



Amalgamating Medicine with Engineering towards Innovation and Entrepreneurship: Stepping into the Future



**Symposium on 6th Monday 2019
University of Houston Academic visit to USJ**

Prof. Metin Akay, Ph.D.
Founding Chair, Biomedical Engineering Department
John S Dunn Endowed Chair Professor
University of Houston



Prof. Metin Akay, the founding Chair of the new Biomedical Engineering Department and the John S. Dunn Professor of biomedical engineering at the University of Houston, USA; is an Electrical Engineer by profession and inventor with patents in medical imaging and image enhancement. Prof. Akay is a recipient of the third Millennium Medal and is a fellow of IEEE, the Institute of Physics (IOP), the American Institute of Medical Biological Engineering (AIMBE) and the American Association for the Advancement of Science (AAAS).

His Neural Engineering and Informatics Lab is interested in developing an intelligent wearable system for monitoring motor functions in Post-Stroke Hemiplegic Patients and detecting coronary artery disease. In addition, his lab is currently investigating the effect of nicotine on the dynamics of ventral tegmental area (VTA) dopamine neural networks as well as the detection of coronary occlusions.

Prof. Akay is the founding editor-in-chief of the Biomedical Engineering Book Series ,Neural Engineering Handbook published by the Wiley and IEEE Press and the Wiley Encyclopedia of Biomedical Engineering and the first steering committee chair of the IEEE Trans on Computational Biology and Bioinformatics.

Prof.Chandra Mohan, M.D., Ph.D.
Hugh Roy and Lillie Cranz Cullen Endowed Professor
Department of Biomedical Engineering
University of Houston



Prof. Chandra Mohan is as an endowed Professor of Medicine at UT Southwestern Medical Center, Professor has held the MGee Chair in Arthritis Research and the Walter and Helen Bader Professorship in Autoimmunity. Prof. Chandra Mohan is expertise in comprehensive profiling using multiple “omics” platforms in our laboratory has yielded novel insights on a wide spectrum of diseases, including autoimmune diseases and cancers.

Prof. Chandra Mohan’s emerging pilot projects include non-invasive skin-patch monitoring of biomarker molecules, analysis of biomarkers in breath condensates, microfluidic devices for the isolation of specific immune cells, GI-targeted nanoparticle delivery of drugs, characterization of immune cells in 3D splenoids,etc. Prof. Mohan is an elected member of the American Society of Clinical Investigation and the Henry Kunkel Society. He has published >150 articles, largely in the area of autoimmune diseases.