

# RESUME

1. Name and full correspondence address

a. Name : Dr. P. Uma Devi

c. Department address: Department of Organic Chemistry, Gayatri Vidya  
Parishad College for Degree & P.G. Courses (A)  
Rushikonda, Visakhapatnam, Andhra Pradesh 530045

2. Email and contact number(s) : umadevichemistry@gmail.com

3. Gender (M/F/T) : F

4. Category Gen/SC/ST/OBC : Gen

5. Whether differently able (Yes/No): No

6. **Ph.D. thesis:**

Title : Visible spectroscopy as a tool for the analysis of  
some drugs

Guide's Name : Prof C.S.P. Sastry

University : Andhra University

Year of Award : 2000

7. **Work experience (in chronological order):**

Teaching and : 40 years

Research : including three years abroad research  
experience at the Weizmann

S.No	Position and Organization	Nature of job	Period	Pay scale
1.	Professor GVP College for Degree and PG Courses(A)	Teaching (M.Sc.-Organic Chemistry) and Research	June 2018 - Till date	UGC Scale
2.	Professor GITAM University	Teaching (M.Sc.-Organic Chemistry) and Research	July 2016 - September 2017 (Superannuation)	UGC Scale
3.	Associate Professor GITAM University	Teaching (M.Sc.-Organic Chemistry) and Research	December 2008- July 2016	UGC Scale
4.	Assistant Professor GITAM University	Teaching (M.Sc.-Organic Chemistry) and Research	July 2004- December, 2008	UGC Scale
5.	Teaching Associate Andhra University	Teaching (M.Sc.-Organic Chemistry) and Research	2002-July, 2004	consolidat ed
6.	Research Fellow Andhra University	Research	1995-2000	

7.	Research Fellow Andhra University	Research	1993-1994	
8.	CSIR-SRF Andhra University	Research	1989-1992	
9.	The Weizmann Institute of Science, Rehovot, Israel	Research	1980-1983	
10.	CSIR-JRF RRLABS Hyderabad(IICT)	Research	1979-1980	

8. Number of research students:

Ph.D.s Awarded

S.No	Name of the Candidate	Title of the Thesis
1.	K.V.V.V.Satyanarayana	Synthesis and antimicrobial studies of new pyrazoles and isoxazoles combined with 10-methyl-n-(4-(3-arylacryloyl) phenyl)-10, 11-dihydro - 5h-dibenzo [b, f]azepine-5-carboxamide
2.	K.Muralikrishna	New visible spectrophotometric methods for the assay of some drugs
3.	K.Deepthi	Chemical Examination and Bioactive Evaluation of <i>Morinda tinctoria</i> Roxb, <i>Michelia champaca</i> Linn and <i>Desmodium gangeticum</i> DC
4	D.V.R Venugopal	Synthesis, <i>in silico</i> and <i>in vitro</i> studies of Peptidyl boronic acids and piperine Analogues, novel synthesis of Dibenzothiazepine & enzymatic resolution of $\gamma$ -cyanoester
5	Karteek Rao Amperayani	Synthesis And Biological Activity Of Novel Piperine Analogs, Nano $\Gamma$ -Fe <sub>2</sub> o <sub>3</sub> Catalyzed Synthesis Of 1, 3, 4 Oxa And Thiadiazoles And Their Effect On Growth Parameters Of <i>Bombyx mori</i>
6	Jyothi Uppalapati	Development and validation of analytical method for simultaneous determination of some active pharmaceutical ingredients in combined dosage forms by RP-HPLC technique.
7	M.Venkataramana	Novel synthesis of Benzimidazoles, Benzoxazoles; N-tert- Butoxycarbonylation of amines; A Facile synthesis and biological activity of 6-(1,3,4-Oxadiazol-2-yl)-N-arylylpyridine-3-amines and Highly efficient synthesis of DNA-binding polyamides by Solid and solution phase approach

8	V. Chandrasekhar	Novel Heterocyclic synthesis, characterization of Thiadiazoles, Thiadiazines, Thiazolidines and their derivatives and evaluation as antibacterial agents
9	Bala Krishna Chinnu	Synthetic approaches to novel pyrone scaffold derivatives: chromones, 3-sulfenylated chromones, pyranothiazoles and kojic acid-unnatural amino acid hybrid molecules
10	Devendar Rao Sureddi	Synthetic Studies and Phytochemical Investigation of Biological Active Molecules from Walsura Trifoliata
11	Sateesh Kumar Pinninti	Synthesis and biological activity of novel amide derivatives of thiazole, 1, 2,4-oxadiazole fused benzo thiozoles and difluoro benzodioxole derivative
12	Kottaki naveen	Synthesis and antimicrobial activity of novel piperine-triazole, piperine-piperazine, piperazine-thiadiazole and piperazine-oxadiazole analogues
13	Venugopalrao Vikram	Synthesis and biological activity of novel 2-amino-thiophene derivatives

**M.Phil. Awarded (One):**

S.No.	Name of the Candidate	Title of the Dissertation
1.	K.Manmadha Rao	visible spectrophotometric determination of moxi-floxacin and clopidogrel in pure and pharmaceutical formulations

9. **Professional Recognition/Award/Prize/Certificate, Fellowship received by the applicant.**

S.No	Name of Award	Awarding Agency	Year
1	State merit scholarship	Andhra Pradesh government	1974
2	JRF	CSIR	1980
3	SRF	CSIR	1989

10. **Details of research projects:**

S.No.	Title	Year	Amount in Lakhs	Funding Agency
1	Synthesis and evaluation of amino substituted oxa and thiadiazoles as possible <i>Bombyx mori</i> growth enhancers	2013-16	10.50	UGC Major research project
2	Development of piperine conjugates to increase the bioavailability of iron.	2012-14	30.0	DST

11. **List of Publications: 57 (35 National + 22 International)**

**Journal Publications:**

1. Karteek Rao Amperayani\*, Govanda Varidhi, Baswanth Oruganti, Uma Devi Parimi. Molecular dynamics and absolute binding free energy studies of piperine derivatives as potential inhibitors of SARS-

CoV-2 main protease. Journal of Biomolecular Structure and Dynamics. DOI:10.1080/07391102.2023.2193987. IF. 5.25

2. Pradeep Kumar Jami, Sreenivasa Rao Battula, Jonnala Sandhya, Uma Devi Parimi. Design, synthesis and biological evaluation of amide derivatives of isoxazole-imidazo[1,2-a]pyridine as anticancer agents Chemical Data Collections 2023, 44, 101001. Scopus indexed. IF-3.1
3. Karteek Rao Amperayani, Sateesh Pinneti, Uma Devi Parimi, Identification, Synthesis, and Characterization of Potential Dichloro Impurity: N, N-Dimethyl-3-Phenyl-2, 3-Dichloropropylamine in the Synthesis of Atomoxetine, Pharm. Chem. Journal., (accepted)
4. Karteek Rao Amperayani, Deepthi Kolli, Uma Devi Parimi, Phytochemical Analysis And In Vitro Genotoxicity, Cytotoxicity, Antioxidant, Antimicrobial, Antiobesity Activity Of Morinda Tinctoria Roxb., Indian Drugs. 2022, 59, 03, 31-40. <https://doi.org/10.53879/id.59.03.12238>
5. Venugopalarao Vikram, Karteek rao Amperayani, Venkaka Ravi Sankar Ummidi, Umadevi Parimi, Synthesis, anti-microbial activity and docking studies of novel N-pyridine substituted 2- chloro thieno [2,3, d]pyrimidine derivatives. Russian journal of General Chemistry. 2021, 91(12), pp. 2483–2488. <https://doi.org/10.1134/S1070363221120185>
6. Venugopalarao. Vikram, K. R. Amperayani, and P. Umadevi, 3-(Methoxycarbonyl) thiophene Thiourea Derivatives as Potential Potent Bacterial Acetyl-CoA Carboxylase Inhibitors, *Russian Journal of Organic Chemistry*, 2021, 57, (8), 1–11
7. Kottakki Naveen Kumar, Karteek Rao Amperayani, Uma Devi Parimi, 'Synthesis of piperine piperazine analogues and their antibacterial activity" *Indian Drugs*, 2021, 58, 6, 30-35. <https://doi.org/10.53879/id.58.06.12311>
8. Kottakki Naveen Kumar, Karteek Rao Amperayani, Uma Devi Parimi, 'Synthesis and antimicrobial activity of piperazine analogues containing [1, 3, 4] Thiadiazole ring. *Research Journal of Pharmacy and Technology*, 2021, 14(9), 4710-4714. DOI: 10.52711/0974-360X.2021.00819
9. V. Vikram, S. R. Penumutchu, R. Vankayala, S. Thangudu, K. R. Amperayani, and U. Parimi, "Design, synthesis, molecular docking and cytotoxic activity of novel urea derivatives of 2-amino-3-carbomethoxythiophene," *J. Chem. Sci.*, vol. 132, no. 1, p. 126, Dec. 2020, doi: 10.1007/s12039-020-01834-w.
10. P. Kumar, K.N., Kumari, P.S., Gopi, G., Rao, A.K., Devi, "Synthesis and antibacterial activity of piperazine analogues containing [1, 3, 4]-oxadiazole ring," *Indian Drugs*, vol. 57, pp. 19–26, 2020.
11. K. R. Amperayani and U. D. Parimi, "Synthesis, in vitro and in silico Anti-Proliferative Studies of Novel Piperine-Oxadiazole and Thiadiazole Analogs," *Russ. J. Gen. Chem.*, vol. 89, no. 11, pp. 2301–2307, Nov. 2019, doi: 10.1134/S1070363219110227.
12. Umadevi Parimi, Venugopalarao Vikram , Karteek Rao Amperayani, One-pot synthesis of n-benzyl substituted 2-aminothiophene-3-carboxylic acid scaffold and their antibacterial activity *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, 2019, 8, 11.
13. Uma Devi Parimi Ramesh P., Sai Kumar B., Tabu K., Naga Divya Sree M., Irfan Hyder Anti helminthic Activity of *Alternanthera pungens* Krunth. *International Journal of ChemTech Research*. Feb-2019, 12(4): 214-218. DOI-<http://dx.doi.org/10.20902/IJCTR.2019.120426>
14. Uma Devi Parimi, Kottakki Naveen Kumar, Karteek Rao Amperayani, V. Ravi Sankar Ummidi, Synthesis and Antimicrobial Activity of Piperine Analogues Containing 1,2,4-Triazole Ring. *Asian Journal of Chemistry*. March-2019, 31, 5, 1077-1080
15. P. Uma Devi, C. Balakrishna, Manoranjan Beher, T3Ps mediated domino C (sp<sup>2</sup>)-H sulfenylation/annulation of enamines and methylsulfinyls for the synthesis of chromone thioether derivatives. *New Journal of Chemistry*. Dec-2018, 43, 2458-2463. DOI: 10.1039/C8NJ05554H

16. Umadevi Parimi, Kumar Pinninti, Novel Bis (1,2,4-Oxadiazolyl) fused thiazole Derivatives: Synthesis and Anticancer activity. Russian journal of General Chemistry. Dec-2018, 88, 12. 2611-2615.
17. Umadevi Parimi, Devendra Rao S, Nageswara Rao B, karteek Rao Amperayani. Synthesis and biological screening of Lupeol-benzylidene derivative. The Natural Products Journal. Oct-2018, 8(3), Doi 10.2174/2210315508666180117154929. Emerging Sources Citation Index
18. Uma Devi Parimi, Karteek Rao Amperayani, Kottaki Naveen kumar, Synthesis, invitro and insilco anti-microbial studies of novel piperiene-pyridine analogs. Research on chemical intermediates. May-2018, 44 (5), 3549-3564,
19. P. Uma Devi. Balakrishna Manoranjan Behera. An Efficient Microwave-Assisted Propylphosphonic Anhydride (T3P<sup>®</sup>)-Mediated One-Pot Chromone Synthesis via Enaminones. Synlett. Jan-2018, 29(8) 1087-1091. DOI: 10.1055/s-0036-1591898
20. Karteek Rao Amperayani, Uma Devi Parimi. Effect of Silk Strength by Dietary Supplementation of Silk-Worm with 1,3,4-Thiadiazoles, In Silico and In Vitro Bombyx mori DNA Binding Studies. Der Pharma Chemica, 2018, 10(2): 90-104 SCOPUS Index
21. Uppalapati.Jyothi, Dr.Parimi.Umadevi. Stability Indicating RP-HPLC Method for the Simultaneous Estimation of Sacubitril and Valsartan in Drug Product. J. Pharm. Sci. & Res. Vol. 10(9), 2018, 2201-2204
22. Karteek Rao Amperayani, YVS Sai Krishna, R. Ravichandra Babu and Uma Devi Parimi. Recyclable Nano-Fe<sub>2</sub>O<sub>3</sub> as an Efficient Catalyst for One Pot Synthesis of Substituted Oxadiazoles under Microwave Condition. Current Microwave Chemistry, 4, 2017, 1-9. Emerging Sources Citation Index DOI: 10.2174/2213335604666171109143640
23. Uma devi Parimi, Deepti kolli, Nagendra sastry yerla, Karteek rao Amperayani “In vitro Cytotoxic and Genotoxic Evaluation of Morinda tinctoria Roxb. Leaf Extracts. Pharmaceutical Chemistry Journal, 51,(4). July-2017 I.F – 0.5, SCI indexed
24. Dr.Parimi.Umadevi, Uppalapati. Jyothi, analytical method development and validation for the simultaneous estimation of sofosbuvir and velpatasvir drug product by rp-hplc method. Indo American Journal of Pharmaceutical Research, July-2017, 7, 08. 401-409
25. Karteek Rao Amperayani, Venugopal D.V.R, Uma Devi. Parimi, Y. Nagendra Sastry, K. Aruna Lakshmi, M.Tarak Ramji, Yallappa Shiralgi Design, Synthesis and Characterization of Peptidyl boronate Analogues as Effective Antimicrobial Agents. Research on chemical intermediates. 43, 10, May-2017, 5755-5778. (doi:10.1007/s11164-017-2961-0) 1.8 IF, SCI Indexed
26. Uma Devi Parimi, Chandra Sekhara Reddi Maddireddia, Srinivasa reddy bhimi reddy, Novel pyrimidine associated thiazolidines: Design, synthesis, characterization and Evaluation as antimicrobial agents. Asian journal of chemistry. May-2017, 29,(9),1972-1976.
27. Uma Devi Parimi Chandra Sekhara Reddi Maddireddia 1,3,4-oxadiazole associated 1,3,4-thiadiazoles: synthesis, characterization and evaluation as antibacterial agents. European Journal of Biomedical and Pharmaceutical sciences, May-2017, 4,(05), 257-262
28. ParimiUmaDevi, S Devendra rao, B. Nageswara rao, A Karteek Rao Isolation of Lupeol, Design and Synthesis of Lupeol Derivatives and their Biological Activity. Oriental Journal Of Chemistry. Jan-2017, 33, 173- 180
29. Uma Devi Parimi, Murali Krishna Kannajosyula and Karteek Rao Amperayani “New visible spectrophometric methods for the assay of cintapride” Indian Journal of Chemical Technology. Sep-2016, 23, 425-432 I.F 0.5 SCI Indexed
30. Uma Devi Parimi, Chandra Sekhara Reddi Maddireddia, Srinivasa reddy bhimi reddy, satyanarayana reddy mandapati, pyrazine associated novel 1,2,4 triazolo thiadiazines: synthesis, characterization and as antimicrobial agents. Asian journal of chemistry. June-2016, 28, (11), 2453-2456.

31. Uma Devi Parimi Karteek Rao Amperayani, Anita Mamillapalli, Evaluation of growth and economic parameters of *Bombyx mori* by substituted 1,3,4 –Oxadiazoles. *International Journal of ChemTech Research*. April-2016 9,03, 332-341.
32. Parimi Uma Devi, Karri Manmadha Rao, Karteek Rao Amperayani, Kolli Deepti, Determination of clopidogrel by visible spectrophotometry in pure form and pharmaceutical formulations *Journal of Indian chemical society*. Feb-2016, 93(2):1-8
33. Uma Devi P, Balakrishna C, Payili N, Yennam S, Behera M. Synthesis of new kojic acid based unnatural  $\alpha$ -amino acid derivatives. *Bioorg Med Chem Lett*. Nov-2015 (25) 4735-4756. IF – 2.8 SCI indexed (This article is published in Atlas of Science)
34. Umadevi Parimi, Deepti Kolli and K. R. Amperayani. Chemical constituents, total phenolic content and antioxidant activity of morinda tinctoria leaves. *Indian Journal of Pharmaceutical Sciences*. April-2015, 77(2):226-230 IF-0.3 SCI indexed
35. P. Umadevi, Y. Nagendra Sastry, Anupam Bishayee, D.S.V.G.K. Kaladhar, A. Bharat Kumar, P. Swathi, P.D. Chandrasai and D. Govinda Rao. PP31 Dammarane triterpenoid 1 induces apoptosis in human prostate carcinoma DU145 cells via intrinsic pathway. *Anti-Cancer Drugs* 2015, 26:e1–e39 (conference proceedings ISSN: 095924973) I.F – 1.8
36. Umadevi Parimi, NS Yarla, A Rajaram, M Basha, A Rajack, DS Kaladhar, BK Allam, R Rao, KN Singh, Kumari K Sunanda, P Reddanna, A Bishayee, Rao D Govinda Rao. 5-Lipoxygenase and Cyclooxygenase inhibitory Dammarane triterpenoid 1 from *Borassus flabellifer* seed coat, inhibits Tumor Necrosis Factor- $\alpha$  secretion in LPS induced THP-1 human monocytes and induces apoptosis in MIA PaCa-2. Pancreatic cancer cells. *Anti-cancer agents in medicinal chemistry*. 2015, 15(8): 1066-77. 10, I.F - 2.939
37. Parimi Umadevi, Durvasula V.R. Venugopal and Nagendra Sastry Yarla Synthesis, of Novel Piperine Analogs of Dipeptidyl Boronic Acid as Antimicrobial and Anticancer Agents *Med chem*. Aug-2014 4(9): 606-610. DOI: 10.4172/2161-0444.1000201
38. Umadevi Parimi, Venkataramana Mediseti, Ramesh Babu Anagani, K. V. V. V. Satyanarayana. Nano- $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>: Efficient, Reusable and Green Catalyst for *N-tert*-Butoxycarbonylation of Amines in Water; *Green and Sustainable Chemistry*, 2014, 4, 95-101. May-2014 in *SciRes*. DOI: 10.4236/gsc.2014.42014
39. Umadevi Parimi, Karteek Rao Amperayani. Green Synthesis of Plant Mediated Silver Nano Particles and Evaluation of their Antimicrobial Activities. *Am. J. PharmTech Res*. 2014 4(3) ISSN: 2249-3387.
40. Umadevi Parimi and Venkataramana Mediseti. A facile synthesis of 6-(1,3,4-oxadiazol-2-yl)-N-arylylpyridin-3-amines; *Der Pharma Chemica*, 2013, 5(6):101-105. Scopus
41. Uma Devi Parimi et. al. Docking studies of piperine - iron conjugate with human CYP450 3A4 *Bioinformation*. Apr-20139(7): 334-338 I.F -0.9. PubMed
42. Parimi Umadevi, Kolli Deepti, Durvasula R.V. Venugopal. Synthesis, anticancer and antibacterial activities of piperine analogs. *Med Chem Res* (2013) 22:5466-5471. I.F- 1.5, SCI Indexed
43. Parimi Uma Devi, Kannajosyula Murali Krishna. Visible Spectrophotometric Determination of Lansoprazole in Pure and Pharmaceutical Formulations *Am. J. PharmTech Res*. 2013; 3(2)290-30.
44. P.Umadevi K. Deepti, Antimicrobial Activity and Phytochemical Analysis of *Morinda tinctoria* Roxb. Leaf Extracts. *Asian Pacific Journal of Tropical Biomedicine*. 2012, S1440-S1442. Elsevier
45. Umadevi parimi, lalitha pappu. Synthesis and antimicrobial evaluation of imino substituted 1, 3, 4 oxa and thiadiazoles. *International Journal of Pharmacy and Pharmaceutical Sciences*. 2012, 4, 5, I.F – 0.5.

46. P.UmaDevi, Venugopalareddy, Anitha Mamillapalli Synthesis and evaluation of diamino substituted 1,3,4thiadiazoles as possible Bombix Mori growth enhancers International journal of Pharma and Biosciences Oct 2012 3(4):(P) 604-611. Scopus P.
47. P.Umadevi, K.Deepthi Synthesis and *In-vitro* Antibacterial activity of some new urea, thiourea and thiosemicarbazide derivatives. International Journal of Pharmacy and Pharmaceutical Sciences, 2012, 4, 3,. I.F 0.6 Scopus
48. P.Umadevi, K.Deepthi . Antibacterial and free radical scavenging activity of *Michelia champaca* Linn. Flower extracts. Free Radicals and Antioxidants. Apr-2012, 2, 2, 58-61. Elsevier
49. P.Uma Devi. Determination of Azithromycin by extractive spectrophotometry. Asian Journal of Chemistry. 2011. (IF- 0.2) Scopus
50. P.Umadevi, K.Deepthi Evaluation of *In Vitro* Free Radical Scavenging Efficacy of Aerial Parts of Medicinally Important *Morinda pubescens* J.E. Smith (*Morinda tinctoria*Roxb.) Drug Invention Today 2011, 3(6), 72- 74
51. P.Uma Devi, K.Aruna Lakshmi, Veera Brahmam. Evaluation of the efficacy of Piperine- an alkaloid from *Piper nigrum* (Black Pepper) as an anticancerous compound on Human cancer cell line Thip-1. International journal of biological sciences and Engineering. March 2011, 2, 1:45-49.
52. Uma Devi, K. Aruna Lakshmi, M. Taraka Ramji, P.Akbar Ali Khan. In Vitro and Insilco Evaluation Of Metal Complexes Of Quinazolinones Incorporated With Amino Acids As Potential Antimicrobial Agents. Journal of Pharmacy Research 2010, 3(11), 2765-2768.
53. P.Uma Devi, C.S.P.Sastry, K.V.V.Satyanarayana. Determination of Diosmin by Visible Spectrophotometry Asian Journal of Chemistry. 2010, 22, 3 (IF- 0.2)Scopus
54. P.Uma Devi and C.S.P.Sastry, Determination of Azithromycin by visible Spectrophotometry, Proc. of AP Akademi of Sciences, 2004, 8, 1, 89-94.
55. P.Uma devi, K. Rambabu, M. Nageswara Rao, K.S. Rao and C. Rambabu. Densities, adiabatic compressibilities free length, viscosities and excess volumes of p-cresol (1) +dimethyl sulfoxide (2) + dimethyl formamide (2) and 1, 4-dioxane at 303.15-318, 15K Physics and chemistry of Liquids, 1995, 30, 29-46 I.F -0.7 SCI Indexed
56. P.Uma Devi, P. Atchuta Ramaiah, F.Frolow and D. Lavie, 3-Oxo-friedelan-20 -oic acid from *Gymnosporia emarginata* Phytochemistry, 1984, 23, 2251. I.F-2.5 SCI Indexed
57. P.Uma Devi, M. Sheves V.Rosenbach and M. Ottolenghi, Photochemical studies of Artificial Bacteriorhodopsins., Photochemistry and Photobiology, 1983, 38, 197. I.F 2.66 SCI Indexed

#### 14. Conference Presentations: 25 (International 11 & National 104

- 1) **Uma Devi Parimi** M.Hemalatha, H.Kundana Pani, B.Yindu Sai, P.V.Naga Lakshmi, L. Sujatha, Parimi Synthesis and Biological Activity of Copper and Iron metal complexes of substituted Phenyl-1,3,4-oxadiazole-2-amine Azo resorcinol / 2-naphthol derivatives Two Day National Seminar On Chemical Speciation In Biology And Marine Environment (Csbme-2019)
- 2) **Uma Devi Parimi** Karteek Rao Amperayani, kottakki Naveen Kumar. National conference on piperine analogues containing [1,2,4] triazole ring as antimicrobial agents. Organic molecules as synthons & reagents for innovations, IIT Roorkee, FEB 2019,
- 3) **Uma Devi Parimi** Karteek Rao Amperayani, M. Umamaheswar Rao. Effect of Silk Strength by Dietary Supplementation of Silk Worm *Bombyx mori* with 1,3,4-Thiadiazoles, In Silico and In Vitro DNA Binding Studies National conference on 'Future India: Science and technology special symposium on contributions of life sciences and biodiversity for human welfare' Oct 2018, GVP College For Degree And Pg Courses, Rushikonda, Visakhapatnam.

- 4) **Uma Devi Parimi** Karteek Rao Amperayani, himagirish, Recyclable nano-Fe<sub>3</sub>O<sub>4</sub> particles as an efficient and green catalyst for the synthesis of substituted thiadiazoles with high yields International conference on recent advances in chemistry and chemical engineering JNTU Hyderabad. July11-12, 2016.
- 5) **Uma Devi Parimi** Karteek Rao Amperayani, YVS Sai Krishna, R.Ravichandra Babu, Recyclable nano-Fe<sub>2</sub>O<sub>3</sub> particles as an efficient and green catalyst for the synthesis of substituted Oxadiazoles with high yields International conference on nanoscience, nanotechnology and advanced materials. GITAM University, Visakhapatnam, Dec 14<sup>th</sup> to 17<sup>th</sup>, 2015.
- 6) **Umadevi Parimi et.al** screening of selected ethnomedical plants for phospholipase A2 inhibitory activity: Isolation and identification of piperine from seeds of piper nigrum as PLA2 inhibitors. IRSMAT, March 29-30, 2015 Bilaspur University, Chhattisgarh.
- 7) **Umadevi parimi et. al.** 5 Lipoxygenase and phospholipase A2 Inhibitory Piperine as anticancer agent. Two day seminar on the role of natural product chemistry in drug discovery sep-11-12, 2014. Krishna University.
- 8) **Umadevi parimi et. al.** 5-Lipoxygenase and phospholipase A2 inhibitory piperine as anti-inflammatory and anticancer agent J Clin Cell Immunol 2014, 5:5 3rd International Conference and Exhibition on Clinical & Cellular Immunology September 29-October 01, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA
- 9) **Parimi Umadevi**, Durvasula V.R. Venugopal and A.Karteek Rao “Synthesis, antimicrobial and antitumor evaluation of novel piperine analogs of dipeptidyl boronic acid” International conference Drugs for the Future: Infectious Diseases-2014 27-28 March 2014 antimicrobial Drug Discovery: Challenges and Perspectives at NIPER Hyderabad.
- 10) **Uma Devi Parimi** Murali Krishna Kannajosyula, and Karteek Rao Amperayani “New visible spectrophometric methods for the assay of Spiramycine” 3<sup>rd</sup> International Conference and Exhibition on Biologics and Biosimilars, 26-28 October 2014 organised by Omics groups Hyderabad.
- 11) **Umadevi Parimi**, A. Karteek Rao, and Anitha Mamillapalli “Green Synthesis and Evaluation of Diamino Substituted 1,3,4 Thiadiazole as possible Bombyx Mori Growth Enhancer” International conference EEEE-2014 June 2014 Andhra University Visakhapatnam.
- 12) **P.Umadevi** K.Deepti, Kannajosyula. Muralikrishna, Anti cancer and antimicrobial properties of piperine and its analogues. 14<sup>th</sup> CRSI national symposium in chemistry (NSC-14 February 2-5 ,2012) Thiruvananthapuram
- 13) **P.Umadevi**, Vishnu V.V. Satyanarayana Kasapu and K.V.S. Satyanarayana, Synthesis and Antimicrobial Screening of 10-Methyl –N-(4-(3-Arylacrolyl)phenyl)-10,11-Dihydro-5H-Dibenzo (B,F) Azepine 5-Carboxamide Analogs 14<sup>th</sup> CRSI national symposium in chemistry (NSC-14 February 2-5 ,2012) Thiruvananthapuram.
- 14) **P.Umadevi** Drug discovery marine natural products perspective National Seminar On Recent Advances in Research on Marine Environment During 10-11 march 2012 at GVP, Visakhapatnam



- 15) **P.Umadevi** & K.Deepthi Leaf Extracts of *Morinda tinctoria* Roxb As Cytotoxic and Genotoxic Agents International conference on Human health and therapeutic challenges ICEHT 2012 during 20-22 December 2012, Sri Vnkateswara University, Tirupathi
- 16) **P.Umadevi** & K.Deepthi evaluation of antibacterial and antioxidant activity of *Michelia champaka* Linn. National conference on Chemistry for sustainable development, oct- 10-11, 2012, GITAM University, Visakhapatnam.
- 17) **P.Uma Devi** M.Taraka Ramji, J.Jaeson Babu, K.Deepthi, , K.Aruna Lakshmi. In Silico studies on the evaluation of Hydroxyl Chavicol as potential antimicrobials.2<sup>nd</sup> International conference on Bio-Informatics and Systems Biology. Annamalai University, Tamilnadu.(2011).
- 18) **P.Uma Devi**, K.Aruna Lakshmi, TarakaRamji. Anticancer activity of Indian Spice-Piperine and its amino acid analogues. World Congress on Biotechnology, Hyderabad. 21-23 March, 2011.
- 19) **P.Umadevi**, K.Deepthi M.Taraka Ramji K.Aruna Lakshmi. Invitro and Insilico evaluation of piperine analogues as anticancer and antimicrobial agents (Best paper\_award) National Conference on Natural product Research for Health and Bio-pharma Industry.Kumaraguru college of technology,Coimbatore. 25-26 March, 2011.
- 20) **P.Uma Devi**, K.Deepthi, G.Vijayalakshmi, Isolation of Caulerpin, Caulerpic Acid And Caulerpin Monomethyl Ester. Synthesis Of Analogues And Antimicrobial Studies Of The Marine Alga *Caulerpa Racemosa*. International symposium on genomic of crops, medicinal plants and microbes. May 29-31, 2011 University of Kerala, Kerala.
- 21) **P.Umadevi** & K.Deepthi, Evaluation of *In Vitro* Free Radical Scavenging Efficacy of *Morinda pubescens* J.E. Smith (*Morinda tinctoria* Roxb.), Andhrapradesh Science Congress-2011, GITAM University, Visakhapatnam, November 14-16, 2011.
- 22) **P. Umadevi**, Synthesis and *In Vitro* Antibacterial activity of Deepthi some new urea, thiourea and thiosemicarbazide derivatives. "frontier research areas in organic synthesis – fraos 2k11" to be held at the Department of Organic Chemistry, Andhra University, Visakhapatnam on 29th & 30th NOV-2011.
- 23) **P.Umadevi**, K. Deepthi Green synthesis of Plant mediated Silver Nano Particles And Evaluation Of Their Antimicrobial activity International seminar on effect of emission and eluents on environment December 18, 2011 Andhra university, Visakhapatnam
- 24) **P.Uma Devi**, K.Aruna Lakshmi, Veera Brahmam. Evaluation of the efficacy of Piperine-an alkaloid from *Piper nigrum* (Black Pepper) as an anticancerous compound on Human cancer cell line Thip-1. International Conference on “Biological sciences and Engineering”, St. Annie's college, Hyderabad- ICBE-2010, Nottingham Trent University (2010).
- 25) **P.Uma Devi**, K.Aruna Lakshmi, TarakaRamji. In SilicoStudies -A Potential Tool to Accelerate Discovery of New Drugs. International conference on Biotechnology, Kakatiya University, Warangal 2010 (**Best paper award**)

**13. Patent INDIA - 1 Patent Application No.: 201641003626**

1. Published Dated:January 2019 Title: “5-LIPOXYGENASE INHIBITORS” Our Ref.: P6811IN00
  2. Karteek Rao Amperayani, Sateesh Pinneti, Uma Devi Parimi Anticancer derivatives of amide difluoro benzodioxole and their preparation method thereof, Indian Patent. Appli. No: 202141010931
14. Material for M.Sc. Organic chemistry distance mode Andhra University

## Articles on Organic Chemistry for Encyclopedia of Chemistry

15. Any other Information (maximum 500 words)

Invited talk at Abroad

Gave a talk on Natural Products Analogs as Bioactive Molecules at the Department of Chemistry, University of Bristol, U.K. by the invitation of Prof. Varendra Aggarwal. FRS. Department of Chemistry, University of Bristol, U.K. on 22<sup>nd</sup> June 2017.

### 16. Reviewer for International journals

1. Natural products research (Taylor & Francis)
2. Letters in Drug design and discovery (Bentham science)
3. Pharmaceutical Biology (Taylor & Francis)
4. Journal of Medicinal plants research (academic journals)
5. Indian journal of pharmaceutical science (SCI Indexed)
6. British journal of applied science and technology (Science domain)

### Innovations/Contributions to Teaching

#### Books Written

1. Material for M.Sc. Organic chemistry distance mode Andhra University
2. Articles on Organic Chemistry for Encyclopedia of Chemistry

#### Design of Curriculum:

1. Senior Member of BOS in designing and updating the curriculum of M. Sc Organic chemistry
2. Played key role in framing the syllabus for newly introduced papers Bio-organic Chemistry, Assymmetric synthesis, Medicinal chemistry and pharmaceutical chemistry
3. Framed syllabus for M.Sc. Chemistry Integrated Laurus sponsored with industry collaboration.
4. Played active role in framing the syllabus based on choice based credit system.

### Research experience Abroad

Three years at the world-famous institute **The Weizmann Institute Of Science** Rehovot Israel with Prof Mordachai Sheves on the synthesis and photochemical studies of Vitamin A Analogs

#### . Subjects taught

1. Organic synthesis
2. Pericyclic reactions
3. Reaction mechanism
4. Chemistry of Natural products
5. Bio organic chemistry
6. Medicinal chemistry

#### Areas research

1. Synthetic organic chemistry
2. Natural products from plant sources