ACKNOWLEDGEMENTS

I express my deep sense of gratitude and sincere thanks to my Guide Dr. K. Murugan, M.Sc., M.Phil., Dip. Ent., Ph.D., M.O.S. (USA). Senior Lecturer, Department of Zoology, Bharathiar University, Coimbatore, whose knowledge has been freely utilized for suggesting a problem having a global utilization with its multidisciplinary approach. The success of this dissertation is undoubtedly due in no small measure to the excellence of his guidance.

I record with pleasure and gratitude to acknowledge Prof. G. Sundararajulu, Ph.D., D.Sc., F.A.Z., Professor and Head, Department of Zoology, Bharathiar University, Coimbatore, for his valuable suggestions, constant encouragement and giving advice during the course of my work.

It is a great pleasure to acknowledge Dr. R. Manavalaramanujam, M.Sc., M.Phil., Ph.D., Reader, Department of Zoology, Coimbatore for his constant encouragement and support during the course of study.

I am extremely indebted to convey my bonquet of thanks to Dr. G. Vanithakumari, M.Sc., Ph.D., F.A.S.I., F.I.C.S., Reader, Department of Zoology, Bharathiar University, Coimbatore, for guiding and supporting me with related discussions regarding the work.
I express my sincere thanks to Dr. K. Sasikala, M.Sc., Ph.D., Senior Lecturer, Department of Zoology, Bharathiar University, Coimbatore for her keen interest in this investigation.

I am greatly indebted to Prof. M.B. Isman, Department of Plant Science, University of British Columbia, Canada, for providing me azadirachtin and reprints with the valuable suggestions. My sincere thanks also goes to Dr. Kleeberg, Trifolia-M GmbH, Germany; Dr. C. Hellpap, GTZ/Institut fur phytopathologie and Angewande Zoologie, Germany; Mr. Seiichi Yonekawa, Director, Bio-Top Ltd., Ashiya City, Japan and Prof. A.J. Mordue (Luntz), Department of Zoology, University of Aberdeen, Scotland, for providing me azadirachtin and reprints.

I thank Dr. K.Sarala Das, Professor and Head, and Dr. Y. Rama Mohan, Associate Professor, Department of Neuropathology, National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore for permitting to use the Electron microscope facilities. The help rendered by Dr. N. Gayathri, Senior Scientific Officer, Mrs. Hemavathy Umakanthan, Senior Technician, Mr. D. Satish Kumar, Mr. G. Ramesh and Mrs. T. Ruby Sobithain are gratefully acknowledged.

I owe special thanks to Dr. S. Thimme Gowda, Associate Professor, University of Agricultural Sciences, Bangalore and his family, for their unreserved help and kind cooperation during my stay at Bangalore.
I am gratefully indebted to Dr. P. Devaraj, I.F.S., Dr. A. Balu and Mr. Narayanan, Institute of Forest Genetics and Tree Breeding, Coimbatore, for providing facilities for microphotographs.

I express my sincere thanks to Prof. K. Udaiyan, Professor and Head, Department of Botany, Bharathiar University, Coimbatore, for his valuable suggestions at all phases of work.

I also wish to express my thanks to Mr. Muthuswamy, for the technical assistance rendered during the course of study.

I owe special thanks to my colleagues Mr. D. Jeyabalan, Mr. N. Senthil Kumar, Mr. S. Senthilnathan, Ms. R. Senthilvadivu, Mr. S. Sivaramakrishnan, Ms. R. Kavitha, Ms. R. Hema Priya, Ms. Chitra and Mr. N. Raja for their volunteered help during the course of study.

I had the good fortune to secure the help of all seniors Dr. M. Ramesh, Dr. R. Sampathraj, Dr. R. Raja, Mr. M. K. Kanagaraj, Mr. M. Selvaraj, Ms. K. Sivakumari and all others for their help and support throughout the course of this study.

My special thanks goes to Mr. P. Viswanathan and Mr. Balasubramanian (Department of Botany), Mr. C. Gopalakrishnan (Department of Sociology), Mr. S. Raja and Mr. P. Saravanan (Department of Physics) for their unreserved help and kind co-operation during the study. I would also like to thank all my well wishers and friends who in one way or other helped me for the successful completion of the work.
I am very grateful to the Council of Scientific and Industrial Research (CSIR), New Delhi for the award of Senior Research Fellowship (SRF) during the study.

I lack words to thank my parents and all my family members who have been extending their support to me all through.

Credit goes to Mr. Suri, Photographer and M/s. Service Shack for giving the present get up to the dissertation.