

# Acknowledgement

It is an immense pleasure to express my deep sense of gratitude, to my Supervisor, Professor Bishwanath Chakraborty, Immuno-Phytopathology Laboratory, Department of Botany, University of North Bengal, for his noble guidance, unfailing help, advice, constant inspiration and extensive co-operation throughout the execution of this work.

I would like to express my appreciation to Prof. Usha Chakraborty, Dept. of Botany, NBU, for her ungrudging help and advice.

I am also thankful to Prof. A. P. Das, Head, Dept. of Botany, NBU, and teachers of the department. I record my thanks to Prof. P. K. Sarkar, Co-ordinator, UGC-SAP (under DRS) for rendering instrumental facilities. The Dept. of Science and Technology, Ministry of Science and Technology, Government of India is acknowledged for financial support. I also acknowledge the Managers of Castleton, Margaret's Hope and Hansqua Tea Estates for their cooperation.

My sincere thanks are due to Dr. P. K. Ghosh, Ex-Advisor, Dept. of Biotechnology, Ministry of Science and Technology, Govt. of India and Dr. S. S. Chakravorti, Former Director, Bengal Immunity Research Institute, Kolkata, for their keen interest and helpful suggestions. Thanks are also due to Prof. R. Kennedy, Horticultural Research International, Warwick, U.K. and Dr. B. Chandra Mouli, Head, Rallis Research Centre, Rallis India Limited, Bangalore, India, for providing useful literature.

I gratefully acknowledge Dr. A. N. Ghosh, Deputy Director, Dept. of Electron Microscopy, National Institute for Cholera and Enteric Diseases (NICED), Kolkata for rendering TEM facilities. The help received from Dr. R. B. Bhar, Head, Dept. of Science Instrumentation, Jadavpur University (JU), Kolkata for SEM is acknowledged. Technical assistance received from Ms Arpita Panda for TEM (NICED) and Mrs Srabanti Chakraborty for SEM (JU) is also acknowledged.

I express my gratitude to Prof. Bharat Rai, Dept. of Botany, Banaras Hindu University, and Prof. H. N. Gour, Head, Dept. of Plant Pathology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture and Technology, Rajasthan, for evaluating research findings during execution of the project work. I would like to acknowledge the Indian Society of Mycology and Plant Pathology (ISMPP) and The International Society for the Conservation of Natural Resources (ISCON), respectively, for conferring the Smt. Guman Devi Verma Memorial Best Woman Scientist Award and Late Ram Sakhi Devi Award

I collectively thank all the research scholars of the Dept. of Botany, NBU, and all of my friends for their good wishes and help. I also thank the non-teaching staff of the Dept. of Botany for their cooperation. My thanks are due to Mr Anil Sarki and Mr Sudarson Tirkey, fieldmen, for their assistance in the field.

Last, but not the least, I am extremely grateful to my parents and family members for their encouragement and inspiration and above all for being there for me at all times, without which the completeness of this work would not have been possible.

Place: Immuno-Phytopathology Laboratory, NBU

Date: April 27, 2005

Monica Sharma.

Monica Sharma