ACKNOWLEDGEMENT

I sincerely thank my beloved respected and learned teacher as well as my research supervisor Prof Abburi Krishnaiah Professor in Chemistry Department of Chemistry S V University Tirupati for his supervision guidance support suggestions and advice at all stages of this research study.

I am thankful to Prof S Jayarama Reddy (former Head & Present Vice chancellor) Prof M V Prabhakara Rao (former Head) Prof K Subramanyam Reddy (present Head) and Prof G K Raman for providing necessary facilities.

I am highly obliged and thankful to Dr Lalji Singh Director Center for Cellular and Molecular Biology (CCMB) Hyderabad for permitting me to pursue this programme and for allowing me to use necessary facilities at CCMB Hyderabad.

I wish to express my sincere thanks to Dr S Shrivaji Senior Scientist CCMB Hyderabad for the help and encouragement given to me during the course of work. I am also thankful to the authorities of CCMB for providing help while carrying out this work.

I wish to express my warm and deep gratitude to Prof Dipankar Chatterji Indian Institute of Science Bangalore for his encouragement inspiration and stimulating discussions during the course of research work and to (Late) Dr Darshan Ranganathan for synthesizing and proving bis acridine used in this work.

Dr C S Sundaram Dr V M Dhople Dr M V Jagannadham Dr K Thangaraj Dr Vyaya Gopal Dr Purnima Bhargava Dr Guruprasad Dr L V K S Bhasker and Mrs Mehar Sultana receive special note of appreciation and thanks for their readiness in giving advice suggestions and help at various stages of thesis preparation.

I am thankful to Mr K V N Suresh Reddy and Mr P Srinivas Rao Research Scholars Department of Chemistry S V University Tirupati for extending their helping hand in case of need.

I am very much grateful to the supporting staff of CCMB such as Mr Nageswara Rao and Giri (Digital Imaging section) Mr Pream Kumar (Drawing section) Mr Prabhkar and Mr Mallesh (Xerox section) for their help during the preparation of the thesis.

I take this opportunity to thank my wife Mrs N Lakshmi and my childrens Ch N Navya and Ch N Nikhil for extending their cooperation and encouragement during the period of my research work.

NARAYANA NAGESH