

## ACKNOWLEDGEMENTS

I wish to express my whole hearted gratitude to my research supervisors **Prof. Shubhangi S Soman** and **Dr. Rajesh Bahekar** for their guidance, suggestions and perceptive criticism while carrying out this work.

I owe tremendous debt to **Shri. Pankaj R. Patel**, CMD, Zydus Cadila for his encouraging and providing the necessary facilities.

It's my privilege to thank **Prof. Anjali Patel**, Head, Department of Chemistry and **Prof. Neelima Kulkarni**, former Head, M.S. University, Baroda.

My special thanks to **Dr. Dipam Patel** and **Dr. Rina Soni** for their guidance.

No words can acknowledge Dr. Jigar Desai, Dr. Anil Argade, Sanjay Gite, Dr. Sunil Dutt and Bhushan Dave for their moral support, encouragement and guidance in the preparation of thesis, which otherwise would have been a difficult task.

Special thanks to lab colleagues Archana Gite, Bhaumin Patel, Gokul Bhosale, and Brijesh Darji for their cheerful co-operation and the help in every aspect throughout this work.

This work would have not completed without the help provided by the analytical group. My sincere thanks to Dr. Sudha Rajagopalan, Jigar Gajjar, Riddham Patel, Timir Patel for recording the NMR, Mass and HPLC / UPLC spectra.

I am extremely thankful to Dr. Krishnarup Ghoshdastidar, Dr. Debdutta Bandopadhyay and Hoshang Patel for *in-vitro* biological evaluation of the test compounds.

Extremely thankful to Dr. Abhijit Chatterjee and Dr. Jogeswar Mahapatra for *in-vivo* pharmacological evaluation of test compounds, to Dr. Harilal Patel for conducting

Pharmacokinetic studies and Dr. Rajesh Sundar for toxicity evaluation of the test compounds.

Sincerely, thanks to Dr. Sachchidanand and Jeevan Kumar for his help in molecular modeling studies.

I would like to extend my thanks to Kaushik Banerjee and Mrs. Clarine Pathak for his whole hearted support and encouragement throughout this work.

My special thanks to Mr. Ashish Gupte (H.R. Department of ZRC) for administrative help.

Finally, no words can express the feelings towards my parents and family members, who have contributed and sacrificed a lot to reach me at this stage and will always remain a sole source of inspiration in my life.

**Nandini Panchal**