naphthyridine and its derivatives  | 2015 |          |
| S. Shiva Shankar   | Synthesis and antimicrobial activity of substituted 1,8-Naphthyridines   | 2015 |          |
| M. Ranadheer Kumar | Synthesis and antimicrobial assay of some new 1,8-Naphthyridine  | 2015 |          |
| G V Satyanarayana  | Synthesis, Characterization and antimicrobial evaluation of Hydrazide, Hydrazone Derivatives and Synthesis of certain related substances of Active Pharmaceutical Ingredients. | 2015 |          |
| K. Sushmitha       | Quantitative determination of drugs and pharmaceuticals and pesticides: A spectrophotometric study   | 2015 |          |
| V Haripriya        | Synthesis and antimicrobial assay of some new substituted derivatives of Quinoxalines  | 0    |          |
| T. Thirupathiah    | Synthesis and antimicrobial activity of Quinoxaline derivatives  | 0    |          |
| K. Srivani         | Synthesis and antimicrobial activity of nitrogen containing heterocyclic compounds.  | 0    |          |
| K Shashikala       | Synthesis, characterization and antibacterial activity of quinoxalines, Imidazo pyrimidines and pyrido pyrazines   | 0    |          |
| G Vijay Bhaskar    | Synthesis and antimicrobial activity of 1,7-Naphthyridines   | 0    |          |
| A Kishore Kumar    | Environmentally benign synthesis and biological assay of Pyrimidine and Indole derivatives   | 0    |          |
| T Rajani Devi      | Synthesis antimicrobial activity of substituted Quinoxaline derivatives  | 0    |          |
| M Rajesh           | New synthetic routes for Active Phamra Ingredients (APIs <sup>TM</sup> )   | 0    |          |
| N Madhava Rao      | New synthetic routes for Active Phamra Ingredients   | 0    |          |
| M Rajinikanth      | Diversity Oriented Synthesis and Scaffold hopping Strategies towards the biologically active heterocycles  | 0    |          |
| K Y Kiran kumar    | Development of analytical methods for pharmaceuticals with QBD approach  | 0    |          |
| G. Kiran           | Novel synthesis of the heterocyclic compounds  | 0    |          |

-> Countries/Foreign Universities

-> St. John's, Labrador, Canada , 03-07-2016 to 03-08-2016 Presented a paper in "International Congress on Heterocyclic Chemistry"

Contact :

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Chemistry

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