

ACKNOWLEDGEMENT

At the very outset I very respectfully acknowledge the pains and patience my guide Prof. P.K.Basu had to endure for my cause. It is undeniably his propelling forces that led me where I am now. I must mention about his wife Mrs. Rama Basu too, who constantly encouraged me during this arduous task.

I am indebted to Dr. S.Pakrashi, Joint Director, Indian Institute of Experimental Medicine, Calcutta for his kind gift of various authentic natural products utilised in the present work.

I am grateful to Prof. G.Murti and Dr. Alok Mazumder, Scientific Officer of the department of Chemistry, N.B.U for their help in connection with the preparation of I.R.Spectrum of different isolated samples. I am very much thankful to Mr. C.R.Nayak, Systems Engineer of Computer Sciences in connection with the statistical analysis of various data.

I respectfully remember Prof. K.B.Dutta, Centre for Life Sciences, Dr. Prabir Kumar Sarkar, Head of the

Department of Botany, Dr. B.N.Chakraborty, Reader and Mrs. U.Chakraborty, Reader, Dr. A.P.Das, Reader of the department of Botany, North Bengal University for their sincere and invaluable cooperation from time to time.

I take this opportunity to extend my thanks to my co-researchers at the laboratory. Among them special mention may be made of Dr. Subhendu Bhusan Modak, Dr. N.Biswas, Dr. M.Laha, Dr. I.Gupta, Dr. A.Mandal, Mrs. K.Mandal, Mr. A.Hati all my ex-mates, helped me a lot.

I must offer thanks to Mr. S.Kundu and Mr. C.Pal who took pains to type out my manuscript. Thanks are also respectfully due to Sri B.Bagchi, thesis artist & Mr. T.Basak, photographer who came as saviours.

Mention should be made of Dr. Ladly Roy and Mrs. Rama Roy, who extended a filial bond, as it were, in encouraging me. I do remember their contribution. I feel indebted to Ms.Gouri Sengupta of North Bengal University for always extending her sincere cooperation. I remain grateful for the services rendered to me by Sri Shipen Barman and Bhabananda Roy of the department.

In the homefront, my parents in law and other family members affectionately suffered my absence from various household chores. My parents, brother, sister in law and sister, away as they are, also never tired to inquisitively encourage me. To all of them, I hereby acknowledge my deep gratefulness.

I extend my heartfelt thanks to the Principal, Dr. J. Bose and other colleagues of P.D. Women's College, Jalpaiguri for their encouragement.

In the finale, I must mention of my husband *Sri* G. Kar who was a fountain of inspirations for me. It was he who roused me from repeated slumberous frustrations I very often succumbed to, owing to diverse preoccupations. My son Tunkai, the poor little boy, sacrificed the love and care, he most justifiably deserved, during the initial phase. Ungrudgingly he did bear the pains of keeping his demands at bay. But how can I express my gratitude to them ! That language is not at my disposal.

I do hereby dedicate this work to my parents
and parents in law.

Rama Kar (Mitra)

Date : 6th July 1996

Address :

Centre for Life Sciences
North Bengal University
Dist. Darjeeling
West Bengal
Pin-734430.

Rama Kar (Mitra)
Senior-Lecturer-in-Botany
P.D. Women's College
Jalpaiguri.