

Dr. Mamatha Kasula

M.Sc., Ph.D.

Assistant Professor

Department of Chemistry

Kakatiya University

Warangal - 506009

Mobile: +918499835700

Email: mamata_kasula@kakatiya.ac.in

mamatakasula@gmail.com



Education:

- **Doctor of Philosophy:** Department of Chemistry, Kakatiya University, Warangal
Thesis advisor: **Prof. Somu Srihari**
Thesis title: **Metal Complexes of Quinazolyl Schiff bases - A physicochemical study [1998 →2003]**
- **Master of Science:** Inorganic Chemistry, Kakatiya University, Warangal [1994 →1996]
- **Bachelor of Science:** Lal Bahadur College, Warangal [1990 →1993]

Professional Experience:

- **Assistant Professor, Senior Grade,** Department of Chemistry, University Arts Science College, Kakatiya University, TS, IN [October 2019→Present]
- **Assistant Professor, Head, Chairman Board of Studies,** Department of Chemistry, University Arts and Science College, Kakatiya University, TS, IN [December 2015→October 2019]
- **Controller of Examinations, U.G,** University Arts and Science College, Kakatiya University, TS, IN [May 2017→ October 2019]
- **Additional Controller of Examinations, U.G,** University Arts and Science College, Kakatiya University, TS, IN [March 2016→ April 2017]

- **Assistant Professor**, Department of Chemistry, Kakatiya University, TS, IN [May 2010→November 2015]
- **Assistant Professor**, Vaagdevi Degree and P.G. College, Ramnagar, Hanamkonda, Warangal, TS, IN [1996→2010]
- **Doctoral Research Fellow**, Department of Chemistry, Kakatiya University, Warangal, TS, IN [1998→2003]

Awards:

- Telangana Academy of Sciences Associate Fellow 2019

Research interests:

- Synthesizing new Organic Ligands and their metal complexes
- characterizing them by Physico-chemical techniques, screening both the chemical entities for biological activity and anticancer activity working out structure activity relationship and also studying their catalytic properties.
- Molecular modeling studies.

Completed Project:

- UGC Major Research Project (10,29,300=00; Ten Lakhs Twenty-Nine Thousand Three Hundred Indian Rupees), Awarded on July, 15, 2011. (F.NO: 40-87/2011(SR))

Title: Evaluation of Selective Metallo-Organic Entities for Potential Biomedical Applications

Group:

Ph.D. Students Awarded:

- **Dr. Ramu Guda**
M.Sc. (Chemistry) Kakatiya University
Ph.D. Student, Period of Work: 2012-2017
Present Posotion:
Project Scientist-I, Department of Chemistry,
ACRHEM, University of Hyderabad, India,
Supervisor: Prof. K. Muralidharan

Ph.D. Students Present working:

- **Dr. P.Rambabu**
M.Sc. (Chemistry) Kakatiya University
Ph.D. Student, CSIR JRF Fellow
Period of Work: 2016-2022
- **Dr. M. Himabindhu**
M.Sc. (Chemistry) Kakatiya University
Ph.D. Student,
Period of Work: 2016-2022
- **Mr. K. Rajashekar**
M.Sc. (Chemistry) Kakatiya University
Ph.D. Student, RGNF Fellow
- **Mr. Devendar Banothu**
M.Sc. (Chemistry) Kakatiya University
Ph.D. Student, CSIR-JRF Fellow
- **Mr. Prabhakar Myadaraveni**
M.Sc. (Chemistry) Kakatiya University
Ph.D. Student, CSIR-JRF Fellow

Representative Publications:

30. Rambabu Palabindela, Ramu Guda, Gondru Ramesh, Ramakrishna Bodapati, Satheesh Kumar Nukala, Prabhakar Myadaraveni, Gangalla Ravi, **Mamatha Kasula*** “Curcumin based pyrazole-thiazole hybrids as antiproliferative agents: Synthesis, pharmacokinetic, photophysical properties, and docking studies”. *Journal of Molecular Structure* Volume 1275, 2023, 134633.

29. Rajashekar Korra, **Mamatha Kasula*** “Synthesis of novel Amino Quinoline containing Schiff’s bases and divalent Cu, Co, Ni and Zn metal complexes”. *Bulletin of Environment, Pharmacology and Life Sciences* Special Issue [1]2022 : 753-760.

28. Rambabu Palabindela, Ramu Guda, Gondru Ramesh, Prabhakar Myadaraveni, Devendar Banothu, Gangalla Ravi, Rajashekar Korra, Himabindu Mekala, **Mamatha Kasula***. "Novel tryptanthrin hybrids bearing aminothiazoles as potential EGFR inhibitors: Design, synthesis, biological screening, molecular docking studies, and ADME/T predictions". *Journal of Heterocyclic Chemistry* 59.9 (2022): 1533-1550.

27. Rambabu Palabindela, Prabhakar Myadaraveni, Devendar Banothu, Rajashekar Korra, Himabindu Mekala and **Mamatha Kasula***. "Anthracene and 1,8- naphthalimide aminothiazole hybrids: Synthesis, Antimicrobial activity and Molecular Docking Studies". *Oriental Journal of Chemistry*, Volume 38, Number 1, 2022.

26. Kirankumar Shastrala, Sirisha Kalam, Kumaraswamy Damerakonda, Sharvana Bhava Bandaru Sheshagiri, Hitesh Kumar, Ramu Guda, **Mamatha Kasula*** and Satish Kumar Bedada. "Synthesis, characterization, and pharmacological evaluation of some metal complexes of quercetin as P-gp inhibitors." *Future Journal of Pharmaceutical Sciences* 7.1 (2021): 99.

25. A. Sakthivel, B Tanager , N. Raman , J. Joseph , Ramu Guda , **Mamatha Kasula*** & L. Mitu. Spectroscopic, SOD, anticancer, antimicrobial, molecular docking and DNA binding properties of bioactive VO(IV), Cu(II), Zn(II), Co(II), Mn(II) and Ni(II) complexes obtained from 3-(2-hydroxy-3-methoxybenzylidene)pentane-2,4-dione. *Journal of Biomolecular Structure and Dynamics* 39(17), 6500-6514 (2020).

24. Siripireddy Balaji, Ramu Guda, Badal Kumar Mandal, **Mamatha Kasula**, Eethamukkala Ubba & Fazlur-Rahman Nawaz Khan Green synthesis of nano-titania (TiO₂NPs) utilizing aqueous Eucalyptus globulus leaf extract: applications in the synthesis of 4H-pyran derivative. *Research on Chemical Intermediates* 47 (2019): 3919-3931.

23. Girijesh Kumr, Ramu Guda, Ahmad Husain, Ranjan Patra, Kirandeep and **Mamatha Kasula***. Pyridyl substituted triazole appended naphthalenediimide derivatives. *Journal Of Photochemical and Photobiological Sciences*, Issue 6, 2019,18, 1333- 1341.

22. Muthadi S., Guda R., **Mamatha Kasula**, Garlapati A., and Akkinapally R. R.* Synthesis, Cytotoxic evaluation and Molecular docking studies of new 3- (1,3,4-Oxadiazolyl)- Quinolineone Derivatives against breast cancer cell lines: *Indian Drugs*, Nov, 2018, Vol.55 Issue : 11.

21. Ramu Guda, Girijesh Kumar, Rajashekar Korra, Siripi Reddy Balaji, Govindu Dayakar, Rambabu Palabindela, Narsimha Reddy Yellu and **Mamatha Kasula***. EGFR, HER2 target based molecular docking analysis, in vitro screening of 2, 4, 5- trisubstituted imidazole derivatives as potential anti-oxidant and cytotoxic agents. *Journal of Photochemistry and Photobiology B: Biology*, 176 (2017) 69–80.

20. Ramu Guda, Rajashekar Korra, Siripi Reddy Balaji, Rambabu Palabindela, Rakesh Earla, Harikiran Lingabathula, Narsimha Reddy Yellu, Girijesh Kumar and **Mamatha Kasula***. Design, synthesis and biological evaluation of 8-substituted- 6-hydrazonoindolo[2,1- b]quinazolin-12(6H)-one scaffolds as anti-oxidant and cytotoxic agents: molecular docking studies on IDO-1. *Bio-organic & Medicinal Chemistry Letters*, 27 (2017) 4741–4748.

19. Pogaku Pavitha, Jyothi Prashanth, Ramu Guda, Gaddam Ramesh, **Mamatha Kasula***, Venkatram Reddy Byru, Synthesis, structural, spectroscopic, anti-cancer activity and molecular docking study on novel 2-[(Anthracene-9-ylmethylene)amino]- 2-methylpropane-1,3-diol using XRD, FTIR, NMR, UV-Vis spectra and DFT. *Journal of Molecular Structure* 1147 (2017) 406-426.

18. Ramu Guda , Sirassu Narsimha , Ramavath Babu, Srujana Muthadi, Harikiran Lingabathula, Rambabu Palabindela Narsimha Reddy, Girijash Kumar, and **Mamatha Kasula***. Novel substituted hydrazono indolo[2,1-b]quinazoline-6,12-dione analogues as cytostatic agents: Synthesis, crystal structure, biological evaluation and molecular docking studies. *Bio-organic & Medicinal Chemistry Letters*, 2016, 26, 5517–5523.

17. Ramu Guda, Kumaraswamy Bathula, Srujana Muthadi, Sarika Kasarla, Rambabu Palabindela, Rajashekar Korra, Thampu Raja Komuraiah and **Mamatha Kasula***. Synthesis, characterization and antimicrobial investigation of Rh(III), Ru(III) and Ag(I) complexes with some derivatives of

3-amino-2-thioxo-2,3- dihydroquinazolin- 4(1H)-ones. *European Journal of Chemistry* (2016), 7 (3), 330-336.

16. Ramu Guda, Srujana Muthadi, Mahender Porika and **Mamatha Kasula***. Anticancer and antimicrobial activity of 3-Amino-2-mercapto quinazolin-4-one schiff bases and their VO(IV) and Pt(II) metal complexes. *International Journal of Chemical and Pharmaceutical Sciences* 2015, Dec, Vol. 6(4).

15. Srujana Muthadi, Shirisha Thadishetti and **Mamatha Kasula***, Synthesis of novel Triazolo Thienopyrimidine derivatives as antimicrobial agents- A physicochemical study. *Journal of Pharmacy Research*, 2014, Vol-8 Issue-5, Page: 624-627.

14. Srujana Muthadi, Jyothi Bandi, Shirisha Thadishetti and **Mamatha Kasula***. Synthesis and evaluation of new Triazolyl quinazolinone derivatives as possible antimicrobial agents. *Journal of Pharmacy Research*, 2014, Vol-8 Issue-7, Page: 948.

13. **Mamatha Kasula**, Srujana Muthadi, Jyothi Bandi and Shirisha Thadishetti Synthesis, Characterizations and Pharmacological Evaluation of Novel Brominated Triazolyl Quinazolinone Derivatives. *Journal of Pharma Research*, 2014, Vol- 3 Issue-4, Page: 61-65.

12. **Mamatha Kasula**, Srujana Muthadi, Jyothi Bandi, Shirisha Thadishetti Synthesis, Spectral Characterization and Screening of New Triazolo Thienopyrimidine Derivatives for their Antimicrobial Activity. *Journal of Pharma Research*, 2014, Vol-3 Issue-4, Page: 66-69.

11. Ravinder Manchal, **Mamatha Kasula**, Srujana Muthadi, K.V.N.G Kumari, SriHari Somu*, Synthesis and Testing of Metal Complexes of Quinoxaline Based Schiff Bases for Antimicrobial and Anticancer Activities. *International Journal of Pharmaceutical Science and Research*, 2015, Vol-6(2), Page: 698-704.

10. Ravinder Manchal, **Mamatha Kasula**, Ravula Mogili, Narla Padmaja, and SriHari Somu*, Studies on the metal complexes of quinoxaline based schiff base. *Acta. Chim. Slov.*, Vol.18, No.4, 2010, pp. 1245-1249.
9. K. Govinda Chary, **Mamatha Kasula**, Ravula Mogili, Ravinder Manchal, and SriHari Somu*, Metal Complexes of some phenylhydrazones – Synthesis and Spectral Studies. *Asian Journal of Chemistry*, Vol.20, No.2, 2008, pp. 1437.
8. K Govinda Chary, **Mamatha Kasula**, Ravula Mogili, Ravinder Manchal, and SriHari Somu* Synthesis and spectral and antifungal studies of Fe(III), Ni(II), Cu(II), Ru(II) and Pd(II) complexes of some phenylhydrazones. *International journal of Computational Intelligence: research and applications*, Vol.1 No.2 (2007) pp.199-205.
7. B. Rupini, **Mamatha Kasula**, Ravula Mogili, Ravinder Manchal and SriHari Somu* Synthetic and spectral studies of oxo VO(IV), Co(II), Ni(II), Cu(II) and Pd(II) complexes of some coumarin based Schiff bases. *International Journal of Chemical Sciences*. 5(5), 2007, 2203-2210.
6. K. Govinda Chary, **Mamatha Kasula**, Ravula Mogili, Ravinder Manchal and SriHari Somu*, Synthetic and spectral studies on Fe(III), Ni(II), Cu(II), Ru(III) and Pd(II) complexes of some phenyl hydrazones. *International Journal of Chemical Sciences*. 5(3), 2007, 1039-1046.
5. Ravula Mogili, Ravinder Manchal, **Mamatha Kasula**, Narla Padmaja and SriHari Somu*, Synthesis, Characterization and Antimicrobial Activity of some Quinoxaline derivatives and their Metal Complexes. *Journal of Pharmacy and Chemistry*, Vol.1, 2007, pp.35-39.
4. B. Rupini, **Mamatha Kasula**, Ravula Mogili, Ravinder Manchal and SriHari Somu*. Synthesis and characterization of oxo VO(IV), Co(II), Ni(II), Cu(II) and Pd(II) complexes of some coumarin-based Schiff-bases. *Journal of Indian Chemical Society*, 84, 2007, pp.1-3.

3.Mamatha Kasula, Ravula Mogili, Ravinder Manchal and SriHari Somu*. Synthesis and Antimicrobial Activity of some Quinazoline derivatives and their Metal Complexes. *Oriental Journal of Chemistry*, Vol.23, No.2, 2007, pp. 605-608.

2.Mamatha Kasula, Ravula Mogili, Ravinder Manchal and SriHari Somu*, Synthesis and spectral characterization of metal complexes of quinazolyl Schiff bases. *Journal of Indian Council of Chemists*, Vol.24, No.1, 2007, pp. 1-5.

1.Mamatha Kasula, B. Rupini and SriHari Somu*, Studies on metal complexes of quinazolyl Schiff Bases. *Journal of Indian Chemical Society*, Vol. 81 (2004) 1.

As a Resource Person

- Delivered a Sequence of lectures as A resource person on the topic of “Qualitative Analysis and Fundamentals of Chemistry” in “3 weeks Industrial Training Programme for chemistry Faculty of Govt. Polytechnic in Telangana Sate” Organised by Department of chemistry Kakatiya University From 6th -25th June 2022.
- Delivered a Talk in an International conference on “Intellectual Property Rights and Patent Drafting” held in Department of Pharmacy, Chaitanya Deemed to be University Hanamkonda TS, on 22nd- 23rd April 2022.
- Delivered a webinar on "METALS IN MEDICINE", on 16th may 2020, organised by S.R.R. Government arts and Science College, Karimnagar, TS, India.

Best Poster Awards received:

- Awarded with best poster award in presenting the paper entitled, *Synthesis and pharmacological evaluation of new ciprofloxacin analogues as potential antibacterial and antitubercular agents.* at “Selectbio 3rd International Conference on Medicinal Chemistry MedChem INDIA 2015”, held at Hotel Radisson, HITEC City, Hyderabad, T.S., INDIA, September 10-11, 2015. Kalam Sirisha*, Munnisa Begum, Garlapati Achaiah, Chitra Chandrashekar, Mamatha Kasula.
- Awarded **2nd prize** in presenting the paper entitled *Synthesis, Characterization and evaluation of antimicrobial activity of new bridged triazolo, thieno pyrimidine derivatives.*, at one day national Symposium on Pharma rendezvous for Better Health Care at Sultan-ul-

Uloom College of Pharmacy, Hyderabad in collaboration with APSCHE and Goethe-Zentrum, held on 1st March 2014

National and International Seminars/Conferences Publications:

1. Presented a Paper poster entitled Design and Synthesis of 3-Pyridine Based 5-Sulfenyl Thiazole Hybrids Targeting EGFR in Anti-Cancer in National Conference on “Recent Advances in Inorganic and Organometallic chemistry-2023 (RADIOC-2023)” Organised by the Department of chemistry, National Institute Technology Warangal on 24th – 25th Feb 2023.
2. An Oral Presentation on paper entitled “Molecular Docking Investigations of Thiosemicarbazone Cu (II) and Zn (II) metal complexes against EGFR, HER2 and IKK- β target Proteins: Synthesis characterization and biological screening” in National Seminar on “Innovation in chemical research (ICR-2022)” Organised by Department of chemistry, Kakatiya University on 15th -16th Sept 2022.
3. Presented a paper on “Curcumin based pyrazole-thiazole hybrids --- pharmacokinetic, photophysical properties and docking studies” in One Day National Conference on Current Trends in Pharmacy and Pharmacy Practice organized by Chaitanya Deemed to be University on 1st April, 2022 in association with Indian Pharmaceutical Association (IPA), Warangal and Mybo Group
4. Presented a paper on “Synthesis and Anti-Microbial of 1-8 naphthyridineHydrazones, Schiff and Mannichbases of Isatin Derivatives” in a Two-Day National Seminar on Emerging Trends in Chemical and Material Science Research organized by SR & BGNR Govt. Arts and Science College (Autonomous), Khammam on 25-26 Feb, 2022
5. Presented a paper on “Synthesis, Crystal Structure, Biological Evaluation and Molecular Docking Studies of some Nicotinic Hydrazone Schiff Bases” in International Virtual Conference on Innovative Research in Chemical Sciences organized by Dept. of Chemistry, SRM Institute of Science and Technology, Chennai during June 29-30, 2020.
6. Presented a paper entitled “Synthesis, Crystal structure, Biological Evolution and Molecular Docking Studies of 2-(2-(anthracene-9-ylmethylene) hydrazinyl)-4-phenylthiazole analogues” in “International Conference on Drug Discovery” at BITS-Pilani, Hyderabad on Feb 29th - 2nd March, 2020.

7. Presented a paper on “EGFR targeting potential amino thiazoleamalogical synthesis, crystal structure biological studies” in Three Day National Seminar on Science and Technology for Sustainable Development with women Empowerment at Dept. of Chemistry, Satavahana University, Karimnagar and Indian Science Congress Association, Hyderabad during February 25-27, 2020.
8. Presented a paper entitled "Synthesis, Crystal, Structure, biological evaluation and molecular docking studies of some Nicotine Hydrazide Schiff bases, in the 107th Indian Science Congress, held at University of Agricultural Sciences, Bangalore from 3rd to 7th January 2020.
9. Presented a paper entitled, Synthesis, Structural and Biological evaluation of Molecular Docking of Ni (II), Cu(II) and Zn(II) complexes of Hydrazinyl thiazole ligand in an one day National Conference on Recent Advances in Pharmaceutical Sciences on 30th January 2020 at University College Pharmaceutical Sciences, Kakatiya University.
10. An Oral Presentation on paper entitled "Synthesis of Biological Activity and Molecular Docking Studies of metal complexes of 4-Phenyl-2(2-Pyridin-4-yl Methylene) Hydrazinyl) thiazole, derivatives in the scientific session of the TAS & TSCHE sponsored two-day National Conference on recent trends in Pharmaceutical Sciences and Research held at Vaagdevi College of Pharmacy on 23rd-24th November 2019.
11. An Oral Presentation on paper entitled "Synthesis, Characterisation Crystal Structure of 3-Formyl Chrono-one based Schiff bases and their Cu(II), Ni(II) and Zn(II) metal complexes as potential cytotoxic agents in the National Seminal on Nature inspired initiatives in chemical sciences held at Department of Chemistry South Campus, Bhiknur, Telangana University during 4th-5th November 2019.
12. Presented a paper entitled "Synthesis, Characterization biological evaluation and molecular docking studies of novel 6-(2-(4-Phenyl thiozol-2-yl)hydrazono)indolo[2, 1-b]quinazoline, 12(6H)-One analogs an anti-oxidant, anti-bacterial agents in the International Conferences on Advances in chemical sciences and technologies, held at Dept of Chemistry NITW during 23rd-25th September 2019.
13. An Oral Presentation on Spectroscopic Studies in the Scientific SERB, sponsored a two-day seminar national level seminar on NMR Techniques and its Applications in pharmaceutical sciences held at Jayamukhi College of Pharmacy on 20th and 21st September 2019.

14. Presented a paper entitled Synthesis Characterization, Biological Evaluation, Molecular docking and theoretical studies of the compound "2-(2-anthracen-9-yl methylene hydrazinyl)-4 Phenylthiozole" in the National Seminar on "Advances in chemical research (ACRH) organised by Department of chemistry, Kakatiya University, Warangal during 29th-30th March 2019.
15. An Oral Presentation on entitled "Synthesis, Evaluation of Anticancer activity and molecular docking studies of 4,4-(1-(4-Phenylthiazol-2-yl)-1H-Pyrazole-3,5- diyl) bis(ethene-2,1-diyl) bis (2-methoxy phenol Analogues") in the two-day National Seminar on Current Issues and Challenges in chemical research organised by Dept. of Chemistry, University Arts and Science College, Kakatiya University, Warangal on 18th-19th March 2019.
16. Presented a Paper poster entitled Synthesis Characterisation , Crystal Structure EGFR target based molecular Docking Analysis of invitro Screening of 3- formyl chromone based Schiff bases and their Cu(II), Ni(II), Zn(II) metal complexes as protentional cytotoxic agents in the international conference on modern trends in chemical science including Green chemistry (MTCSGC-2018) Organised by association of chemistry teachers, Mumbai, SRM Institute of science and technology Ramapur Campus Chennai during 27th -29th Dec 2018.
17. Presented a paper entitled Synthesis Characterisation biological evaluation and molecular docking Studies of Novel 6-(2-(4-Phenyl thiozole-2-I) Hydrazono Indolo [2,1,B] Quinoline-12(6H)-one Analogues as anti-oxidants and anti-Bacterial agents, during the TS-Science congress (TSSC-2018) organised by the Telangana Academy Of science in Association with the NITW during 22nd -24th Dec 2018.
18. Presented a paper entitled, studies on the metal complexes of quinoxaline based sciff bases in the international conference on "Emerging trends in spectroscopic Techniques and their applications organised by the Department of Chemistry "University college of women, Koti, Osmania University, Hyderabad on 3rd-4th December 2018.
19. Presented a paper entitled, Synthesis and Characterisation of newly Quercetin metal complexes and biological evaluation of anti-tumor and p-gp inhibitory activities at Two-day National Seminar on Recent Challenges in Chemical Research (RCCR), held at Department of Chemistry, Kakatiya University During 6rd & 7th April 2018.
20. Presented a paper entitled, a Green Synthesis of Novel 2-Amino-6- Methyl-4H-Pyran-3-carbonitrile analogues by TiO₂ NPs Aqueous media: Evaluation of their Anti-oxidant, anti-

Bacterial activity and molecular docking studies at Two-day National Conference on Recent Advances in Pharmaceutical Science (RAPS-2018), Held at University college of Pharmaceutical Sciences, Kakatiya University During 23rd & 24th Feb 2018.

21. An Oral Presentation of the paper entitled "Synthesis and Antimicrobial activity of some Quinalazone derivatives and their metal complexes in the International Conference on Innovations in Commerce and Science Organised by Nizam College, Hyderabad on 29th and 30th November 2017.
22. An Oral Presentation of the paper entitled "Synthetic, Spectral Studies and molecular docking studies of oxo(4), co(2), Ni(2) complexes of some coumarin based sciff bases in the 20th International Conference of International Academy of Physical Sciences on recent advances in physical sciences and futures challenges Osmania University held during 14th - 16th July 2017.
23. Presented a paper "Pyridyl substituted triazole appended naphthalenediimide: a promising building block for organic electronic materials" in the 20th International Conference of International Academy of Physical Sciences on "Recent Advances in Physical Sciences and Future Challenges at Osmania University held during July 14th-16th, 2017
24. Participated and presented a paper entitled "A Functional Zn (II) Metallacycle Formed from an N-Heterocyclic Carbene Precursor: A Molecular Sensor for Selective Recognition of Fe³⁺ and IO₄⁻ Ions Inorganic Chemistry", in the National Conference on "Recent Developments in Chemical Sciences and Allied Technologies" organized by the Department of Chemistry, National Institute of Technology, Warangal ,during 29th-30th June, 2017
25. Presented a paper entitled Design, Synthesis and Biological Molecular Docking Studies in UGC sponsored Two Day National Seminar on Recent Trends and Challenges in Chemical Sciences at Department of Chemistry, Kakatiya University, Warangal during 24th-25th March, 2017.
26. Oral Presentation of the paper entitled in UGC Sponsored Two Day National Seminar on The Role of Chemistry in Human Health and Environment held on 27th & 28th January 2017 at Seminar Hall, J.V.R, Govt College, Sathupally, Khammam Dist, Telangana State, India.
27. Synthesis, Characterization and X-ray Crystal structures of Copper ((II) Complexes Containing 4,4-Bipyridine, Acetylacetonate and 1,10- Phenanthroline" A National Conference

on “Frontiers in Chemical Sciences and technologies” (FCST) organized by department of Chemistry, NIT, Warangal during 28th-29th Jan 2016.

28. Novel substituted hydrazono indolo [2,1-b] quinazoline- 6,12-dione analogues as cytostatic agents: Synthesis, crystal structure, biological evaluation and molecular docking studies, A National PhD Poster symposium on challenges in organic and medicinal chemistry organized by Royal Society of Chemistry, London and University College for Women, koti, Hyderabad in the of 2nd December, 2016.
29. An International conference on Trend setting Innovations in Chemical Sciences and Technology- Applications in Pharma Industry (TSSCST-API 2015), held at JNTUH, Hyderabad during 16th -18th December 2015.
30. Presented the paper entitled, Synthesis and pharmacological evaluation of new ciprofloxacin analogues as potential antibacterial and antitubercular agents at “Selectbio"3rd International Conference on Medicinal Chemistry Med Chem INDIA 2015”, held at Hotel Radisson, HITEC City, Hyderabad, T.S., INDIA, September 10-11, 2015.
31. Novel mixed ligand copper(II) complex of 2,2-bipyridal and acetylacetonate: Synthesis, Characterization and Molecular docking studies, A National conference on Recent Advances in Chemical and Pharmaceutical Sciences, held at JNTUH, Nachupally, Karimnagar, during the month 10-11th April, 2015.
32. Presented a paper entitled Design, Synthesis and biological evaluation of Novel[2,1-b] Quinazoline-6,12-dione derivatives as Potential EGFR Inhibitors : Molecular docking studies, UGC Sponsored national Seminar on Recent advances in Chemistry, organized by department of Chemistry, Kakatiya University, Warangal, held on 30-31 March, 2015.
33. Design, Synthesis and Biological Evaluation of Novel [2,1-B] Quinazoline-6-12- Dione Derivatives as Potential Anticancer agents, APAS Golden Jubilee Science Congress, organized by Andhra Pradesh Akademi of Sciences, IICT and CCMB, during in the month of November 13-15, 2014.
34. Synthesis of Novel triazolo thienopyrimidine derivatives as antimicrobial agents- a Physicochemical study, An International conference on New Dimensions in Chemistry and Chemical Technologies- Application in Pharma Industry, organized by Centre for Chemical

Sciences and technology Institute of Science and Technology, JNTU, Hyderabad, during 23-25th June, 2014.

35. Synthesis, Characterization and biological evaluation of oxovanadium (iv), cobalt (ii), nickel (ii), copper (ii), and palladium (ii) complexes of some Coumarin-based Schiff bases, A National Seminar on Recent Advances in Pharmaceutical Sciences, held at S.R.R College of Pharmaceutical Sciences, Affiliated to JNTU, Hyderabad on 12th April 2014.
36. 3-Amino-2-mercapto-4-oxo-(3H) quinazoline complexes with pyridine, thiophene- 2-carboxaldehyde and Pt(II), VO(IV), Ru(III), Rh(III) and Ag(I): Synthesis, Characterization, antimicrobial and Cytotoxic effects, An International Symposium on Nature inspired Initiatives in Chemical Trends, organized by CSIR-IICT, Tarnaka, Hyderabad, held in March 2-5, 2014.
37. Synthesis, Characterization and evaluation of antimicrobial activity of new bridged triazolo, thieno pyrimidine derivatives, A one day national Symposium on Pharma rendezvous for Better Health Care at Sultan-ul-Uloom College of Pharmacy, Hyd in collaboration with APSCHE and Goethe-Zentrum, held 1st March'14.
38. Synthesis, Characterization and Biological Evaluation of Quinazolyl Schiff bases and their Metal Complexes, A National Conference on Nanoscience and Nanotechnology Sponsored by UGC, Department of Chemistry, MGU, Nalgonda, during 21st February 2014.
39. Synthesis and Testing of Metal Complexes of Quinazoline based Schiff bases Antimicrobial and anticancer activities, An International Symposium on Environmental Pollution, Nutrition and Genetics, Cancer biology and therapeutics, organized by Department of Chemistry, Vikrama Simhapuri University and UNT Health Science Center, Nellore, from 27-29th December, 2013.
40. Synthesis, Characterization and Pharmacological evaluation of some Quercetin metal complexes as P-GP inhibitors, 65th Indian Pharmaceutical Congress (IPC), Delhi, during 20-22 December, 2013.
41. Synthesis, characterization and biological evaluation of Isoxazole Schiff bases and their metal Complexes, A National Conference on Frontiers of Chemical Research, organized by Department of Chemistry, JNTUH College of Engineering, Kukatpally, Hyderabad, during 25-26th October, 2013.

42. Synthesis of some substituted quinolinone derivatives, an international seminar on Emerging Trends in Chemical and Pharmaceutical Sciences, organized by Department of Chemistry, JNTUA College of Engineering, Anantapur, Andhra Pradesh, on 28-30th June, 2013.
43. Synthesis, Characterization, Catalytic, Antimicrobial activity of Quinazolyl derivatives and their Metal Complexes”, 21st National Symposium on catalysis for Sustainable Development, organized by CSIR-Indian Institute of Chemical Technology, during 11-13th February, 2013.
44. Synthesis, Characterization and Biological evaluation of some metal complexes of 3-Amino-2-mercapto-4-oxo quinazoline derivatives, an International Conference on Biotechnology in Human Welfar, organized by Department of Biotechology, Kakatiya University, Warangal, held on 7-9th February, 2013.
45. Synthesis, Characterization and Biological evaluation of Quinazolyl Schiff Bases and their Metal Complexes, an international seminar on Recent Advances in Pharmaceutical Sciences, organized by University College of Pharmaceutical Sciences, Kakatiya University, Warangal, during the month 22-24th november, 2012.
46. Studies on the Metal Complexes of Some Quinazoline Derivatives, A National Conference on Interface Between Chemical Sciences and Technologies, organized by Department of Chemistry, National Institute of Chemistry, Warangal, held on 29-30th December, 2011.
47. Synthesis, Characterization and biological assay Cu (II) complexes with some quinoxaline derivatives an international conference on Recent Advances in Drug Discovery, Conducted by University College of Pharmaceutical Sciences, Kakatiya University, Warangal, during 22-24th October, 2010.
48. Synthesis and biological evaluation of quinoxaline-based congeners as antimicrobial agents CSIR sponsored conference on Organic Synthesis and Human Well Being: Emerging Opportunities and Challenges, organized by Indian Institute of Chemical Technology, Hyderabad, India, during the month of August 1-4, 2010.
49. Physico-Chemical studies and anticancer activity of Ni (II) complexes of quinoxaline derivatives UGC –SAP sponsored National conference on Green Chemistry – An innovation to sustainable development, Kakatiya Unversity, Warangal, India, during 29th and 30th March, 2010.

50. Synthesis and antimicrobial activity of some quinzoline derivatives and their metal complexes, UGC sponsored National seminar on New Frontiers in Chemistry, Kakatiya University, Warangal, India, during 23rd and 24th February 2007.
51. Antimicrobial activity of metal complexes of quinzoline derivatives UGC sponsored National seminar on Recent Developments in Coordination and Bioinorganic Chemistry, Kakatiya University, Warangal, India, during 11th and 12th March 2005.
52. Synthesis and Structural Characterization of some metal complexes of 3-amino 2-mercapto 4-oxo-(3H) – Quinzoline Schiff Base, 21st Indian Council of Chemists, at Jabalpur, India, during 24 – 26 October 2002.

Faculty Development Programs Participated :

- FDP on “Advances in Analytical Technics” organised by SRM Institute of Science Technology, Chennai. 21th – 30th July 2022.
- “Computational Techniques in Chemical Analysis and Quantitative Biology” organised by Vaagdevi degree and PG College during 20th – 29th Sept 2021.
- “Covid-19 Pandemic and Global health” organised by Chaitanya (Deemed to be University), 16th -20th July 2021.
- “Teaching and Learning of NMR Spectroscopy for the structure determination” organised by National Institute of Technology Warangal (NITW) During 19th – 24th Feb 2021.
- “Prospective research for Sustainable development” organised by SRM Institute of Science Technology, Chennai, 20th – 24th July 2020.
- Sustainability of Institutions of Higher learning in the context of Covid-19 Challenges organised by Govt Degree College Narsampet, WGL Dist. On 6th to 11th July 2020.
- Online FDP on "Emerging Trends in Sciences - usage of research tools and techniques organised by Varthaman College of Engineering, HYD, 15th - 20th June 2020.
- "Instrumental strategies of physical methods in chemical analysis with hands on experiments" organised by National Institute of Technology Warangal (NITW), 2nd-7th March 2020.
- Teaching and learning chemical spectroscopy through hands on experience organised by National Institute of Technology Warangal (NITW) 11th-16th September 2017.

- Developing Teaching Competencies in Teachers of Higher Education organised by National Institute of Technology Warangal (NITW) 13th-19th May 2017.
- National Workshop on "Molecular Docking Studies “in Drug Discovery organised by Department of Zoology, KU, 29th - 31st May 2019.

Positions of Responsibility:

- **Advisory Committee member** in organizing two day National Seminar on “ Recent Advances in inorganic and Organometallic Chemistry” organized by the Department of Chemistry, NIT Warangal on 24th and 25th February 2023.
- **Director of the Seminar;** Organized a two day National seminar on "Current issues and Challenges in Chemical Research"at Department of Chemistry, University Arts and Science College, Kakatiya University, held on 18th & 19th March 2019.
- **Delegate** at a two day National Conference on "Recent Advances in Pharmaceutical Sciences (RAPS-2019) held on 30th & 31st August 2019.
- **Delegate and Evaluator** for poster presentations at a two day National Conference on Current Scenario in Pharmaceutical Sciences in association with TAS held on 24th & 25th October 2019, at Chaitanya College of Pharmacy Education and Research, Warangal, TS, India.
- **Delegate** at a two day National Conference on "Recent Advances in Pharmaceutical Sciences (RAPS-2018) held on 23th & 24th February 2018.
- **Advisory Committee member** in organizing two day National Seminar on “The Role of Chemistry in Human Health and Environment” organized by the Department of Chemistry, J.V.R. Govt. College, Sathupally on 27th 28th January 2017.
- **Advisory Committee member** in organizing UGC Sponsored Two –Day National Seminar on “Emerging Trends and Challenges in Chemical Research” organized by Department of Chemistry, Govt. Degree College Bhadrachalam, on 18th 19th December 2015.
- **Organized** a UGC Sponsored National Seminar entitled “Recent Advances in Chemistry”, (RAC-2015) as a member in poster committee and also as a member in Food and Hospitality committee.