CURRICULUM VITAE

Personal Profile

Name : Nagabhushana C B

Date of Birth : 01/06/1993

Gender : Male

Father's Name : Beeralingappa

Mother's Name : Vanajakshamma

Nationality : Indian

Present address : C-207, HALL - 08, IIT Kanpur, Kanpur- 208016, Uttar Pradesh, India

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Educational Qualification

Ph.D: Organic chemistry (2017 – Present)

Thesis Supervisor: Prof. Dattatraya H. Dethe

Department of chemistry, Indian Institute of Technology Kanpur,

Uttar Pradesh, India.

Master of Science in Chemistry (2014-2016)

P.G centre Shankaraghatta, Kuvempu University,

Shivamogga, Karnataka

First class : 72.75%

Bachelor of Science (2011-2014)

University College of Science,

Tumkur University, Tumkur, Karnataka

Chemistry, Physics and Mathematics

First class : 94%

Awards and Fellowships

1. Qualified Karnataka State Eligibility Test (KSET) in Chemical Sciences (2016).
2. Qualified Graduate Aptitude Test in Engineering (2016, GATE score : 400**)**
3. Awarded best budding talent for the year 2016 at Aurigene Drug Discovery Technologies Pvt Ltd., Bangalore
4. Qualified UGC-JRF exam in Chemical Sciences conducted by Joint CSIR-UGC NET, India (2017, Rank: 98).
5. Qualified National Eligibility Test (NET) in Chemical Sciences of conducted by Joint CSIR-UGC NET, India (2017).
6. Received best poster presentation prize during Research Scholar's Day at IITK, 2019

Academic and Research Experience

1. I have completed my M.Sc project work entitled **"Synthesis and Spectral characterization of Azo dye based heterocycle derivatives".** Under the guidance of **Prof. J. Keshavayya,** Department of Chemistry, Kuvempu University**.**
2. Worked as a Research Associate at Aurigene Discovery Technologies Pvt. Ltd., Bangalore for more than a year.
3. Involved in CRO based projects to synthesizing various heterocyclic scaffolds and analogues.
4. **Teaching Associate (TA)** in **CHM 101** Lab (Practical course for first year B.Tech./B.S. and Integrated M.S programme), January-April (2020), Department of Chemistry, IIT Kanpur, INDIA.
5. As a PhD scholar, I am working on the development of novel transition metal catalyzed C-H functionalization reactions and syntheses of biologically active natural products.
6. Involved in the hard core total synthesis of complex natural products from past 4 years.
7. Capable to Performed reactions independently and expertise in handling air and moisture sensitive reactions and endured in purification of products in minor amounts.
8. Expertise in analyzing spectroscopic data like NMR (1D & 2D), Mass, IR etc. needed for structure elucidation and experience hands in making materials from milli gram scale to multi gram scale.
9. Adopted a good communication skills, manuscript and research proposal writing skills.
10. Oral presentation during Research Scholar's Day at IITK, 2018.

Publications

1. Dethe**,** D. H.; **Nagabhushana, C. B.** Ruthenium-Catalyzed Direct Dehydrogenative Cross-Coupling of Allyl Alcohols and Acrylates: Application to Total Synthesis of Hydroxy β-Sanshool, ZP-Amide I, and Chondrillin. *Org. Lett.* **2020,** *22***,** 1618-1623.

2. Dethe**,** D. H.; **Nagabhushana, C. B.;** Bhat, A. A. Cp*Co(III)-Catalyzed Ketone-Directed *ortho*-C–H Activation for the Synthesis of Indene Derivatives. *J. Org. Chem.* **2020**, *85*, 7565-7575.

3. Dethe**,** D. H.; **Nagabhushana, C. B.;** Das, S.; Nirpal, A. K. Ruthenium-catalyzed formal sp^3 C–H activation of allylsilanes/esters with olefins: efficient access to functionalized 1,3-dienes. *Chem. Sci.*, **2021,** *12***,** 4367-4372.

4. Dethe**,** D. H.; **Nagabhushana, C. B.;** Uike, A. Ruthenium-Catalyzed Oxidative Cross-Coupling Reaction of Activated Olefins with Vinyl Boronates for the Synthesis of (*E*,*E*)-1,3-Dienes. *J. Org. Chem.* **2021,** *86***,** 3444-3455.

5. Dethe**,** D. H.; **Nagabhushana, C. B.;** Kumar, V. Weakly Coordinating, Hydroxyl Directed Ruthenium Catalyzed C–H Alkylation of Ubiquitous Benzyl Alcohols with Maleimides. *Org. Lett.* **2021**, *23*, 6267-6271.

6. Dethe**,** D. H.; **Nagabhushana, C. B.;** Balu, D. D. Carboxylic Acid Promoted, Redox-Neutral Ru-Catalyzed C–H Allylation of Aromatic Ketones. *Eur. J. Org. Chem.* **2021**, 4611-4615.

Scientific Meetings/Conferences

1. Participated in ***"25th CRSI National Symposium in Chemistry"*** organized by IITK - 2019.

2. Attended **"*Organic Chemistry Symposium @ IIT Kanpur"*** organized by IITK - 2018.

3. Participated in ***"One day symposium on "Advances in Catalysis"*** organized by IITK-2018.

4. Participated in national conference on ***"Recent Advances in Chemical Science Research"*** organized by the department of chemistry, Kuvempu University, Shivamogga - 2015.

5. Attended 8th KSTA annual conference on "***Science and Technology for GenNext Urban Space"*** jointly organized by KSTA and BIT, Banglore, Karnataka - 2015.

6. Participated in science academies lecture workshop on ***"Recent Trends in Chemistry and Biochemistry*** (RTCB-2012) held at department of chemistry, SSIT, Tumkur - 2012.