

### ACKNOWLEDGEMENTS

I am highly indebted to Prof. N.S. Pandya, M.Sc., Ph.D. (London), for his continued guidance and encouragement during the progress of the work.

I am thankful to Dr. B.S. Shah, Dr. R.K. Shukla and Dr. B.B. Thakar for the help rendered in various forms during the course of the work. My thanks are also due to Dr. Bonny Pilo, Mr. D.J. Vaghari, Miss Nandini Vaishampayan and other research associates for their help in the preparation of the thesis.

I am thankful to Prof. A.R. Patel of S.P. University, Vallabh Vidyanagar, for allowing me the use of electron microscope.

The co-operation of the staff of the central workshop during the period of the work is acknowledged.

I am indebted to M.S. University of Baroda for awarding me a research assistantship.

E. MATHAI