ACKNOWLEDGEMENTS

It is my kind privilege for having worked under the expert guidance of Professor S. K. Kulkarni, a legendary pharmacologist and dedicated teacher who is now a great source of inspiration for many young Indian pharmacologists. I take this opportunity to express my gratitude and indebtedness to Professor S.K. Kulkarni for his dynamic supervision during the course of this work, and for creating a kind of environment essential to do an exciting and satisfying research work. I am particularly indebted to him for the constant prodding, helpful criticism, advice and most of all, his willingness and systematic approach in the last interpretation, to let me “put my views” without much interference. His inspiration, moral support and care during the difficult times goes a long-way in the successful execution of my research protocols.

I am thankful to Professor V.K. Kapoor, Chairman of Panjab University Institute of Pharmaceutical Sciences, for providing the laboratory and other facilities. The Senior Research Fellowship of the Council of Scientific and Industrial Research (CSIR), New Delhi is gratefully acknowledged.

I am thankful to the RBI, Natick, USA for providing the samples of PK11195 and 4'-chlordiazepam as part of the Chemical Synthesis Program of the U.S. National Institute of Mental Health, Contract N01MH30003. I am grateful to the Unichem, Bombay for providing progesterone, and the Taisho Pharmaceuticals, Japan for supplying NE-100.

I am thankful to my colleagues, specially Dr.(Mrs.) K. Chopra, Mr. B. George, Mr. Raja Chatopadhyai, Mr. I. Ninan, Mr. Raghavendra, Mr. N.K. Jain and Ms. Gurpreet Kaur for helping me in my quest to be a good researcher and teacher. I am thankful to Mr. Bhupinder Singh for providing the statistics software.

I am thankful to the laboratory and technical staff of the Pharmacology division, particularly Ms. S. Gupta, Mr. Satish Sethi, Mr. Raj Kumar, Mr. Shyam Singh, Mr. Saheb Singh, Mr. Rajinder, Mr. Swaroop and Mr. Roshan Lal for their assistance and cooperation during the research work.

I am no less grateful to my parents and parents-in-laws for their love, care and support during the entire course of my studies. This work would not have been possible without an active support of my better-half Mrs. Savitha, and most specially for her patience during my long stay at the laboratory. Her untiring effort and versatile help in the word processing goes a long-way in the rapid publication of my research papers.

CHANDIGARH
January 26, 1998

DÔODIPALA SAMBA REDDY