ACKNOWLEDGEMENTS

It is a pleasure to place on record my grateful thanks to my research supervisor Dr. K. Hussain Reddy, M.Sc., M.Phil., Ph.D., Associate Professor, Department of Chemistry, Sri Krishnadevaraya University, Anantapur for his invaluable indoctrination, indubitable explanations, abiding encouragement are inestimable and adorable in ever sense, at every stage of my research work.

I express my sincere indebtedness to Prof. R. Sreenivasulu, Chairman, Board of Studies, Prof. V. Suryanarayana Rao, Head, Department of Chemistry and Prof. T. Sreenivasula Reddy, Former Head, Department of Chemistry and other faculty members for their help and encouragement.

I apprise my sincere reverence to Prof. S. Dayananda, Department of Biochemistry, Sri Krishnadevaraya University, Anantapur for his helpful deliberations in carrying out nuclease activity work.

I avouch my grateful thanks to UGC, New Delhi for financial support in form of Project Fellow.

I am gratefully indebted to Pakala Suresh, Department of Biochemistry in assisting to carry out nuclease activity, Dr. P. Samabasiva Reddy, Post Doctoral Fellow, Mississippi University and Dr. A. Ravikumar Reddy, Research Associate, IISC, Bangalore for their constant encouragement.

I am extremely thankful to Head of the RSIC, IIT, Chennai, and Mumbai for providing VSM and ESR spectral data for my research samples.
I am fortunate to have wonderful company of Dastagiri Reddy, Krishna Rao, Sridhar, Ravi Raj, Venkatnarayana Reddy, Karuna, Brinda and Ramesh in the Department.

I owe my heartfelt thanks to my friends, Venkatesh, Murali, Prabakhar, Kallappa, Jagadish Naik, Baskar, Gopi, Jagadish, Chakri, Chandra, Sanjeev, Divakar, Prasad, Ramu, Venkat and Late Bhaskar.

Finally, but with great sense, I express my gratitude to my beloved parents Sri M. Suryanarayana Rao and Smt. M. Damayanthi, sister Sunanda and brother Ravindra Babu for inspiring me in all the way to carry out the research work.

I am thankful to Sri V. Sahadevan and S. Sandeep for data processing the dissertation neatly.

M. SURENDRA BABU