



# FACULTY OF PHARMACY

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Accredited Grade "A" by NAAC

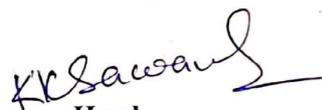
Department of Special Assistance, University Grants Commission

Date: 15/07/2020

## CERTIFICATE

This is to certify that the thesis entitled, "Synthesis and Biological Evaluation of Some Novel Vicinal Diaryl Substituted Heterocyclic Compounds" submitted for the award of Ph. D. Degree in Pharmacy by Mr. Ghuge Rahul Baburao incorporates the original research work carried out by him under my supervision and no part of this work has been previously submitted for any degree.

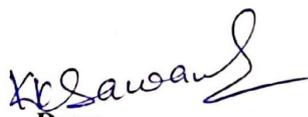
  
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## CERTIFICATE

This is to certify that the following publications have arisen out of the research work carried out by my Ph.D. student Mr. Ghuge Rahul Baburao who wishes to submit this thesis entitled, "Synthesis and Biological Evaluation of Some Novel Vicinal Diaryl Substituted Heterocyclic Compounds" to The Maharaja Sayajirao University of Baroda, Vadodara for the award of Ph.D. in Pharmacy.

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Research Supervisor  
Former UGC-BSR Faculty Fellow,  
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### A. Research/Review Articles

1. Prashant R. Murumkar, **Rahul B. Ghuge**, Monica Chauhan, Rahul R. Barot, Sharmishtha Sorathiya, Kailash M. Choudhary, Karan D. Joshi, M. R. Yadav, Recent developments and strategies for the discovery of TACE inhibitors, *Expert Opinion on Drug Discovery*, 2020, 1-23. DOI: 10.1080/17460441.2020.1744559.
2. **Rahul B. Ghuge**, Prashant R. Murumkar, Kailash M. Choudhary, Karan D. Joshi, Monica Chauhan, Rahul R. Barot, M. R. Yadav, Development of Steroidal Aromatase Inhibitors as Potential Anti-breast Cancer Agents, *Current Enzyme Inhibition*, 2020, 16, 45-62.

## B. Book

1. Yadav, M. R., Murumkar, P. R. and **Ghuge, R. B.**, Eds. *Vicinal diaryl substituted heterocycles: A gold mine for the discovery of novel therapeutic agents*. Elsevier: Amsterdam, 2018.

## C. Book Chapters

1. Barmade, M. A. and **Ghuge, R. B.\***, Vicinal diaryl heterocyclic system: A privileged scaffold in the discovery of potential therapeutic agents. In *Vicinal diaryl substituted heterocycles: A gold mine for the discovery of novel therapeutic agents*, Elsevier: Amsterdam, **2018**; 1-20.
2. **Ghuge, R. B.** and Murumkar, P. R., Therapeutic Potential of Vicinal Diaryl Azetidin-2-ones. In *Vicinal diaryl substituted heterocycles: A gold mine for the discovery of novel therapeutic agents*, Elsevier: Amsterdam, **2018**; 21-46.
3. **Ghuge, R. B.** and Khadse, A. N., Vicinal Diaryl Pyrroles: Synthesis and Biological Aspects. In *Vicinal diaryl substituted heterocycles: A gold mine for the discovery of novel therapeutic agents*, Elsevier: Amsterdam, **2018**; 47-82.
4. Murumkar, P. R. and **Ghuge, R. B.\***, Vicinal Diaryl Oxadiazoles, Oxazoles, and Isoxazoles. In *Vicinal diaryl substituted heterocycles: A gold mine for the discovery of novel therapeutic agents*, Elsevier: Amsterdam, **2018**; 277-303.
5. Sharma, M. K. and **Ghuge, R. B.\***, Chemical and Biological Profiles of Vicinal Diaryl-substituted Thiophenes, Imidazolines, Selendiazoles, and Isoselenazoles. In *Vicinal diaryl substituted heterocycles: A gold mine for the discovery of novel therapeutic agents*, Elsevier: Amsterdam, **2018**; 305-326.