FOREWORD

The work embodied in the thesis entitled 'Localisation and characterisation of enzymes involved in the biosynthesis of mycobacillin by *Bacillus subtilis* B₃' submitted for the degree of Doctor of Philosophy (Science) of the University of Calcutta relates mainly to the localisation and characterisation, both functional and physico-chemical, of multifunctional enzyme complex involved in the biosynthesis of mycobacillin by *Bacillus subtilis* B₃.

I am deeply indebted to Prof. S.K. Bose, U.G.C. Professor of Biochemistry, Department of Biochemistry, University of Calcutta for his inestimable help throughout this investigation in the form of valuable suggestions, pertinent criticism and various facilities which made this work possible. I am also grateful to Prof. I.B. Chatterjee, present Head of the Department of Biochemistry, Calcutta University and Prof. G.C. Chatterjee, the then Head of the Department of Biochemistry, Calcutta University and Prof. J.J. Ghosh, the ex-head of the Department of Biochemistry, Calcutta University, for all the facilities accorded to me.

Grateful acknowledgement is made for the kind help rendered in my ways by Dr. B.K. Nath and Dr. R.G. Mahajan, Indian Institute of Chemical Biology and Dr. S.K. Ray, Department of Biochemistry, Calcutta University. Grateful thanks are also
due to the Central Drug Research Institute, Calcutta, for kindly giving me the strain of *Lactobacillus plantarum*.

I would like to thank Dr. S. Mukherjee, Dr. R.C. Boral, Dr. J.P. Chattopadhyay, Late Mrs. R. Bose (Sen), Dr. A.K. Samanta, Dr. H.K. Kole, Mr. S.K. Goswami, Mr. D. Bhattacharyya, Mr. S. Majumdar, Mr. S. Bose and all staff members of our Department for their sustaining help and encouragement in course of this work.

I must be thankful for ever to my colleagues Mr. S.K. Ghosh, Mr. S. Majumder and Mr. S.K. Das for their hearty co-operation during the thesis work.

I am also thankful to Mr. T. Ghosh for typing this manuscript and to Mr. N. Das for drawing.

Finally, I would deeply acknowledge the heartiest co-operation and encouragement extended to me by my wife Mrs. Lipi Mukherjee in completing this manuscript.

Dated at Calcutta the 19th September, 1985

(NISIT KUMAR MUKHOPADHYAY)}