

F O R E W O R D

The work embodied in the thesis entitled "Studies on Brain Glutaminase" has been carried out for the degree of Doctor of Philosophy (Science) of the University of Calcutta. The main work of the thesis consists of regulation of mitochondrial glutaminase activity of rat brain by various physiological agents, with development and aging.

The work was carried out in the Department of Biochemistry, University of Calcutta, under the direction and constant guidance of my respected teacher Prof. J. J. Ghosh, Centenary Professor and Head of the Department of Biochemistry, University of Calcutta. I am greatly indebted to Prof. J. J. Ghosh for his valuable suggestion and constant encouragement in course of this work.

I am grateful to Dr. D. Bhattacharya, Department of Applied Chemistry, Calcutta University for the supply of samples of fatty acids.

I also express my thanks to my friends and colleagues of the Department of Biochemistry, University of Calcutta for their interest and cooperation during this investigation.

I am also grateful to the Indian Council of Medical Research, Government of India, for the fellowship I enjoyed during this investigation.

S. R. C.