ACKNOWLEDGEMENTS

It is my pleasure to acknowledge my people for their precious support, which has made this thesis possible.

I am deeply indebted to my respected research guide and supervisor, Dr. (Mrs.) Rama Rajaram, Chief Scientist, (Retd.,) Biochemistry Laboratory, Central Leather Research Institute, Chennai, India, for her everlasting care, invaluable guidance and support throughout the period. The training that she has offered me has strengthened all my fundamental scientific perspectives. I thank god for bringing me in association with a hard working person such as her. I shall cherish this association all through my life. I have no words to express my deep sense of gratitude for her constant encouragement, timely advice and support with endless care, enthusiasm, patience, inspiration and time.

I am deeply grateful to Dr. V. Aravindhan, Department of Genetics, Dr. ALMPGIBMS, University of Madras, Chennai, for his deep interest, guidance and unfailing help throughout the course of my Ph.D program. He has provided a lot of support in the design and execution of this thesis. He has been an inspiration to me during my Ph.D., program and motivated me into understanding the various aspects of association of cytokines/chemokines in diabetic foot ulcer. He had also been a good friend and helped me in understanding how I can address various questions and seek answers in science.

I am extremely thankful to Prof. Dr. A. B. Mandal, Director (Retd.,), Central Leather Research Institute, Chennai, for his permission to carry out this research work in this Institute and his persistent support and encouragement.

I wish to express to express my sincere thanks and deepest gratitude to Prof. Vijay Viswanathan, Managing Director, M.V.Hospital for Diabetes and Diabetes Research Center, Royapuram, Chennai, for his permission to obtain samples from diabetic patients and providing me with the necessary facilities. I also thank all the staff of M.V. Hospital for Diabetes, for their kind support. I also thank Dr. M. Parthiban and Dr. K. Satyavani, M. V. Hospital for Diabetes, for allowing me to use the facilities.
I am extremely thankful to **Dr. A. Rajaram**, Chief Scientist, (Retd.,) Biophysics Laboratory, CLRI, for meticulously correcting this thesis.

I warmly thank **Dr. M. Balasubramanyam** and **Dr. K. Purnasai** the members of my Doctoral committee for their support, help, inspiring motivation and suggestions given during my Ph.D. program.

With pleasure and deep sense of gratitude, I express my sincere thanks to **Dr. (Mrs.) Mary Babu**, Chief Scientist (Retd.,) Central Leather Research Institute, Chennai, for constant encouragement throughout my thesis work.

I recall the good research atmosphere I shared in M. V. Hospital for Diabetes, Chennai, with **Ms. K. Ezhilarasi**, **Dr. Hemang Barman**, **Dr. Mitalle Barmann**, **Dr. Uma Mahesh**, **Dr. Jai Ganesh**, **Dr. Rajesh Kesavan**, **Dr. Senthil**, **Dr. Narayana Rao** and **Dr. Vigneswari**. Each of them, in their own way, have helped me with respect to screening of diabetic patients. I will always treasure my relationship with them. I sincerely thank my colleagues at CLRI **Mrs. K. Sindhu**, **Mrs. R. Indra** and **Mrs. S.R. Bhuvanasree** for providing their support and encouragement. It was a pleasure to be associated with them during the course of my research.

I thank Research Society for the Study of Diabetes in India (RSSDI) for the assistantships and fellowships at various points of time.

I am greatly indebted to my father (**Mr. R. Umapathy**), mother (**Mrs. Kalaiselvi**), wife (**Mrs. Divya Dhamodharan**), daughter (**Baby Nethra**), sister (**Mrs. J. Anuradha**), niece (**Ms. J. Deepa** and **Baby J. Madhumitha**), brother in law (**Mr. A. Jagadeeswaran**) and to my other family members for their moral support, immense patience, incomparable love and affection, constant support and motivation, that made me sail through my research without much difficulty. I thank God for showering his kindness and blessings on me.

**U. DHAMODHARAN**