ACKNOWLEDGEMENTS

The credit of this thesis is incomplete without expressing my most sincere thanks to all those who contributed to the completion of this work in every possible way. First and foremost, I would like to express my deep sense of gratitude and indebtedness to Dr. M. I. Andrews, Research Guide, Department of Zoology, Mar Thoma College, Tiruvalla for suggesting this topic and for being a constant source of inspiration giving me timely support and guidance from the start to the finish of my work. My gratitude to him is beyond words.

I am thankful to University Grants Commission for awarding me teacher fellowship under Faculty Improvement Programme. Very benevolent was the attitudes of the Principal, N. S. S. Hindu College, Changanacherry and N. S. S. Management towards me during the course of my research work. Most sincerely I express my gratitude to them.

Principal, Mar Thoma College, Tiruvalla, Prof. Koshy Thomas, Head of the Department of Zoology and Prof. George Thomas, former Head of the Department have helped me in providing all facilities to conduct my studies. I express my gratitude to them. I am extremely happy to thank Dr Mercy Mathew, Reader, Department of Zoology, Mar Thoma College Tiruvalla for her sisterly support and academic help.

A great deal of thanks goes to Mr. Ramesh B. Nair, Assistant Director, Statistics Division, Rubber Board, Kottayam, for helping me to do the statistical analysis. I am much thankful to Dr. A. Jayasree, M.B.B.S, M.D (Pathology), Gokulam Medical College, Thiruvananthapuram, for her valuable help for histopathological studies. My sincere thanks are due to Dr. P. T. Chandralekha and Mr. C. R. Prathapan, Biocenter, Changanacherry for their help in photomicrography of histological studies.
I express my heartfelt gratitude to Prof. M. Gopakumar, Head, Department of Zoology, N. S. S. Hindu College, Changanacherry and all my teachers and colleagues there, for their encouragement and constant moral support. My special thanks are due to Mr. Nandakumar. S, Lecturer, Department of Zoology, N. S. S. College, Pandalam, for his interest in my work and enthusiastic encouragement. The services received from Mr. Anilkumar, Research Scholar, School of Biosciences, M. G. University are gratefully acknowledged.

This entire piece of work would not have been materialized without the constant support and mental courage received from my husband Mr. C. Jayachandran. I am very happy to place on record my love and gratitude to my sister Dr. Ushamani Sajeev for her sincere help and care. My beloved mother and my kids went through all the difficulties and inconveniences with great patience during the course of this work and my gratitude to them knows no bounds. I am also grateful to my mother in-law and other family members for their encouragement and help.

My faith in God helped me a lot to strengthen my mind for the fulfillment of my work.

Renuka. M. R