ACKNOWLEDGEMENT

At the outset, I express my special thanks to Dr. P.D. Patil, Chancellor, D.Y.Patil University, Pune and Director and Trustee, Dr. D.Y. Patil Pratisthan, for providing excellent infrastructural facilities for undertaking this research work.

I express my profound gratitude and indebtedness towards Dr. A. D. Deshpande, Director, Pad. Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune for giving me an opportunity to pursue my doctoral studies and providing excellent infrastructural facilities to carry out the work.

Every event, small or big in nature, is itself a creation. At the heart of every event, lies a cause, a reason and a motivating force or an inspiration. To a student, in whatever walk of life he may be, this inspiration is always there through a guide, a mentor. It gives me a deep-seated pleasure to express my sense of gratitude to my respected guide Prof. Dr. Manohar J. Patil, Principal, Marathwada Mitra Mandal's college of pharmacy, Kalewadi, Pune for his excellent guidance and dedicated efforts that enabled me to think upon and understand problems and to solve them judiciously. He was a constant source of inspiration for me.

I am immensely thankful to our Principal, Dr. S. V. Shirolkar for his kind guidance and constant inspiration throughout my research work.

Words do not suffice to express my sincere and humble gratitude to Dr. Pravin D. Chaudhari, for his constant inspiration which helped me a lot towards completion of this work.

I express my profound gratitude and indebtedness towards Prof. Sohan S. Chitlange, who was always there to stretch his helping hands, valuable guidance and suggestions, meticulous care, moral support, scholastic advice, towards completion of this work and personal affection in taking me towards the goal. It is he who, instilled in me the need to have an enquiring mind and it is for him that I could
learned what this science of research means. I cannot forget his method of approach a problem and this will help me throughout my life.

I take this opportunity to place on record my deep sense of gratitude to Prof. R. K. Nanda, Head, Department of Pharmacology, Dr. D. Y. Patil Institute of Pharmaceutical Sciences and research, for his encouragement and providing me his valuable guidance during my work.

I am immensely thankful to Dr. A.R. Bafna and Dr. P.A. Bafna for their kind guidance, valuable suggestions and helpful nature during the entire course of this research work.

I articulate my sincere and special thanks to Ms. Gayatri Ganu, for her kind cooperation, untiring efforts and timely help given throughout the study.

I express sincere thanks to all my colleagues specially Amol Kulkarni, Dr. Sagar Wankhede, Parag Kulkarni, Maruti Shelar, Mukund Tawar and Anupama Suralkar for their kind cooperation during this project. I am grateful to all other faculty members of my college, for their valuable suggestions extended from time to time.

I am really ineffable to thank all my passed out students Laxmikant, Yogesh, Dinesh, Ramesh, Shailesh and Pravin, for their ever willing and incessant help rendered towards fulfillment of my research work.

I express my heartfelt thanks to my students Bandu, Deepak, Mayur, Shubhangi, Priti, Sohani, Aarti, Malti, Pratibha and Shilpa for their excellent co-operation throughout the project.

I am very thankful to our non teaching staff Mr. Vijay and Mr. Suresh for their kind support.

My sincere thanks are due to my friends Prof. Vipin Joshi and Mr. Ankoor Deshpande for extending their good wishes for completion of my course.
I express my deep sense of gratitude to my lovable soulmate Namrata for her unconditional support and untiring efforts in each and every walk of my life and ofcourse my two darling angels Sneha and Spruha, without their sweet moral support it could have been impossible for me to complete this work.

My heartfelt of thanks to my wonderful sisters Sarita and Sangita for their lots of love and blessings bestowed on me, and ofcourse I cannot forget to place my deep sense of record to Mangesh, Rakesh and my beautiful Smruti, Shakti, Shreyas and Shreya.

I am very much thankful to Mr.Ankush Yadav, Ashwini Yadav, Swati, Kirti, Rishabh and my cousins Rahul and Rachana for their continuous encouragement and guidance.

It is my responsibility to place on record my sincere gratitude to my Grand Parents and Mr. and Mrs. B.G.Galande and Mr. and Mrs.Y.G.Galande for their continuous motivation and moral encouragement throughout my career.

I place my sincere gratitude towards Dr.S.R.Hande, Dr.Prabha Hande, Dr.Pratik Hande and Dr.Jaya Hande for their good wishes in pursuing my doctoral studies.

Last but not least, I often wonder, if one gets to see God in this moral life, I consider myself privilege to have seen such an entity in my Aai and Papa, for whom no sacrifices is great towards pursuit of education. I salute to my most lovable father and mother with love and affection.

Date: / /201 Santosh.S.Bhujbal
Sharma
Place: Pune.