ACKNOWLEDGEMENTS

The thesis dissertation marks the end of a long and eventful journey for which there are many people that I would like to acknowledge for their support along the way. As almost all PhD theses, this is no exception, as what the number of people that contributed to it is concerned and it is time to thank them for all they did for helping me to reach this goal.

To start with, my deepest thanks belong to my guide and supervisor Dr. Vijay Kumar Garlapati for his valuable guidance, help, encouragement and advice as my mentors, which made possible the successful completion of this work. I am privileged to have him as a source of knowledge for his valuable advice, constructive criticism and an authentic educator offering me a wise feedback.

I gratefully acknowledge the help rendered by Prof. R. S. Chauhan (HOD, Dept. of BT & BI) for his encouragement, timely help and cooperation throughout my research work.

I also wish my gratitude to Dr. Y. Medury (COO, Jaypee Education System) and Brig. (Retd.) Ralbir Singh (Director, IIIT) for giving the opportunity to performing doctoral research work at Dept. BT & BI of JUIT. I would like to thank the authorities of Jaypee University of Information Technology, Waknaghat for providing the financial support during my research work.

I wish to convey my sincere thanks to all faculty members of Department of Biotechnology and Bioinformatics especially Prof. C. Tandon for helping in purification part, Dr. Gargi Dey, Dr. Pradeep Kumar Naik for their help and guidance at the various stages of this study. I also like to thank DPMC members Prof. T.S Lamba, Prof. C. Tandon, Dr. Karanjeet and Dr. Saurabh Bansal for their valuable suggestions. I acknowledge Dr. Mani Shrivastava for bioinformatic work and Ms. Tamanna and Mr. Ashutosh for isolation and screening studies of lipase producing microbial strain.

As always, it is impossible to mention everybody who had an impact to this work. However, there are those whose spiritual support is even more important. I have no words to extend my deep sense of gratitude to my loving parents, sisters who contributed their patience, moral support, encouragement, co-operation and throughout this thesis work. I can hardly able to
express my love to my sweet niece Vageesha and nephew Aryaveer whose innocence refreshed me during my difficult times. Above all I would like to acknowledge the tremendous sacrifices that my parents made to ensure that I had an excellent education. For this and much more, I am forever in their debt.

I thank all my friends Kirti, Shikha, Smriti, Rashmi, Swati, Dr. Mani and Manika and for the moral support and help provided by them during all ups and downs in this journey of research. I also extends my appreciation to Sharad, Varun, Amit and Anshu who willingly extended their help every time I required.

I am also thankful to all the members of technical and non-technical staff of the department, especially Mrs. Somlata Sharma, Mrs. Mamta, Mr. Baleshwar and Mr. Kamlesh for their assistance and valuable contributions.

I thank almighty God for showering his blessings always to provide me enormous patience, inspiration, faith and strength to carry out this research work.

(Mamta Chauhan)