**Mahadev Sharanappa Sherikar**

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Prof. S. J. Gharpure's Group, 76, Jivan vikas nagar

Department of Chemistry, 70 feet road,

Indian Institute of Technology Bombay, Solapur, Maharashtra,

Mumbai – 400 076, India. 413 003, India.

**CURRENT POSITION**

Post-Doctoral Fellow, September 2021 – August 2022

Prof. S. J. Gharpure's Group, Mumbai, India

Department of Chemistry, Phone: 022-2576-7171

Indian Institute of Technology Bombay,

Mumbai – 400 076, India.

**EDUCATION**

**Indian Institute of Science, Bangalore (IISc)** August 2016 - July 2021

**Ph.D.** (C-H activation and Catalysis) Research Supervisor:

Thesis Title: Construction of C-C bonds by C-H activation: Prof. K. R. Prabhu.

Rh(III)-catalyzed reactions of arenes and heteroarenes Bangalore, India

with maleimides and allylic alcohols

**Shivaji University, Kolhapur** 2013-2015

M. Sc. (Organic Chemistry) FGPA - 7.4

**GRANTS AND AWARDS**

**Senior Research Fellowship (SRF)** by Indian Institute of Science. August 2018- July 2021

**Junior Research Fellowship (JRF)** by Indian Institute of Science. August 2016- July 2018

Qualified in the **Maharashtra State Eligibility Test (MSET)** 2015, Maharashtra, India

for Lecturer/Assistant Professorship.

Secured **All India 11th rank in National Eligibility Test (NET/JRF)** 2016, New Delhi, India

conducted by Joint Council of Scientific and Industrial

Research and University Grants Commission.

Secured **All India 593rd rank in Graduate Aptitude Test in** 2016, Bangalore, India

**Engineering (GATE)**

conducted by Indian institute of Science, Bangalore.

**RESEARCH EXPERIENCE**

Academic research: Indian Institute of Science (IISc)

Ph. D. Supervisor: Prof. K. R. Prabhu. August 2016- July 2021 -Construction of C-C bonds by C-H activation: Bangalore, India

Rh(III)-catalyzed reactions of arenes and heteroarenes with

maleimides and allylic alcohols

**TEACHING EXPERIENCE**

**Indian Institute of Science (IISc)** Jan 2018– July 2018

Teaching Assistant (TA), undergraduate course. Bangalore, India

Qualified state and national eligibility test for 2015

lectureship/ Assistant Professorship.

**AREAS OF EXPERTISE**

* Development of novel and practical synthetic methodologies
* Transition metal-catalysis
* Natural product synthesis
* Medicinal chemistry and drug discovery

**SKILLS**

* Purification of organic molecules
* Handling hazardous and sensitive chemicals
* Handling air, temperature, and moisture-sensitive reactions
* Interpretation of analytical data such as NMR, IR, UV-Visible spectra,

HRMS, LCMS, etc. for structural analysis of organic compounds

* Handling NMR Machine
* Basic computer knowledge
* Good communication and presentation skills

**CONFERENCE PRESENTATIONS**

* **Oral presentation** related to “*Weak Coordinating Carboxylate Directed Rhodium(III)-Catalyzed C−H Activation: Switchable Decarboxylative Heck-Type and [4 + 1] Annulation Reactions with Maleimides*” at International Conference on “Emerging Trends in Catalysis” VIT-Vellore, Tamilnadu, India, (Jan 6-8, 2020).
* **Oral presentation** on“*Rhodium(III)-Catalysed C−H Activation with Maleimides by using carboxylate as a weak directing group*” at A National Conference on FRONTIERS OF CATALYSIS SCIENCE & TECHNOLOGY AND ITS APPLICATIONS (FOCSTA-2020) St. Joseph college, Bangalore, India, (2020) (**Won best Oral presentation award**).
* **Oral presentation** on“*Rhodium(III)-Catalysed carboxylate group directed arylation reactions of Maleimides via C-H activation*” at International E-conference on “SUSTAINABLE DEVELOPMENT IN CHEMISTRY AND SCIENTIFIC APPLICATIONS (ICSDCSA-2021) Sadguru Gadage Maharaj College, Karad, Maharashtra, India, (2021) (**Got 2nd Rank in Oral presentation**).

**PUBLICATIONS**

1. Bettadapur, K. R.; **Sherikar, M. S.**; Lanke, V.; Prabhu, K, R. *Asian J. Org. Chem*. **2018**, *7*, 1342.
2. **Sherikar, M. S.**; Kapanaiah, R.; Lanke, V.; Prabhu, K, R. *Chem. Commun*. **2018**, *54*, 11203.
3. **Sherikar, M. S.**; Prabhu, K, R. *Org. Lett*. **2019**, *21*, 4530.
4. **Sherikar, M. S.**; Devarajappa, R.; Prabhu, K, R. *J. Org. Chem.* **2020**, *85*, 5524.
5. **Sherikar, M. S.**; Devarajappa, R.; Prabhu, K, R. *J. Org. Chem.* **2021**, *86*, 4637.
6. **Sherikar, M. S.**; Bettadapur, K. R.; Lanke, V.; Prabhu, K, R. *Org. Biomol. Chem.* **2021**, *19*, 7470.
7. Panigrahi, A.; **Sherikar, M. S.**; Prabhu, K, R. *Eur. J. Org. Chem.* **2021***,* 3054.
8. Kumar, A.; **Sherikar, M. S.**; Hanchate, V. Prabhu, K, R. *Tetrahedron*, **2021**, *101*, 132478.

**REFERENCES**

**Prof. K. R. Prabhu**

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IISc, Bangalore, India.

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