Acknowledgements

First of all and foremost, I bow the Almighty for blessing me with the strength and ability to carry out this work.

At the conclusion of my work it is great privilege for me to express my deep sense of gratitude and indebtedness to my esteemed mentor and guide Dr. Rajat Sandhir, Reader, Department of Biochemistry, PU, Chandigarh for his invaluable help, cooperation and sometimes deservedly blunt but constructive criticism, also for the insight and perspective that only the real expert can convey.

I sincerely thank my co-guide Prof. Ravi Kiran, Chairperson, Department of Biochemistry, PU, Chandigarh for sparing the precious time for discussing the details of work. To her I owe a great deal, not only for kind encouragement but also for her generous suggestions, care and affection during the entire course of this investigation.

I deeply appreciate the help of Prof. Rajeshwar Sharma and Prof. D.D. Bansal, Department of Biochemistry, PU, Chandigarh for their fine co-operation and constant support during the entire course of this study.

It is my profound privilege to thank Dr. A. Kaul and Dr. D.K. Bhawan, Department of Biophysics, PU, Chandigarh for their support and valuable suggestions.

I am highly obliged to Dr. Manoj Bali, Dr. Arun and Dr. Nagarajan for their untiring and selfless involvement, which has helped me to reach here.

I would place on records a sense of appreciation and greatfulness for good wishes and zestful association of Fardeep, Rajesh, Vikram, Mohan, Dharam Paul, Anarjit, Sanjiv and Ravneet.

I extend my sincere thanks to Vishal, Gursharan, Sameer and Ravinder for their constant encouragement, ever willingness to lend a
helping hand during this work and for spending memorable times together and proved that they have been friends indeed.

I deeply appreciate the help rendered to me by the non-teaching staff of the Department of Biochemistry, PU, Chandigarh especially Mr. Karamchand and Dharamchand.

I am deeply grateful to my parents for their boundless patience, constant care, love, understanding and encouragement, without their blessings I could not have achieved my goal. My thanks are due to my sister and brother-in-law who have always encouraged me to do the best.

The financial assistance conferred by the Indian Council of Medical Research and All India Council of Technical Education, India is duly acknowledged.

No words would suffice to express my thanks to those innocent creatures who sacrificed their lives, without which this study would not have been possible.

(Amit Kamboj)