Acknowledgments

Proclaim! And thy lord is Most Bountiful
He who taught the use of pen,
Taught man that which he knew not!
(Surah Alaq: 3-5, Al-Qur'an)

This is probably the most difficult part of this work to write, because printed words fail to express the depth of feelings hidden behind them and convey the actual extent of influence other's cast on one's work or life. Before I proceed to mention at least a few special persons without whose support, co-operation and contribution, this work have never come to fruition, let me express my deepest faith in almighty Allah, the omnipotent, the omnipresent for it is indeed his blessings which provided me enough zeal to complete this work.

First and foremost, I consider it my privilege to have completed this work under the noble guidance and supervision of Dr. Anjum Ara, Reader, Department of Zoology, Aligarh Muslim University, Aligarh, who not only introduced me to the fascinating world of Genetics but also despite her busy schedule, gave me the privilege and liberty to encroach on her valuable time. Besides providing indispensable guidance during each and every phase of my Research work, she has been a constant source of strength and inspiration to me throughout the execution of the study. I am heavily indebted to him for her benevolent attitude and advice on personal and professional level which strengthened my morale, punctuality, determination, will power and impartial attitude. The discussions with him were always a lifeline for new thoughts. Her valuable suggestions added to the output of the research inspired me to have a better grip over my research field.
I am indebted to Prof. Absar Mustafa Khan, Chairman, Department of Zoology and Dean Faculty of Life Science for providing necessary laboratory facilities.

I take this opportunity to acknowledge the help and co-operation rendered by my laboratory colleagues Dr. Riaz Ahmad, Mrs. Rafat Siddiqui, Ms. Saba Qayyum, Mr. Faisal Siddiqui, Mr. Firoz Haider, Haseeb Ahmad & Mr. Salman who were always helpful and encouraging during the course of study. The help rendered by non-teaching staff members are greatly acknowledged.

I feel pleasure to thank Naved Ahmad, M. Usman Khan and M. Amir Khan ‘The Khan’, Campus Computers for excellent typing of this work.

Last but not least, I express my deepest gratitude to my parents for their everlasting support, affection and forbearance without which it would have been impossible for me to accomplish the task of completing this work. I recall those emotional moments seeing spontaneous tears coming out of the eyes of my mother and little Mohazzab Mehdi, Khadija Fatima, Jashaffi Zehra, Shifa Fatima and Jari Haider etc. when I used to leave for Aligarh. I know, the completion of this work will bring a glitter of pride in their eyes.

I am also indebted to my brothers elder brother Mr. Shamim Haider, Mr. Nasim Haider, Mr. Waseem Haider, Mr. Jameel Mehdi, & my younger brother Hassan Mehdi, Muntazir Mehdi (Sultan), Firoz Haider, Nazim Haider & also my dearest sister Mrs. Jai‘heer Fatima, Jazeem Fatima, Shabi Fatima, Mushiyat Zehra & Huyat Fatima whose great efforts have placed me in present position. Thanks are also due to my other family members Kazmi Begum, Abida Begum, and Momina Begum for their moral support and encouragement.

(MOHAMMAD MEHDI)