Acknowledgements

I take this opportunity with immense pleasure to express my deep sense of gratitude to my research supervisor Dr. B. C. Dixit, (Lecturer and Head, Chemistry Department, V. P. & R. T. P. Science College, Vallabh Vidyanagar), from whom I’ve learned so much. Your enthusiasm and dedication to research and positive attitude have been inspirational. You have given me confidence and prepared me well for a career path that I never knew was at hand.

My entire work was carried out in the Chemistry Department, V. P. & R. T. P. Science College, therefore, I wish to express my gratitude to the authorities of Charutar Vidya Mandal and Dr. D. J. Desai, (Principal, V. P. & R. T. P. Science College, Vallabh Vidyanagar) for his keen interest in the research, and for providing all necessary laboratory and library facilities.

I would like to thank Dr. K. D. Patel & Dr. M. M. Morekar, (Lecturers, V. P. & R. T. P. Science College), who have directly or indirectly helped me during my research work.

I would like to thank Dr. R. K. Patel and Mr. P. R. Dudhgara, (Life science Department, North Gujarat University, Patan). Their unique points of view made me appreciate the exciting nature of research at the interface of biology and chemistry. They helped me to perform the in silico and in vitro evaluation of compounds.

I am thankful to all teaching and non-teaching staff members of V.P. & R.P.T.P. Science College for their benevolent cooperation.

My most heartfelt expression of gratitude to lab mate Chandresh for his advice and discussions with him has been invaluable to my work.

I would like to express my thanks to seniors Dr. Hitendra Patel, Dr. Ashish Maheta, Dr. Vipul Kaila and to all my colleagues, Santosh, Chaitanya, Gaurang,
Ravi, Gautam, Satish, and Tarosh for maintaining a warm and an encouraging atmosphere. They made my working in the lab very enjoyable. It is my duty to acknowledge all my friends for keeping their patience with me throughout my anxieties during the past years.

Special thanks to my Cousin brother Dr. N. V. Sojitra, due to his efforts, I was climbing doors steps of chemistry, without his support this work was not possible.

Words are insufficient to express my gratitude to my beloved parents. The present work would have not been possible without their blessings, indispensable help, patience and encouragement in all my endeavors. Whatever I am today is due to my brothers Bharatbhai and Ashokbhai for their continuous encouragement and support throughout.

Last but not least, I offer my prayer to Almighty without whose blessings, nothing is possible.

– Natvar A. Sojitra