

A C K N O W L E D G E M E N T S

Although I know that it is impossible for a 'Shishya' to repay the debt of One's 'Guru', I take this golden opportunity to acknowledge my deep sense of gratitude to Prof. R.S.R. Murthy, Head, Pharmacy Department, Faculty of Technology & Engineering, M.S. University of Baroda, Vadodara for his kind cooperation, useful guidance, constant encouragement, constructive criticism and fruitful suggestions during the course of this work.

I wish to express my sincere thanks to the Dean, Faculty of Technology & Engineering, M.S. University of Baroda, Vadodara for providing me with the facilities required for my research.

I am indeed grateful to the Council of Scientific & Industrial Research, New Delhi, for granting me a Senior Research Fellowship, without the financial assistance of which, it would have been difficult for me to complete this work.

I am indebted to the Teaching Staff of the Pharmacy Department for their advice and encouragement, which boosted my morale under taxing conditions.

Special debt is owed to Dr. R. Balaraman, Reader in Pharmacology, Pharmacy Department, whose timely help in form of a Research Assistantship in a Research Project, set the wheels of my Ph.D. programme rolling.

I will be forever grateful to Mr. S.P. Rathod, Lecturer in Pharmacology, Pharmacy Department, who besides helping me with the in vivo experiments, was always eager to resolve any odd crisis which cropped up during this investigation.

I am grateful to Ms. Hoffmann-La Roche, Switzerland, for supplying the sample of 5-Fluorouracil for this study.

Thanks are due to Dr. Sunder Murthy, Head, Metallurgy Department; Dr. N.C. Chaurasia, Reader, Metallurgy Department; Mr. C.S. Natarajan, Ex-Chief, Sarabhai Research Centre; Dr. G.P. Das and Dr. A.V. Radhakrishnan, Sarabhai Research Centre; Dr. K.K. Rao, Head Microbiology Department, Faculty of Science, M.S. University of Baroda and his students, Mrs. Mihali Mehta and Miss Anita Ashtaputre, for helping me out with microscopical examination and photomicrography.

I sincerely thank Miss Sangita Nimbalkar, R&D Chemist, I.P.C.L., Baroda and Miss Saroj Vangani, Analytical Chemist, M.J.I.R., Baroda for helping me out with some analytical techniques.

I wish to acknowledge the kind cooperation extended by Mr. N.M. Bhatt, Head, Environmental Engineering Department, and his technical assistants, Mrs. Tarla Desai and Mrs. Sangita Chavda, in permitting me to use the Hitachi Spectrophotometer in times of need.

I express my heartfelt gratitude to the Library Staff of the Libraries of Sarabhai Research Centre, Baroda, M/s. Alembic Chemical Works Pvt. Ltd., Baroda; Foods & Drugs Laboratory, Baroda; Faculty of Technology & Engineering and Smt. Hansa Mehta Library, M.S. University of Baroda, for allowing me to carry out my reference.

In any act, there are some people behind the scene who see to it that the show goes on. The audience bestow their appreciation on the performers but overlook the team of these silent workers going about their task. Hence, it would be remiss on my part if I don't acknowledge the support extended by my Colleagues, Miss Gita U. Rao, Miss Chhaya H. Gadgoli, Mr. Vinay U. Rao, Mr. Kurma S. Rao, Miss A. Sumathi, Miss Devanjali S. Shah and Miss Rajshree C. Mashru, at various stages of my work.

Last, but not the least, I express my sincere thanks to the entire Non-Teaching Staff of the Pharmacy Department, for their cooperation, and to Shri Dinesh Modi and Mr. Parag Soni for their meticulous typing.

[Krutika K. Sawant]