Acknowledgement

A journey is easier when you travel together. Interdependence is certainly more valuable than independence. This thesis is the result of four years of work whereby I have been accompanied and supported by many people. It is a pleasant aspect that I have now the opportunity to express my gratitude to all of them.

The first person I would like to thank is my supervisor Dr PK Shukla. I have been working with him since Aug 2001. During these years, I have known him as a sympathetic and principle-centered person. His overly enthusiasm and integral view on research and his mission for providing high-quality work has made a deep impression on me. I owe him lots of gratitude for having me shown this way of research. He could not even realize how much I have learned from him. Besides, of being an excellent supervisor, he was as close as a relative and a good friend to me.

I am grateful to Dr CM Gupta, Director, Central Drug Research Institute, Lucknow for giving me an opportunity to work at this premier institute of the nation and providing all the necessary facilities for carrying out the research work.

In my endeavor to complete this innovative task, I received support and cooperation from other scientists of the institute particularly, Dr KP Madhusudanan for providing mass spectroscopy data. I am also thankful to Dr Vinod Bihari (Head, Div of FT), Dr B Kundu, Dr PSR Murthy, Dr K Rai, Dr VJ Ram, Dr GK Jain, Dr S Singh, Dr MM Singh, Dr A Mishra, Dr S Habib, Dr S Sinha, and Dr BN Singh for providing timely help at various stages of my work.

My special thanks go to Mr MK Srivastava, Mr P Mitra, and Mr AN Dixit (staff members of Medical Mycology Lab, Div of FT, CDRI) for their cooperation.

I will be failing in my duties if I do not acknowledge the ever-willing help, support and cooperation of my colleagues Dr Sandeep, Mr Manish, Mr Ashok, and Mr Shivakeshva with whom I enjoyed working, playing, partying, roaming around and hot and intuitive discussions and who are associated in some parts of my research work.

I heartily acknowledge the companionship of my friends Satyawan, Rabi Sankar, Dr Ajeet, Amogh, Sohail, Rahul, Himanshu, Gyanendra, Pranav, Pawan, Prasad, Srini, Amit, Gaurav, Bharat, Ramesh, Rajeev, Saurabh, Moorthi and all those whose names do not figure here but have helped me directly or indirectly in shaping this thesis.

Financial support in the form of fellowship from CSIR, New Delhi is gratefully acknowledged.

Last but not the least I feel pleasure in acknowledging those who have provided me with the personal foundation and affection - My father and mother who always cared for my education and witnessed their never ending concern.

(Amol Kavishwar)