



MADRAS DIABETES RESEARCH FOUNDATION

ICMR CENTRE FOR ADVANCED RESEARCH ON DIABETES

Recognized as a Scientific and Industrial Research Organization (SIRO)

by the Department of Scientific and Industrial Research, Ministry of Science & Technology, Govt. of India.

Affiliated to the University of Madras & Deakin University, Melbourne, Australia & University of Warwick, UK for Ph.D. Programs

A signed statement by the applicant that the research work under reference has not been given any fellowship. The applicant should also indicate the extent of the contribution of others associated with the research and he/she should clearly acknowledge his/her achievements*

I submit to state that my research work has not been awarded any fellowship so far. This work in my lab on genetics and genomics of monogenic diabetes and Congenital Hyperinsulinism for which I am applying for the Sun Pharma Fellowship in India has been performed under my leadership. The idea, conception and planning of the projects were entirely done by me. Four students did their Doctorate work under my guidance on this work, namely monogenic diabetes and CHI and subsequently obtained their PhD from University of Madras, Chennai. Dr. Jahnavi Suresh, helped in collection of samples of patients with Maturity Onset Diabetes of the Young (MODY) and a few Neonatal Diabetes (NDM) from some of the city hospitals and performed direct sequencing of specific genes in the Molecular Genetics Department of MDRF under my Supervision. Dr. Balamurugan Kandasami performed functional experiments such as cloning, cell culture, Western blot and Confocal microscopy. Dr. Sundaramoorthy Gopi performed Sequencing of Neonatal Diabetes and Congenital Hyperinsulinism patients and also did bioinformatics analysis on the variants. Dr. Kavitha Babu performed experiments that characterizes the variants to its pathogenicity status. All the experimental designs were done between myself and each of the students. The trouble shooting was done by me. The re- interpretation of the variants were performed by me by corroborating all the results in addition to clinical follow ups of the patient to record the glucose trajectories. Thus I have established the experimental pipe line and analyses of the results of this work.

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Dated: 29/08/2024