ACKNOWLEDGEMENT

With immense pleasure and deep sense of gratitude, I express my sincere thanks to my guide, Dr. C. Panneerselvam, Professor, Department of Medical Biochemistry Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani, Chennai, for providing able guidance with constant help, personal care and continuous encouragement throughout my research programme. His commitment towards work has been the source of inspiration for me. I am greatly indebted to him.

I express my gratitude to Dr. P. Varalakshmi, Professor and Head, and all other staff members, Department of Medical Biochemistry Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani, Chennai, for benevolent support offered me throughout the research period.

I wish to express my sincere gratitude to Dr. Radha Shanmugasundaram, Retired Professor and Head, Department of Biochemistry, Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani, Chennai, and Dr. E.R.B. Shanmugasundaram, retired Senior Professor of Biochemistry, University of Madras, for who showed me the research pathway and constant encouragement throughout my research carrier.

My heartfelt thanks in abundance to Ms. P. Sangeetha, Dr. Hari Priya and all my friends, Department of Medical Biochemistry, Dr. A.L.M. Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani Campus, Chennai, for their immense help and valuable suggestions, encouragement and constant support rendered during the course of my entire study.
I offer my thanks in abundance to Mr. Gnanasekaran, Union Bank of India, Chennai, for his extremely useful suggestions, unflinching support, affectionate treatment, brotherly care and endless encouragement, which he has shown me during every stage of my research work.

It is mere words if I acknowledge the sacrifices of my children Varoon Amarnath and Prakruthi Amarnath. Last but not least, it is my pleasure to express my sincere gratitude to my beloved husband Mr. V. Amarnath B.Sc., B.L., who have taken all my difficulties, sorrows and showed me a clear path to walk in... and helped in his own discreet and thoughtful ways, rendering me a lot of indisputable, wholesome help (at all times) whenever I needed. His affection, endless encouragement and support throughout my study owed solely to dedicate this thesis for him.

(M. KANCHANA)