ACKNOWLEDGEMENT

A number of people have been instrumental in providing me with help, direction and support throughout this Ph.D. journey. First and foremost, the Almighty God, my source of my strength, hope, courage, faith and trust; thanks and glory are to Him, for He endures forever. This project consumed huge amount of work, research and dedication. Still, implementation would not have been possible if we did not have a support of many individuals and organizations. I would like to show my gratitude towards our Hon’ble Vice Chancellor, Mr. Prem Kumar Khosla, for giving us the opportunity to pursue Ph.D Microbiology. He has been instrumental in getting the course run smoothly. Therefore I would like to extend our sincere gratitude to all of them. Secondly, my main supervisor, Dr. Astha Tripathy, thank you for giving me the opportunity to discover the amazing world of medicinal fungi. Dr Sourab Kulsreshtha, Dr. Savita, Dr. Anuradha and Dr. Adesh Saini for providing assistance whenever required.

I would like to express my sincere thanks towards volunteer researchers who devoted their time and knowledge in the implementation of this project. Lab assistants, Mr. Dalip Kumar, Mr. Jai Thakur and Mr. Rakesh Kumar for being available in the lab with a helpful attitude and smile on their faces.

Ph.D students often talk about loneliness during the course of their study but this is something which I never experienced. A heartfelt thanks to the really supportive, My Parents and Friends. Constant source of strength and inspiration. There were times during the past four years when everything seemed hopeless and I didn’t have any hope. I can honestly say that it was only their constant encouragement and sometimes a kick on my backside when I needed one. That ultimately made it possible for me to see this project through to the end. (Pranav Raj Kanwar, Mohinder Pal, Dr. Prabhjot Kaur, Dr. Ankita Deshta, Himanshu Gandhi, Nitika, Pradeep Thakur, Rakesh Sharma, Rohit Mankotia, Sachin Sharma, Shweta singh, Neha, Arti, Punam and Sukrit Sagar) for always being by my side, helping me solve them. Giving me the strength and motivation.

“Many are the plans in a man’s heart, but it is the Lord’s purpose that prevails.”

Rohina Chaudhary