

Acknowledgement

For making happen this thesis I would like to thank all the people who have had played some or the other role at some point of my life. But mainly I would want to thank those people who played the immense roles.

Firstly, I would like to thank my supervisor Dr. Aniruddha Saha, Associate Professor, Department of Botany, University of North Bengal, for training me enough to do this research. For not even a moment have I felt his deduction from my side while an amateur such as me needed his great knowledge.

I would thank Dr. (Mrs.) Dipanwita Saha, Assistant Professor, Department of Bio-Technology, University of North Bengal, who has always lent a helping hand whenever I pestered her.

I am also indebted to Prof. (Mrs.) U. Chakraborty, Head of the Department, Prof. A. P. Das, Prof. B. N. Chakraborty, Prof. P. K. Sarkar, Dr. A. Sen, Mr. P. Mandal and Dr. S. C. Roy of Department of Botany, University of North Bengal for their valuable advice and encouragement throughout the course of this work.

My heartfelt thanks also go to Prof. B. Basu of Department of Chemistry, University of North Bengal, who helped me with matters that was previously out of my grasp and providing me laboratory facilities that helped me in elucidation of chemical structure.

I am also highly grateful to Dr. Prameela Devi, Dr. Nita Mathur and Dr. P. N. Chowdhury, ITCC, IARI, Pusa, New Delhi for marking some of my work valid. Without their support, I would be nowhere.

Special thanks also go to my colleagues Dr. M. Isha, Mr. H. K. Barman, Ms. L. Das, Mrs. G. D. Purkayastha, Dr. S. Sen, Mr. S. K. Yadav, Ms. S. Mandal, Mr. T. K. Misra, Mrs C. Choudhury, Mrs. A. Gupta, Mr. A. Chakraborty, Mr. H. Mandal, Miss. M. Kumari, who made my working place an enjoyable temple of knowledge.

I express my thanks to all the staffs of Department of Botany, for their assistance during study and their cooperative support.

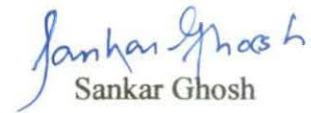
My humility makes me bow my head to thank my parents Lt. Bijan Kumar Ghosh and Mrs. Parul Ghosh who made me what I am today. I am also thankful to my sister, Mrs. Banashree Sengupta, her husband Mr. Siddhartho Sengupta and my lovable nephew Sayar Sengupta (Babeen), niece Rizita Ghosh, nephew Saswata Ghosh and other family members for their help and encouragement.

I am highly obliged to Mr. Ramasish Kumar, Mr. Bikram Saha, Dr. Sourish Dasgupta, Mr. Kinkor Biswas (Chemistry), Mr. Sujit Ghosh (Chemistry) and Ms. Anasooya Ghosh for their continuous support throughout the execution of the work.

I would also like to pour my gratitude from the core of my heart to Dr. J.B Bose (Ex.Principal, Siliguri College) for his never-ending cooperative support, encouragement.

Heartiest thanks are given to Asok Bhattacharjee, Jibesh Sarkar, Parimal Bhowmik, Nurul Islam, Subroto Sanyal, Manas Bhattacharjee, Shriparna Mukherjee, Barun Majumder, Subroto Dey, Nirmal Sarkar, Sourav Das, Ankur Dutta, Udayan Dasgupta, Anushreya Ghosh, Krishnendu Paul, Nabin Barik, Partha Moitra, Sanjay Agarwal, Ratna Mukherjee, Aniket Mukherjee, Animesh Mukherjee, Avash Roy Chowdhury, Palsah Das, Raja Baul, Avoy Mukherjee, Sabitabrata Paul, Pradip Karmakar, Dibakar Roy, Jyoti dey Sarkar, Sourav Sarkar, Biplob Ghosh, Prodosh Ghosh, Macrina Wasawas Magallon, and all others who made the tiring hours bearable in quite an enjoyable manner.

The icons whom I owe my spirit and the flowering of my thoughts: Jyoti Basu, Anil Biswas and Ernesto Guevara.


Sankar Ghosh