ACKNOWLEDGEMENTS

I express my deep sense of gratitude to Dr. G. P. Sharma, Ph. D. (Pb.), Ph. D. (Edin.), F.A.Z., F.I.A.Z., F.Z.S., F.Z.S.I., F.P.M.S., F.N.A., F.N.A.Sc., Professor and Head of the Department of Zoology, Panjab University, Chandigarh, for suggesting to me this extremely interesting line of research, for his constant encouragement and guidance. I may also extend my sincere thanks to him for going through the manuscript and for providing to me the necessary research facilities in his well-equipped laboratories.

My sincere appreciation is recorded for Dr. Ram Parshad, Department of Pathology, College of Medicine, Howard University, Washington (U.S.A.) and Dr. S. M. Handa, Department of Zoology, Panjab University, Chandigarh, for taking keen interest in the present research work and for going through certain sections of the text.

I am greatly indebted to Dr. K. N. Sharma, Ph. D. (Edin.), Professor and Head, Department of Zoology, Gauhati University, Gauhati, Assam, for many kindnesses in making available to me the laboratory space and equipment. I also feel pleasure in acknowledging Mr. D. Gogoi, Secretary University Classes, Gauhati University, Gauhati, for helping me in several ways.
It is indeed a pleasure to acknowledge the assistance of Dr. Ponovic, WHO Epidemiologist, Mr. F. Fajgopal, Assistant Director, Mr. S. Matin, State Entomologist and their team of field workers, Malaria Department, Shillong (Assam), for their precise familiarity with the sites for field collection and for the identification of the various mosquito species.

I am also thankful to my colleagues Mr. O. P. Sharma (K. Sc. Hons.) and Mr. S. C. Pasahan (M. Sc. Hons.) for supplying to me their unpublished work on the cytogenetics of mosquitoes and also for many stimulating discussions which resulted in the development of several ideas included in this thesis.

I especially acknowledge the Khasi tribes of Assam for their active co-operation during the night collections from the cattle sheds and human dwellings.

This work could not have been possible without the financial assistance of the Council of Scientific and Industrial Research, New Delhi, for which I am very much indebted to this organization.

Last but not the least, I am thankful to my friends for their valuable help.

(Sudarshan Chaudhry)