



FACULTY OF PHARMACY

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Accredited Grade "A" by NAAC

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Date: 07.10.2017

CERTIFICATE

This is to certify that the thesis entitled "Designing and Synthesis of Some Medicinally Active Novel Heterocyclic Compounds" submitted for the award of Ph.D. Degree in Pharmacy by Mr. Mayank Kumar Sharma incorporates the original research work carried out by him under my supervision and no part of this work has been previously submitted for any other degree.


Supervisor

(Prof. M. R. Yadav)


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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. Mayank Kumar Sharma who wishes to submit this thesis entitled "**Designing and Synthesis of Some Medicinally Active Novel Heterocyclic Compounds**" to The Maharaja Sayajirao University of Baroda, Vadodara for the award of Ph.D. degree in Pharmacy.

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1. **Mayank Kumar Sharma**, Prashant R. Murumkar, Guanglin Kuang, Yun Tang, Mange Ram Yadav "Identifying the structural features and diversifying the chemical domain of peripherally acting CB1 receptor antagonists using molecular modeling techniques" in "**RSC Advances**" 2016, 6, 1466-1483.
2. **Mayank Kumar Sharma**, Prashant R Murumkar, Mahesh A Barmade, Rajani Giridhar & Mange Ram Yadav "A comprehensive patents review on cannabinoid 1 receptor antagonists as antiobesity agents" in "**Expert Opinion in Therapeutic Patents**" 2015, 25, 1093-1116.

3. **Mayank Kumar Sharma**, Prashant R. Murumkar, Rajani Giridhar, Mange Ram Yadav “Exploring structural requirements for peripherally acting 1,5-diaryl pyrazole-containing cannabinoid 1 receptor antagonists for the treatment of obesity” in “**Molecular Diversity**” 2015, 19, 871–893.
4. **Mayank Kumar Sharma**, Prashant R Murumkar, Ashish M Kanhed, Rajani Giridhar, Mange Ram Yadav “Prospective therapeutic agents for obesity: Molecular modification approaches of centrally and peripherally acting selective cannabinoid 1 receptor antagonists” in “**European Journal of Medicinal Chemistry**” 2014, 79, 298-339.