CURRICULUM VITAE

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EDUCATION

- Post-Doctoral Associate (2007–2008), Talca University, Chile
- Ph.D. (2002–2007), CSIR-IICT, Hyderabad, India
- M.Sc (1998–2000), Kakatiya University, India
- B.Sc (1993–1996), Kakatiya University, India

PROFESSIONAL EXPERIENCE

- Associate Professor (July 2016 – till date), NIPER-Hyderabad
- Assistant Professor (August 2009 – July 2016), NIPER-Hyderabad
- Research Associate (March to August 2009), CSIR-IICT, Hyderabad
- Visiting Scientist (January to February 2008), UNICAMP, Brazil
- Lecturer (2000–2002), Shathavahana Degree College, Affiliated to Kakatiya University
- Member (from 2011), External Examiner Panel, Kakatiya University
- Member (from 2014), External Examiner Panel, Telangana University
- Academic Advisory board member (from 2015), RIPER, Anantapur, JNTIA, India
- Member in Board of Studies (BoS), Pharmacy Department, JNTUA, Ananthapur, Andhra Pradesh
- Member in Board of Studies (BoS), RIPER, Anantapur, JNTIA, India
- Member (CFO Committee, from 2014-2018) in Telangana State Pollution Control Board (TSPCB)
- Member (Task Force Committee, from 2018 – 2022) in Telangana State Pollution Control Board (TSPCB)
- Member in Board of Studies (BoS), Pharmacy Department, Krishna University
- Member of Board of Studies (BoS), Department of Pharmaceutical Chemistry, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu
- Member in Senate Committee, Annamacharya College of Pharmacy, Rajampet, Andhra Pradesh
- Life time membership – Chemical Research Society of India (CRSI-India)
- Editorial Board Member – Bioorganic Chemistry, Elsevier Publishers, UK

FELLOWSHIPS/GRANTS

- ICMR grant 2023
- Young Scientist Research Grant, SERB, DST, 2015
- Research Project Award: "FONDECYT INCIATION PROJECT" (1 million US$), rated 3rd Rank, Chile
- SRF (2004–2007) in Chemical Sciences, CSIR, India
- JRF (2002–2004) in Chemical Sciences, CSIR, India

AWARDS/HONORS

- Fellow of Telangana Academy of Sciences (FTASc), Year 2021
- Best Research Scientist Award from NIPER-Hyderabad, Year 2016
- Associate Fellow of A.P. Akademi of Sciences, Year 2014
- OPPI Young Scientist Award - 2010 from Organisation of Pharmaceutical Producers of India

RESEARCH COLLABORATIONS

- Prof. Leonardo S. Santos, Talca University, Chile
- Dr. Sathish Manda, Catholic University of Maule, Talca, Chile
- Dr. Suresh K. Bhargava, RMIT, Australia
- Prof. Dr. Marcos N. Eberlin, University of CAMPINUS, Brazil
- Dr. Narayana Nagesh, CSIR-CCMB, Hyderabad, India

Research Interests

- Design and synthesis of New Chemical Entities (NCEs) of anticancer agents in 'Drug Discovery'
- Biological targets: Multi-kinase inhibitors, DNA minor groove, intercalators, Tubuline inhibition, topo-I & II, CDK inhibitors, etc
- Asymmetric synthesis
- C-H Activation reactions, one-pot, multi-component and cascade reactions
- Development of alternative sustainable greener methods in pharmaceutical chemistry
- Exploration of new synthetic methodologies and studying their mechanisms by "online ESI-MS/MS"

Research Group

Project Research Scientist-I:

Dr. Rajkumar Reddyrajula
Project Research Scientist Position-I, ICMR grant

Present PhD Scholars:

Adarsh Jha
Batch: 2023

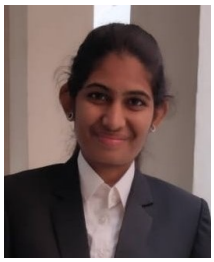
Ghule Shailendra Shivaji
Batch: 2023

Kshirsagar Prasad Suhas
Batch: 2023

Shivam Gupta
Batch: 2023

Ms. Pooja Kumari
Batch: 2022

Ms. Swetha Singitham
Batch: 2022



Mrs. Mary Sravani Galla
Batch: 2021

Mr. Akshay Kumawat
Batch: 2021

Mrs. Dastari Sowmya
Batch: 2020

Mr. Mursalim Ali Khan
Batch: 2020

Mr. Durgesh G. V.
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- 129 Students have completed for their 1-year M.S (Pharm.) dissertation projects
- 7 MS (Pharm.) students are presently working for their dissertation projects

Research Publications

2024

1. Design and synthesis of β-carboline-benzofuran based hybrids as antibacterial agents against Staphylococcus aureus; Khan, M. A.; Parida, K. K.; Sowmya, D.; Rallabandi, N. C.; Kalia, N. P.; **Shankaraiah, N**. *Bioorg. Med. Chem. Lett.,* **2024**, *Under review*
2. Regiospecific synthesis of thioether-linked 3-hydroxyoxindoles from spiro-epoxy oxindoles as cytotoxic and tubulin polymerization inhibitors; Kabra, P.; Sakla, A. P.; Kumar, M.; Sathish, M.; Laxmikeshav, K.; Dandekar, M. P.; **Shankaraiah, N**. *ChemistrySelect* **2024**, *Under review*
3. Development of 3-indolyl substituted phenyl pyrazolo-carboxamide hybrids as potential type II VEGFR-2 inhibitors and *in vitro* cytotoxicity studies; Valapil, D. G.; Devabattula, G.; Barahdia, A. S.; Godugu, C., **Shankaraiah, N**. *Bioorg. Med. Chem. Lett.,* **2024**, *Under review*
4. KSCN-mediated one-pot thiocyanation tandem cyclization of enaminones: a facile access to 2-amino/imino thiazolo fused chromone and coumarin frameworks; Kumawat, A.; Mansuri, S.; Galla, M. S.; **Shankaraiah, N**. *Eur. J. Org. Chem.,* **2024**, *Under revision*
5. Pyrrolo[2,3-*d*]pyrimidines as potential kinase inhibitors in cancer drug discovery: a critical review; Madhurya, M. S.; Thakur, V.; Dastari, S.; **Shankaraiah, N**. *Bioorg. Chem*., **2024**, *in press*
6. Microwave-assisted one-pot synthesis of tetrahydro-β-carbolines by Fe(II)-catalyst: utilizing methanol as methylene synthon; Khan, M. A.; Reddyrajula, R.; Sakla, A. P.; Sathish, M.; **Shankaraiah, N**. *Asian J. Org. Chem*., **2024**, *in press*
7. Design, development of pyrazole-linked spirocyclopropyloxindole-carboxamides as potential cytotoxic agents and selective Type III allosteric VEGFR-2 inhibitors; Valapil, D. G.; Devabattula, G.; Sakla, A. P.; Godugu, C.; **Shankaraiah, N**. *ChemMedChem*., **2024**, *in press*
8. Design, synthesis of β-carboline-coumarin based molecular hybrids as apoptosis inducing and topoisomerase IIα inhibitors; Khan, M. A.; Sharma, A.; Bora, D.; Sindhuja, R. H.; Phanindranath, R.; Nagesh, N.; **Shankaraiah, N**. *ChemistrySelect*., **2024**, *in press*
9. Development of chromone-thiazolidine-2,4-dione Knoevenagel conjugates as apoptosis inducing agents; Galla, M. S.; Kale, N.; Sharma, A.; Hajre, A.; Godugu, C.; **Shankaraiah, N**. *Bioorg. Med. Chem. Lett.,* **2024**, *109,* 129853
10. Microwave-assisted Ru(II)-catalyzed regioselective methyl acylation of 2-arylbenzoazoles: Synthesis of benzofuran conjugates *via* C−H activation/annulation; Dastari, S.; Murugappan, S.; John, S. E.; **Shankaraiah, N**. *J. Org. Chem*., **2024**, *89,* 7027-7035
11. Development of benzimidazole-substituted spirocyclopropyl oxindole derivatives as cytotoxic agents: tubulin polymerization inhibition and apoptosis inducing studies; Sakla, A. P.; Bazaz, M. R.; Mahale, A.; Sharma, P.; Valapil, D. G.; Kulkarni, O. P.; Dandekar, M. P.; **Shankaraiah, N**. *ChemMedChem*., **2024**, *19,* e202400052

12. Recent insights of PROTAC developments in inflammation-mediated and autoimmune diseases: A critical review; Mishra, P.; Sharma, N.; Galla, M. S.; **Shankaraiah, N**. *RSC Med. Chem*., **2024**, *15,* 2585–2600
13. Rh(III)-catalysed C–H annulation of *cis*-stilbene acids with 2-diazo-1,3-diketones: facile access to 6,7-dihydrobenzofuran-4(5*H*)-one and α-pyrone scaffolds; Galla, M. S.; Kale, N. B.; Kumawat, A.; Bora, D.; **Shankaraiah, N**. *Org. Biomol. Chem*. **2024**, *22,* 3933–3939
14. Hydrazide-hydrazone/hydrazone as enabling linkers in anti-cancer drug discovery: A comprehensive review; Murugappan, S.; Jungare, K.; Dastari, S.; Barve, N. M.; **Shankaraiah, N**. *J. Mol. Str.,* **2024**, *1307*, 138012
15. Spirooxindole derivatives as kinase based anti-cancer agents; Valapil, D. G.; **Shankaraiah, N**. Spirooxindole: Chemistry, Synthesis, Characterization and Biological Significance, Elsevier, **2024**, 1st Edition, ISBN: 978-0-443-22324-2 or ebook ISBN: 9780443223259 (Book Chapter)

2023

16. Benzimidazole derivatives as tubulin polymerization inhibitors: Design, synthesis and *in vitro* cytotoxicity studies; Laxmikeshav, K.; Rahman, Z.; Mahale, Valapil, D. G.; A.; Sharma, P.; George, J.; Phanindranath, R.; Dandekar, M. P.; Kulkarni, O.; Nagesh, N.; **Shankaraiah, N**. *Bioorg. Med. Chem. Lett.,* **2023**, *96,* 129494
17. Ru(II)-catalyzed synthesis of indolo[2,3-*c*]isoquinolines *via* [3+3] annulation of *N,N'*-cyclic azomethine ylides and 3-diazoindolin-2-imines; Valapil, D. G.; Mishra, P.; Jungare, K.; **Shankaraiah, N**. *New. J. Chem.*, **2023**, *47,* 17586-17591
18. A validated high-performance liquid chromatography method for determination of brassinin, an indoleamine 2,3-dioxygenase inhibitor in rat plasma; Dhurjad, P.; Gupta, K.; Sakla, A. P.; Shankaraiah, N.; Sonti, R. *Separation Science Plus* **2023**, *6,* 2300073
19. Sustainable photocatalytic C−H annulation of heteroarenes with sulfoxonium ylides: Synthesis and photophysical properties of fused imidazo[1,2-*a*]pyridine based molecules; Sana, S.; Dannarm, S. R.; Tokala, R.; Dastari, S.; Sathish, M.; Kumar, R.; Sonti, R.; **Shankaraiah, N**. *Org. Chem. Front*., **2023**, *10,* 4800-4808
20. Visible-light-mediated photocatalytic sequential *N*-arylation: An eco-friendly synthetic route to unsymmetrical di-arylamines and imatinib drug; Sana, S.; Dastari, S.; Reddy, D. S.; Tokala, R.; Sathish, M.; Sonti, R.; **Shankaraiah, N**. *Org. Chem. Front*., **2023**, *10,* 4573-4580
21. Reminiscing the Microwave-assisted Chemistry of 5- and 6-membered Benzene-fused *N*-Heterocycles; Soni, J. P.; Valapil, D. G.; Joshi, S. V.; **Shankaraiah, N**. *Arkivoc* **2023**, *(vi)* 202311928
22. Design, synthesis and *in vitro* cytotoxic evaluation of β-carboline tethered quinoline-4-carboxamide conjugates as DNA-interactive Topo II inhibitors; Soni, J. P.; Devi, P.; Chemitikanti, S.; Sharma, A.; Swamy, C. V. D.; Phanindranath, R.; Sathish, M.; Nagesh, N.; Godugu, C.; Shankaraiah, N. *J. Mol. Str.,* **2023**, *1291,* 136001
23. Regioselective synthesis and *in vitro* cytotoxicity evaluation of 3-thiooxindole derivatives: Tubulin polymerization inhibition and apoptosis inducing studies; Sakla, A. P.; Panda, B.; Mahale, A.; Sharma, P.; Laxmikeshav, K.; Khan, M. A.; Kulkarni, O. P.; Godugu, C.; **Shankaraiah, N**. *Bioorg. Med. Chem.,* **2023**, *90,* 117297
24. Niclosamide Inhibits Epithelial-Mesenchymal Transition with Apoptosis Induction in BRAF/ NRAS Mutated Metastatic Melanoma Cells; Thatikonda, S.; Tokala, R.; Pooladanda, V.; **Shankaraiah, N**.; Godugu, C. *Toxicology in Vitro* **2023**, *89,* 105579
25. Trimethylsilyl azide-promoted acid-amine coupling: A facile one-pot route to amides from carboxylic acids and amines; Tangella, Y.; Soni, J. P.; **Shankaraiah, N**.; Abril, D.; Sathish, M. *Arkivoc* **2023**, (*vi*), 202211914
26. Design, synthesis and *in vitro* cytotoxicity evaluation of indolo-pyrazoles grafted with thiazolidinone as tubulin polymerization inhibitors; Soni, J. P.; Chilvery, S.; Sharma, A.; Reddy, G. N.; Godugu, C.; **Shankaraiah, N.** *RSC Med. Chem.,* **2023**, *14,* 549–562
27. Exploration of cytotoxic potential and tubulin polymerization inhibition activity of *cis*-stilbene-1,2,3-triazole congeners; Bora, D.; Samir, K. M.; Sharma, A.; Chilvery, S.; Bansod, S.; John, S. E.; Godugu, C.; **Shankaraiah, N**. *RSC Med. Chem.,* **2023**, *14,* 482–490
28. Synthesis of *cis*-stilbene based 1,2,4-triazole/1,3,4-oxadiazole conjugates as potential cytotoxic and tubulin polymerization inhibitors; John, S. E.; Sharma, A.; Gulati, S.; Bora, D.; **Shankaraiah, N**. *New. J. Chem.,* **2023**, *47,* 4687-4697
29. 1,2,3-Triazolo-2-aryl-linked benzimidazole derivatives as tubulin polymerization inhibitors and DNA intercalators: Design, synthesis, biological evaluation and docking studies; Laxmikeshav, K.; Sayali, M.; Devabattula, G.; Sharma, P.; Mahale, A.; George, J.; Phanindranath, R.; Godugu, C.; Kulkarni, O. P.; Nagesh, N.; **Shankaraiah, N**. *Archiv der Pharmazie* **2023**, *356,* 2200449
30. Synthesis and cytotoxicity evaluation of DNA-interactive β-carboline indolyl-3-glyoxamide derivatives: Topo-II inhibition and *in silico* modelling studies; Soni, J. P.; Reddy, G. N.; Rahman, Z.; Sharma, A.; Spandana, A.; Phanindranath, R.; Dandekar, M. P.; Nagesh, N.; **Shankaraiah, N**. *Bioorg. Chem*., **2023**, *131,* 106313
31. Development of hydrazide hydrazone-tethered combretastatin-oxindole derivatives as antimitotic agents; Bora, D.; Sharma, A.; John, S. E.; **Shankaraiah, N**. *J. Mol. Str.,* **2023**, *1275,* 134675
32. Benzimidazole based bis-carboxamide derivatives as promising cytotoxic agents: Design, synthesis, *in silico* and tubulin polymerization inhibition; Laxmikeshav, K.; Sharma, P.; Palepu, M.; Sharma, P.; Mahale, A.; George, J.; Phanindranath, R.; Dandekar, M. P.; Kulkarni, O. P.; Nagesh, N.; **Shankaraiah, N**. *J. Mol. Str.,* **2023**, *1271*, 134078

2022

33. Rh(III)-catalysed site-selective alkylation of β-carbolines/isoquinolines and tandem C–H/C–N functionalization to construct indolizine-indole frameworks; Bora, D.; John, S. E.; Galla, M. S.; Sathish, M.; **Shankaraiah, N**. *Mol. Cat.,* **2022**, *533,* 112783

34. Synthesis of alpha-pyrones and chromen-2-ones by transition-metal catalyzed annulations of sulfoxonium and iodonium ylides with *cis*-stilbene acids; John, S. E.; Bora, D.; Dastari, S.; Valapil, D. G.; **Shankaraiah, N**. *New J. Chem*., **2022**, *46,* 19722–19730

35. Catalyst-Free Site-Selective Diverse Functionalization of Inherent C–H Bonds in 1-Aryl-β-carbolines, Norharmane and Harmine; Soni, J. P.; Kumawat, A.; Sathish, M.; Yadav, S.; Jadhav, N. A.; **Shankaraiah, N**. *ChemistrySelect* **2022**, *7,* e202202299

36. Ru(II)-Catalyzed regioselective carbene insertion into β-carbolines and isoquinolines; John, S. E.; Bora, D.; **Shankaraiah, N**. *Org. Biomol. Chem*. **2022**, *20,* 5852-5860

37. Design, synthesis of DNA-interactive 4-thiazolidinone-based indolo-/pyrroloazepinone conjugates as potential cytotoxic and topoisomerase I inhibitors; Kadagathur, M.; Patra, S.; Panda, B.; George, J.; Phanindranath, R.; Shaikh, A. S.; Sigalapalli, D. K.; Godugu, C.; Nagesh, N.; Tangellamudi, N. D.; **Shankaraiah, N**. *Eur. J. Med. Chem*., **2022**, *238,* 114465

38. Brown seaweed-derived alginic acid: An efficient and reusable catalyst for Pictet-Spengler reaction to access tetrahydro-β-carboline and tetrahydroisoquinoline frameworks; Soni, J. P.; Sathish, M.; Nachtigall, F. M.; Santos, L. S.; **Shankaraiah, N**. *Asian J. Org. Chem.,* **2022**, *11,* e202200129

39. The Expedition of Azido-reductive Cyclization Approaches towards Various Heterocycles; Soni, J. P.; Jadhav, N.; **Shankaraiah, N.** *Curr. Org. Chem.,* **2022**, *26,* 382-398

40. The syntheses and medicinal attributes of phenanthrenes as anticancer agents: a quinquennial update; Jhingran, S.; Laxmikeshav, K.; Sayali, M.; Rao, K. V.; **Shankaraiah, N**. *Curr. Med. Chem*., **2022**, *29,* 3530–3556

41. Contribution of Knoevenagel Condensation Products toward the Development of Anticancer Agents: An Updated Review; Tokala, R.; Bora, D.; **Shankaraiah, N**. *ChemMedChem*., **2022**, *17,* e202100736

42. Exploration of Mercaptoacetamide-linked Pyrimidine-1,3,4-Oxadiazole Derivatives as DNA Intercalative Topo II inhibitors: Cytotoxicity and Apoptosis Induction; Shaikh, A. S.; Kiranmai, G.; Devi, G. P.; Makhal, P. N.; Sigalapalli, D. K.; Tokala, R.; Kaki, V. R.; **Shankaraiah, N**.; Nagesh, N.; Babu, B. N.; Tangellamudi, N. D. *Bioorg. Med. Chem. Lett.,* **2022**, *65,* 128697

43. Synthesis of indolo/pyrroloazepinone-oxindoles as potential cytotoxic, DNA-intercalating and Topo I inhibitors; Kadagathur, M.; Shaikh, A. S.; Panda, B.; George, J.; Phanindranath, R.; Sigalapalli, D. K.; Godugu, C.; Nagesh, N.; **Shankaraiah, N**.; Tangellamudi, N. D. *Bioorg. Chem*. **2022**, *122,* 105706

44. One-pot, microwave-assisted copper(I)-catalysed dithiocarbamation: facile introduction of dithiocarbamate on imidazopyridines; Laxmikeshav, K.; Sakla, A. P.; Stephy, E. J.; **Shankaraiah, N**. *Green. Chem.,* **2022**, *24,* 1259–1269

45. Role of Histone demethylases and histone methyltransferases in triple-negative breast cancer: epigenetic mnemonics; Mandumpala, J. J.; Baby, S.; Tom, A. A.; Godugu, C.; **Shankaraiah, N.** *Life Sciences* **2022**, *292,* 120321

46. Ru(II)-Catalyzed Regioselective C−N Bond Formation on Benzothiazoles Employing Acyl Azide as an Amidating Agent; John, S. E.; Bora, D.; Dhimam, V.; Tokala, R.; Gananadhamu, S.; **Shankaraiah, N**. *ACS Omega* **2022**, *7,* 1299−1310

47. Exploration of benzimidazoles as potential microtubule modulators: An insight in the synthetic and therapeutic evolution; Laxmikeshav, K.; Ambati, H.; **Shankaraiah, N**. *J. Mol. Str*., **2022**, *1253,* 132251

48. Expedition of sulfur-containing heterocyclic derivatives as cytotoxic agents in medicinal chemistry: A decade update; Laxmikeshav, K.; Kumari, P.; **Shankaraiah, N**. *Med. Res. Rev.,* **2022**, *42,* 513-575

2021

49. Dithiocarbamation of spiro-aziridine oxindoles: a facile access to C3-functionalised 3-thiooxindoles as apoptosis inducing agents; Sakla, A. P.; Panda, B.; Laxmikeshav, K.; Soni, J. P.; Bhandari, S.; Godugu, C.; **Shankaraiah, N**. *Org. Biomol. Chem.,* **2021**, *19,* 10622–10634

50. Recent updates on azido-reductive cyclization approaches: syntheses of *aza*-heterocyclic frameworks; Soni, J. P.; Kadagathur, M.; **Shankaraiah, N**. *Asian J. Org. Chem.,* **2021**, *10,* 3186-3200

51. Regioselective *ortho*-sulphonamidation of β-carbolines: intrinsic directing property of β-carbolines and their photophysical studies; Bora, D.; Dannarm, S. R.; John, S. E.; Sana, S.; Sonti, R.; **Shankaraiah, N**. *Asian J. Org. Chem.,* **2021**, *10,* 3384-3389

52. β-Carboline tethered cinnamoyl 2-aminobenzamides as class I selective HDAC inhibitors: Design, synthesis, antiproliferative activity and modelling studies; Namballa, H. K.; Anchi, P.; Manasa, K. L.; Soni, J. P.; Godugu, C.; **Shankaraiah, N**.; Kamal, A. *Bioorg. Chem*. **2021**, *117*, 105461

53. Targeting Tubulin Polymerization and DNA Binding of 4-Thiazolidinone-umbelliferone Hybrids: Synthesis and Cytotoxicity Evaluation; Sigalapalli, D. K.; Kiranmai, G.; Tokala, R.; Tripura, C.; Ambatwar, R.; Nunewar, S. N.; Kadagathur, M.; **Shankaraiah, N**.; Nagesh, N.; Babu, B. N.; Tangellamudi, N. D. *New J. Chem.,* **2021**, *45,* 18908-18923

54. Stereoselective Aldol and Conjugate Addition Reactions Mediated by Proline-Based Catalysts and Its Analogues: A Concise Review; G. V. Durgesh.; Kadagathur, M.; **Shankaraiah, N**. *Eur. J. Org. Chem*., **2021**, *37,* 5288-5311

55. An update on the progress of cycloaddition reactions of 3-methyleneindolinones in the past decade: versatile approaches to spirooxindoles; Saeed, R.; Sakla, A. P.; **Shankaraiah, N**. *Org. Biomol. Chem.,* **2021**, *19,* 7768–7791

56. Unraveling KDM4 histone demethylase inhibitors for cancer therapy; Baby, S.; Durgesh, G. V.; **Shankaraiah, N**. *Drug Discovery Today* **2021**, *26,* 1841-1856

57. Expedition to Phenanthrene Nucleus: A Two-decade Research on Bench; John, S. E.; Tokala, R.; Kaki, V. R.; **Shankaraiah, N**. *Asian J. Org. Chem.,* **2021**, *10,* 2105-2136

58. Exploration of C-H activation strategies in construction of functionalized 2-aryl benzoazoles: a decisive review; Sunny, S.; John, S. E.; **Shankaraiah, N**. *Asian J. Org. Chem.,* **2021**, *10,* 1986-2009

59. Recent Advances in Multi-component Reactions and their Mechanistic Insights: A Triennium Review; John, S.; Gulati, S.; **Shankaraiah, N**. *Org. Chem. Front*., **2021**, *8,* 4237–4287

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INVITED TALKS

1. NMR and its applications; an extension lecture in Department of Chemistry at Sardar Patel College, affiliated to Osmania University on 17th August **2024**
2. ^{1}H NMR, UV & IR Spectroscopy and Its Applications; one-day seminar on "Spectroscopic Analysis: NMR, UV, IR and Mass spectrometry" at the University College of Science, Saifabad, Osmania University, Hyderabad, in coordination with Royal Society of Chemistry, London (UK)-local section Deccan, INDIA on 5th August, **2024**
3. ^{13}C NMR Spectroscopy and Its Applications; two-day workshop on "The Spectral Analysis in Structure Determination of Organic Molecules" which is jointly organizing by the Department of Chemistry & Forensic Science, RBVRR Women's College, Hyderabad and Royal Society of Chemistry, London (UK)-local section Deccan, INDIA, during 18–19th July, **2024**
4. Basics of NMR and characterisation of small molecules; a guest lecture organized by Daicel Chiral Technologies India in association with Royal Society of Chemistry-LSD, Hyderabad, India on 11th July **2024**

5. The Role of NMR Spectroscopy in Structure Elucidation of Small Molecules; an expert talk delivered at the Department of Chemistry, St. Francis Women PG College, Begumpet, Hyderabad on 14th March **2024**
6. Unveiling the Potential of Molecular Hybridization: DNA-targeted Cytotoxic Agents in Cancer Drug Discovery; at "7th Nirma Institute of Pharmacy International Conference (NIPiCON 2024)" organized by Pharmacy Department, Nirma University, during 7-9th Feb. **2024**
7. The Role of Spectroscopy in Structure Elucidation; two days National Seminar & Workshop on "Advances in Chemical Sciences" organized by SB College of Science, Gulbarga, in association with Royal Society of Chemistry, Deccan Section, Hyderabad, during 28th - 29th Nov. **2023**
8. DNA-targeted Anticancer Agents in Drug Discovery and Development; three days Zonal centre program on "Computer Aided Drug Design and Discovery" organizing by the Department of Chemistry, St Ann's College (Autonomous), Mehdipatnam, Hyderabad, in association with Make Intern, E-Cell - IIT Kharagpur, during 23rd - 25th Nov. **2023**
9. DNA-targeting Anticancer Agents in Drug Discovery: Molecular Hybridization Approach; A Faculty Development Program on "Research Challenges in Formulation Development and Contemporary Analytical Techniques in Drug Discovery" organized by Annamacharya College of Pharmacy, Rajmpet, AP, from 03-07th October **2023**
10. DNA-targeted Anticancer Agents in Drug Discovery: Molecular Hybridization Approach; Conference/workshop on "New Vistas in Drug Design & Discovery-2023 organized by School of Life Sciences (SLS), University of Hyderabad (UoH) from 4th - 6th October, **2023**
11. Molecular hybridization: A concept paving way in development of DNA-interactive anticancer agents in drug discovery; at Department of Chemistry, University of Chile, Santiago, Chile on 29th September **2023**
12. DNA-targeting Cytotoxic Agents in Drug Discovery: Molecular Hybridization Approach; One-day National Conference organized by Centro de Investigacion de Estudios Avanzados del Maule (CIEAM) of the Universidad Católica del Maule on 27th September **2023**
13. C-H Activation/Annulation: A Key to Sustainable Chemistry; Department of Chemistry, University of Talca, Chile, on 26th September **2023**
14. DNA-targeting Cytotoxic Agents in Drug Discovery: Molecular Hybridization Approach; A Faculty Development Program on "Recent Advances, Trends and Challenges in Pharmaceutical Nanotechnology – Research to Revenue" organized by Seven Hills College of Pharmacy (Autonomous), Tirupati in association with ISTE, AP Section from 20th to 24th September **2023**
15. Click Chemistry: An Enabling Tool in Cancer Drug Discovery; two days National Seminar on "Current Trends and Future Challenges in Chemical and Allied Sciences for Research (CTFCCASR-2023)" is organized by the Department of Chemistry, Government Degree College (A), SIDDIPET, Telangana Sate, India during 4th - 5th August **2023**
16. Invited as Chief Guest on the occasion of National Science Day "Emerging Trends in Medical Devices Regulations-2023", organized by Department Biomedical Engineering, Osmania University, Hyderabad on 25th February **2023**.
17. Sir P. C. Ray Memorial Lecture on "Pharmaceutical Landscape: Present Scenario and Opportunities" on "Inspirational Science Lecture Series (ISLS-2023)" on the occasion of National Science Day 2023 on 15-02-2023 organized by Department of Chemistry, SR&BGNR, Govt. Arts & Science College (Autonomous), Khammam, TS, India on 15th Feb. **2023**.
18. Invited as Chief Guest for Graduation Day Celebrations of 2018-2022 batch students, MNR College of Pharmacy, Sangareddy, TS, on 3rd December **2022**
19. DNA-targeting Cytotoxic Agents in Drug Discovery: Molecular Hybridization Approach; two days "National Seminar on "Bioorganic & Medicinal Chemistry (BMC-2022)" organized by the Department of Chemistry, Telangana University Nizamabad-503322, TS, India, during 29-30th November **2022**
20. NMR spectroscopy & its applications; an online guest talk organized by Department of Chemistry, Dnyanprassarak Mandal's College and Research Center, Assagao, Goa on 14th November **2022**
21. The Role of Chemistry in Cancer Drug Discovery; A guest talk organized on the occasion of "International Science Day" by TSWRL College and PG Centre for Women, LB Nagar, Hyderabad on 10th November **2022**
22. NMR & its applications; one-day seminar on "Advancement of Chemical Sciences" jointly organizing by the Department of Chemistry & Forensic Science, RBVRR Women's College, Hyderabad and Royal Society of Chemistry, London (UK)-local section Deccan on 10th November **2022**
23. Click Chemistry: An Enabling Tool in Synthesis of New Chemical Entities; Two Days National Conference on "Emerging Trends and Innovations in Pharmaceutical Sciences (ETIPS - 2022)" organized by University College of Pharmaceutical Sciences, Palamuru University in association with Indian Pharmaceutical Association, Bandameedipally, Mahabubnagar, during 13th & 14th October, **2022**.
24. NMR Spectroscopy: An Enabling Technique in Structure Elucidation; Two days National Seminar on "Recent Advances in Chemical and Environmental Sciences (RACES -2022)" organized by Department of Chemistry, Kakatiya Government College, Hanumakonda, Warangal, TS on 21st & 22nd September **2022**.
25. DNA-targeting Anticancer Agents in Drug Discovery: Molecular Hybridization Approach; Three Days "International Conference on Chemistry and Allied Sciences (ICCAS-2022)" organized by Department of Chemistry, Pingle Government College for Women, (Autonomous), Hanamkonda during 25th to 27th August **2022**
26. Molecular Hybridization: An Accelerating Approach in the Design of DNA-targeting Anticancer Agents in Drug Discovery; Two Day National Conference on "Current Advances in Pharmaceutical Research and Innovations in Pharmaceutical Industry" organizing by the College of Pharmaceutical Sciences and Research, Krishna University, Machilipatnam, Andhra Pradesh on 7th & 8th July **2022**.

27. Molecular Hybridization Approach: Accelerating the Design of New Anticancer Agents in Drug Discovery; Two Day National Seminar on "Emerging Trends in Chemical & Materials Science Research" Organized by Department of Chemistry, SR&BGNR, Govt. Arts & Science College (Autonomous), Khammam, TS, India on 25th & 26th Feb. **2022**.
28. Molecular Hybridization: A Concept Paving Way in Development of Anticancer Agents; Delivered expert talk in the Department of Pharmacy, Nirma University on 23rd Feb. **2022**.
29. Molecular Hybridization: An Enabling Approach in Cancer Drug Discovery; Two Days Virtual International Conference on Emerging Trends in Medicinal Chemistry (ETMC 2021) organized by S. V. NIT – Surat on 18th – 19th March **2021**
30. The Role of NMR Spectroscopy in Structure Elucidation of small Molecules; AICTE-sponsored Six Days Short Term Training Programme (STTP) on Green Chemistry and advanced analytical techniques of Pharmaceuticals and product development aspects as per the regulatory requirements organized by Department of Pharmaceutical Analysis & Quality Assurance, RIPER Ananthapur on Feb 8th – 13th **2021**
31. NMR and IR Spectroscopy; A one-day National Webinar on "Spectroscopy and their Applications in Structure Elucidation of Small Molecules" organized by Department of Chemistry, Dyanaprassarak Mandalal's College & Research Centre Assagao, Bardez-Gova on 7th November 2020.
32. NMR and IR Spectroscopy Applications; Two Days Online National Workshop on "Spectral Analysis of Organic Molecules" organized by NIPER-Hyderabad on 16th & 17th July **2020**.
33. NMR and its Applications in Structure Elucidation of Small Molecules; A National Level Colloquium on "Advancements in Pharmaceutical Chemistry and Drug Discovery, organized by Annamacharya College of Pharmacy, on 25-09-**2020**.
34. The Role of NMR Spectroscopy in Structure Elucidation; Webinar organized by Mahathi College of Pharmacy on 26-07-**2020**.
35. Molecular Hybridization: An Enabling Approach in the Design of NCEs in Cancer Drug Discovery; Two Day National Conference on "Frontiers in Medicinal Chemistry and Nanotechnology" organized by the Department of Chemistry, Dnyanprassarak Mandal's College and Research Centre, Assagao, Bardez - Goa in association with the Directorate of Higher Education (DHE), from 14th – 15th Feb. **2020**.
36. Combinatorial Approach: Design and Synthesis of Bioactive NCEs in Drug Discovery; Pharmacy Teachers Training Program on "Conceptualization to success in drug discovery and development: Spectacles to teaching and learning" organized by Bharati Vidyapeeth's, Poona College of Pharmacy, Erandwane, Pune, from 16th November **2019**
37. DNA Targeted Anticancer Agents in Drug Discovery and Development: Molecular Hybridization Approach; Raghavendra Institute of Pharmaceutical Education and Research (RIPER), Ananthpur, AP on 11th November **2019**
38. Spectral Analysis; Workshop on "Modern Analytical Techniques in Organic Chemistry" Organized by Royal Society of Chemistry (London-UK) Local Section Deccan (RSC-LSD) & St.Ann's College for Women, Mehdipatnam, Hyderabad on 2nd November **2019**
39. Molecular Hybridization: An Enabling Approach in the Design of NCEs in Drug Discovery; Two Day National Seminar on Nature Inspired Initiatives in Chemical Sciences (NIICS-2019) organized by Department of Chemistry South Campus, Telangana University, Bikhnur, 5th November, **2019**
40. Spectral analysis and it's applications; Workshop on "Modern Analytical Techniques in Drug Development" Organized by Royal Society of Chemistry (London-UK)-India Deccan Local Section (RSC-IDLS) & Raghavendra Institute of Pharmaceutical Education and Research (RIPER), Ananthpur, AP on 26th July **2019**
41. Development of Alternative Sustainable Synthetic Strategies in Pharmaceutical Sciences - Green Chemistry; DBT Sponsored Teacher/Researcher Short-Term Training Course (STTC) on "Pharma Innovations for Better Perspective in Health Care (PIBPH-19)" Organized by Malla Reddy College of Pharmacy, Hyderabad from June 10th to 22nd, **2019**
42. Greener Synthetic Strategies: Frontiers and Challenges; Two Day National Seminar on "Current Issues and Challenges in Chemical Research (CICCR-2019), organized by Department of Chemistry, University Arts & Science College (*Autonomous*), Kakatiya University, Warangal, Telangana State, on 18th & 19th March **2019**.
43. Spectroscopy and their Applications; A state level one-day workshop on "Quantitative Analysis of Compounds & Analysis of Spectral Data of Organic Compounds" organized by Department of Chemistry, Government Degree and P.G. College, Gujwel, Siddipet (District), Telangana State, on 2nd March **2019**.
44. Combinatorial Chemistry: An Enabling Approach in Drug Discovery; Continuing Education Program on "Refinement of Teaching Methodologies for Effective Outcome" Organized by V.V. Institute of Pharmaceutical Sciences, Sponsored by Pharmacy Council of India (PCI), Gudlavalleru, Krishna District, AP, India from 6th to 8th Feb. **2019**
45. Spectroscopy and Its Applications in Drug Discovery; Faculty Development Program Organized by UGC, Human Resources Development Centre, Maulana Azad National Urdu University, Gachibowli, Hyderabad, Telangana on 18th December **2018**.
46. NMR and its applications; "Two Day National Symposium on "Challenges and Opportunities in Chemistry" Organized by the Bapatla College of Arts & Sciences, Bapatla, AP, in association with Royal Society of Chemistry, London on November 29th - 30th, **2018**
47. 1,2,3-Triazole: A versatile bridging motif in bioactive molecules; Faculty Development Program on Chemistry organized by Department of Integrated Chemistry during 18th to 23rd June **2018**, Palamuru University, Mahabubnagar, TS, India

48. Enabling greener strategies: A tool for the synthesis of bioactive molecules in drug discovery; International Conference on Advanced Functional Materials (ICAFM-2017) during 18th – 20th December, **2017** organized by Departments of Chemistry & Physics at Rajiv Gandhi University of Knowledge Technologies (RGUKT), Basar, TS, India
49. "NMR & It's Applications"; National Seminar on "ROLE OF CHEMISTRY-APPLICATIONS" on the occasion of National Science Day on 28th February **2017** jointly organized by Royal Society of Chemistry (London) – India Deccan Local Section and Adarsh Degree & PG College, Palamuru University. Mahabubnagar, TS.
50. NMR Spectroscopy: A Versatile Tool for Structure Elucidation; National Seminar on "Emerging Trends and Challenges in Chemical Research" organized by Department of Chemistry, Govt. Degree & PG College, Bhadrachalam, Khammam (District), Telangana State, India (In collaboration with CSIR-IICT & RSC – London India Deccan Local Section) on 18th & 19th December **2015**.
51. NMR Spectroscopy in Pharmaceutical Analysis; Seminar Cum Workshop on "Role of Modern Instrumental Techniques in Drug Discovery and Development" organized by Royal Society of Chemistry (RSC-IDLS) in association with Raghavendra Institute of Pharmaceutical Education & Research (RIPER), Ananthapur, AP, India on 10th -11th October, **2015**.
52. DNA-Targeted Anticancer Agents: Molecular Design and their Synthesis; Drug Discovery India – 2014 on 11th & 12th September **2014** organized by SelectBiosciences Pvt. Ltd, India at Ramada Hotel Powai, Mumbai, India.
53. Mass Spectrometry-A Modern Analytical Tool: Mechanistic Investigations of Organic Reactions by ESI-MS; Refresher Course for 3 weeks on "Innovation Methods in Green and Applied Chemistry" on 9th August **2014** organized by JNTUH-UGC ASC, Hyderabad, India
54. Overview on UV-Visible & IR Spectroscopy and their Applications in Pharmaceutical Sciences; Refresher Course for 3 weeks on "Innovation Methods in Green and Applied Chemistry" on 11th August **2014** organized by JNTUH-UGC ASC, Hyderabad, India
55. NMR Spectral Workshop; Refresher Course for 3 weeks on "Innovation Methods in Green and Applied Chemistry" on 13th August **2014** organized by JNTUH-UGC ASC, Hyderabad, India
56. Design and Synthesis of DNA-Targeted Novel Anticancer Agents; Medicinal Chemistry Conference (MedChem-2013) on 25th & 26th October **2013** organized by Department of Chemistry at Indian Institute of Chemical Technology Madras (IIT-Madras), Chennai, India.
57. Novel Enabling Synthetic Strategies: Sustainable Technologies in Academic Drug Discovery Research; Drug Discovery India – 2013 on 27th & 28th September **2013** organized by SelectBiosciences Pvt. Ltd, India at Sheraton Hotel, Bangalore, India.
58. Combinatorial Chemistry and 'Click' Chemistry in the Field of Medicinal Chemistry; National Workshop on "Recent Trends in Drug Design" on May 8th to 10th, **2013** organized by JNTU, Hyderabad, India.
59. Use of Modern Chemical Tools: Emerging in the Investigation of Chemical Research; Orientation Course on Satellite Data Applications in Weather and Climate Change on April 28th **2013** conducted by JNTU, Hyderabad, India.