It is a moment of gratification and pride to look back at the long traveled path, to be able to sum up some of the finest moments, thinking of a few people, some who were with me from the beginning, some who joined me at different stages during this voyage, whose kindheartedness, love and blessings has brought me to this event. I wish to thank each of them from the bottom of my heart.

First and foremost, I would like to record my sincere gratitude to most respectable guide and thesis supervisor Dr. Shaukath Ara Khanum, who has helped me at each and every stage of my research work with patience and enthusiasm. I am much indebted to her for her inspiring guidance, affection, generosity and everlasting supportive nature throughout the tenure of my research work.

I would like to bow my head with utter respect and convey my pleasant regards to my most adorable Parents and Parent In-laws for believing in me and also for their blessing, constant support, courage and enthusiasm.

I am equally thankful to my wife Shilpa B, for her endless moral support and belief. I appreciatively remember her importunate support with lots of love and encouragement. She constantly encouraged me to remain focused on achieving my goals. And I cannot forget to express my lovely thanks to my kid G Ruthvik Teja for his cheerful support.

I am thankful to Dr. Rakesh Ganorakar for his enthusiasm and inspiration. His true scientific intuition has made him a constant oasis of ideas and passion in science, which has exceptionally inspired and enhanced my growth as a student, researcher, human and as a scientist.

I would like to express my deep and sincere gratitude to my promoter, Dr. Jegadeesh Thampi who permits me to conduct the research work and ultimately helped to accomplish the dream.

In particular, a special thanks to Syngene International Ltd for permitting me to execute the research work and creating a wonderful opportunity to achieve my objective.
Acknowledgements

Words are inadequate to thank my dearest friends Girish V, Prashanth T, Lakshmi Ranganath V and Naveen P who has always with me in well and horrific phase of my research period, helping me in all situations. I thank them whole heartedly for their guidance, enthusiasm, support and encouragement throughout my tenure.


A special thanks to everyone who helped me to carry out the biological evaluation of my compounds. Sathees C. Raghavan, Department of Biochemistry, Indian Institute of Science, Bangalore. Dr. C.V. Kavitha, Dr. Farhan Zameer, Raghavendra Hegdekkatte and Noor Fatima Khanum.

Further, I would like to thank teaching and non-teaching staff members of Department of Chemistry, Yuvaraja’s College and DOS in Chemistry Manasagangotri, University of Mysore, Mysore.

I would like to give special thanks to my family members for their continuous support and love which are a source of my life.

Lastly I would like to thank each and every one of them who helped me directly or indirectly during this wonderful and lots of experience gaining journey. Above all, I thank God, for giving me the intellect to understand the complexity of chemistry and giving me strength to complete this research.

Gurupadaswamy HD