

## *Acknowledgement*

*In the name of Allah, the Beneficent, the Merciful*

All praise be to Allah, Supporter of Worlds, who alone can bless any effort with success. I wish to praise Almighty Allah Who enabled me to complete this work.

I am delighted to take the opportunity of expressing deep sense of gratitude to my respected and well learned supervisor Professor Ainul Haq Khan for completing this research work and its compilation under his able guidance and supervision. Despite his busy schedule, serving the university in different capacities and occupying different posts in university administration, he gave me ample time and privilege to seek his help and advise in carrying out the research work. Besides supervising the studies he provided me a conducive atmosphere to get benefited from his highly humane personality.

I feel short of vocabulary for expressing my heartfelt thanks to Prof. Samiullah Khan, Chairman, Department of Botany for providing me laboratory facilities and other requisite help during the entire course of investigation.

I am deeply indebted to all the faculty members of the department particularly the teachers of the genetics and plant breeding division for their encouragement, help and sympathetic attitude. I am highly grateful to eminent researcher of the department Dr. Mohammad Anis Khan, Reader, for providing me the necessary facilities of microscopy.

I am highly thankful to my respected lab mate Miss Sehba Parveen for her constant help and encouragement all along the research period. Her valuable suggestions and absolute determination in the field of research has been a source of inspiration for me and provided me a great opportunity to get benefited.

There is no denying the fact that friends do have a role to play in ones deeds. I acknowledge my heartiest thanks to all my friends and research scholars of the department especially Bhat Fayaz, Javid Ahmad, A.Quyoom, Aijaz Ahmad, Firdous Ahmad, Bilal Ahmad, M.Ashraf, Riyaz Ahmad, Kousar Parveen and Rashida Parveen for encouragement and providing moral support during the research work.

Thanks are due to non-teaching staff of the department for providing necessary help whenever needed and to the staff of Anglo Computers namely M.Haroon, M.Tariq, M.Shakir for typing this manuscript.

To save the best for last I bow in reverence to my parents and extend my thanks to all the family members for their untired zeal to provide me every possible opportunity and support for acquiring education. I register my obedience and respect for my educated, sincere and beneficent elder brother, Mr. Manzoor Ahmad who has ever since my childhood infused in me the spirit of achieving distinction.



Fayaz Ahmad Ganai