ACKNOWLEDGEMENT

First of all, I thank almighty ‘the God’ for blessing me this human birth and endowing with intelligence and capacity to pursue a career in science and research. It is a great pleasure to thank all the honorable people who have supported and inspired in the completion of my thesis work.

Definitely, I am blessed to have Dr. Pratibha Mehta Luthra to whom I am most grateful for providing the wings to my imagination and creating very useful thought during my Ph.D. dissertation works. Her detailed and constructive comments and untired support throughout have played a pivotal role in completion of this work. Her wide knowledge and logical way of thinking have been of great value for me. I am unable to describe in words how instrumental she has been not only in my scientific but overall development during my entire journey of Ph.D. Maam you will remain constant inspirer throughout my life.

I would like to thank Prof. K Natrajan, Head of Dr B.R.Ambedkar Center for Biomedical Research, for all supports and technical help concerning with this dissertation.

I love to acknowledge the kind and warm support of Prof Daman Saluja and her students namely; Dr. Divya, Sharad, Reenu, Rama, and Dr. Meenakshi who never made me feel like I am not their lab mate. Madam always received me like I am her own student and encouraged along with her valuable inputs for my work.

I am thankful to Prof Vani Bramhachari and her students to remain available for my help.

I thank Dr. Rajesh Gokle (IGIB), Director, IGIB, for allowing me to use the laboratory facilities for the research work.

I would like to take this opportunity to thank my advisory committee member Prof. Y. Singh, IGIB for giving me useful suggestion.

I would like to thank from the bottom of my heart to Dr Vibha Tandon and her students namely Dr. Atul, Devpriya and Vinod for helping me out in the time of crisis.
It is next to impossible to produce results without a conducive environment in the lab. A lively ambience and cooperation was what I got here. I would take this opportunity to convey my thanks to Mrs. Jyotsna singh, Dr Sandeep kumar barodia, Dr Rakesh kumar, Dr Satendra singh, Vishal Kumar, Namrata Kumari, Neetika Lal, Twinkle Khera, Naveen Dinhgra Nitin Vishnoi, Dimpy Sharma, Sourabh Aggarwal, Soni Shankhwar and special thanks to J. B. Senthil without whom this work wouldn’t have started and Saloni Aggarwal who became my additional hands in last stages of my work.

I also wish to thank all the teaching and nonteaching staff of ACBR for their cooperation and encouragement.

I am much grateful to the Council of Scientific and Industrial Research (CSIR), New Delhi for providing financial supports during my JRF and SRF fellowships.

I wish to thank all those who have helped me in my endeavors and little creatures sacrificed for the cause of human

Finally, I am grateful not only to my parents who gave me birth and inculcated the free and rational thinking but also to my my parents in laws who allowed to work and gave all necessary support. I would love to thanks my Brothers (Brijesh Singh and Umesh Singh), friends: Sarita and Savita, who always stood by my side during the thick and thin times of my PhD journey. Lastly and most importantly I am thankful to the silent but the loudest support of my husband Brijesh and daughter Anshi throughout my dissertation works.

(Rita Kumari)