ACKNOWLEDGEMENT

It is often difficult to put one's feelings into words. But formality demands that one should do so to the extent possible. I am extremely happy to take this opportunity to acknowledge my depths of gratitude to those associated in the preparation of this thesis.

At the very outset I place my sincere and heartfelt indebtedness and gratitude to my guide and Chairman, Prof. S.B. Hinchigeri, Post Graduate department of studies in Biochemistry, Karnatak University, Dharwad for his effective guidance, inspiring encouragement, suggestions, help and moral support throughout my research and without this endeavour would have been far from reality.

I am deeply indebted to Prof. C. J. Savanurmath, former Chairman, Department of Sericulture, Karnatak University, Dharwad for his valuable supervision, able guidance, encouragement and advice during the course of my research work.

I am thankful to the Chairmen, department of Biochemistry and Sericulture for providing necessary facilities for carrying out my research work.

I express sincere thanks to former Chairpersons, Prof. H. Z. Ninnekar and Prof. (Mrs.) R. S. Bennur of the post Graduate Department of studies in Biochemistry for their help and encouragement.

My sincere thanks are due to all my beloved teachers.

I owe my heartfelt thanks to Dr. (Mrs.) S. S. Ingalhalli for her useful discussion, help and advice in carrying out this work.
I can never forget the help extended by my friends and lab mates. Thanks are also extended to non-teaching staff of both Biochemistry and Sericulture Departments for their timely help.

I am thankful to the staff of University Scientific Instruments Center for their timely help throughout this research work.

I am indebted to Department of Biotechnology, Ministry of science and Technology, Government of India, New Delhi for awarding me Junior Research Fellowship under the DBT project (No. BT/PRO 468/OSC/10/024/96) sanctioned to Prof. C. J. Savanurmath and Prof. S. B. Hinchigeri.

I am sincerely thankful to Dr. B. C. Tripathy, School of Life Sciences, Jawaharlal Nehru University, New Delhi for his help in carrying out the pigment work.

My special thanks are also due to the Director, SMGS, Hosur, Tamil Nadu for providing the eggs of different varieties of silkworms. I am also thankful to Sericulture Extension Officer, Grainage, Rayapur, Dharwad for providing NB4D2 silkworm eggs.

My diction is too poor to translate the gratitude and heartfelt respect for my mother, Smt. Suchitra, father, Sri. Janardhan, brothers, Vikas, Vikram, Mahesh, Ravikiran and sister Vandana.

Last, but not least, I would like to acknowledge almighty who has been inspiring me in each and every step of my life.

Dharwad
Date: 7 November 2003

Vinod J. Lakkappan