
ACKNOWLEDGEMENTS

There are literally numerous people involved in this dissertation work. Many may pass unnoticed. I would like to have some space here to acknowledge some of them that frequently fade into the background.

Special thanks to my supervisor, Dr. M. R. Yadav, Professor of Pharmaceutical chemistry, Pharmacy Department, for sharing his vast knowledge in medicinal chemistry and for his never-ending support and encouragement throughout these past years. His strong belief in science combined with systematic approach, tremendous enthusiasm and convivial criticism has been of great help and inspiration.

My heartfelt thanks to Prof. A. N. Misra, Head, Pharmacy department and Prof. R. Balaraman, Coordinator, Center for Post Graduate Studies and Research in Pharmacy for providing the facilities for research and extending all help within their purview.

My thanks are due to Dr. (Mrs.) Rajani Giridhar, Reader in Pharmaceutical Chemistry, for her valuable suggestions, ever staying support and unbounded love during the course of my study.

I convey my deepest gratitude to Prof. P. J. Rosenthal and Dr. Jiri Gut, Department of Medicine, University of California, San Francisco, for performing Falcipain-2 inhibition assay. Special thanks are due to Dr. Robert Menard and Dr. Paule Lachance, Biotechnology Research Institute, Canada for carrying out Cathepsin inhibition assay.

Thanks are due to Dr. S. S. Nadkarni and Dr. R. C. Gupta of Torrent Research Centre for their encouragement and kind help in getting the NMR spectra of some of my samples.

I am thankful to Dr. M. N. A. Rao, Divis Lab. for providing the gift sample of Boc-carbonate.

I whole heartily thank my Ph. D. colleagues Shiru, Sheru and Bishu for sharing my good as well as bad times, encouraging me and helping me in all possible ways they could. They are the rocks to lean on when the chemistry did not work in the expected direction.

Pranil and Dakshay for their contributions to this study during their Masters project.

Vikas Shirsath, Vikrant, Uttam, Prashant, Jakir, Gundya, Vijay, Subbu, Jaydeep, Leena, Devendra, Parmeshwari, Hetal, Ramu, Anwar, and all my seniors and juniors for their help. A special note for Yogesh for his kind help in the fine editing of thesis.

I express my sincere thanks to all nonteaching staff of Pharmacy Department, for their cooperation and support.

The financial assistance provided by Council of Scientific and Industrial Research (CSIR) is duly acknowledged.

I find no words to express thanks to my parents and my brother and sister, who encouraged and supported me at all the tough times. Nothing could have possible without their love and affection.