ACKNOWLEDGMENT

I feel deeply obliged in expressing my deep sense of gratitude to my supervisor Prof. Wajid Hussain Ansari for affectionate inspiration, valuable guidance and encouragement during the period of this study.

I am extremely grateful to Prof. Shamim Jahan Rizvi, my co-supervisor for her valuable suggestions, guidance and kind cooperation throughout the period of my research enabling me to complete this work successfully.

I am deeply indebted to Prof. Arunima Lal, Chairperson, Department of Chemistry, A.M.U., Aligarh for providing me necessary laboratory facilities during the course of this work.

I owe my thanks to Prof. K.M.Y. Amin, Department of Ilmul-Advia for his valuable suggestions, thought provoking discussion and for his cooperation in performing several behavioral experiments.

I am highly thankful to my lab colleagues Ms. Farhana Zahir, Mr. Mirza Imtiaz Beig, M. Faisal Siddiqui and Ms. Shabnam Nabi, Imrana Tabassum and Saba Qayyum for their valuable suggestions and timely cooperation.

My greatest gratitude to my friends Ms Shahida, Nahid, Neelofar, Tuba for their constant encouragement and support.

My sincere thanks to the teaching and non teaching staff members of the Department of Forensic Medicine. I also want to thank Mr. Umar for his valuable technical help in experiments.

I want to thank Mr. Chandra Prakash and Shiv Kumar for assistance and maintenance of rats.

Words fall short in describing pains taken by my parents during the whole tenure of the work. Without their constant blessings and affection, this work would not have taken this form. I am also grateful to my brother, sisters and brother-in laws whose encouragement and affection were always a source of strength to me.

(Huma Jamal)