ACKNOWLEDGEMENTS

I express my sincere gratitude to my research supervisor, Dr. M.S. Krishna, Assistant Professor, Department of Studies in Zoology, University of Mysore, Manasagangotri, Mysore, under whose guidance the present work was carried out. The research work could be completed and thesis could be written only because of his co-operation, unstinted encouragement, constructive criticism and careful supervision. His concern has always been for my welfare and I am honoured to have studied under his direction.

I am thankful to the present Chairman Prof. Shivabasavaiah and all former Chairpersons of the Department of Studies in Zoology, Prof. S. N. Hegde, and Prof S. R. Ramesh and University of Mysore for their constant encouragement, valuable suggestions and facilities provided. I express my sincere gratitude to the present Chairperson of the Board of Studies, Prof. Vijayan, V.A. and previous Chairperson of BoS, Prof. Shivabasavaiah, members of the Doctoral and Colloquium committee Prof. S. R. Ramesh, Prof. V. A. Vijayan, and Prof. N. B. Ramachandra for their help and support to carry out this research work.

I am indebted to my teacher Prof. S. N. Hegde for his valuable suggestions, unstinted encouragement and kind co-operation during the course of my investigations that enabled me to bring out my research work in the form of thesis.

I am also grateful to all faculty members of the Department Studies in Zoology, for their help and support directly or indirectly to carry out this research work.

I am grateful to my husband Dr. S.C. Jayaramu, Assistant Professor in Zoology, Yuvaraja’s College, Mysore-570006, the research work could be completed and thesis could be written only because of his co-operation, unstinted encouragement. My earnest gratitude to my daughter J. Thanmai, my son J. Thushar, my father M. Madegowda, my mother Sarojamma, my uncle T. N. Mahalingu and all my family members for their continuous encouragement and support.

It is a pleasure to express my gratitude to my teachers and former colleagues Prof. B. K. Jagadisha, Dr. A. V. Champakamalini, and B. S. Vijayalakshmi for constant help and encouragement.
I express my sincere gratitude to my research colleagues, Mr. K. Somasheker, H.T. Santhosh, P. Shivakumar, Miss. B. Shruthi, Smt. P. Guna, K.V. Lakshmi, M.L. Sowmya, Palaksha, Shereen kausar, Dr. Chayakumari and all other research scholars of Department of Zoology, for their help. I am also thankful to Mr. M.K. Ramakrishna, Mr. M.C. Nithyananda, and Saraswathi, Laboratory Assistants, Drosophila Stock Centre, Department of Zoology, Manasagangotri, for rendering help during my research work.

Further, I wish to thank all non-teaching staffs who have extended their help on many occasions. Here, I should not forget to thank Mr. M.K. Shivanna, Mr. C. Channegowda, Mr. T. Manjeshgowda, Mr. Kumara, Putteraiah and who have helped me in providing culture media during the course of this work and also grateful to office staff of Zoology department.

I express my gratitude to the University Grant Commission, New Delhi for selecting Teacher fellow under Faculty improvement programme XI plan for providing an opportunity for doing Ph. D research work.

Finally, I express my gratitude to the Principals of Yuvaraja’s college and University of Mysore for permitting me to carryout Ph. D research work.

Finally, I thank one and all, who have helped me directly or indirectly in one way or the other.

(M. PRATHIBHA)