

Satish P. RamachandraRao, M.Sc., Ph.D.

Email: satish.rao@tdu.edu.in; satish.rao@iaimhealthcare.org



Dr. Rao received his Ph. D. in Neurochemistry from the Christian Medical College, Vellore, India. He has performed postdoctoral studies in Indian Institute of Science, Bangalore, India. He was recruited to Thomas Jefferson University, Philadelphia, USA to work on kidney organ function dysfunction biomarkers specifically in subjects with diabetes. In 2007 he moved to San Diego, California, USA, as an Assistant Professor of Medicine, where he continued his Kidney disease related work. After setting up 3 completely functional laboratories from ground up in 2 universities in USA, he has recently taken up a leading position in Clinical Research at the Intitute of Ayurveda & Integrative Medicine, Trans-Disciplinary University, along with multiple translational collaborations in about a dozen institutions across the country. He continues his association with his previous institution as a Visiting Professor at University of California, San Diego.

His work has been continuously funded by USA-based public health agencies such as National Institutes of Health, Bethesda, Maryland, Juvenile Diabetes Research Foundation, New York. One of his research interests is discovering kidney physiology biomarkers in health and disease using urine as the starting material. He is here today to talk about how kidney functions, and how urine contents can be used as surrogate markers of kidney activity in general, and utility of urine exosomes as biomarker source in health and different disease conditions, and its utility in combination with other modern tools such as Next Generation Sequencing Technologies, Big data, etc.