

## ACKNOWLEDGEMENT

*At this ecstatic time of presenting my thesis, I find myself unable to elucidate in words my genial feelings of indebtedness and unfeigned gratefulness to my esteemed teacher and guide, Dr. (Mrs.) Rajesh Dhankhar, Reader, Department of Biosciences, M.D. University, Rohtak for her constructive and ever available guidance, incessant inspiration and valuable suggestions at all the stages of this research. I find myself highly fortunate and gratefully privileged to have worked under her supervision. Her enlightening storehouse of vast knowledge, farsightedness, eloquence and above all mastery over the subject inspired me throughout my way to complete this challenging task.*

*It is my humble duty and proud privilege to place on record my deep sense of gratitude and tremendous debt to her for ever stimulating, valuable and readily available supervision, constructive suggestions and encouragement in preparation of this research work. I thank her for active cooperation and sincere help given at almost all the steps of the present study.*

*I am extremely thankful to Professor S.K. Khatkar, Deptt. Of Chemistry, M.D. University, Rohtak for his generosity towards me throughout the period of this research work. I appreciate my seniors and lab mates Dr. Joginder Dahiya, Dr. Sushila Sangwan, Mrs. Nitant Gaur, Ms. Lalita, Mrs. Anju and Ms. Radha for their care and support.*

*Thanks giving is a pleasant job, but nonetheless difficult too where one sincerely tries to pull it in words. I thank from core of my heart to my friends Ms. Manu, Mr. Pawan Siwach, Ms. Minakshi, Mr. Kaptan, Mr. Manmeet and Mr. Jaivir who kept on motivating me through this journey of knowledge seeking.*

*I extend my heartfelt feelings of gratitude to all the faculty members of Bioscience Department of M.D.University, Laboratory and Administrative staff for their extremely helpful and cooperative attitude.*

*I owe sincere thanks to the library staff of M.D.University, Rohtak. At the same time, I can never pay back for the enormous help which I received in procuring latest journals and related materials from various libraries of the National Capital i.e. INSDOC, Library of J.N.U. and Delhi University Central Library.*

*I cannot forget to pay my profound debt to my family i.e. my grand mother Smt. Ram Devi, my father Sh. Jagbir Singh and my mother Smt. Nirmla Devi who always provided me with the required emotional strength to cope with the mental strains, I experienced during this period. I am deeply indebted to the other members of my family for their perennial inspiration and constant encouragement.*

*Last but not least my special thanks are reserved to all those friends who remained my strength throughout and have made it possible to complete this research work.*

*I bow and thank God Almighty for all*

  
Sunil Kumar Chhikara