

S E M I N A R

Organized by

**Centre for Biosystems Science and Engineering
&**

Department of Molecular Reproduction, Development and Genetics

**at 04:00 PM on 1st September, 2015 (Tuesday)
MRDG Seminar Hall, First Floor, Biological Sciences**

Human Pancreatic Islet Cell Transplantation: Bench to Bedside

Prof. T. Mohanakumar

Jacqueline G. & William E. Maritz Chair in Immunology & Oncology

Professor of Surgery, Pathology, and Immunology

Director, Histocompatibility & Immunogenetics

Director, Islet Core Facility

School of Medicine, Washington University at St. Louis, USA

Abstract:

Developmental history of pancreatic islet cell transplantation, methods to isolate islet cells from human pancreas and current protocols for isolating islet cells as well as transplantation into type 1 diabetic patients will be presented. Problems and potential solutions both for islet isolation and clinical islet cell transplantation will be discussed. Current status of autologous and allogenic islet cell transplantations will be presented. Potential use of xenogenic islets and problems associated with xenotransplantation will also be discussed.