ACKNOWLEDGEMENTS

I like to express my sincere and deep sense of gratitude to Prof. A.M. Siddiqi for his valuable guidance, encouragement advice and direction throughout the period of investigation.

I am deeply indebted to Dr. M. Saleemuddin for his keen interest to initiate this work and his whole-hearted cooperation and fruitful suggestions.

My sincere thanks are due to Prof. W. Rahman, Head, Department of Chemistry, A.M.U., Aligarh for his interest and providing necessary facilities.

I am extremely grateful to Dr. A. Salahuddin, Reader, Department of Biochemistry, J.N. Medical College, A.M.U., Aligarh for many fruitful discussions.

I express my thanks to Drs. Nafees Ahmad, S.M. Hadi, S.H. Haque, A.N. Khan, M.N. Khan, S.Y. Khan, F.R. Khan, and Saeed Siddiqi for their continued encouragement.

I sincerely acknowledge the friendly cooperation and salutary help from Messers S. Umar, M.T. Siddiqi, Altaf Ahmad, Badar A. Zaidi, Saeed Ahmad, Abul Qasim, M.A. Beg, N. Saeeduddin, Mrs. Nazma Umar, Miss Bilqees Bano, Miss R.Y. Rizvi, Miss S. Malik, Miss R.J. Khan, and Miss Mahtab Alam.

I am thankful to Mr. Itija Khan for his technical assistance, Mr. Abdul Waheed Khan for typing the dissertation and C.S.I.R. for financial support.