ACKNOWLEDGEMENTS

The frenzied race of life rarely allows us the chance to acknowledge the contributions of individuals without whom our little efforts would never have reached their successful completion. I find myself exceptionally fortunate to have been granted this rarest of opportunities.

I must begin by expressing my earnest thankfulness to the individual to whom I owe the very chance to venture into such a problematic province of Immunology. She is my supervisor, Dr. Mitali Chatterjee, Associate Professor, Dept. of Pharmacology, Institute of Post Graduate Medical Education and Research, Kolkata, to whose friendly guidance and emotional support I am immensely grateful. The continuous guidance and advice from Dr. Urmil Chatterji, my co-supervisor, also elicits my heartfelt gratitude.

I have been provided access to many an essential institutional facility at various stages of my research by Dr. Pradip Kumar Mitra, Director, Institute of Post Graduate Medical Education and Research, and Prof. Dipankar Bhattacharya, Head, Department of Pharmacology, Institute of Post Graduate Medical Education and Research. I am equally thankful to Dr. Suparna Chatterjee and Dr. Avijit Hazra for keeping me buoyed with their encouragement and precious help regarding statistical analyses. I also thank all the teachers and technical staff in the Dept. of Pharmacology, Institute of Post Graduate Medical Education and Research.

The fulcrum of my experiments, the drug called Allylpyrocatechol, was provided by Dr. Subrata Chattopadhyay, Bio-organic Division, Bhabha Atomic Research Centre, Mumbai. At the same time, I must acknowledge the help and support received from members of his laboratory.

Prof. Partha Saha and members of his group at the Crystallography and Molecular Biology Division, Saha Institute of Nuclear Physics, Kolkata, merit sincere thanks for their wholehearted co-operation and for allowing me access to several of their facilities. Dr. Subrata Majumder, Division of Molecular Medicine, Bose Institute, Kolkata, not only allowed me to work in his lab but was always a source of encouragement and support. I tender heartfelt appreciation to Surajit da for his immense help.

Earnest thanks to the group of Dr. Sasanka Chakraborti, Dr. Sandip Bandopadhyay and Dr. Basudeb Bhattacharyya for their relentless encouragement and support.
Alak, Arupda, Asis, Avijit, Avijitda, Debanjan, Debasree, Dibyendu, Goutamda, Harida, Nazmun, Piu, Rupashree, Samiran, Shibabrata, Soumi, Sudipto, Sunanda, Susmita Ghosh, Susmita Roy, and Uttam, my lovely lab mates, have put me into perpetual debt. I regard myself extremely privileged to have been able to pursue my research in their delightful company. They were not just colleagues but friends who stood by me in moments of dejection and despair and helped me sustain my research with their words of inspiration. Without them this research project would have been a dreary rigmarole. I stand indebted also to Ananya, Anupam, Gairikda, Tanmoyda and all other MD students of the Department for taking time out of their busy schedule to elucidate to me the myriad medical matters.

I am thankful to Dr. Prabir Das, Principal, Barasat Govt. College, Dr. P.K. Saha, Dr. Rupendu Ray (also my sir), Dr. Nimai Chandra Saha, Santanuda, Sourabhdha, Amlanda and Sanjay -- my colleagues of the Dept. of Zoology of the same college, for their encouragement and support. I am also thankful to Dr. Jaladbaran Roy and Prof. Shankar Prasad Sen, respectively erstwhile Principal and Teacher-in-charge of Dinabandhu Mahavidyalaya, Bongaon, my first workplace, and all my colleagues therein. I am also indebted to Prof. Dipak Ranjan Mandal for constantly encouraging me to complete my thesis. I also thank Akulda, Asuda, Ajayda and Gopalda for their support.

I cannot afford to miss out the contribution of Late Ramphal Mallick in facilitating my in-vivo experiments through his adroit handling of animals. May his soul rest in the abode of eternal peace. The warm co-operation from Lalaram Balmiki and Mukesh Balmiki, the security personnel of our lab, will also never be forgotten.

Even the most ornate words and epithets cannot adequately express my indebtedness to the immense support and encouragement incessantly rendered to me by my parents, husband, brother, uncle, mother-in-law and Archana. I am also grateful to the persistent motivation from my kin and friends without which pursuing my PhD would have been terrifyingly tough.

Lastly, I must acknowledge the vital role of Lady Tata Memorial Trust for endowing me with the financial support.

DEBJANI SARKAR