ACKNOWLEDGEMENTS

I wish to express deep sense of gratitude to my supervisor Professor W.A. Nizami for his diversified guidance, encouragement and exuberant style of inspiration throughout the course of this study. Infact it was a great privilege to work under his guidance.

Sincere thanks are due to the Chairman, Department of Zoology, A.M.U., Aligarh for providing the necessary laboratory facilities.

I am also particularly indebted to Professor A.H. Siddiqi, Department of Zoology, for critically going through the manuscript.

My appreciation is also extended to my colleague Dr. S.M.A. Abidi for extending necessary help for scintillation counting.

Thanks are also due to Dr. A.A. Siddiqui for his advise on the isolation technique of surface plasma membranes. My special thanks to Dr. R.G Mattison, visiting Post Graduate student from Queen's University Belfast, for sending literature and books freely whenever requested.

Expert guidance in electron microscopy as provided by Mr. G.P. Brennan, Chief Electron Microscopist, visiting fellow from Q.U.B., Belfast, is gratefully acknowledged.

To my colleagues Dr. M. Ahmad, Dr. M. Arfin, M. Irshadullah, Afsar Ali, K. Saifullah and Gul Ahmad. I am thankful for their generosity with which they have provided assistance to accomplish this work and they have truly shared in its gestation which was much longer than expected.
I am grateful to Mr. Ziaur Rehman and Mr. Mushtaba for typing the manuscript and for photography respectively.

I am also grateful to Mr. Abul Kalam, Mr. Rais Beg for collection of the parasites.

Finally, I gratefully acknowledge the AMU and UGC, New Delhi for providing the financial assistance.

In the end, I would like to express my gratitude to my husband Mr. Sarwar Kazim, without whose help, cooperation and encouragement, this thesis would have never been completed.