

CURRICULUM VITAE

A. KARTEEK RAO,

D.No-8-105/1,

SAI SOWDHA NAGAR-2,

GOLLAVILLIVANIPALEM,

SUJATHA NAGAR,

VISAKHAPATNAM. 530 051



Mobile: 9703469922

e-mail- a.karteek.akrao@gmail.com

Orchid id: <https://orcid.org/0000-0001-6928-3844>

CAREER OBJECTIVE:

I am very enthusiastic in teaching field for utilizing my skills; enhance my knowledge with different modes of skills. I can dynamically work for the success of my firm with my inter-personal and technical skills to the fullest. Moreover, I am flexible and efficient which make me suitable for learning the changing technologies faster and give my best.

EDUCATION QUALIFICATION:

COURSES	UNIVERSITY	INSTITUTION	YEAR OF PASSING	%
Ph.D. (Organic Chemistry)	GITAM (Deemed to be University)	GITAM institute of science	2019	
CSIR-UGC-NET (LECTURESHIP)	CSIR-UGC	UGC	2011 December	Qualified with 32 nd rank
M.Sc.	GITAM (Deemed to be University)	GITAM institute of science	2011	7.69 (CGPA)
B.Sc.	Andhra university	GVP Degree and PG College, Visakhapatnam	2009	76%
Intermediate	Board of Intermediate Education, A.P.	Sri Sai Co-operative junior college, Vijayawada.	2003	77.6%
S.S.C	Board of Secondary Education, A.P.	Nagarjuna High School, Cuddapah.	2001	75.79%

Ph.D. thesis:

Title : Synthesis and Biological Activity of Novel Piperine Analogs, Nano γ -
 Fe_2O_3 Catalyzed Synthesis of 1, 3, 4 Oxa and Thiadiazoles and their Effect on
Growth Parameters of Bombyx Mori

Guide's Name : Prof Parimi Uma Devi

University : GITAM (Deemed to be University)

Year of Award : 2019

COMPUTER PROFICIENCY:

- Diploma in Computer Hardware and Maintenance and Computer Awareness Program
- AUTODOCK VINA docking program
- Molecular Dynamics using Gromacs software

TEACHING EXPERIENCE: 6 years

- Working as Assistant professor in GVP Collage for degree and PG courses (A) 2019- Till date.
- Worked as Assistant professor in GITAM (deemed to be university) 2017-2019
- Worked as Teaching assistant in GITAM (deemed to be university) 2014-2017
- Junior lecturer in APSWR School/College for one year 2012-2013

RESEARCH EXPERIENCE: 5 YEARS

- Research experience as Project fellow in UGC-MRP project GITAM University (2013-2017)

RESEARCH INTEREST

- Organic Synthesis
- Medicinal Chemistry
- Drug Discovery using Computational Chemistry
- Natural Products
- Catalytic Chemistry

PATENTS:

- Karteek Rao Amperayani, Sateesh Pinneti, Uma Devi Parimi Anticancer derivatives of amide difluoro benzodioxole and their preparation method thereof, Indian Patent. Appli. No: 202141010931

RESEARCH PAPERS- 22: NATIONAL- 14, INTERNATIONAL-8

1. Venugopalarao Vikram, Karteek rao Amperayani, Venkaka Ravi Sankar Ummidi, Umadevi Parimi, Synthesis, characterization, anti-microbial activity and docking studies of novel N-pyridine substituted 2-chloro thieno [2,3, d]pyrimidine derivatives. Russian journal of General Chemistry (Accepted)

2. 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* (Accepted)
3. 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), 1336–1345 <https://doi.org/10.1134/S1070428021080145>
4. 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>
5. 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
6. 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.
7. 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.
8. K. R. Amperayani and U. D. Parimi, "Synthesis, in vitro and in silico Anti-Proliferative Studies of Novel Piperiene-Oxadiazole and Thiadiazole Analogs," *Russ. J. Gen. Chem.*, vol. 89, no. 11, pp. 2301–2307, Nov. 2019, doi: 10.1134/S1070363219110227.
9. V. Vikram, K. Rao Amperayani, and U. Parimi, "One-pot synthesis of n-benzyl substituted 2-aminothiophene-3-carboxylic acid scaffold and their antibacterial activity," *Int. J. Innov. Technol. Explor. Eng.*, vol. 8, no. 12, pp. 2546–2549, 2019, doi: 10.35940/ijitee.K1567.1081219.
10. K. N. Kumar, K. R. Amperayani, V. R. S. Ummidi, And U. D. Parimi, "Synthesis and Antimicrobial Activity of Piperine Analogues Containing 1,2,4-Triazole Ring," vol. 31, no. 5, pp. 1077–1080, 2019. <https://doi.org/10.14233/ajchem.2019.21876>
11. K. R. Amperayani, K. N. Kumar, and U. D. Parimi, "Synthesis and in vitro and in silico antimicrobial studies of novel piperine–pyridine analogs," *Res. Chem. Intermed.*, vol. 44, no. 5, 3549–3564 2018, doi: 10.1007/s11164-018-3324-1.
12. A.K. Rao and U. Devi, "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 Chem.*, vol. 10, no. 2, pp. 87–101, 2018.
13. D. S. Rao, U. D. Parimi, N. B. Rao, and K. A. Rao, “Synthesis and Biological Screening of Lupeol-benzylidene Derivatives,” *Nat. Prod. J.*, vol. 8, no. 3, pp. 196–200, 2018, doi: 10.2174/2210315508666180117154929.
14. K. R. Amperayani, Y. S. Krishna, R. R. Babu, and U. D. Parimi, “Recyclable Nano-Fe₂O₃ as an Efficient Catalyst for One Pot Synthesis of Substituted Oxadiazoles Under Microwave Condition,” *Curr. Microw. Chem.*, vol. 5, no. 1, pp. 73–81, Apr. 2018, doi: 10.2174/2213335604666171109143640.
15. K. Deepti, K. R. Amperayani, N. S. Yarla, and U. D. Parimi, “In vitro Cytotoxic and Genotoxic Evaluation of Morinda tinctoria Roxb. Leaf Extracts,” *Pharm. Chem. J.*, vol. 51, no. 4, pp. 295–300, Jul. 2017, doi: 10.1007/s11094-017-1602-7.
16. D. V. R. Venugopal K. R. Amperayani, and U. D. Parimi., “Design, synthesis and characterization of peptidyl boronate analogues as effective antimicrobial agents,” *Res. Chem. Intermed.*, vol. 43, no. 10, pp. 5755–5778, Oct. 2017, doi: 10.1007/s11164-017-2961-0.
17. S. D. Rao, B. N. Rao, P. U. Devi, and A. K. Rao, “Isolation of lupeol, design and synthesis of lupeol derivatives and their biological activity,” *Orient. J. Chem.*, vol. 33, no. 1, 2017, doi: 10.13005/ojc/330119.
18. K. R. Amperayani, A. Mamillapalli, and U. D. Parimi, “Evaluation of growth and economic parameters of Bombyx mori by substituted 1, 3, 4-oxadiazoles,” *Int. J. ChemTech Res.*, vol. 9, no. 3, 2016.
19. M. K. Kannajosyula, K. R. Amperayani, and U. D. Parimi, “New visible spectrophometric methods for the assay of cintapride,” *Indian J. Chem. Technol.*, vol. 23, no. 5, 2016.
20. K. M. Rao, K. R. Amperayani, K. Deepti, and P. U. Devi, “Determination of clopidogrel by visible spectrophotometry in pure form and pharmaceutical formulations,” *J. Indian Chem. Soc.*, vol. 93, no. 2, 2016.
21. D. Kolli, K. R. Amperayani, and U. Parimi, “Total phenolic content and antioxidant activity of morinda tinctoria leaves,” *Indian J. Pharm. Sci.*, vol. 77, no. 2, 2015.
22. U. Parimi and K. R. Amperayani, “Green Synthesis of Plant Mediated Silver Nano Particles and Evaluation of their Antimicrobial Activities,” vol. 4, 2014.

Conference proceedings

Amperayani, Karteek Rao and Parimi, Uma Devi, Molecular Docking and Synthesis of Novel Thiourea-Thiazole Derivatives as Anti-Proliferative Agents (February 4, 2020). Proceedings of International Conference on Drug Discovery (ICDD) 2020. Available at SSRN: <https://ssrn.com/abstract=3531479>

PROJECTS WORKED:

- UGC-MRP Project “Synthesis and evaluation of amino substituted Oxa and Thiadiazoles as possible Bombyx mori growth enhancers.” in GITAM University (2013-2017)
- “Antibacterial activity of Michelia champaca flower extract” done in GITAM University (2011).
- “Isolation and media-optimization of Bacillus subtilis” under the guidance of Andhra University and CMFRI (2008-2009).
- “Biotechnological, commercial production of vaccine from Haemophilus influenzae bacteria” under Shantha Biotechnics limited (2008).

FDP:

1. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Computer aided drug design in drug discovery" from 2021-9-06 to 2021-9-10 at Indian Institute of Information Technology Allahabad.
2. Participated in One-week online FDP on “Chemistry for Societal Advancements” organized by Dept. of Chemistry, K L university and A P Akademi of Sciences, on 26-7-2021 to 31-7-2021.
3. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "QBD tools for drug development" from 2021-7-13 to 2021-7-17 at Acharya Nagarjuna University.

CONFERENCES, WEBINARS AND WORKSHOPS ATTENDED: 32

INTERNATIONAL: 6; NATIONAL- 11, WEBINARS – 10 WORKSHOPS- 5

1. Organized the National Workshop on “Intellectual property protection and innovation management for competitiveness of academia & industries” organized by Gayatri Vidya Parishad College for Degree and PG Courses (A), IIC and NRDC on October 4 & 5, 2021.
2. Attended National Webinar on “Recent Advances in Drug Development for Mankind” (RADDM-2021) organized by the Department of Chemistry, GITAM Institute of Science, GITAM (Deemed to be University), Visakhapatnam on 11th August 2021.
3. Participated in webinar on Scientific writing with focus on writing research proposal for acquiring funding and grants organized by Dept. of Biotechnology and Bioinformatics, FDC and Research committee, Christ College, Rajkot on 29th June 2021.
4. Attended the webinar cum demo on “Lead Optimization of Drug candidates Through Multi Parameter Approach” organized by Dept. of Pharma Chemistry, JSS College of Pharmacy, Mysuru on 19th June 2021.

5. Participated in Dr. APJ Abdul Kalam Endowment lecture on “Modelling as a tool to better understand the degradation of materials organized by KL University in association with AP Akademi of Science on 17th June 2021.
6. Participated in “International E-Conference on Advances in Chemical Research 2021” organized by Dept. of Chemistry, GIS, GITAM (Deemed to be University) on 19th – 20th April 2021.
7. Participated in “Virtual Symposium: Targeted Protein Degradation & PROTAC” Oxford Global Conferences on 16th and 17th February 2021.
8. Participated in the “International Webinar on Water, Energy and the Environment: Challenges & Solutions (WEE-2021)” organized by the Department of Chemistry, GITAM Institute of Science, GITAM (Deemed to be University), Visakhapatnam on January 20 & 21, 2021.
9. Participated in the Webinar on ‘Data Analytics Tools for Chemistry Researchers’ organized by Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology Jalandhar. November 04, 2020
10. Participated in the one-day workshop on “Artificial Intelligence in Drug Discovery” organized by CSIR-Northeast Institute of Science and Technology, Jorhat on September 09, 2020.
11. Participated in the “Summer Research Training Program” SRTP-2020 organized by CSIR-NEIST Jorhat, India. from June 20th to August 22, 2020.
12. Participated in the “Drug Discovery Workshop series on StarDrop & SeeSar” organized by Zastra Innovation, Bengaluru from 6th July to 10th August 2020 through web meeting.
13. Participated in the “webinar on Chemistry and Biology of Natural Products WCBNP 2020” on July 24th -25th 2020. At CSIR-NEIST Jorhat, India.
14. Participated in the webinar on “Advance Lab Drying Techniques” conducted by Buchi on July 23rd, 2020
15. Participated in the webinar on “FTIR Emission Spectroscopy” conducted by Bruker on July 20 2020.
16. B. Yindu sai, G. Swathi, B. Kusuma, S.Gayatri, Ch. Anitha, Karteek Rao Amperayani, Design, molecular docking, DFT studies and synthesis of novel thiourea-thiazole derivatives as antibacterial agents, National Conference on “Chemistry for Sustainable Development” SusCon-2019, Dec-13-14.
17. Naveen Kumar kottakki, Amrutha Sri Konduri, Karteek Rao Amperayani, Uma Devi Parimi, synthesis and antimicrobial activity of piperazine analogs containing [1, 3, 4] thiadiazole ring, National Conference on “Chemistry for Sustainable Development” SusCon-2019 Dec-13-14.

18. P. Chandramouli, S. Satya Narayana, G Sai Kumar, Govindaraju, Karteek Rao Amperayani, Antihelmintic, antioxidant activity and total phenolic content of *ruta chalepensis*. L. plant AP Science Congress DEC 9, 2019.
19. B Roshini, B Pushpalatha, M Sujatha, L. Sujatha, Karteek Rao Amperayani synthesis, And Biological Activity of Substituted Phenyl-1,3,4-Oxadiazole-2-Amine Azo Resorcinol / 2 Naphthol Derivatives National Seminar On “Chemical Speciation in Biology and Marine Environment (CSBME- 2019)” Sep 29th & 30th, 2 019, Dept. of Chemistry, Andhra University Visakhapatnam
20. Kottakki Naveen Kumar, Karteek Rao Amperayani, Vishali Kolli, A. Soma Sekar, Uma Devi Parimi Piperine Analogues Containing [1,2,4] Triazole Ring as Antimicrobial Agents. National Conference on Organic Molecules as Synthons & Reagents for Innovations, February 08–10, 2019, IIT Roorkee
21. Kottaki Naveen Kumar, Karteek Rao Amperayani, Uma Devi Parimi Synthesis, characterization and evaluation of antimicrobial activity of carbazoles derivative. Current Trends in Chemical and Pharmaceutical Science Sri Venkateswara University, Tirupathi
22. Karteek Rao Amperayani, Uma Devi Parimi YVS Sai Krishna, R.Ravichandra Babu, “Recyclable nano-Fe₂O₃ 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 2015.
23. Karteek Rao Amperayani, Murali Krishna Kannajosyula, Uma Devi Parimi New visible spectrophometric methods for the assay of Spiramycine. poster presentation 3rd International Conference and Exhibition on Biologics and Biosimilars, 2014 DOI: 10.4172/1948-593X.S1.014
24. Karteek Rao Amperayani, Uma Devi Parimi “Synthesis of substituted 1,3,4 –Oxadiazoles and evaluation of growth and economic parameters of Bombyx mori”. Poster presentation 102nd Indian Science Congress 3-7th Jan 2015. Mumbai University.
25. A. Karteek Rao, Umadevi Parimi, and Anitha Mamillapall “Green Synthesis and Evaluation of Diamino Substituted 1,3,4 Thiadiazole as possible Bombyx Mori Growth Enhancer” oral presentation Iinternational conference EEEE-2014 June 2014 Andhra University, Visakhapatnam.
26. A. Karteek Rao, Parimi Umadevi Durvasula V.R. Venugopal and “Synthesis, antimicrobial and antitumor evaluation of novel piperine analogs of dipeptidyl boronic acid” poster presentation international conference Drugs for the Future: Infectious Diseases-2014 27-28 March 2014 antimicrobial Drug Discovery: Challenges and Perspectives at NIPER Hyderabad.

27. Awarded certificate for the active participation in 8-day training program on “Applications of NANO Technology” on 6-13th August 2014, GITAM University.
28. Awarded certificate for active participation in two-day workshop on “Research Methodology” on November 2013 under Technical Education Quality Improvement Program TEQIP Phase – II.
29. Awarded certificate for active participation in workshop on “Patent Awareness” on October 2013 organized by GITAM University
30. Awarded certificate for active participation in national seminar on “Intellectual Property and Innovation Management in Knowledge Era 2010” organized by NRDC in collaboration with MoMSME, Govt. of India.
31. Awarded certificate for active participation in International Conference On “Nano Science, Nanotechnology and Advanced Materials-NANOS 2010” sponsored by MoES, DST, CSIR, ICMR, HPCL, DRDO and DAE at GITAM University.
32. Awarded certificate for active participation in “National Conference on Biological Chemistry (NCBC-2010)” sponsored by MoES, DST, CSIR, ICMR, HPCL, DRDO and DAE at GITAM University
33. Awarded certificate for active participation in training program on “Rural Entrepreneurship Development” organized by Center for Integrated Rural Development GITAM Institute of sciences.

EXTRA CURRICULAR ACTIVITIES:

Involved in co-curriculum activities at school and college level.

- Participated in Inter-collegiate youth festival conducted at Rajiv Gandhi degree and PG College, Rajahmundry.
- Awarded 3rd prize in essay writing conducted at Gayatri Vidya Parishad.
- Awarded 3rd prize in debate competition in Telugu conducted at St. Joseph’s College for Women, Visakhapatnam.
- Awarded certificate for participation in center for the study of Gandhian Philosophy and Human Development

REFERENCE:

Prof. P Uma Devi, M.Sc., M.Phil, Ph.D.

Department of Chemistry

GVP Collage for degree and PG courses (A)

Rushikonda

Prof. A Nageswara Rao M.Sc., Ph.D.

Department of Chemistry

GVP Collage for degree and PG courses

Rushikonda

Visakhapatnam.
Ph: 9490753446

Visakhapatnam.
Ph: 9848066460

DECLARATION:

I hereby declare that the above furnished details are true to the best of my knowledge.

(A. KARTEEK RAO)