

ACKNOWLEDGEMENT

The author makes grateful acknowledgement of his indebtedness to Prof. C.V. Ramakrishnan for guidance in the conduct and presentation of these investigations. The author also thanks Prof. R. Rajalakshmi for the guidance given in the interpretation of the data and presentation of the thesis.

The data reported in this thesis form a part of the project on "Nutrition and brain biochemistry" supported by the U.G.C. under their Special Assistance Programme. Part of the work described in this thesis was carried out in the laboratory of Prof. L.A. Horrocks in the Department of Physiological Chemistry, Ohio State University, Columbus, U.S.A. who has developed a long range research collaboration with Prof. C.V. Ramakrishnan of this department.

The author thanks Prof. L.A. Horrocks for all the facilities given, interest he has shown and the fellowship offered to him. The author also expresses his sincere thanks to all the colleagues in the department for the encouragement and help given by them during the course of his research work.