



ACKNOWLEDGEMENTS

This thesis arose in part out of years of research that has been done since I came to Professor Ambikanandan Misra's group. By that time, I have worked with a great number of people whose contribution in assorted ways to the research and the making of the thesis deserved special mention. It is a pleasure to convey my gratitude to them all in my humble acknowledgment.

In the first place I owe my deepest gratitude to my mentor, Dr. Ambikanandan Misra, Professor in Pharmaceutics, Pharmacy Department, The Maharaja Sayajirao University of Baroda for his supervision, advice, and guidance from the very early stage of this research as well as giving me extraordinary experiences through out the work. Above all and the most needed, he provided me unflinching encouragement, requisite facilities, and support in various ways. His truly scientist intuition has made him as a constant oasis of ideas and passions in science, which exceptionally inspire and enrich my growth as a student, a researcher and a scientist want to be. I am indebted to him more than he knows.

I would like to record my gratitude to Professor Hamid Ghandehari, Departments of Pharmaceutics & Pharmaceutical Chemistry and Bioengineering, University of Utah, USA for providing supervision, financial support, lab facilities and guidance to complete my part of research work.

I shall like to thank Dr. R. Balaraman, Head and Professor, Pharmacy Department, The Maharaja Sayajirao University of Baroda for providing me the necessary facilities for the research work, Dr. M.R. Yadav, Professor in Pharmaceutical Chemistry, Dr. S.H. Mishra, Professor in Herbal Drug Technology, Dr. R.S.R. Murthy, Professor in Pharmaceutics, Dr. (Mrs.) Rajani Giridhar, Professor in Pharmaceutical Chemistry, Dr.

(Mrs.) K.K. Sawant, Professor in Pharmaceutics, Dr. (Mrs.) S.J. Rajput, Professor in Pharmaceutical Quality Assurance and Dr. R.C. Mashru, Reader of Pharmaceutical Quality Assurance, Pharmacy Department, The Maharaja Sayajirao University of Baroda for their invaluable support during the research work. My sincere thanks are due to the Dean, Faculty of Tech. and Engg. M.S. University of Baroda, for providing me necessary facilities.

I am extending my sincere thanks to Dr. Abhijit Ray, Research Assistant Professor, Dr. Alexander Malugin (Sasha) , Research Associate and Dr. Khaled Greish , Research Associate, Departments of Pharmaceutics & Pharmaceutical Chemistry and Bioengineering, University of Utah, for their advice, supervision, and crucial contribution, their involvement with their originality has triggered and nourished my intellectual maturity. I am grateful in every possible way and hope to keep up our collaboration in the future.

I am very thankful to University Grant Commission (UGC), New Delhi, India for awarding "Junior Research Fellowship" to me during research work.

I am extending my sincere thanks to American Association of Cancer Research for selecting my abstract and providing me financial support to attend the special conference at San Diego, California.

I also express my gratitude to Panacea Biotech Ltd, Lalru, and Torrent Research Center, Ahmedabad for providing me a partial financial support to complete my part of research work at University of Utah, USA.

I express my special thanks to my friend Mr. Mahavir Chougule, Post Doctoral research fellow, University of Florida, Mr. Bhagirathi, Mr. Gaurang, and Mr. Umang shah and his family for their kind help and support.

I would to thank to my all colleagues, Dr. Pranav, Dr. Viral, Dr. Nazneen, Ms. Pinki, Mr. Hamsaraj, Mr. Yogesh, Mr. Kamal, Mr. Nirav, Mr. Bhavik, Mr. Divyen, Ms. Florence, Ms. Gitanjali, Mr. Prashant, Ms. Shraddha, Ms. Vijayalakshmi, Ms. Arnida, Ms. Tian, Mr. Phillip, Mr. Dan, Mr. Nat, Mr. Mak, Mr. Gagan, Mr. Hammad, Mr. Antony and Mr. Joshi for their fruitful advice and constant co operation.

I take a special note of thanks to all office and Laboratory staff of the G. H. Patel Building and Pharmacy Department, Kalabhavan, M. S. University of Baroda, for their constant support during my studies. Thanks are also due to Office staff, Faculty of Tech. and Engg., and M. S. University of Baroda for there support and cooperation.

I am feeling out of word to code an appropriate thanks to parents. It was the love and indispensable support of my family who despite all inconvenience and typically perpetual insolence provided me with the best possible of every thing in my ascent to the present accomplishment. I take this opportunity to convey my special thank Ms. Deepa for her great support and help to fulfill the completion of my thesis work.

Last but not the least, I thank my spiritual Guru "Shri Asaramji Babu" for empowering me with courage and strength to take up and accomplish the task.

Finally, my sincere apologies to all those; whose name could not be included in this section. No names have been intentionally missed out.


Sachin Naik