

## RESUME

Name and full correspondence address:

**Dr. M. AJITHA**  
**M.Pharm., Ph.D**  
**Professor & OIE**  
**Centre for Pharmaceutical Sciences**  
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**JNTUH, Kukatpally, Hyderabad-**  
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Institution: Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad

Date of Birth: 08-07-1972

Gender (M/F/T): F

Category Gen/Sc/St/OBC: OBC

Whether differently abled (Yes/No): No

### **Academic Qualifications (Undergraduate Onwards)**

1. B. Pharmacy from Kakatiya University in 1995
2. M. Pharmacy from Kakatiya University in 1997
3. Ph. D from Kakatiya University in 2009

### **Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.**

“Synthesis and evaluation of new isatin derivatives for possible biological activities”. Dr. M. Sarangapani, University College of Pharmaceutical Sciences, Kakatiya University, Warangal, India, 2009.

### **WORK EXPERIENCE: (22 years of experience)**

<b>Period</b>	<b>Position</b>	<b>Name of the organization</b>
Mar 2018- Till date	Professor & OIE	CPS, JNTU-Hyderabad
Jan 2018- Mar 2018	Professor	CPS, JNTU-Hyderabad
July.2016- Jan 2018	Professor & BOS Chair person	CPS, JNTU-Hyderabad
Dec.2015-July.2016	Associate professor & BOS Chair person	CPS, JNTU-Hyderabad
Sept.2014-Nov.2015	Associate professor	CPS, JNTU-Hyderabad
July 2012 to Sept.2014	Associate professor & Head	CPS, JNTU-Hyderabad

July 2010 to July 2012	Associate professor	CPS, JNTU-Hyderabad
November 2009 to June 2010	Principal	RGR Siddhanthi College of Pharmacy, secunderabad
June 2008 to October 2009	Principal	Kakatiya Institute of Pharmaceuticals sciences, Warangal.
April 2005 to June 2008	Research Associate	Kakatiya University, Warangal.
November 2002 to April 2005	Associate professor	Vaagdevi college of Pharmacy. Warangal
November 1997 to April 2005	Assist. Professor	Vaagdevi college of Pharmacy. Warangal

### **RESEARCH AREAS:**

*Pharmaceutical Chemistry (Drug design and discovery, Synthesis of new heterocyclic molecules). Synthesized molecules will be evaluated for various pharmacological activities such as anti-cancer, anti-tubercular and anti-diabetic. Semi-synthetic derivatization is also one of the research area obtained from plant sources. Other research areas include pharmaceutical analysis where new analytical methods will be developed. Also involved in formulation development activities for the lead molecules.*

### **Projects Completed:**

- 1) AITCE- Research Promotion Scheme entitled “Development of solvent free and economically viable process for novel isatin derivatization and cytotoxic evaluation,” – 6.5 lakhs
- 2) UGC-Major Research Project entitled “Eco-design of Isatin derivatization under solvent free condition and evaluation for anticancer and antimetabolic activity”, - 11.47 lakhs

### **Refresher courses conducted:**

- 1) UGC-sponsored three week refresher course on “Recent Trends in Pharmaceutical Research and Development and its Applications to Industry” (25-06-2012 to 14-07-2012)

- 2) UGC-sponsored three week refresher course on “Recent innovations in novel drug delivery systems through nanotechnology towards various diseases” (02-03-2015 to 24-03-2015)
- 3) UGC-sponsored three week refresher course on “Acquiring and improving the skills through pharmacy and biotechnology”(06-02-2017 to 25-02-2017)

**Workshops conducted:**

- 1) “Application Of Advanced Analytical Techniques In Pharmaceutical Sciences And Nanotechnology”(16-09-2016 to 17-09-2016)

**Conference conducted:**

- 1) “Emerging Trends and Innovations in Pharmaceutical Sciences (ETIPS-2017)” (12-10-2017 to 13-10-2017)

**Awards Received:**

- Awarded Research Fellowship from University Grants Commission, New Delhi, India.
- Awarded Junior Research Fellowship from University Grants Commission, New Delhi, India.

**Membership in Various Professional Bodies:**

- Life Member in Association of Pharmaceutical Teachers of India (APTI)
- Life member in The Indian Society For Technical Education
- Life Member in the Association of Chemistry Teachers
- Life Member in Indian Science Congress Association

PhD Scholars Awarded	10
PhD Scholars Submitted	01
PhD Scholars Working	10 (02- full time and 07- part time)
PDF Scholar working	01
M. Pharm Students Guided	70

**Patents**                      **03**

**Publications**                **75**

## LIST OF PATENTS, PUBLICATIONS AND PRESENTATIONS

## Patents:

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1	Hydrazaline hydrochloride pellets and its preparation method	Dr Navaneeta Krishna G, Dr.M. Ajitha, Dr. K. Rajnarayana	2228/CHE/2014A	13/06/2014	India	Published
2	Novel Pyrimidine-Coumarin derivatives	Dr. C. Radhika Dr. M.Ajitha	20174103980 2 A	17/11/2017	India	Published
3	Synthesis of novel Indole-Pyrimidine derivatives	Dr. C. Radhika Dr. M.Ajitha	20184101641 2	01/05/2018	India	Filed

## Publications:

1. **M. Ajitha.** Rajnarayana. K., Pregnancy: The role of drugs, *Indian journal of clinical pharmacology and therapeutics*, 2000, 20(3): 72-77. Impact factor: 1.22
2. Kishan A.R, **M. Ajitha** and Rajnarayana. K. Antidiabetic, antihyperlipidemic and free radical scavenging activities of an Ayurvedic medicine, *Indian drugs*, 2000, 37(3):130-132. Impact factor: 0.96
3. Rajnarayana. K., **M. Ajitha.** Headache: Anupdate, *Indian drugs*, 2001,38 (9): 447-457. Impact factor: 0.96
4. **M. Ajitha.** Rajnarayana. K., Role of Oxygen free radicals in human disease, *Indian drugs*, 2001,38(11):545-554. Impact factor: 0.96
5. M. Ajitha, K. Rajnarayana, M. Sarangapani. Synthesis of new 2-substituted-[1,3,4]-oxadiazino-[5,6-b]-indoles with H1-antihistaminic, antimuscarinic and antimicrobial activity. *Die Pharmazie*,2002: 57 (12): 796-799. Impact factor: 1.3

6. **M. Ajitha**, K. Rajnarayana, M. Sarangapani. Synthesis and evaluation of New 3-substituted [3,4-dihydropyrimidinones] indolin 2-ones for Antioxidant activity, *Asian journal of chemistry*, 2009, 21 (6): 4635-4642 . Impact factor:
7. Rajnarayana, K., **M. Ajitha**, G. Gopireddy, V.S. Giriprasad. Paracetamol disposition following acute and sub-chronic treatment of fried onions. *International Journal of Pharmacy and Technology*, 2010, 2(4): 1291-1298. Impact factor:
8. **M. Ajitha.**, K. Rajnarayana. Synthesis and evaluation of New 3- substituted-[3, 4-dihydro pyrimidinones ]-Indolin-2-ones for In vitro cytotoxic activity. *International Journal of Pharmacy and Pharmaceutical sciences*, 2011, 3(4). Impact factor:
9. **M. Ajitha.**, K. Rajnarayana, M. Sarangapani. Synthesis and evaluation of New 3-substituted-[3,4-dihydro pyrimidinones]-Indolin-2-ones for Analgesic activity. *International Research Journal of Pharmacy*, 2011, 2(7): 80-84 Impact factor:
10. **M. Ajitha.**, K. Rajnarayana, M. Sarangapani. Synthesis and evaluation of New 3-substituted-[3,4-dihydro pyrimidinones ]-Indolin-2-ones for Anti inflammatory activity. *International Journal of Pharma and Biosciences*, 2011: 2(4) Impact factor:
11. Laxminarayana Burugula, Ramesh Mullangib, NageswaraRao Pillia, **Ajitha Makula**, DurgaSrinivas Lodagalac and Rajnarayana Kandhagatla. Liquid chromatography-tandem Mass spectrometric assay for the non-nucleoside reverse transcriptase inhibitor rilpivirin in human plasma. *Biomedical chromatography*, 2011. Impact factor: 1.7
12. VenkannaBayya, Sreedharachaganti, **M. Ajitha**. A sensitive and specific bioanalytical method development and validation of fenofebic acid in human plasma using liquid chromatography tandem mass spectrometry, *American journal of pharmatech research*, 2011: 4, 66-80. Impact factor: 0.98
13. VenkannaBayya, Sreedharachaganti, **M. Ajitha**. A rapid and rugged bioanalytical method development and validation of clopidogrel in human plasma using liquid

- tandem mass spectrometry, *American journal of pharmatech research*,2011:1, 297-310 Impact factor: 0.98
14. Rajnarayana, K., **M. Ajitha**, G. Gopireddy, V.S. Giriprasad. Comparative antioxidant potential of some fruits and vegetables using DPPH method. *International Journal of Pharmacy and Technology*, 2011: 3(1),1957-1962 . Impact factor:
  15. M. Ajitha., K. Rajnarayana, M. Sarangapani. Pharmacological Screening of New Isatin-3-[N<sub>2</sub>-Hetaryl-2-thioacetyl] hydrazones. *International Journal of Pharmacy and Technology*,2011,3(1):1447-1453. Impact factor:
  16. K.SureshBabu, K, **M. Ajitha**,B. Ramesh J. MadhusudanaRao, Quantification of Bergenin from Mallotus philippinensis by HPTLC-MS and Study on Different Extraction Methods, *Journal of Planar Chromatography*: 445-449. Impact factor: 0.736
  17. Laxminarayana Burugula, NageswaraRao Pillia, Ramesh Mullangib, **AjithaMakula**, Durga SrinivasLodagalac and Rajnarayana Kandhagatla. Simultaneous determination of sitagliptin and simvastatin in human plasma by LC-MS/MS and its application to a human pharmacokinetic study. *Biomedical Chromatography*, 2012 Impact factor: 1.7
  18. Laxminarayana Burugula,Nageswara rao Pilli,Ajitha Makula,Durga srinivas Lodagalac and Rajnarayana Kandagatla.Simultaneous Determination of Ritonavir and Atazanavir in Human Plasma by LC-MS/MS and Its Pharmacokinetic Application, *American journal of pharmatech research*;2012:2,59-71 Impact factor: 0.98
  19. **Makula Ajitha\***, FathimaAnjum, T.Radhika and K.Rajani.Analytical method development and validation of Valsartan in bulk by RP-HPLC method, *International Journal of Pharmaceutical Sciences Review and Research*; 2012:16(1), 88-90. Impact factor: 2.1
  20. **Makula Ajitha\***, FathimaAnjum, T.Radhika and K.Rajani.Analytical method development and validation of capecitabine in bulk by RP-HPLC method *International Research Journal of Pharmacy*; 2012:3(3), 178-180. Impact factor:

21. Ceema Mathew, **M. Ajitha** and R.Sathesh babu., Cefpodoxime Proxetil: A New Stability Indicating RP-HPLC Method. *ISRN Chromatography*, 2013:1-8. Impact Factor:
22. Khagga Bhavyasri, V. Murali Balaram, R. Nageswarao, D. Rambabu and **M. Ajitha**; RP-UPLC method development and validation for the simultaneous estimation of proganil and atovaquone in pharmaceutical dosage form, *Journal of Chemical and Pharmaceutical Research*, 2013, 5(12):1222-1229. Impact Factor:
23. Khagga Bhavyasri, V. Murali Balaram, R. Nageswarao, D. Rambabu and **M. Ajitha**; Rapid simultaneous determination of naproxen and esomeprozole magnesium in combined tablets by validated ultra performance liquid chromatographic method, *Journal of Chemical and Pharmaceutical Research*, 2013, 5(12):1230-1236. Impact Factor:
24. Rambabu Maddela, Ramakrishna Gajula, Nageswara Rao Pilli, Sridhar Siddiraju, Srinubabu Maddela, **Ajitha Makula**, Liquid chromatography–tandem mass spectrometric assay for eltrombopag in 50 $\mu$ L of human plasma: A pharmacokinetic study: *Journal of Pharmaceutical and Biomedical Analysis*, 2014, 98:68–73. Impact Factor:3.255
25. Kothapalli Haribabu, **Makula Ajitha**, Uppuluri Venkata Mallavadhani; Quantitative estimation of (-) - hinokinin, a trypanosomicidal marker in Piper cubeba, and some of its commercial formulations using HPLC-PDA: *Journal of Pharmaceutical Analysis*, 2014. Impact Factor:.
26. Ceema Mathew, B. Suman, **M. Ajitha** And P.R.Sathesh Babu, A Green Analytical Method for the Simultaneous Estimation of Levofloxacin Hemihydrate and Ambroxol Hydrochloride Using Hydrotropy and First Derivative UV Spectroscopy, *Oriental Journal Of Chemistry*, 2014, 30 (3): 1385-1389. Impact Factor:
27. Ceema Mathew, **M. Ajitha** And P.R.Sathesh Babu Development and Validation of a Stability Indicating RP-HPLC Method for Balofloxacin, *Oriental Journal Of Chemistry*, 2014, 30 (4): 191985-1923. Impact Factor:

28. Srinubabu Maddela, **Makula ajitha\***, Muralidharan venugopal, Rambabu Maddela; Design And Synthesis of Novel Quinoline 3-Carbohydrazone Derivatives for their Antimicrobial and Antioxidant activity: *International Journal of Pharmacy and Pharmaceutical Sciences*,2014,6(6):254-258. Impact Factor:
29. Srinubabu Maddela, **Ajitha Makula** & Rambabu Maddela; Synthesis of isatin–quinoline conjugates as possible biologically active agents: *Toxicological & Environmental Chemistry*,2014,96(1):1-11. Impact Factor:0.795
30. Maurya RA, Nayak R, Reddy CN, Kapure JS, Nanubolu JB, Singarapu KK, Ajitha M. Regio-and stereoselective synthesis of novel spiropyrrolidines through 1, 3-dipolar cycloaddition reactions of azomethine ylides and 2-styrylquinazolin-4 (3 H)-ones. RSC Advances. 2014;4(61):32303-11. Impact factor: 3.108
31. G. Sanjana Reddy\*, B.Sirisha\*, Dr.V. Uma Maheshwar Rao, P. Vijaya Lakshmi, M. Ajitha. “Formulation And In Vitro Evaluation Of Colon Specific Drug Delivery Of Naproxen Sodium By Using Pulsincap Technology”. Pharmanest.2014. Impact Factor:
32. S. Aqdas\*, V.U.M Rao, B.Sirisha, P.Rajkumar, P.V.Lakshmi, M. Ajitha. “Formulation and In-Vitro Evaluation of Stomach Specific Floating Microspheres of Simvastatin”. International Research Journal of Pharmacy. 2014, 5(11), 827-833. Impact Factor:
33. Srinubabu Maddela, **Makula ajitha\***, Muralidharan venugopal, Rambabu Maddela; Design and synthesis of new N'-substituted-2-methylquinoline-3-carbohydrazides with antioxidant and antimicrobial activity”, *Indian Journal of Chemistry*, 2015, 54B (7), 930-935. Impact Factor:0.54
34. Ceema Mathew, **M. Ajitha** , P. R. Sathesh Babu, An economical stability indicating rp hplc method for the simultaneous analysis of ofloxacin and tinidazole. *Indo-american journal of pharmaceutical research*,2015,5(8), 2803-2813. Impact Factor:0.32
35. Ceema Mathew, B. Suman, **M. Ajitha** And P.R.Sathesh Babu, A green analytical method for the simultaneous analysis of cefixime trihydrate and ambroxol HCl

- based on ultraviolet derivative spectroscopy, **Drug development and discovery**, 2015, 6 (2 ),74-78. Impact Factor:0.72
36. Venkanna Bayya, **Ajitha Makula**, Krishna Sanka, Naga Sandhya Borra, And Sreedhara Chaganty Rapid, Selective, and Rugged Method Development and Validation of Atorvastatin and its Active Metabolites, o-Hydroxy Atorvastatin and p-Hydroxy Atorvastatin, in Stabilized Plasma Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. **Journal of Liquid Chromatography & Related Technologies**, 2015, 38, 1585–1592. Impact Factor:1.4
  37. Khagga Bhavyasri, V.Murali Balaram, R.Nageswarao, D.Rambabu , E.Sasikiran Goud, **M.Ajitha** “Development and validation of forced degradation studies of atazanavir using RP-HPLC and characterization of degradants by LC-MS/MS” International Journal of Pharmaceutical Sciences Review and Research: 33(2), 2015, 11-15. Impact Factor:2.1
  38. Khagga Bhavyasri, V. Murali Balaram, R. Nageswarao, D. Rambabu **M. Ajitha** “Development and VALIDATION of forced degradation studies of lopinavir using RP-HPLC and characterization of degradants by LC-MS/MS” International Journal of Chemical Sciences : 13(1), 2015, 551-562. Impact Factor:0.13
  39. Khagga Bhavyasri, V.Murali Balaram, R.Nageswarao, D.Rambabu, E.Sasikiran Goud, **M.Ajitha**. “Development and validation of forced degradation studies of raltegravir using RP-HPLC and characterization of degradants by LC-MS/MS” Journal of Pharmaceutical Sciences and Research: 7(9), 2015, 685-689. Impact Factor:0.43
  40. Khagga Bhavyasri, V.Murali Balaram, R.Nageswarao, D.Rambabu , E. Sasikiran Goud, **M.Ajitha**. “Development and validation of forced degradation studies of Rasagiline mesylate using RP-HPLC and characterization of degradants by LC-MS/MS” Papers accepted for publishing in forthcoming volumes of International Journal of Pharma Research and Development. Impact Factor:
  41. Khagga Bhavyasri, V. Murali Balaram, R. Nageswarao, D. Rambabu,**M. Ajitha** and Bala Sekhara Reddy Challa. “A Validated Bioanalytical Method for Quantification of Ziprasidone in Rabbit Plasma by LC-MS/MS: Application to a

- Pharmacokinetic Study” British Journal of Pharmaceutical Research: 6(5), 2015, 322-332. Impact Factor:
42. Khagga Bhavyasri<sup>1</sup>, V. Murali Balaram, R. Nageswarao, D. Rambabu, **M. Ajitha** and B. R. Challa. “Quantification of Etravirine in Rat Plasma by LC-MS/MS and Application to a Pharmacokinetic Study” Journal of Scientific Research & Reports: 8(4), 2015, 1-10. Impact Factor:
  43. Kiran Kumar, P.srikanth, **M.Ajitha**, Madhusudan Rao.Y. World Journal of Pharmaceutical Research Formulation And Evaluation Of Floating Mini Matrix Tablets Of Thiamine Mononitrate : 4(5), 2015, 2718-2736. Impact Factor:
  44. Kiran Kumar, P. Srikanth, **M. Ajitha**, Madhusudan Rao. Y. Formulation and Evaluation of Floating Matrix Tablets of Dipyridamole. American journal of pharmatech research 5(4), 2015,1-15. Impact Factor:0.98
  45. Bayya, V., Makula, A., Sanka, K., Borra, N. S., & Chaganty, S. Rapid, Selective, and Rugged Method Development and Validation of Atorvastatin and its Active Metabolites, o-Hydroxy Atorvastatin and p-Hydroxy Atorvastatin, in Stabilized Plasma Using Liquid Chromatography Coupled with Tandem Mass Spectrometry. Journal of Liquid Chromatography & Related Technologies, 2015. 38(17), 1585-1592. Impact Factor:
  46. Rambabu Maddela, Nageswara Rao Pillia, Vasu Babu Ravi, Vinayender Adireddy, Ajitha Makula\*. “Simultaneous Determination Of Artesunate And Amodiaquine In Human Plasma Using Lc-Ms/Ms And Its Application To A Pharmacokinetic Study”. International Journal of Pharmacy and Pharmaceutical Sciences. 2015,7(12),105-112. Impact Factor:
  47. Gayatri. P\*, Ajitha.M, Pavan Kumar.P, Madhusudan Rao.Y. “Development and Characterization of Nisoldipine Matrix Type Transdermal Films; In vitro and Ex-vivo Evaluation”. American Scientific Research Journal for Engineering, Technology, and Sciences.2016, 23(1), 1-14. Impact Factor:
  48. Srinubabu Maddela, **Ajitha makula**, Design, Synthesis and Docking Study of Some Novel Isatin- Quinoline Hybrids as Potential Antitubercular Agents. Anti-infective agents,14(1),2016. Impact Factor:0.65

49. Maddela R, Pilli NR, Maddela S, Pulipati CR, Polagani SR, Makula A. A novel and Rapid LC–MS/MS assay for the Determination of Mycophenolate and Mycophenolic Acid in Human Plasma. *Journal of Young Pharmacists*. 2017 Jan 1;9(1):106. Impact Factor:
50. Gayatri P, Ajitha M, Rao YM, Kumar PP. Quantification of Thiocolchicoside in Rabbit Serum by High Performance Liquid Chromatographic Method: Application to Pharmacokinetic Study. *Indian Journal of Science and Technology*. 2017 Jul 5;10(24). Impact Factor:
51. P. Gayatri, M. Ajitha, Kiran Kumar, P. Pavan Kumar, Y. Madhusudan Rao. “Validated High Performance Liquid Chromatographic Method for Estimation of Nisoldipine from Matrix Type Transdermal Films: Application to Ex vivo Skin Permeability Studies”. *Asian Journal of Pharmaceutics*. 2017,11(2), 407-411. Impact Factor:
52. Maddela S, Makula A, Jayarambabu N. Fe<sub>3</sub>O<sub>4</sub> Nanoparticles Mediated Synthesis of Novel Isatin-dihydropyrimidinone Hybrid Molecules as Antioxidant and Cytotoxic Agents. *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)*. 2017 Mar 1;17(3):456-63. Impact Factor:2.5
53. Chelamalla R, Makula A. Molecular docking studies and ADMET Predictions of Pyrimidine Coumarin Scaffolds as Potential IDO Inhibitors. *Asian Journal of Research in Chemistry*. 2017 Jun 28;10(3):331-40. Impact Factor:
54. Chelamalla R, Makula A. Virtual Screening and ADMET Studies to Identify KSP Inhibitors as Anticancer Therapeutics. *International Journal of Advances in Pharmaceutical Sciences*. 2017 Jul 13;9(1). Impact Factor:
55. Nagesh Vaddiraju, **M. Ajitha**, K. Rajnarayana. Synthesis and Biological Evaluation of novel R1, R2 substituted N,5-di(1H-indol-3-yl)-3-phenyl-4,5-dihydro-1H-pyrazole-1-carboxamide and carbothioamide derivatives having Anti Diabetic activity. *Russian journal of Organic Chemistry (Accepted for publication)* Impact Factor: 0.603
56. Nagesh Vaddiraju, **M. Ajitha**, K. Rajnarayana. Synthesis and Biological Evaluation of novel R1, R2 substituted 2-(3,5-diphenyl-4,5-dihydro-1Hpyrazol-

- 1-yl)-N,6-diphenyl-6H-1,3-thiazin-4-amines having Anti Diabetic activity. Asian journal of pharmaceutical sciences (Accepted for publication) Impact Factor: 2.11
57. Nagesh Vaddiraju, **M. Ajitha**, K. Rajnarayana. Synthesis and Biological Evaluation of novel R1, R2 substituted 2-(4-((2-(4-alkoxyphenyl)-5-methyloxazol-4-yl)methyl)-1-alkyl-5-methyl-1H-pyrazol-3-yloxy)-6(hydroxymethyl)tetrahydro-2Hpyran- 3,4,5-triol having Anti Diabetic activity. European Journal of Medicinal Chemistry. (Accepted for publication) Impact Factor: 4.519
58. Radhika Chelamalla, **Ajitha Makula**, Sarangapani Manda. Design, Synthesis and In silico studies of new 5-substituted-2-(2-(5-aryl-1H-1,2,4-triazole-3-ylthio) acetyl) hydrazine carbothioamide/ carboxamides for anticonvulsant activity. Letters in Drug Design & Discovery, 2017, 14, 000-000) Impact Factor:1.17
59. Mohammed Azam, **Makula Ajitha**. Phyllanthin: A potential lead molecule for the future needs. International journal of Pharmacognosy and phytochemical research. 2017; 9(8); 1081-1089. Impact Factor:1.846
60. **M. Ajitha**, Gaddameedi Menaka. Method Development And Validation Of Fosinopril And *Hydrochlorthiazide* By Using Rp-Hplc In Its Bulk. Journal of Scientific Research in Pharmacy. 2017;6(Suppl 1):23-26. Impact factor:
61. Tejaswini Kudikyala, **Ajitha Makula**, Rambabu. Analytical Method Development And Validation For The Simultaneous Estimation Of Atorvastatin And Ezetimibe In Bulk By Rp-Hplc. Journal of Pharma Research. 2017;6(Suppl 2):43-46.
62. N.N.G. Deepika, **M. Ajitha**, K. Rambabu. Analytical Method Development And Validation For Simultaneous Estimation Of Sacubitril And Valsartan In Bulk By Rp-Hplc Method. Journal of Scientific Research in Pharmacy. 2017;6(Suppl 1):1-6.
63. J. Premsagar, **M. Ajitha**, Sanjay H. Pasi, K.S.L. Harika. Stability Indicating Assay Method Development And Validation Of Exemestane By Rp-Hplc. Journal of Scientific Research in Pharmacy. 2017;6(Suppl 1):27-30.
64. Shergal Priyanka Mudhiraj, S. Shobha Rani, **M. Ajitha**, K. Rambabu. Stability Indicating Method Development And Validation For The Simultaneous

- Estimation Of Pregabalin And Methylcobalamine By Rp-Hplc In Its Bulk Form. Journal of Pharma Research. 2017;6(Suppl 2):89-95.
65. D. Sireesha, K. Raj Narayana, **M. Ajitha**, Vasudha Bakshi. Development and validation of rp-hplc method for the simultaneous estimation of desloratidine and montelukast hcl in pharmaceutical dosage form. Journal of Pharma Research. 2017;6(Suppl 2):96-100.
66. P. Sri Haritha, S. Shobha Rani, **M. Ajitha**, K. Rambabu. Stability indicating method development and validation for the simultaneous estimation of palonosetron and netupitant by rp-hplc in its bulk form. Journal of Pharma Research. 2017;6(Suppl 2):101-106.
67. D. Shravan Kumar, **M. Ajitha**, Mahesh Rajendra Awate, K.S.L. Harika. Stability Indicating Assay Method Development And Validation Of Apixaban Tablets By Rp-Hplc. Journal of Scientific Research in Pharmacy. 2017;6(Suppl 1):71-75.
68. B. Shirisha, **M. Ajitha**. Formulation and evaluation of colon ivermectin immediate release tablets by using natural polymers. International Journal of Pharmacy and Industrial. Research Vol.-06 (04) 2016 [98-110].
69. A. Mounika ,**M. Ajitha**, Y.V.Rajesh. Stability Indicating Assay Method Development And Validation Of Clomipramine Hydrochloride Capsules By RP-HPLC. Journal of Emerging Technologies and Innovative Research. November 2018, Volume 5, Issue 11(566-576).
70. P.Manasa, **M. Ajitha**, A.Vijay Goud. Stability Indicating Assay Method Development And Validation Of Enr\*Tablets By RP-HPLC. Journal of Emerging Technologies and Innovative Research. November 2018, Volume 5, Issue 11(556-565).
71. Podchanpalli Balraj, **M. Ajitha**, Sanjay.H.Pasi,K.S.L.Harika. Stability Indicating Assay Method Development And Validation Of Naproxen Sodium In Pharmaceutical Tablet Dosage Forms By RP-HPLC. Journal of Emerging Technologies and Innovative Research. December 2018 Volume 5, Issue 12(190-202).

72. P.Aliveni, **M. Ajitha**, K.Rambabu. Stability Indicating Method Development And Validation Of Glimepiride By RP-HPLC. Journal of Emerging Technologies and Innovative Research. December 2018 Volume 5, Issue 12(259-267).
73. Sireesha Dodda, **Ajitha Makula**, Srinivasa R Polagani, Raj N Kandhagatla. Development and validation of bioanalytical liquid chromatography–tandem mass spectrometry method for the estimation of pentoxifylline in human plasma: Application for a comparative pharmacokinetic study. European Journal of Mass Spectrometry. 2018. 0(00) 1–9.
74. Sireesha Dodda, **Ajitha Makula**, Srinivasa Rao Polagani, Raj Narayana Kandhagatla. High sensitive LC–MS/MS method for estimation of eluxadoline in human plasma and its application to pharmacokinetic study. Journal of Pharmaceutical and Biomedical Analysis 165 (2019) 65–72.
75. D. Sireesha, **M. Ajitha**, K. Raj Narayana. Simultaneous Bioanalysis of Prodrug Oseltamivir and its Metabolite Oseltamivir Carboxylic Acid in Human Plasma by LC/MS/MS Method and its Application to Disposition Kinetics. Current Pharmaceutical Analysis, 2018, 14, 000-000.

#### **LIST OF PUBLICATIONS IN CONFERENCE**

1. **M.Ajitha\***, M.Sarangapani, Presented paper entitled Cytotoxic activity of new 3-substituted [3, 4-dihydro pyrimidinones] indolin -2- ones, C89. APTICON-2010.
2. **M.Ajitha\***, M.Sarangapani Presented paper entitled Synthesis and evaluation of new 3-substituted [3, 4-dihydro pyrimidinones] indolin -2- ones for anti-inflammatory and analgesic activities, C90. APTICON-2010.
3. B.Balakrishna\*,S.Raghavender,D.Praveen kumar, K.Anil kumar, **Dr.M.Ajitha** Presented paper entitled Determination of trace amounts of Anions in docetaxel by ion chromatography and compared with other techniques, G84. APTICON - 2010.
4. D.Praveen kumar\*, S.Raghavender,B.Balakrishna,K.Anil kumar, **Dr.M.Ajitha** Presented paper entitled Reverse phase – HPLC method for the analysis of Tinidazole in Pharmaceutical dosage form and bulk drug, G86. APTICON -2010.

5. S.Raghavender\*,K.Kishore kumar,CH.Kameshwara rao, **Dr.M.Ajitha** Presented paper entitled a stability Indicating UPLC method for Candesartan, G87. APTICON -2010.
6. Presented paper entitled a validated stability indicating HPLC method for Cefixime trihydrate at 63<sup>rd</sup> Indian Pharmaceutical Congress, Bangaluru, held during 16<sup>th</sup>-18<sup>th</sup> Dec 2011.
7. Presented paper entitled Development, invitro and invivo characterization of mucoadhesive buccal patches for Sumatriptan at 63<sup>rd</sup> Indian Pharmaceutical Congress, Bangaluru, held during 16<sup>th</sup>-18<sup>th</sup> Dec 2011.
8. Presented paper entitled Formulations and Development of Curcumine microspheres for colon cancer at 63<sup>rd</sup> Indian Pharmaceutical Congress, Bangaluru, held during 16<sup>th</sup>-18<sup>th</sup> Dec 2011.
9. **Dr. M. Ajitha**, K. Rajani kumari\*, U. Sreenivas presented a poster on A stability indicating validated UPLC method for the estimation of Mesalamine in tablets at CPS, IST, JNTUH.
10. **Dr.M.Ajitha**, B.Laxminarayana, T.Radhika\* presented a poster on Simultaneous determination of Free Ezetimibe, Conjugated Ezetimibe and Fenofibric Acid in human plasma by LC-MS/MS and its application to a human pharmacokinetic study at CPS, IST, JNTUH.
11. **Dr. M.Ajitha**, Goutami .P\* Presented a poster on Dried matrix/ Blood sampling in combination with LC-MS for quantitative analysis of small molecules- A review, at Geethanjali College of Pharmacy.
12. **Dr.M.Ajitha**, P. Goutami\* Presented oral and obtained 1<sup>st</sup> Prize on inductively coupled plasma mass spectrometer- an excellent detector for HPLC, at CPS, IST, JNTUH.
13. **Dr.M.Ajitha**, K. Bhavyasri\*, V. Murali Balaram presented a poster on Simultaneous estimation of Valsartan and Hydrochlorthiazide in human plasma by LC-MS/MS method at CPS, IST, JNTUH.
14. **Dr.M. Ajitha**, V. Muralidharan\*, M. Srinubabu presented a poster and obtained 1<sup>st</sup> Prize on Synthesis and anti microbial activity of new Isatin derivatives under solvent free conditions, at SSJ college of Pharmacy.

15. **Dr.M.Ajitha**, K. Bhavyasri\*, V. Murali balaram, R. Nageswarao presented poster on Separation of the two enantiomers of Gatifloxacin by SFC on amylase based stationary phase, at Geethanjali college of Pharmacy.
16. **Dr.M. Ajitha**, K. Rajani kumari, Y. Vineela\* presented poster on Simultaneous estimation of Levocetirizine HCl and Phenylephrine HCl in tablets by RP-HPLC method, at Geethanjali college of Pharmacy.
17. **Dr.M.Ajitha**, T.Radhika, K.Rajani\* presented a poster on Validated spectrophotometric method for the simultaneous determination of Levocetirizine HCl and Phenylephrine HCl in bulk and tablet dosage form at Mallareddy college of pharmacy
18. **Dr.M.Ajitha**, T.Radhika, K.Rajani kumara\* Presented a poster on Analytical method development and validation of Valsartan in bulk by RP-HPLC method, at Dravyka 2012, Geethanjali college of pharmacy.
19. P. Gouthami\*, **Dr.M.Ajitha** oral presentation on Impurity Profiling in Pharmaceuticals-Genotoxic impurities at Dravyka-2012 Geethanjali college of pharmacy.
20. **Dr.M.Ajitha**, Adi Srikanth, Akula Balakrishna Oral Presentation on Recent Advances in Chromatography Technique-UPLC at Dravyka-2012 Geethanjali college of pharmacy.
21. Gayatri .P\*, Venkatesham .A, Pavan Kumar .P' **Ajitha .M** and Madhusudan Rao .Y Development of Matrix Type Transdermal Therapeutic System of Rolaxifene HCl; Influence of Penetration Enhancers on *in vitro* Permeation across Rat Abdominal Skin Paper Presented in IPA-2012 at St.Peters Institute of Pharmaceutical Sciences. Warangal.A.P
22. Archana\*, **Ajitha.M** Method development and validation of Meloxicam by UV Spectroscopy Paper Presented in IPA-2012 at St.Peters Institute of Pharmaceutical Sciences. Warangal, A.P
23. **Dr. M. Ajitha**, T. Radhika\* presented poster on inductively coupled plasma-mass spectrometry and its dual role in Pharmaceutical Analysis-an over view, at Centre for Pharmaceutical Sciences, JNTU-H, A.P.

24. **Dr.M.Ajitha**, K.Rajani\* presented poster on Green and Sustainable Pharmacy in RIPE-2012, Centre for Pharmaceutical Sciences, JNTU-H, A.P.
25. **Dr. M.Ajitha**, D.Archana\*, P.Goutami, D.Samatha Reddy, T.Vani presented poster on Homology modeling in RIPE-2012, Centre for Pharmaceutical Sciences, JNTU-H, A.P.
26. **Dr.M.Ajitha**, P.Vivek\*, T.Vani presented poster on Dynamic Light Scattering in RIPE-2012, Centre for Pharmaceutical Sciences, JNTU-H, A.P.
27. **Dr.M.Ajitha**, P.Goutami\*, T.Pravallika, D.Archana, D.Samatha presented poster on Hyphenated analytical techniques for trace metal analysis in Pharmaceuticals RIPE-2012, Centre for Pharmaceutical Sciences, JNTU-H, A.P.
28. **Dr.M.Ajitha**, Ceema Mathew\*, P.R.Sathesh Babu presented poster and obtained 2<sup>nd</sup> Prize on A validated stability-indicating HPLC method for Balofloxacin RIPE-2012 , Centre for Pharmaceutical Sciences, JNTU-H, A.P.
29. **Dr.M.Ajitha**, Venkanna Bayya\*, Sreedhara Chaganty presented poster and obtained 1<sup>st</sup> Prize on Rapid and sensitive LC-MS/MS method for quantification of Atorvastatin and its metabolites, P-hydroxy Atorvastatin and O-hydroxy Atorvastatin in human plasma at Centre for Pharmaceutical Sciences, JNTU-H, A.P.
30. **Dr.M.Ajitha**, D.Samatha\*, S.Preethika, D.Archana, P. Goutami presented poster on Combinatorial Chemistry, at Centre for Pharmaceutical Sciences, JNTU-H, A.P.
31. M.Srinubabu\*,V.Muralidaran, **Dr.M.Ajitha** Presented a poster on “Synthesis and Biological Evaluation of Novel Quinoline Hydrazones” in DRAVYAKA-2013 at Geethanjali college. A.P
32. M.Srinubabu\*, **Dr.M.Ajitha** presented a poster on “Synthesis and Evaluation of New Isatin Quinoline Hydrazone Derivatives for Antioxidant Activity” in International Conference, DFID-2014 at NIPER Hyderabad.
33. M.Srinubabu\*, **Dr.M.Ajitha** presented a poster on “Synthesis of Novel Isatin-Pyrimidinone Derivatives as Antioxidant Agents” in National level symposium Sipra Innovative pharma research award SIPRA-2014 at Sipra Labs, Hyderabad.

34. R Kaur, **M. Ajitha** presented work on “In vitro evaluation of transdermal lovastatin loaded nanoemulsion gel for the treatment of osteoporosis” in 3<sup>rd</sup> International Conference on Nanoscience and Nanotechnology, Dec-2016 at Colombo, Sri Lanka.
35. Mohammed Azam, **M. Ajitha** presented a poster on “Extraction, isolation and characterization of phyllanthin from *Phyllanthus Nirurri*” in the two day International Conference on the use of National Medicines Policy and Biostatistics in Pharmaceutical Sciences held on 28<sup>th</sup> & 29<sup>th</sup> September 2016.
36. Mohammed Azam, **M. Ajitha** presented a poster on “Microwave Assisted Removal of Chlorophyll from the Methanolic Extract of *Phyllanthus niruri*” in two day “Recent advances in Pharmaceutical Industry and Drug Development” held on 21st -22nd July, 2017 organized by CPS, IST, JNTUH.

**Area of Specialization:**

- Synthesis of organic compounds
- Synthesis of Lead molecules and Pharmaceuticals
- Characterization of Lead and Drug molecules
- Green chemistry
- Retro synthesis
- Analytical Chemistry
- Pharmaceutical Analysis
- Chromatography
- Structural Elucidation
- Natural Product Chemistry
- Isolation and Screening of Natural Products

**Hands on Experience:**

- X-Ray Diffractometer (XRD)
- UV- Visible spectrometer (UV)
- Fourier-transform infrared spectroscopy (FTIR)
- High Performance Liquid Chromatography (HPLC)

- Mass Spectrometry
- Gas Chromatography
- High Performance Thin layer Chromatography (HPTLC)
- Laminar Airflow
- CO<sub>2</sub> Incubator
- Spectrofluorometer
- Column chromatography
- Sample Cleanup

### **Research Openings under Dr. M. Ajitha**

#### 1. Post-doctoral Positions

Postdoc candidates (having fellowship from CSIR, DST, DBT etc.) or wish to apply may contact me by sending detailed CV with research interests.

#### 2. Ph.D. Positions

Ph.D. positions are available in my lab for students who have qualified CSIR/UGC/DBT JRF/ DST inspire fellowship. Interested candidate have to follow guidelines of JNTU Ph.D admission.

### **Gist of Contributions**

- Working as a Professor and Officer Incharge for Examination at IST, JNTUH
- Worked as the Head of the department for Pharmacy in 2012-2014
- Headed the position of principal in 2009-2010
- Introduced a new course Pharmaceutical Chemistry in the center in 2014
- Introduced PG Diploma course at SCDE in 2013 “PG Diploma in Pharmaceutical
- Regulatory affairs & QA
- Conducted many awareness programs to the society on the Pharmacist day Sep 25 such as Blood Grouping, Disease check, Banned Drugs etc
- Pollution control board member
- Involved in Anti Ragging committee and NSS committee
- Worked in affiliation process of JNTUH

- Member for Board of Studies for various universities such as Palur University, Kakatiya University, JNTUH University as well as affiliated colleges of JNTUH which are autonomous such as BVRIT, ANURAG and Gurunanak Institute of Pharmacy in revision of syllabus
- Member for purchases committee meetings in JNTUH. Co-coordinator for Academic and Audit Cell( Involved in affiliation Process)
- Governing body member for various affiliated colleges under JNTUH for every one year and suggesting them for up gradation