Cardiac Imaging for Precision Medicine

Elliot McVeigh, PhD

Professor of Bioengineering, Medicine, Radiology
University of California San Diego

Conflicts: Dr. McVeigh is an inventor on licensed US patents for real-time MRI and interventional devices. Dr. McVeigh is a co-founder and shareholder of MR Interventions Inc. Dr. McVeigh’s funding, career advancement and livelihood depends on publishing positive results.
LV function with tagging

MR Guided Ablation

MR Guided Catheter Injection

High Resolution Infarct Imaging

Arrhythmia Prediction

DTI for Atrial Fiber Maps

Trayanova et al

Elliot McVeigh, 2016
Coronary CT Angiography

Coronary CT LV function + LA function

Coronary Lesion Characterization

(the ultimate phenotyping)

Elliot McVeigh, 2016
Coronary CT LV function + LA function
Coronary CT Angiography

McVeigh, Sanford, Bluemke et. al. NIH – JHU

Elliot McVeigh
Coronary CT Angiography

McVeigh, Sanford, Bluemke et. al. NIH – JHU