Dr. Hector, Barajas-Martinez MSc, PhD, FHRS

Dr. Hector, Barajas-Martinez is currently the Clinical Director of Molecular Genetics/ Research Scientist at Molecular Genetics & Experimental Cardiology, Masonic Medical Research Laboratory, Utica, USA. Over the last 10 years and more he has been fully committed to advancing translational research in the field of genetics in cardiac arrhythmias. His role as a Director in the Molecular Genetics Program is to establish new strategies for molecular genetic approaches to identified new genetic markers in inherited sudden cardiac death syndromes. He played a key role in the discovery and characterization of more than 8 new genes related to Brugada, Early Repolarization Syndromes and Short and Long QT syndromes, which were published in top tier scientific journals. One of the principal goals and aims is looking for new genomic medicine to decrease mortality in sudden cardiac arrhythmias. Such as the main current proposals is to identify novel gene mutations linked to inherited cardiac arrhythmias associated with BrS, Atrail Fibrillation, LQTS and Diabetes with cardiomyopathies in ion channels syndromes, structural and metabolic by using human and animal experiments and detailed computer modelling at multiple scales (molecular, cellular, and 3D whole heart) and to advance our understanding of their role in the pathophysiological repolarization phenotype at molecular and functional levels for potential therapies. **Read his Full Bio Here**