

ACKNOWLEDGEMENTS

First of all, I pay reverence to the ALMIGHTY GOD , who has blessed me with love and courage. Without his graces and blessings this study would not have been possible.

I would like to express my gratitude to Honorable Sir Sayajirao Gaekwad, the founder of The Maharaja Sayajirao University of Baroda for establishing such a wonderful and multidisciplinary education foundation.

I would like to express my deepest gratitude to my esteemed Research Guide, Prof. (Mrs.) Sadhana J. Rajput, Dean, Faculty of Pharmacy, The M S University of Baroda, for her supervision, advice and guidance from the very early stage of research as well as giving me freedom to explore my ideas , requisite facilities and extraordinary experiences throughout the work. I am privileged to work under her guidance and improve my intellectual and managing skills. Due to her inspiration, faith and dedication, I could climb up the ladder of my research work.

I express my deep sense of gratitude towards our vice-chancellor Dr. Parimal Vyas for providing excellent facilities and giving constant encouragement for research work.

I also express my heartiest thanks to Prof. M. R. Yadav, Prof. Krutika Sawant, Prof. A.N. Mishra, Dr. Rajashree Mashru, Dr. Pankaj Nagar, Dr. Kirti Patel, Dr. Hetal Thakkar, Dr. Prashant Murumkar, Dr. Navneet Prajapati, Dr. Hemal Tandel and Mr. Bhavik Chauhan for their valuable suggestions, support and help whenever sought for.

I am greatly indebted to University Grant Commission (UGC) , New Delhi for awarding UGC-BSR(RFSMS) Fellowship, for providing financial assistance for my research work.

I would like to express my gratitude towards Dr. T. Rajamannar, Chairman, Sun Pharma Advanced Research Center, Vadodara and Dr. S.P.D. Dwivedi, Senior Vice President, Head (API R& D), Sun Pharma Advanced Research Center, . Arun Yadav, Mr. Hiren Shah and Mr. Suraj Dodiya for providing instrument facility and technical support. I wish to heartiest thanks to Dr. Krishnamurthy, Head, Sun Pharma Technical Training Academy, Mr. Oscar Paul Rodrigues, Mr.Dhiraj Gupta for their technical suggestions and help.

I would like to express my gratitude towards Anand Pharmacy College, Anand for providing HPTLC facility. I wish my heartiest thanks to Ms.Jenne Christian for her help in HPTLC.

I would like to express my gratitude towards Mr. Sudhir Nagar, President Marketing, Arch Pharmalabs Pvt.Ltd. , Dr. Shubhadeep Sinha, Senior Vice President ,Hetero Drugs, Dr. Mahesh Burande, Director, I.P.E.R. Pvt.Ltd., Dr. Jitendra Suryawanshi, Dr.Md.Afzal Azam, Mr. B. Mohan, Mr. Praveen Bhutada, Mr. Avtaar Singh and Mr. Rahul Ghuge for their technical suggestions and help and guidelines in my research work.

I express my thanks to my colleagues Kinjal Parikh, Mohit Mahajan, Seema Saroj, Priya Shah, Raghuvveer Singh Parmar, Mansi Sathe, Neerav Patel, Sagar Patel, Dushyant Patel, Pragati Makadia and M.Pharma Colleagues Suraj Fanse, Vani Pandey, Jaya, whose words of encouragement and support made my research pathway simpler.

I also express my heartiest thanks to Mr. Chandrakant, Mrs.Vaishali, Mr.Bharat Bhai and all other non-teaching staff for their help and support.

My family deserves special mention for their inseparable support and prayers throughout the year and their confidence and faith on me who have stood behind me in every endeavor and have provide constant encouragement. I wholeheartedly and deeply thank my mother-in-law, father, mother, sister, sister-in-law, brother, nephews for their never ending love and support. Finally I am grateful to my husband Mr. Pares Pandya for his love, patience and endless support until the completion of my Ph.D. dissertation. It is a genuine pleasure to express my love and thanks to my son Aarnav Pandya, whose cooperation and sacrifice made my Ph.D. work possible.

At last, I would like to thankful to everybody who have helped me directly or indirectly in completing my Ph.D. work as well as expressing my apology that I could not mention personally one by one.

Charu P. Pandya