ACKNOWLEDGEMENT

It gives me immense pleasure to express my deep sense of gratitude to Dr. B. G. Unni, Scientist-E II, Department of Biochemistry, Regional Research Laboratory, Jorhat for his invaluable guidance and constant encouragement throughout the course of this investigation. I am also grateful to Dr. H. C. Mahanta, Professor, Department of Zoology, Gauhati University, Guwahati, Assam, for his invaluable advice, guidance and keen interest in this work.

I am highly indebted to Dr. J. S. Sandhu, FNA, Director, Regional Research Laboratory, Jorhat for giving me this opportunity to carry out my research work as a guest worker. I also wish to record a particular debt of gratitude to Dr. A. C. Ghosh and Dr. R. K. Mathur, former Directors, Regional Research Laboratory, Jorhat.

With a deep sense of gratitude, I thank my father Sri Badan Hazarika, my mother Smt. Makan Hazarika, my elder brother Mr. Hiren Hazarika, my younger brothers Bhuban and Satya, my sisters Rinku and Ritu (Aitu), my brother-in-laws Mr. Mohan Baruah and Mr. Paresh Baruah, my nephews Ankur and Aditya, and my niece Ruli for their continuous encouragement faith and moral support throughout the period of investigation.

I express my sincere gratitude to Dr. Dipa Dutta, Principal-in-charge and former principal Ms. Punya Bora, D. C. B. Girls’ College, Jorhat for giving me permission to carry out the research work as guest worker at Regional Research Laboratory, Jorhat.

I offer my sincere thanks to Dr. P. C. Deka, Dean, Department of
Agricultural Biotechnology, Assam Agricultural University for providing me the facilities of optical microscopy.

I express thanks to Mr. P.C. Saikia, Mr. A.C. Kakoty, Dr. A. Choudhuri, Mrs. A. Yadav, Mrs. P. Das, Mrs. R. Baruah, Dr. D.Khanikor and Dr. J. R. Saikia for their kind help and co-operation.

Thanks to the staff members of the Department of Biochemistry, for their continuous encouragement and support.

I am very much thankful to my friends, Mr. U. Baruah and Mr. A. Saikia of 'Cyber systems' of Gar-ali, Jorhat for their pains taking correction, typing, scanning and printing of the photographs.

I am very much thankful to the University Grants Commission (U.G.C.) for the offer of Teacher Fellowship under Faculty Improvement Programme during 9th plan period without which it was not possible for me to complete the research work. I am also grateful to the Department of Biotechnology and Central Silk Board, Government of India for financially supporting a part of my research work.

Last but not least, I deeply express my special thanks to my wife Mrs. Rashmi Rekha Hazarika for her loving criticism, support and constant encouragement throughout the period of study.

Mohan Hazarika