Acknowledgement

Dr. C. T. Aravindakumar, Research Supervisor - A wonderful human being and a great guru: I am indebted to him for introducing me into the wonderful world of NO, for all his gentle but firm reminders, sound advices and consistent academic encouragement.

Dr. M. Padmanabhan, Director-in-Charge: for providing necessary facilities and academic support.

All other faculty members: for their help and co-operation.

Non-teaching staff: for their co-operation.

Dr. J. P. Mittal and Dr. Hari Mohan, RC&CD division, BARC: for extending their lab facilities and academic support.

Mr. John Britto, Rubber Research Institute of India: for his help during gamma radiolysis.

Dr. P. Ramamurthy, NCUFP, Chennai: for extending their laser facilities.

MGU, CSIR and Nitric Oxide Society: for their financial assistance.

My colleagues: for their help, co-operation and encouragement.

Padaliputhra hostel inmates: for creating a cordial and cheerful atmosphere.

My parents and family members: for their encouragement and support throughout my research.

     My sincere thanks to all who helped me during my research.

     Munoj V. M.