

BIO-DATA



Name	Prof. A. Jaya Shree
Father's Name	Dr. A. Srinivas Reddy
Date of Birth	14-9-1963
Native Place	Suryapet, Nalgonda, TS
Residential Address	H.No: A 22, Road no. 12, Film nagar phase II, Jubilee hills, Hyderabad, 500 096
Communication	Phone +91-9491442444 +91-40-23158661 Email Jayashreeanireddy@gmail.com Jayashree@jntuh.ac.in
Academic Qualifications	M.Sc; Ph.D. <ul style="list-style-type: none">• M.Sc. (Organic Chemistry); 1st Class, 1985• Ph.D. (Organic Chemistry) awarded in 1992• UGC/CSIR NET fellowship 1986 -1991
Current position	Professor of Chemistry & Director i/c, IST, JNTUH, Head and Chairman, BOS, CCST, IST, JNTUH <ul style="list-style-type: none">• Director i/c, Institute of Science and Technology, Jawaharlal Nehru Technological University, Hyderabad-500085, Telangana, India• Professor of Chemistry & Head of the Department, Centre for Chemical Sciences and Technology, Institute of Science and Technology, Chairman, BOS, CCST, IST, JNTUH. Jawaharlal Nehru Technological University, Hyderabad-500085, Telangana, India
Teaching Experience	24 Years
Research Experience	26 years

Educational Qualifications

Sl. No	Qualifications	University/Board	Area of Specialization	Year of Passing	Division
1	Ph.D.	Department of Chemistry Osmania University Hyderabad, INDIA	Chemistry (Organic Chemistry)	1992	Awarded
2	NET	University Grants Commission	Chemistry	1986	JRF&SRF awarded
3	M.Sc.	Department of Chemistry Osmania University Hyderabad, INDIA	Chemistry (Organic Chemistry)	1985	First Class
4	B. Sc.	AMS Arts & Science College Osmania University, Hyderabad,	Botany, Zoology, Chemistry	1982	First Class

Details of Employment and Nature of Duties

Sl.No	Name of the Employer	Designation	Period From	Period To
1	Jawaharlal Nehru Technological University Hyderabad, INDIA	Professor of Chemistry, Director i/c, Institute of Science and Technology, JNTUH, Hyderabad	2014	Present
2	Jawaharlal Nehru Technological University Hyderabad, INDIA	Professor of Chemistry, Head, Centre for Chemical Sciences and Technology, IST, JNTUH	2014	Present
3	Jawaharlal Nehru Technological University Hyderabad, INDIA	Professor of Chemistry	2010	Present
4	MNR PG College, kukatpally, Hyderabad	Principal and Director of the P.G. Centre	2007	2008
5	A.V.College P.G. Centre, Hyderabad	Lecturer & Head, P.G. Department Of Chemistry	1992	2007

Details of the Ph.D. Work

Title : “Synthesis of Novel Thieno, Triazolothiadiazepino, Benzoxazepino, Benzo-

thiazepino, Benzothiazino Quinolinones and their Physiological Activity”.

Guide : Prof. M. Darbarwar (Professor of Chemistry (Retd), former HOD and BOS, Department of Chemistry, Osmania University)

Institute : Department of Chemistry, Osmania University, Hyderabad, T.S.

Number of Publications: 150

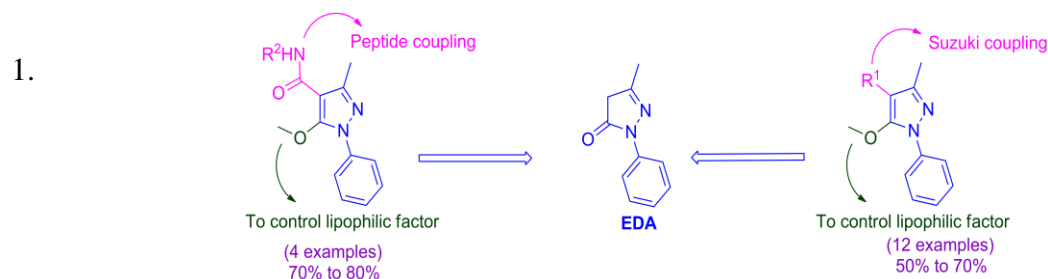
Brief Description of Ph.D. Work: (200 words)

Quinolones with heterocyclic systems, annelated to 3, 4 positions are known to be associated with varied physiological properties like antipyretic, analgesic, anti inflammatory, anticoagulant, antibacterial activities. As a part of Ph.D work, a number of new heterocycles viz., alkyl 4,5-dihydro(5H)-4-oxothieno[3,2-c]quinoloin-2-carboxylates, quino[4,3-b][1,5]benzoxazepin-6(5H)-ones and benzothiazepin-6(5H)-ones, 5H-quino[3,4-b][1,4]benzothiazin-6(12H)-ones, 10-aryl [1,2,4]triazolo[3'4';2,3][1,3,4]thiadiazepino[6,7-c]quinolin-6(5H)-ones have been synthesized and characterised by various spectral techniques like, UV, IR, NMR, ¹H NMR, ¹³C NMR, Mass etc. All the compounds (70) were screened for anti bacterial activity and found to possess excellent potent antibacterial activity even at very low concentration like 4 mg/mL

Brief Description of Post Doctoral Work: (200 words for each) the ability of bacteria to gain resistance to drugs is an ever present challenge to the medicinal chemist and it is important to continue designing new antibacterial agents. In the drug discovery process prediction of the biology of new chemical entities is a key bottleneck. Profiling of a compound's impact on cell signaling pathways, ADME properties and cellular toxicity early in the discovery process can help to have an assurance of the final activity and minimal off target effects. The binding interactions of some of the 3, 4-heteroannelated quinolin-2-ones with DNA gyrase as well as their antibacterial activity has been critically studied and reported. These compounds are assumed to bind to inhibit the DNA Gyrase 2 of *S. aureus* in a similar fashion as ciprofloxacin does, since the compounds share structural similarity with Ciprofloxacin. The potential compounds are identified and their antibacterial activity is evaluated against *Staphylococcus aureus* and *Escherichia coli* and reported here. The binding interactions of a series of novel 3, 4-disubstituted quinolin-2-ones, oxothienoquinolines, quinobenzoxazepinones, quinobenzothiazepinones, triazolothiadiazepino quinolinones and quinobenzothiazinones with DNA Gyrase are determined and the antibacterial activity of the potential compounds are screened against *Staphylococcus aureus* and *Escherichia coli*. Among these, 1-ethyl-4-chloro-3-cyanoquinolin-2-one, 1-methyl-4-chloro-3-cyanoquinolin-2-one, and 3-amino-4, 5-dihydro-5-ethyl-4-oxothieno [3, 2-c] quinolin-2-carboxylicacid revealed good fitness score with DNA

Gyrase and exhibited promising antibacterial activity against *Staphylococcus aureus*. The heterocycles are also studied for interactions with DNA so as to evaluate anticancer properties. Surprisingly the compounds are associated with very good anticancer properties. Many new heterocycles are synthesized and screened for biological activities. Various impurities among the APIs are evaluated and characterized using advanced spectral techniques.

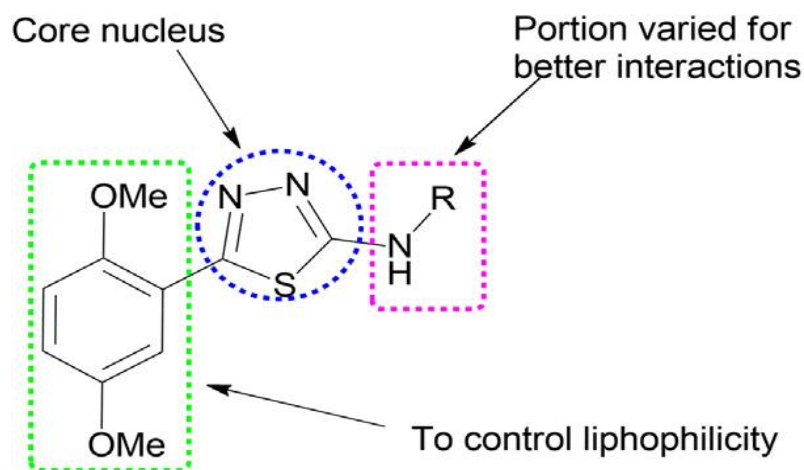
Significant Contributions from Dr. A. Jaya Shree



A series of new edaravone derivatives have been designed, synthesized, characterized using various spectroscopic techniques and screened for their *in vitro* anti-cancer, antioxidant activities and found to be associated with pronounced anti cancer activity. Condensation between ethyl acetoacetate and phenyl hydrazine furnished the parent core **EDA** in excellent yield. Subsequent Mitsunobu reaction afforded the methoxy functionalized pyrazole scaffold **3** in 80% yield. Further treatment of **3** with NBS generated the key intermediate bromo compound **4** in moderate yield. Finally the Suzuki coupling of **4** with different hetero aromatic or aromatic boronic acids catalyzed by the loading of Pd(0) complex in the presence of Cs₂CO₃ afforded **5a-l** in moderate Lithiation of **4** with n-BuLi followed by purging with carbon dioxide gas resulted in the formation of **6** in moderate yield. Effective peptide coupling reagents 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride(EDCI),1-hydroxybenzotriazole(HOBt) and N,N-diisopropyl ethylamine(DIPEA)(Hunig's base) assisted the conversion of **6** and respective amine to produce **7a-d** in excellent yields. Additionally, the target products were subjected to their molecular properties prediction and drug likeness by employing Molinspiration and Osiris property explorer toolkits.

Bioorganic & Medicinal Chemistry Letters, 26, **2016**, 2562-2568

2. A series of 2,5-disubstituted-1,3,4-thiadiazole derivatives 5a–5l, 7a–7e and 9 have been synthesised and screened for in vitro antimycobacterial activity against *Mycobacterium smegmatis* MC-155. In addition these compounds have also been screened for cytotoxic activity against cancer cell lines HT-29, MDAMB-231 by MTT colorimetric assay.



Bioorganic & Medicinal Chemistry Letters 25 (**2015**) 1398–1402

- 3) A number of pre-designed benzoxepine-1,2,3-triazole hybrids were synthesized for the first time using a Cu-catalyzed azide–alkyne cycloaddition (CuAAC) strategy. Thus, a remarkably rapid click reaction of 7,9-disubstituted IJZ)-4-IJazidomethyl)-5-chloro-2,3-dihydro benzo[b]oxepine with terminal alkynes at room temperature in DMF afforded twenty novel IJZ)-1-IJ (5-

chloro-2,3-dihydrobenzo[b]oxepin-4-yl)methyl)-1H-1,2,3-triazole derivatives in good to excellent yields. All these compounds were tested for their antibacterial properties

Med. Chem. Commun., **2015**, 6, 1612

- 4) An Efficient one-step chemo selective reduction of alkyl ketones over aryl ketones in β -diketones using LiHMDS and lithium aluminium hydride

Hydroxy ketones were synthesized in a fast, simple yet efficient one pot method from diketones by chemoselective reduction of alkyl ketones by keeping aryl ketone intact. Initially diketones were enolized using LiHMDS and later alkyl ketone was chemoselectively reduced efficiently by lithium aluminum hydride. This method produces hydroxyl ketones from the corresponding diketones in high yield. The method finds its application in the synthesis of various hydroxy ketones, which are basic skeleton of many natural products and important synthetic intermediates in the synthesis of 1,3-diols.

Tetrahedron Letters, vol. 53 (35), 4651-4653, **2012**

5) Ethyl-1-imidazole carbamate (EImC) as a carbonylating agent: Efficient synthesis of oxazolidin-2-ones from amino alcohols

Developed an efficient, simple and scalable method for the synthesis of substituted oxazolidin-2-ones from amino alcohols using ethylimidazole-1-carboxylate (EImC). Highly substituted and sterically hindered amino alcohols and amino alcohols having a free hydroxyl group were cyclized to oxazolidin-2-ones efficiently. This method produces different, highly substituted oxazolidin-2-ones in very good yield without producing any byproduct.

Synthesis of Oxazolidin-2-one

Chemistry Letters, Vol. 42, (2), p109-111, **2013**

Awards and/or other recognition received

- ❖ Recipient of **State Award for Meritorious Teacher** (Best Teacher Award) from the Government of Telangana State for the year **2016**
- ❖ Biographical-Note has been included in Asia/Pacific Who's Who, Vol XV for the year **2016**
- ❖ Elected as **Fellow of Telangana Academy of Sciences** for the year of **2016**
- ❖ Recipient of **Bharat Shiksha Ratan Award** from Global Society for Health & Educational Growth for **2016**
- ❖ Recipient of **Research Excellency Award** for the year **2015** from The Indus Global Foundation
- ❖ **Member, American Chemical Society (USA)**
- ❖ Appointed as **The Director**, Institute of Science and Technology by JNTUH, in **2014 to Present**
- ❖ Appointed as **The Head**, Centre for Chemical Science & Technology, **IST** by JNTUH in **2014 to Present**
- ❖ **Member, Academic Senate of JNTUH**
- ❖ **Member, Board of Governors** for various affiliated colleges of JNTUH
- ❖ **Member, Academic Council** of various affiliated colleges of JNTUH
- ❖ **Member, Board of Studies** for various affiliated colleges of JNTUH
- ❖ Principal Investigator for project "Synthesis of heterocyclic compounds mediated by Pd/C catalyst and evaluation of their biological activity" Sanctioned by TEQIP-II.
- ❖ Principal Investigator for project "Design and synthesis of anti-mitotic agents and their derivatives" Sanctioned by TEQIP-II.
- ❖ Worked as Principal Investigator for project "Design of Molecules for Drug Discovery using Molecular Modeling Techniques" sanctioned by Department of Science and Technology New Delhi, in chemistry.
- ❖ Delivered several extension lectures at various PG centers of Osmania University and also at JNTUH
- ❖ Osmania University awarded doctorate in Chemistry in the year 1992
- ❖ University Grants Commission awarded UGC NET Fellowship, Junior Research Fellowship during 1986-1988 and Senior Research Fellowship during 1988-1991 for doctoral studies in Osmania University, Hyderabad, INDIA.
- ❖

Professional Affiliations

- ❖ **Fellow- Telangana academy of Sciences**
- ❖ **Fellow - Indian Chemical Society (ICS) Kolkata, India (Life Member-66/99)**
- ❖ **Member- American Chemical Society**
- ❖ **Life Member - Indian Association of Chemistry Teachers (IACT), Tata Institute of Fundamental Research (TIFR), Mumbai (Life Member, LM 400)**
- ❖ **Life Member – The Indian Science Congress Association, Kolkata, India (Life Member-L24172)**
- ❖ **Life Member – Indian Council of Chemists- (Life Member, LM, 1679)**
- ❖ **Life Member Alumni Association Osmania University**

Refresher Courses conducted for Chemistry Teachers

- ❖ **Organized a three week Refresher Course on “Challenges and opportunities in Chemistry and pharmacy current scenario” Sponsored by University Grants Commission as Course Coordinator as course coordinator, during 8-8-2016 to 30-8-2016 at UGC-Academic Staff College, Jawaharlal Nehru Technological University Hyderabad (2016)**
- ❖ **Short Term Course on "Formulation development of Nano particles - Application to Pharma Industry" Sponsored by University Grants Commission is organized as Course Coordinator scheduled during 17th Aug, 2015 to 22 Aug, 2015 at UGC-Academic Staff College, Jawaharlal Nehru Technological University Hyderabad ,JNTUH (2015)**
- ❖ **Organized a three week Refresher Course on “Current trends in Teaching Methodologies related to Chemistry and pharmacy” Sponsored by University Grants Commission as Course Coordinator during 18-11-2013 to 7-12-2013 at UGC-Academic Staff College, Jawaharlal Nehru Technological University Hyderabad (2013)**
- ❖ **Organized a three week Refresher Course on “Green Chemistry in Drug Synthesis” Sponsored by University Grants Commission as Course Coordinator during 5-11-2012 to 26-12-2012 at UGC-Academic Staff College, Jawaharlal Nehru Technological University Hyderabad (2012)**
- ❖ **Organized a three week Refresher Course on “Recent advances in Chemistry and its Teaching Methodology with reference to Drug Design and Computational Techniques” Sponsored by University Grants Commission as Course Coordinator during 28-11-2011**

to 19-12-2011 at UGC-Academic Staff College, Jawaharlal Nehru Technological University Hyderabad (2011)

Conferences / Seminars organized

- 1) **Convener** for TEQIP-II sponsored International Conference on Trend Setting Innovations in Chemical Sciences & Technology-**Nature Inspired Chemistry and Engineering (TSCST-NICE 2016)** organized during 4th to 6th october 2016 at Centre for Chemical Sciences and Technology, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 2) **Convener for the work shop, Green Synthesis and Practical Rheology on july 19th 2016** at Centre for Chemical Sciences and Technology, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 3) **Coordinator for the Science and Technology, Present Scenario, Dedicated to Dr. APJ Kalam, as part of Science Day Celebrations on 29th February 2016** Institute of Science and Technology, JNTUH, Hyderabad **sponsored by TSCOST**
- 4) **Convener** for TEQIP-II sponsored Two-Day National workshop on **Technological Advances in Chemical Sciences (TACS-2015)** organized on 14th and 15th September 2015 at Centre for Chemical Sciences and Technology, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 5) **President** for TEQIP sponsored one Day work shop on **Ground Water Modeling** organized on 16th march 2015 at Centre for Water Resources, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 6) **President** for two-Day conference **Reforms and Innovations in Pharmacy Education Towards Global Standards, (RIPE-2015)** organized during 13th and 14th march 2015 at Centre for Pharmaceutical Sciences, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 7) **President** for TEQIP sponsored one Day work shop on **Action day For Rivers** organized on 13th march 2015 at Centre for Water Resources, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 8) **President** for two-Day work shop on **stepping into advanced flow reactors** organized during 25-26th February 2015 at Centre for Chemical Sciences and Technology, Institute of Science and Technology, **JNTUH, Hyderabad.**

- 9) **President** for One-Day Awareness Campaign on **Rain Water Harvesting in Urban Area for School Children** organized on 31st January **2015** at Centre for Water Resources, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 10) **Co-Convener** for the one day National Poster Symposium-III on **Advances in Organic & Medicinal Chemistry (AOMC)** jointly organized by the **Centre for Chemical Sciences & Technology (CCST)**, Institute of Science & Technology (IST), JNTUH, Hyderabad and **Royal Society of Chemistry (London)-Deccan section India** during 24th December-**2014** at Centre for Chemical Sciences & Technology (CCST), Institute of Science & Technology (IST), **JNTUH, Hyderabad.**
- 11) **President** for the **international conference on environment and energy ICEE 2014**, which is jointly organized by the Centre for environment, IST, JNTUH and department of mechanical engineering CEH during 15-17 December **2014** at Centre for Environment, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 12) **Delivered an expert lecture** at the seminar **Emerging Trends in Chemical Technology** organized by Loyola PG and Degree college, Secunderabad 500010 on **26-11-2014**
- 13) **Chaired** a session for the **3rd International Conference** on Recent Advances in Design, Development and Operation of Micro Air Vehicles (**ICRAMAV**) conducted during 05-11-2014 to 07-11-2014 at **JNTUH, Hyderabad.**
- 14) **President** for the 4th International Conference on Hydrology and watershed management (**ICHWAM**) with a focal theme on "*Ecosystem Resilience-Rural and Urban water Requirements*" organized during 29-10-2014 to 01-11-2014 at Centre for Water Resources, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 15) **Co Convener** for the **TEQUIP** sponsored International Conference on **New Dimensions in Chemistry and Chemical Technologies** organized during 23-6-2014 to 25-6-2014 at Centre for Chemical Sciences and Technology, Institute of Science and Technology, **JNTUH, Hyderabad.**
- 16) **Convener** for the **TEQUIP** sponsored workshop **Emerging trends in Chemical Sciences and Technology on 9-1-2014** at Centre for Chemical Sciences and Technology, **JNTUH, Hyderabad.**
- 17) **Member of Organizing Committee** for the **TEQUIP** sponsored workshop **Industrial Waste Water Treatment Technologies – Zero Discharge on 21-3-2014** at Centre for Chemical Sciences and Technology, **JNTUH, Hyderabad**
- 18) **Member of Advisory Committee** for organizing the national workshop on Drug Synthesis in Industry organised by the Department of Chemistry, College of Engineering, **JNTUH,**

Hyderabad, during February, 5 to 6, **2013**

- 19) **Organizing Secretary** for chemistry stream in **A.P. SCIENCE CONGRESS** which was conducted in **JNTUH, Hyderabad**, during November 18 to 20, **2010**
- 20) **President** for the conference “**Green Chemistry in Drug Synthesis**” which was organized at M.N.R.P.G. College on 29/01/2008.
- 21) **Member of Advisory Committee** for organizing the UGC sponsored state level 2 day Seminar on “**Green Chemistry**” organized by department of chemistry, A.V. College, Hyderabad on 07-12-2006 and 08-12-2006.
- 22) **Organizing Secretary and Convener** for the conference entitled “**Recent Advances in Drug Design**” conducted by P. G. Department of Chemistry, A.V.P.G. Centre, Hyderabad on 05-02-2005.

List of Papers published in National and International Journals

- 1) *Journal of Heterocyclic Chemistry*, Copper-catalysed synthesis of N-alkylated 2-(4-substituted-1H-1,2,3-triazol-1-yl)-1H-indole-3-carbaldehyde by step-wise and one-pot three-component Huisgen's 1,3-dipolar cycloaddition reaction, Vijay Kumar Reddy Avula, Swetha Vallela, Jaya Shree Anireddy, Naga Raju Chamarthi, DOI:10.1002/jhet.2918, accepted, 24th april **2017**
- 2) *Journal of Heterocyclic Chemistry*, A Green Synthesis of 2-Amino-4-(9H-carbazole-3-yl)thiophene-3-carbonitriles by a Step-wise and One-pot Three-component Gewald Reaction, Vijay Kumar Reddy Avula, Swetha Vallela, Jaya Shree Anireddy, Naga Raju Chamarthi **early view** DOI: 10.1002/jhet.2847, March, **2017**
- 3) *Journal of Heterocyclic Chemistry*, *p*-TsOH-mediated, Versatile, and Efficient Approach for the Synthesis of Triazolyl-Carbazoles from Nitrovinylcarbazoles and Azide via 1, 3-Dipolar Cycloaddition, Vijay Kumar Reddy Avula, Swetha Vallela, Jaya Shree Anireddy, Naga Raju Chamarthi, Volume 54, Issue 2, pages 1361–1368, 2017
- 4) *Synthesis*, An asymmetric synthesis of a drug candidate: Rosuvastatin calcium, Naresh Vempala, S. Koteswar Rao, A. Jaya Shree and Braja S Pradhan. Accepted **2016**
- 5) *Bioorganic & Medicinal Chemistry Letters*, Synthesis, molecular properties prediction and anticancer, antioxidant evaluation of new edaravone derivatives, [Naveen Polkam](#), [Venkat Ragavan Ramaswamy](#), [Parsharamulu Rayam](#), [Tejeswara Rao Allaka](#), [Hasitha](#)

[Shilpa Anantaraju](#), [Sriram Dharmarajan](#), [Yogeeswari Perumal](#), [Durgaiyah Gandamalla](#), [Narsimha Reddy Yellu](#), [Sridhar Balasubramanian](#), [Jaya Shree Anireddy](#), 26, 2016, 2562-2568.

- 6) *Tetrahedron Letters*, Design and synthesis of diaziridinyl quinone thiadiazole hybrids via nitrile sulfide cycloaddition reaction as a key step, Anjaiah Aitha, Satyanarayana Yennam, Manoranjan Behera, **Jaya Shree Anireddy**, 57, 2016, 1507–1510
- 7) *J. Chem. Sci.*, An efficient synthesis of 8-substituted Odoratine derivatives by the Suzuki coupling reaction, P Ravi kumar, C Balakrishna, B Murali, Ramakrishna Gudipati, Prasanta Khota, Avinash B Chaudhary, A Jaya Shree, Satyanarayana Yennam and Manoranjan Behera, Vol. 128, No. 3, March 2016, pp. 441–450. DOI 10.1007/s12039-016-1042-z
- 8) *Medicinal Chemistry Research*, Design, synthesis and biological activity evaluation of novel pefloxacin derivatives as potential antibacterial agents, Tejeswara Rao Allaka, Naveen Polkam, Parsharamulu Rayam, Janardhan Sridhara, Narahari Sastry Garikapati, Sudha Sravanti Kotapalli, Ramesh Ummanni and **Jaya Shree Anireddy**, 25(5), 2016, 977-993.
- 9) *Bioorganic & Medicinal Chemistry Letters*, Synthesis, molecular properties prediction of 7-substituted fluoroquinolone citrate conjugates as powerful antibacterial and anticancer agents, Tejeswara Rao Allaka, Naveen Polkam, Kalyani Chepuri, Lakshmi Narasu Mangamoori and **Jaya Shree Anireddy**, Communicated, 2016.
- 10) *Journal of Chromatographic Science*, Development and Validation of a Novel Stability-Indicating RP-HPLC Method for the Simultaneous Determination of Related Substances of Ketoprofen and Omeprazole in Combined Capsule Dosage Form, Srinivasarao Koppala, V. Ranga reddy, and **Jaya Shree Anireddy**, 54, 2016, 765-775
- 11) *Journal of Chromatographic Science*, Development and validation of a new stability indicating RP-UPLC method for the quantitative determination of Bromfenac sodium and its impurities in an ophthalmic dosage form Srinivasarao Koppala, V. Ranga reddy, and **Jaya Shree Anireddy**, 2016, accepted
- 12) *Chromatographia*, User friendly and efficient HPLC method development and validation for quantitative determination of Enalapril maleate and its impurities in Enalapril tablets, Srinivasarao Koppala, V. Ranga reddy, and Jaya Shree Anireddy communicated, 2016
- 13) *Oriental Journal of Chemistry*, Synthesis of Novel 2-butyl-1H-benzo [4, 5] imidazo [1, 2-a] imidazo [4, 5-e] Pyridine-5-carbonitrile Derivatives and Evaluation of their Anticancer

- Activity, Achanta Venkata Hanumantha Rao, Rayam Parsharamulu, Malthum Shankaraiah, Vadali Lakshman Rao and **Anireddy Jaya Shree**, Vol. 32(3), **2016**, 1-7.
- 14) *Der Pharma Chemica*, L-Proline catalyzed one pot synthesis of novel 1,4-dihydro pyridine derivatives, A. V. Hanumantha Rao, A. Tejeswara Rao, V. Lakshman Rao and **A. Jaya Shree**, 8(8), **2016**, 161-164.
- 15) *Rasayan J. Chem.*, Synthesis and anti-cancer activity of novel 3-aryl thiophene-2-carbaldehydes and their aryl/ heteroaryl chalcone derivatives V.Venkataramireddy, M. Shankaraiah, A.Tejeswara Rao, Ch. Kalyani, M. Lakshmi Narasu, Ravi Varala and **A. Jayashree**, Vol. 9, No. 1, **2016**, 31 – 39.
- 16) *Analytical Chemistry an Indian Journal*, Identification, isolation, characterization and quantification of a new impurity in Rosuvastatin calcium tablet dosage form Srinivasarao Koppala, V. Ranga reddy, and **Jaya Shree Anireddy** 16(10), **2016**, 417-432.
- 17) *Int. J. Pharm. Sci. Rev. Res.*, Synthesis and Biological Evaluation of Novel 1,3,4-Thiadiazole Heterocyclic Derivatives as Novel Anti-Microbial Agents. Balusu Phani Kumar, Tejaswararao Allaka, Vellanki Siva Ram Prasad, **Anireddy Jaya Shree**, **2016**, 37(1), 200-204.
- 18) *Rasayan J. Chem.*, development and validation of a stability indicating RP-HPLC method for the estimation of erlotinib impurities by qbd approach P. A. Kumar, Y. R. Kumar and **A. Jaya Shree**, 213_Vol.9, No.2, 180-188, April-June, **2016**, RJC-1405
- 19) *Bioorganic & Medicinal Chemistry Letters*, Synthesis and biological evaluation of New 5-(2,5-dimethoxyphenyl)-1,3,4-Thiadiazole-2-amino derivatives as potent anti mycobacterial and anticancer agents, Polkam Naveen, Rayam Parsharamulu, Yennam Satyanarayana, P. Yogeewari, Ramesh Ummanni and **Jayashree Anireddy**, 25, **2015**, 1398-1402.
- 20) *Med. Chem. Commun.*, Novel benzoxepine-1,2,3-triazole hybrids: synthesis and pharmacological evaluation as potential antibacterial and anticancer agents, Naveen Kuntala, Jhonsee Rani Telu, Venkanna Banothu, Suresh Babu Nallapati, **Jaya Shree Anireddy** and Sarbani Pal, 6, **2015**, 1612-1619.
- 21) *Medicinal Chemistry Research*, Design, synthesis and biological activity evaluation of novel pefloxacin derivatives as potential antibacterial agents, Tejeswara Rao Allaka, Naveen Polkam, Parsharamulu Rayam, Janardhan Sridhara, Narahari Sastry Garikapati, Sudha Sravanti Kotapalli, Ramesh Ummanni and **Jaya Shree Anireddy**, 25(5), **2016**, 977-993.

- 22) *Rasayan J. Chem.*, Synthesis and anti-cancer activity of novel 3-aryl thiophene-2-carbaldehydes and their Aryl/heteroaryl chalcone derivatives, V. Venkataramireddy, M. Shankaraiah, A. Tejeswara Rao, Ch. Kalyani, M. Lakshmi Narasu, Ravi Varala and **A. Jayashree**, 9 (1), **2016**, 31–39.
- 23) *Russian Journal of General Chemistry*, Synthesis of Novel 2,4,6-Trisubstituted Pyrimidine Derivatives and Their in vitro Antimicrobial Activity, D. Ashok, R. Suneel Kumar, D. Mohan Gandhi, and A. Jayashree, 2016, Vol. 86, No. 6, pp. 1396–1404. © Pleiades Publishing, Ltd., 2016.
- 24) *Organic Communications*, Synthesis and Antibacterial Activity Studies of 6-Methoxyquinazoline-Triazole Hybrid Derivatives, Venkataramireddy V, Tejeswararao A, **Jayashree A** and Ravi Varala, 8 (4), **2015**, 98-108.
- 25) *Bioorganic & Medicinal Chemistry Letters*, Synthesis, molecular properties prediction of 7-substituted fluoroquinolone citrate conjugates as powerful antibacterial and anticancer agents, Tejeswara Rao Allaka, Naveen Polkam, Kalyani Chepuri, Lakshmi Narasu Mangamoori and **Jaya Shree Anireddy**, Communicated, **2016**.
- 26) *Chromatographia*, Development of an Ultra-High Performance Method on Superficially Porous Stationary Phase for the Determination of Related Substances in Pitavastatin Calcium by HPLC: Science and Risk-Based Approach for QC Test Method B. Hariram, R. Suresh Kumar, **Anireddy Jaya Shree**, Dama Venugopala Rao, L. Kalyanaraman, Katkam Srinivas, 78, **2015**, 1017-1029.
- 27) *Journal of Pharmacy Research*, Synthesis and Biological Activity of Novel Acyl Hydrazone Derivatives of 3-(4,5-diphenyl-1,3-oxazol-2-yl) propanoic acid as Anticancer, Analgesic and Anti-inflammatory Agents, Parsharamulu Rayam, **Jaya Shree Anireddy**, Naveen Polkam, Tejeswara Rao Allaka, Kalyani Chepuri and Mukharjee Nadendla, 9(2), **2015**, 157-164.
- 28) *Journal of Pharmacy Research*, Development and validation of stability indicating UPLC method for the quantitative determination of related substances in moxifloxacin hydrochloride B. Lakshmi Sushma, G. Madhusudhan, **A. Jaya Shree**, P. Srinivasulu, Y. Koti Reddy, 9(4), **2015**, 211-216.
- 29) *Oriental Journal of Chemistry*, Analytical Characterization of two new related impurities of Diltiazem by High Resolution Mass spectrometry and NMR Techniques N. Jagadeesh, Y. Ravindra kumar, Sandeep mohonty, T. Srinivasarao, **A. Jayashree**, 31 (3), **2015**, 1801-1809.

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- 87) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *PEG-600 Mediated phase transfer catalyst free N-alkylations of 2-butyl-5-chloro-1H-imidazole-4-carbaldehyde* is presented.
- 88) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Synthesis and Biological activity of 3,4-dihydropyrimidin-2(1H)-ones using Cerium chloride as a catalyst* is presented.
- 89) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Synthesis, characterization and biological activity of 1, 2, 3-triazoles derivatives of Etodolac* is presented.
- 90) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Cyclohexane spacer for linking 4-chromanone frameworks: A new strategy for the identification of novel bis molecules as potent inhibitors of*

mycobacterium tuberculosis is presented.

- 91) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Identification and Characterization of Novel Potential Impurities of Bis Dioxopiperazine (Dexrozaxane)* is presented.
- 92) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Identification, synthesis and charecterization of related substances of saxagliptin hydrochloride* is presented.
- 93) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Identification, Characterization and synthesis of two new related impurities of Diltiazem* is presented.
- 94) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Chiral chromatographic separation for isomers of Rosuvastatin calcium and its spectral identification data* is presented.
- 95) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Stereo selective synthesis for potential isomers of Ticagrelor key starting material; 2-(((3aR,4S,6R,6aS)-6-amino-2,2-dimethyltetrahydro-4H-cyclopenta[d][1,3]dioxol-4-yl)oxy)ethan-1-ol(2R,3R)-2,3-dihydroxy succinate* is presented.
- 96) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *A Novel Synthesis of 1-Aryl-Aza-Isoflavone via the Enaminone and Its Derivatization using the Cross Coupling Reaction* is presented.
- 97) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for

- Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *A Quality by Design (QbD) Based Method Development for the Determination of Impurities in Erlotinib API and Erlotinib formulations* is presented.
- 98) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Ethyl-1-imidazole carbamate (ElmC) as a carbonylating agent: Efficient synthesis of oxazolidine-2-ones from amino alcohols* is presented.
- 99) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Design, synthesis and biological evaluation of fluoroquinolone citrate conjugates as HDAC inhibitors* is presented.
- 100) International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (**TSCST-API 2015**) organized by Centre for Chemical Sciences and Technology, IST at **JNTUH** on 16th–18th December **2015** presented a paper entitled *Synthesis and Antibacterial Activity studies of 6-methoxyquinazoline-triazole and its derivatives* is presented.
- 101) **National Poster Symposium on Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Synthesis, characterization and biological activity of some novel 1, 3, 4-oxadiazole derivatives* is presented.
- 102) **National Poster Symposium on Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper entitled *Synthesis and biological evaluation of β -carboline oxadiazole hybrid molecules* is presented.
- 103) **National Poster Symposium on Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Synthesis of norfloxacin analogues-histone deacetylase inhibitors* is presented.
- 104) **National Poster Symposium in Advances in Organic and Medicinal**

- Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Isolation of active bio-marker from natural resources and their standardization methods with chemical markers and therapeutic activity* is presented.
- 105) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Copper-mediated direct arylation of 1, 3, 4-oxadiazoles* is presented.
- 106) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Synthesis and antibacterial activity studies of 2-aryl benzothiazoles and its derivatives* is presented.
- 107) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Facile and short synthesis of (\pm) 1-hydroxy indolizidine and (\pm) coniceine from picolinic acid ethyl ester via cross claisen condensation* is presented.
- 108) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Quantification of piperazine content in ciprofloxacin hydrochloride using chemical derivatization method by HPLC* is presented.
- 109) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December **2014** presented a paper entitled *Identification and structural elucidation of unknown impurities in pharmaceutical products; case study: raloxifene* is presented.
- 110) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on

24th December 2014 presented a paper entitled *Synthesis and characterization of sumatriptan and rizatriptan using orthophosphoric acid for cyclisation of indole ring* is presented.

111) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper entitled *Design, synthesis and in vitro anticancer evolution of s-triazines* is presented.

112) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper entitled *A convenient synthesis of 2,5-di(aziridin-1-yl)-3-aryl-6-(5-phenylisoxazol-3-yl)cyclohexa-2,5-diene-1,4-diones* is presented.

113) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper Entitled *development and validation of stability indicating HPLC method for simultaneous estimation of telmisartan and hydrochlorothiazide related substances in telmisartan/hydrochloro thiazide tablets* is presented.

114) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper entitled *Design, synthesis and spectral characterization of 4-(thiazol-2-yl)pyridine-2-carboxamide derivatives* is presented.

115) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper entitled *An efficient and scalable synthesis of fosamprenavir calcium* is presented.

116) **National Poster Symposium in Advances in Organic and Medicinal Chemistry-2014 (AOMC-2014)** conducted by Centre for Chemical Sciences and Technology & Royal Society of Chemistry (London)-Deccan Section, IST at JNTUH on 24th December 2014 presented a paper entitled *Comproportionation based Cu(I) catalyzed*

[3+2] cycloaddition of nitriles and sodium azide is presented.

- 117) **International Conference on New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry**, Organized by CCST, IST, JNTUH during 23rd – 25th June 2014 presented a paper entitled *Synthesis of combretastatin analogues by using nano particles* is presented.
- 118) **International Conference on New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry**, Organized by CCST, IST, JNTUH during 23rd – 25th June 2014 presented a paper entitled *Synthesis, antibacterial and in vitro anti proliferative activity of triazolobenzoxepine derivatives* is presented.
- 119) **International Conference on New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry**, Organized by CCST, IST, JNTUH during 23rd – 25th June 2014 presented a paper entitled *Cyclisation of indoles by using orthophosphoric acid in sumatriptan and rizatriptan* is presented.
- 120) **International Conference on New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry**, Organized by CCST, IST, JNTUH during 23rd – 25th June 2014 presented a paper entitled *Development and validation of RP-HPLC method for simultaneous determination of metformin and miglitol in bulk and pharmaceutical formulation* is presented.
- 121) **International Conference on New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry**, Organized by CCST, IST, JNTUH during 23rd – 25th June 2014 presented a paper entitled *Chemical investigation studies and determination of bioactive components of plectranthus bishopianus by rp-hplc and lc-ms(ion-trap) analysis* is presented.
- 122) **International Conference on New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry**, Organized by CCST, IST, JNTUH during 23rd – 25th June 2014 presented a paper entitled *Synthesis, characterisation and biological activity of some citrate composites of novel fluoroquinolone triazole derivatives*.
- 123) **International Conference on Chemistry for Sustainable Development: Indian Perspective** Held at **Abudhabi, Dubai**, during 10th to 14th 2014 organised by Indian Council of Chemists, presented a paper entitled *Total synthesis of agelanesin-a marine natural product and a potential cytotoxic agent* on 11th June 2014.
- 124) **International Conference on Drugs for the Future Infectious Diseases-Anti microbial Drug Discovery–challenges and Perspectives DFID-2014** held at NIPER,

Hyderabad, during march 27-28, **2014**, a paper entitled *Synthesis and characterization of novel 2-(3,5-dimethoxyphenyl)-2-(piperazenyl)-1-(pyridine-3yl)etanone-and its reductive alkylation analogues* is presented.

- 125) **Nature inspired initiatives in Chemical Trends** at CSIR-IICT, Hyderabad, organised by CSIR-Indian Institute of Chemical Technology Tarnaka, Hyderabad, A.P., India during March 2-5, **2014** presented a paper on *Synthesis of new bis-1,2,3-triazole-linked sugar hybrids* is presented on 2-3-2014.
- 126) **Nature inspired initiatives in Chemical Trends** at CSIR-IICT, Hyderabad, India Organised by CSIR-Indian Institute of Chemical Technology Tarnaka, Hyderabad, A.P., India during March 2-5, **2014** presented a paper on *Microwave assisted solvent-free synthesis of substituted 1H-Pyrazoly1-4-y1-2,3-dihydrobenzo[b][1,4] oxazepin-4-y1)phenols and their antimicrobial activity* is presented on 3-3-2014.
- 127) **Nature inspired initiatives in Chemical Trends** at CSIR-IICT, Hyderabad, India Organised by CSIR-Indian Institute of Chemical Technology Tarnaka, Hyderabad, A.P., India during March 2-5, **2014** presented a paper on *Synthesis and characterization of novel 2-(3,5-dimethoxyphenyl)-2-(piperazen-1yl)-1-(pyridine-3-y1) ethanone and its reductive alkylation analogues* is presented.
- 128) **20th ISCB International Conference (ISCBC-2014) on Chemistry and medicinal plants in translational medicine for healthcare** at Department of Chemistry, University of Delhi, during March 1-4, **2014** presented a paper entitled *An efficient one-step, chemo selective reduction of alkyl ketones over aryl ketones in β -diketones using LIHMDS and lithium aluminium hydride* is presented.
- 129) **16th CRSI chemical research society of India, national Chemistry Symposium, IIT Bombay**, Mumbai, held during February 7-9, **2014** presented a paper entitled, *A novel synthesis of isoxazole tethered quinone-amino acid hybrids via 1,3-dipolar cycloaddition reaction as the key step* is presented on 8-2-2014.
- 130) **National conference on Frontiers of chemical research – 2013 (NCFRCR - 2013)** Organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *towards the total Synthesis of hyrtiocarboline and its novel derivatives* is presented on 25-11-2013.
- 131) **National conference on Frontiers of chemical research – 2013 (NCFRCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Synthesis of novel quinone containing alkylating agents dna alkylation by aziridinyl quinones* is presented on 25-11-2013.

- 132) **National conference on Frontiers of chemical research (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Synthesis, characterization and antimicrobial activity of pyrazolo [3,4-d] pyrimidines* is presented on 25-11-2013.
- 133) **National conference on Frontiers of chemical research – 2013 (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Synthesis of quinoline based novel acyl hydrazones and its biological evaluation* is presented on 25-11-2013.
- 134) **National conference on Frontiers of chemical research – 2013 (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Synthesis of oxaprozin acid acyl hydrazone derivatives* is presented on 25-11-2013.
- 135) **National conference on Frontiers of chemical research – 2013 (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Synthesis of a series of novel 1,4-disubstituted-1,2,3-triazole compounds bearing D-Glucose derivative by [3+2] cycloaddition* is presented on 26-11-2013.
- 136) **National conference on Frontiers of chemical research – 2013 (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Ethyl imidazole-1-carboxylate (elm) as a carbonylating agent: efficient synthesis of oxazolidin-2-ones from amino alcohols* is presented on 26-11-2013.
- 137) **National conference on Frontiers of chemical research – 2013 (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *Preparation of 3-(3-methoxyphenyl)thiophene-2-carbaldehyde and its chalcone derivatives, and their biological activities* is presented on 26-11-2013.
- 138) **National conference on Frontiers of chemical research – 2013 (NCFCR - 2013)** organized at department of chemistry, CEH, JNTUH during 25th and 26th October 2013 presented a paper entitled *RP-HPLC method for the quantification of cladribine in pharmaceutical formulation* is presented on 26-11-2013.
- 139) **National Poster Symposium on Organic/Medicinal Chemistry organized by Royal Society of Chemistry Deccan Chapter, Hyderabad** at CSIR-Indian Institute of Chemical Technology, Hyderabad held on 15-12-2012 a poster entitled *Synthesis of odoratine and its derivatives by suzuki coupling reaction as the key step* is presented on 15-12-2012.

- 140) **National Poster Symposium on Organic/Medicinal Chemistry organized by Royal Society of Chemistry Deccan Chapter, Hyderabad** at CSIR-Indian Institute of Chemical Technology, Hyderabad held on 15-12-2012 a poster entitled *Synthesis of 1,4-disubstituted triazole derivatives in water medium by click chemistry approach and their pharmacological evaluation as potential cytotoxic agents* is presented.
- 141) **National Poster Symposium on Organic/Medicinal Chemistry organized by Royal Society of Chemistry Deccan Chapter, Hyderabad** at CSIR-Indian Institute of Chemical Technology, Hyderabad held on 15-12-2012 a poster entitled *One pot synthesis and antimicrobial activity of 1,4-disubstituted triazole derivatives* is presented.
- 142) **National Poster Symposium on Organic/Medicinal Chemistry organized by Royal Society of Chemistry Deccan Chapter, Hyderabad** at CSIR-Indian Institute of Chemical Technology, Hyderabad held on 15-12-2012 a poster entitled *An efficient one-step, chemo selective reduction of alkyl ketones over aryl ketones in β -diketones using LiHMDS and lithium aluminium hydride* is presented.
- 143) **International Symposium on Chemistry and Chemical Biology of Natural Products (CCBNP-2012)** organized by CSIR-Indian Institute of Chemical Technology, Hyderabad held during 2-4 August **2012** a paper entitled *Design and development of combretastatin based antitumor agents* is presented on 3rd august **2012**.
- 144) **International Symposium on Chemistry and Chemical Biology of Natural Products (CCBNP-2012)** organized by CSIR-Indian Institute of Chemical Technology, Hyderabad held during 2-4 August **2012** a paper entitled *Synthesis of novel tetracyclic acridone carboxamides as cytotoxic and dna binding agents* is presented on 3rd august **2012**.
- 145) **International Symposium on Chemistry and Chemical Biology of Natural Products (CCBNP - 2012)** organized by CSIR-Indian Institute of Chemical Technology, Hyderabad held during 2-4 August **2012** a paper entitled *Synthesis of novel isoxazole-benzoquinone hybrids via 1,3-dipolar cycloaddition reaction as a key step* is presented on 3rd august **2012**
- 146) **International Symposium on Chemistry and Chemical Biology of Natural Products (CCBNP - 2012)** organized by CSIR-Indian Institute of Chemical Technology, Hyderabad held during 2-4 August **2012** a paper entitled *Synthesis, characterization and biological activity of some citrate composites of novel fluoroquinolone triazoles* is presented on 3rd august **2012**.

- 147) **National Conference on Latest Trends in Emerging Materials (NCLTEM - 2012)** organized by **Department of Physics** JNTUH College of Engineering, Jawaharlal Nehru Technological University, Hyderabad held during 20th & 21st January **2012** a paper entitled *Gold nano conjugates in drug delivery systems* is presented on 21st January **2012**
- 148) **Recent Advances in Heterocyclic Chemistry (NSRAHC - 2011)** organized by Department of Chemistry, JNTU College of Engineering held during 4th, 5th November **2011** a paper entitled *An expedient entry to 1,4-disubstituted triazole derivatives via click chemistry* is presented on 4th November **2011**.
- 149) **Recent Advances in Heterocyclic Chemistry (NSRAHC - 2011)** organized by Department of Chemistry, JNTU College of Engineering held during 4th-5th November **2011** a paper entitled *Synthesis and characterization of novel molecules starting from various NSAIDS and evaluation of their biological activities* is presented on 4th November **2011**.
- 150) **Recent Advances in Heterocyclic Chemistry (NSRAHC - 2011)** organized by Department of Chemistry, JNTU College of Engineering held during 4th - 5th November **2011** a paper entitled *A novel class of orally active non-peptide bradykinin β -receptor antagonists construction of the basic frame work-ii* is presented on 5th November **2011**.
- 151) **Recent Advances in Heterocyclic Chemistry (NSRAHC - 2011)** organized by Department of Chemistry, JNTU College of Engineering held during 4th - 5th November **2011** a paper entitled *Synthesis and characterization of novel fluoroquinolone molecules and evaluation of their biological activities* is presented on 5th November **2011**.
- 152) **A. P. Science Congress and Annual convention of Andhra Pradesh Akademi of Sciences** Organized by Jawaharlal Nehru Technological University Hyderabad and Andhra Pradesh Academy of Sciences Andhra Pradesh held during 18-20 November, **2010** a paper entitled *a computational exploration of the natural product chemical space and its impact on drug discovery* is presented (**oral**) on 20th November **2010**.
- 153) **A. P. Science Congress and Annual convention of Andhra Pradesh Akademi of Sciences** Organized by Jawaharlal Nehru Technological University Hyderabad and Andhra Pradesh Academy of Sciences Andhra Pradesh held during 18-20 November, **2010** a paper entitled *Synthesis of 3-amino-4,5-dihydro(5h)4-oxothieno[3,2-c] quinoline-2-carboxylicacids and their alkyl esters* is presented on 20th November **2010**.
- 154) **A. P. Science Congress and Annual convention of Andhra Pradesh Akademi of Sciences** Organized by Jawaharlal Nehru Technological University Hyderabad and Andhra Pradesh Academy of Sciences Andhra Pradesh held during 18-20 November,

- 2010 a paper entitled *Antibacterial activity of some novel 3,4-hetero annelated quinolin-2-ones* is presented on 19th November 2010.
- 155) **A. P. Science Congress and Annual convention of Andhra Pradesh Akademi of Sciences** Organized by Jawaharlal Nehru Technological University Hyderabad and Andhra Pradesh Academy of Sciences Andhra Pradesh held during 18-20 November, 2010 a paper entitled *One pot synthesis of 1,2,3-oxathiazino [5,6-c] quinolin-5(6H)-one-2,2-dioxides* is Presented on 19th November 2010.
- 156) **International conference on bioequivalence & bioavailability 2010 (Biobío)** An international conference organized by OMICS publishing group held during march 2010, at Hyderabad, India, a paper entitled is "natural product domain a good hunting hub in the navigation of drug like and drug molecules" is presented (**oral**) on 3rd march, 2010.
- 157) **International Drug Discovery science and technology**, held at **Shanghai, China** during October, 22-25, 2009, a Paper entitled *A computational exploration of the natural product chemical space and its impact on drug discovery* is presented (**oral**) on 23rd October 2009.
- 158) **Joint international conference on advances in organic chemistry and chemical biology** organized by **Indian Institute of Chemical technology** and **American Chemical Society**, Presented a paper entitled "Synthesis of 4,5-dihydro (5H)-4-oxothieno [3,2-c] quinoline-2-carboxylic acids and their alkyl esters" during January 11th-12th, 2006.
- 159) **209th American Chemical Society** held at Anaheim, **California, USA**, Paper entitled *Synthesis and antibacterial activity of 3-amino-4,5-dihydro(5H)-4-oxothieno[3,2-c]quinoline-2-carboxylic acids and their alkyl esters* was accepted for **oral** presented during on April 2-6, 1995.
- 160) **58th annual session of National Academy of Sciences**, held at Jammu, India presented a paper on *one pot synthesis of quinolin [3,4-b][1,4] benzothiazin-6-ones* at 5-7 November, 1988.

Patents Filed

- 1) Novel fluoroquinolone compounds, Process for preparation and activity, **Jaya Shree Anireddy**, Tejeswara Rao Allaka, Kalyan Chakravarthy Akula, Laxmi Narsimha Venu Gopal Krishna Ramavarapu. Applied through Government of India Patent office with Application No. TEMP/E-1/14125/2016-CHE, **05/05/2016**.

- 2) Isolation, characterization and biological evaluation of novel components of *plectranthus bishopianus* as potent antimicrobial, antioxidant and cytotoxic agents. Jaya Shree Anireddy, Vinodh Guvvala, Naveen Polkam, Ranjitha Galla, Kalyan Chakravarthy Akula, Laxmi Narsimha Venu Gopal Krishna Ramavarapu. Applied through Government of India Patent office with Application No. TEMP/E-1/22237/2016-CHE, **09/07/2016**.
- 3) A Practical Synthesis of 9-[2-(R)-hydroxy propyl adenine and its use in synthesis of anti-HIV drugs, Braja sundar Pradhan, Naresh Vempala, **A. Jaya Shree**, applied through **CII** on 28-1-2015. Patent Application No. 1786/MUM/2015 dated 5 May 2015.

Books/Reports/Chapters/General articles etc

S.No	Title	Author's Name	Publisher	Year of Publication
1	International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (TSCST-NICE- 2016)	Prof. A. Jaya Shree	Spectrum Publications	2016
2	International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (TSCST-API 2015)	Prof. A. Jaya Shree	Spectrum Medico Pharma Publishers	2015
3	Quinolinones, Modeling and Biological Activity	Prof. A. Jaya Shree	Spectrum Medico Pharma Publishers	2015

List of projects

Sl. No	Title of the project	Total cost in lakhs	Agency	Present status	Role (PI)
1	Design of biologically active molecules using molecular modeling techniques	16.48	DST	Completed	Principal Investigator
2	Synthesis of heterocyclic compounds mediated by Pd/C catalyst and evaluation of their biological activity	10.00	TEQIP World bank	Ongoing	Principal Investigator
3	Design and synthesis of anti-mitotic agents and their	10.00	TEQIP World bank	Ongoing	Principal Investigator

	derivatives				
4	FIST	50 .00	DST	Ongoing	Coordinator for FIST for the Department
5	TEQIP II	1250.00	World Bank	Ongoing	Head (Director) of the Institution and member secretary for the project