ACKNOWLEDGEMENT
ACKNOWLEDGEMENT

The author wishes to express her deep sense of gratitude and indebtedness to her guide Dr. B. Thayumanavan, Professor and Head, Department of Biochemistry, Tamil Nadu Agricultural University, Coimbatore for his able guidance, creative suggestions and constructive criticisms offered during this investigation and in the preparation of the thesis.

The author is thankful to Dr. S. Sadasivam, Director, Centre for Plant Molecular Biology for his constant and continued encouragement during the course of this study.

The author is highly indebted to the Registrar Bharathiar University and the Registrar, Tamil Nadu Agricultural University for permitting her to register for the Ph.D. degree.

Thanks are due to Dr. M. Aruchami, Secretary and Dr. K. Kumaraswami, Principal, Kongu Nadu Arts and Science College for their encouragement and the help rendered during this investigation.

The author is thankful to Dr. Zakkudin Ali, Head, Dr. Sowbhagya, Scientist, grain science and technology and Dr. R.N. Tharanathan, Scientist, Department of Biochemistry, Central Food Technological Research Institute, Mysore for carrying out a part of the research work in CFTRI lab and valuable suggestions.

The author expresses her thanks to Dr. C.V. Gokulrathnam and Mrs. Shanthi Devanathan, Department of Metallurgy, Indian Institute of Technology, Madras and Dr. R. Kulanthaivelu, Professor and Head, School of Biological Sciences, Madurai Kamaraj University, Madurai for providing scanning electron microscope facilities.
The author owes her special thanks to Dr. K. Parvathy, Assistant Professor, Department of Biochemistry, Tamil Nadu Agricultural University for her valuable suggestions and help rendered during the course of this investigation.

The author is great pleasure in recording her profound sense of gratitude to Mrs. R. Kokilavani, Head, Department of Biochemistry, Kongu Nadu Arts and Science College for her continued encouragement in all stages of investigation.

The author is extremely thankful to Dr. J. Girittha gopala krishnan, Dr. P. Vijayalakshmi, Dr. K. Sundararaju and Dr. M. Chandra sekar, diabetologists for their valuable suggestions and help rendered during the course of this investigation.

The author expresses her thanks to Dr. Jayaraman, Professor and Head, Department of Millets, Tamil Nadu Agricultural University, Coimbatore for providing the experimental grain materials and facilities for the conduct of field experiments.

Affectionate thanks are conveyed to Mrs. Indira A. Jayaraaj, Mrs. K. Kalaivani, Mrs. V. Selvi and Ms. M. Surya vadhana, Department of Biochemistry, Kongu Nadu Arts and Science College,Coimbatore and Ms. Km. Priya sethu, CFTRT, Mysore for the warm timely help rendered by them.

The author is thankful to Dr. M. Ganesh kumar, Tamil Nadu Agricultural University for his kind help in carrying out the statistical analysis.

The author has great pleasure in expressing her thanks to Mrs. S. Geetha, M/S. Priyal Computers for the neat and excellent typing.