ACKNOWLEDGEMENT

I express my heartfelt gratitude to the following individuals and institutions:

My wife, parents, Rumpa and Kathakaśi, whose understanding and cooperation at the moments of ups and downs helped me a lot to finish the thesis.

My father-in-law, mother-in-law, mashimoni, fuldamama, Dida, Mamandi, Tikśuda, Babunda, boumoni and all other superiors of my family for their constant encouragement.

Dr. Tarakdās Basu, my supervisor, whose principle, guidance and constant mental support influenced me to do the best.

Prof. Dhrubajyoti Chatterjee, Department of Biochemistry, Calcutta University, whose unparallel help and advice throughout my research make the thesis possible.

Prof. Jonathan Beckwith, Harvard Medical School, USA for supplying me the required strain.

DST (Govt. of India) and DBT (Govt. of India) for financial assistance.

My lab mates Suchitdari, Bimal, Amit, Sathi, Subrata and Pallavi for their all-round assistance and Malayda, Sudipda, Amrit, Suparna, Koyeli and all other co-workers of our department for their cooperation.

All research scholars of the lab of Prof. D.J. Chatterjee, who helped me without any hesitation.

Dr. S. Dasgupta of Bose Institute and the research scholars of his laboratory.

Papai, Baidya, Habu, Bapi, Kundu, Bapan, Tatha, Fani and Arindam for their constant support at the time of crisis.

All the members of Research Scholar Hostel,

All teachers and the staffs of our Department for there continuous help.

And finally to all who have contributed directly or indirectly to the conclusion of this project work.

Department of Biochem. & Biophy.
University of Kalyani,
Kalyani – 741235.