



## CITATION ON THE RESEARCH WORK OF THE APPLICANT

**Dr. Radha Venkatesan**, whom I nominate for the Sun Pharma Science Foundation Research Fellowship is an outstanding Scientist in the field of Molecular Genetics. Her main area of research is in the field of genetics and genomics of Diabetes Mellitus and her focussed area is in monogenic diabetes and Congenital Hyperinsulinism. She is a pioneer in this field of research in India. She has built the Molecular Genetics lab of MDRF with the objective and vision of transforming the lives of monogenic diabetes patients through genetic understanding of the condition and using molecular genetic tools. Her major and unique contribution in the field of monogenic diabetes is in the teasing out of the molecular aetiology and in the understanding of molecular mechanism of monogenic diabetes condition such as Maturity Onset Diabetes of the young, Neonatal Diabetes Mellitus and Congenital Hyperinsulinism towards precision medicine. She has identified many mutations, performed functional characterization to understand their causal role in the pathogenesis of the disease and has advanced one step ahead by re- classifying some of these variants into pathogenic or benign. This work has had a far reaching clinical impact in that it has helped in transferring many patients with specific gene mutations from insulin injections to oral sulphonylurea drugs. Translation of these insights to clinical practice is a major focus in her current work. Her foundational work in advancing genomics of Monogenic diabetes and CHI is delivering on precision medicine in India.

I have great pleasure in endorsing her work.

**Signature of the Nominator & Head of the Institute**

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