

ACKNOWLEDGEMENT

The long cherished dream has come true. I am on the verge of getting my doctrate degree and this is the time to say a sincere thanks to all those who have helped me directly or indirectly to sail through.

I offer flowers of gratitude to the almighty God for bestowing me with a gift of this precious life.

Sincere thanks to my love - Sneha, my parents and my brother & Bhabhi who have stood by my side during difficult times of my life. They have been the source of strength and inspiration throughout my life.

Great things need creator so from deep inside my heart I would like to express my indebtedness to my guide, Dr. Ambikanandan Misra, Prof. of Pharmaceutics, Faculty of Pharmacy, The M. S. University of Baroda, for creating a great master piece out of nothing. I also thank him for his invaluable guidance, boundless enthusiasm, kind co-operation and constant inspiration throughout the course of study. I also thank him for laying proper foundation and base of my research project.

I also express gratitude to Prof. S. J. Rajput, Professor and Dean, Faculty of Pharmacy, for her great support and appreciation during my tenure. My sincere thanks to Prof. M.R. Yadav, former Dean for setting up such a great facility.

I express my sincere thanks to Prof. (Mrs.) Krutika Sawant, Head, Pharmacy Department for providing the great facilities and creating great atmosphere for research purpose.

I also thank to Prof. Kirti Patel, Co-ordinator, Shri G. H. Patel Post Graduate Research Centre for her great support during my work and always supporting me whenever needed. Thank You very much Mam.

I would also acknowledge the support by DBT-MSUB-ILSPARE and UGC for granting fellowship and providing financial support which played key role in fulfilling the Ph.D. work.

“A friend in need is a friend indeed”, the quote comes true for all my friends. So, this acknowledgement cannot proceed without thanking my colleagues and friends and wishing them success in life. Their presence itself instilled confidence and lifted the sagging spirit. I would like to thank Lalji Rathod, Jinal Trivedi, Bhavesh Variya and Dhruv Butani for being my “fire brigade” and always helping me during urgent and critical situations. Really you have made my Ph.D. journey easy and provided strength to overcome obstacles. A sincere thanks to them for being my “24 hours helpline service”. I would also like to acknowledge Manit for his help and support during the project.

I would like to thank Abhijeet Pandey and Dhaval Bhavsar for providing me bPEI (25kDa) and lactoferrin and also helping me whenever needed in my project work.

I express my gratitude whole-heartedly to Prof. Neelima Kulkarni, Head, Department of Chemistry, The M.S. University of Baroda for providing permission for NMR. Also, I would like to thank Prof. Shailesh Shah for performing NMR and providing valuable guidance and all the required help.

I express thankfulness to Prachi Bhamre for her kindness and endless help during project work especially FT-IR analysis. Really you have pushed me for carrying out such a great work by continuous motivation. I would also like to acknowledge Mr. Chintan Vora, Mr. Riddhish Patadia, Mrs. Reshma Jain, for helping me during project work and being modest and kind with me.

I express my sincere thanks to Dr. Sarita Gupta, Mrs. Komal Raval and Mr. Akhilesh for helping me in cell line studies.

I would also thank Mr. Viral Jogani and Mr. Kaushal Patel, Sun Pharmaceutical Industries Limited for carrying out plume geometry analysis of the developed nasal spray.

I would also like to thank Abhay, Mitul, Mr. Tushar and Gaurav from Department of Biochemistry, Faculty of science, The M.S. University of Baroda for their kind help in Western blot study.

I express my gratitude to Hardik Savsani and Prachi Karia for providing complete freedom to work in the pharmacology lab and helping me out with the animal studies. I am also grateful to Rudra Vyas for helping out in in-vivo efficacy study.

I am grateful to Tosha for carrying out viscosity determination of nasal spray. Special thanks to Hinal for helping me out during agarose gel electrophoresis. Also, acknowledge help of Ankit for mucin binding study and ex-vivo permeation study.

I acknowledge the help provided by Vaishali Mam, Hina mam, Pragneshbhai, Chandrakantbhai and other non-teaching staff at Pharmacy Department.

Last but not the least, I express my gratitude and apologize to everybody whose contribution I could not mention in this page.

With Regards,

RAVI GANDHI

*The only thing
that will stop You
From fulfilling your
dream is
“You”*