
Curriculum Vitae

Dr. N Naresh Kumar Reddy

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Objective:

To understand and seeking solutions for scientifically challenging problems under the vision of experts in the field of interface of organic chemistry and biology to improve my career, as well as my experience and skills would be used for organization's development.

Educational Qualifications

Ph.D. 2014-2018 (August) (Ph. D. Supervisor: Dr. S. Adimurthy, Principal Scientist)

CSIR - Central Salt & Marine Chemicals Research Institute, Bhavnagar, Gujarat, INDIA.

Ph.D. Thesis Title: "Oxidative Coupling of C - C and C - Hetero Bond Formations under Metal-Free Conditions."

M.Sc. 2007– 2009 (Chemistry), From Osmania University, Hyderabad, Telangana, India.

Research interests

- C-H functionalization reactions
- Oxidative coupling reactions
- Semi or total synthesis of bioactive molecules
- Drug discovery

Scientific skills

- Finding new synthetic problems and resolve them independently as well as in Collaboration.
- Development of new synthetic methodologies.
- Short and multi-step synthesis.
- Isolation and characterization of novel natural products of plant/microbial origin
- Structure interpretation of natural products through ¹D and ²D NMR, IR, ESI-LC-MS-spectra.
- Generation of focused semi-synthetic libraries based upon natural product scaffolds for identifying lead molecules, optimization and establishment.
- Total synthesis of bioactive molecules.
- Handling of sensitive reactions like *n*-BuLi, Grignard Reactions.

Computer proficiency

- Knowledge of software likes Microsoft Word, Microsoft Excel, Power Point, and Chem Draw, M Nova, Origin, etc.

Awards

CSIR-Junior Research Fellowship

CSIR- Senior Research Fellowship

Institute Postdoctoral Fellowship - IIT Kanpur

WORK EXPERIENCE

2010-2012, worked in Cornileus Pharmaceuticals (Vizag, Andhra Pradesh) as a **Jr.Chemist** (Quality Control)

2019 (January-May) worked in Hyderabad Central University (Hyderabad, Telangana, India) as a **Research Associate**.

2019-2020 worked in GVK Biosciences Pvt. Ltd. ((Hyderabad, Telangana, India) as an **Associate Scientist**.

2020-2021 worked in Indian Institute of Technology (Kanpur, Uttar Pradesh) as an **Institute Postdoctoral fellow**.

2021 (Dec)-2022 (Jul) worked in Chemveda Life Sciences India Pvt. Ltd. (Hyderabad, Telangana, India) as an **Associate Scientist-II**.

PUBLICATIONS / PATENT(s)

1. S. Adimurthy, **N. N. K. Reddy** NF No. 0023NF2016/IN (**Indian Patent filed 22/3/2016**)
2. **N. N. K. Reddy**, D. C. Mohan, S. Adimurthy *Tetrahedron Lett.* **2016**, *57*, 1074-1078.
Metal-free Synthesis of Indolizines through Oxidative C–C and C–N Bond Formations of C (sp³) –H Bonds
3. **N. N. K. Reddy**, D. R. Reddy, C. Ravi, and S. Adimurthy *Tetrahedron Lett.* **2016**, *57*, 3243-3246.
Iodine catalysed [3+2] cyclization of pyridyl esters with chalcones: metal free approach for the synthesis of substituted indolizines
4. **N. N. K. Reddy**, S. N. Rao, C. Ravi, S. Adimurthy *ACS Omega*, **2017**, *2*, 5235-5241.
Catalyst-Free Synthesis of 2, 4 Disubstituted- 1H- imidazoles through [3 + 2] Cyclization of Vinyl Azides with Amidines

5. **N. N. K. Reddy**, D. Rawat, S. Adimurthy *J. Org. Chem.* **2018**, *83*, **9412–9421**.
Visible-Light Induced C (sp³)–H Functionalization of Tosylhydrazones: Synthesis of Polysubstituted Pyrroles under Metal-free Conditions
6. **N. N. K. Reddy**, C. Ravi, S. Adimurthy *Synth., Commun.* **2018**, *48*, **1663-1670**.
Oxidative Esterification of Primary Alcohols at Room Temperature under Aqueous Medium
7. **N. N. K. Reddy**, S. N. Rao, R. D. Patil, S. Adimurthy *Adv Mater Sci.* **2018**, *3*, **1-7**.
Transition metal-free hydration of nitriles to amides mediated by NaOH
8. D. R. Reddy, P. V. Narayana, **N. N. K. Reddy**, D. Biragi, S. Adimurthy *J. Org. Chem.* **2014**, *79*, **11277-11284**.
Copper - Catalyzed C–H Functionalization of Pyridines and Isoquinolines with Vinyl Azides: Synthesis of Imidazo Heterocycles
9. C. Ravi, D. Chandra Mohan, **N. N. K. Reddy**, S. Adimurthy *RSC Adv.* **2015**, *5*, **42961-42964**.
Substrate Selective Synthesis of Pyrazolo [1, 5-a] Pyridines through [3 + 2] Cycloaddition of N- Amino Pyridines and β -Nitro Styrenes
10. C. Ravi, **N. N. K. Reddy**, P. V. Narayana, S. Samanta, S. Adimurthy *J. Org. Chem.* **2016**, *81*, **9964-9972**.
Copper-Catalyzed Three-Component System for Arylsulfonylation of Imidazo Pyridines with Elemental Sulfur
11. S. N. Rao, **N. N. K. Reddy**, S. Samanta, S. Adimurthy *J. Org. Chem.* **2017**, *82*, **13632-13642**.
I₂ - Catalyzed Oxidative Amidation of Benzylamines and Benzyl Cyanides under Mild Conditions
12. C. Ravi, S. Samanta, D. Chandra Mohan, **N. N. K. Reddy**, S. Adimurthy *Synthesis* **2017**, *49* (11): **2513-2522**.
Synthesis of Functionalized Pyrazolo [1, 5-a] Pyridines: [3+2] Cycloaddition of N-Amino pyridines and α , β - Unsaturated Carbonyl Compounds/Alkenes at Room Temperature
13. C. Ravi, R. Semwal, R. Kumar, **N. N. K. Reddy**, S. Adimurthy *ChemistrySelect* **2018**, *3*, **6116-6121**.
Iodine- Catalysed Decarboxylative Sulfonylation of Electron Rich Arenes and Indoles

Poster presentations at conferences

1. Metal-free Synthesis of Indolizines through Oxidative C–C and C–N Bond Formations of C (sp³) – H Bonds (**Poster presentation**)

N. Naresh Kumar Reddy, S. Adimurthy. 21st CRSI National Symposium in Chemistry (**CRSI-NSC-21, 2017**). CSIR- Indian Institute of Chemical Technology, Hyderabad, India.

2. Catalyst-free synthesis of 2, 4-disubstituted-1-H-imidazole through [3+2] cyclisation of vinyl azides with amidines (**Poster presentation**). **N. Naresh Kumar Reddy**, S. Adimurthy. **XXXII Gujarat Science Congress – 2018**.

REFERENCES

Dr. S. Adimurthy

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Gujarat-364002, India.

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