## Advanced Cardiovascular Imaging Laboratory

at the National Institutes of Health/NHLBI/DHHS
and at Suburban Hospital/Johns Hopkins Medicine, Bethesda, MD, USA

### Program Time Line

#### 1999
- **Carotid Artery Atherosclerosis:** In Vivo Morphologic Characterization with Gadolinium Enhanced Double-Oblique MR Imaging - Initial Results
  - Radiology 2002 (232): 566-573
  - Citations 185
- **Gadolinium Delayed Enhancement Cardiovascular Magnetic Resonance Correlates with Clinical Measures of Myocardial Infarction**
  - Journal of American College of Cardiology, 2004 (43): 2253-2259
  - Citations 186
- **Absolute Myocardial Perfusion in Canines measured by using dual-bolus first-pass MR Imaging**
  - Radiology 2002 (234): 677-684
  - Citations 164
- **Prevalence and Prognosis of Unrecognized Myocardial Infarction Determined by Cardiac Magnetic Resonance in Older Adults**
  - Citations 80
- **Extracellular Volume Imaging by Magnetic Resonance Imaging Provides Insights into Overt and Sub-Clinical Pathology**
  - European Heart Journal, 2012 (33): 1268-1278
  - Citations 176
- **Myocardial Edema as Detected by Pre-Contrast T1 and T2 CMR Delineates Area at Risk Associated With Acute Myocardial Infarction**
  - ACC Cardiovascular Imaging, 2012 (5): 596-603
  - Citations 91

Thank you to everyone who has been a part of our large family and has contributed to the phenomenal working atmosphere of our lab. We aim to continue to develop new CMR methods and translating new CMR technology into improved patient care and outcomes. We also will continue to run a dynamic advanced cardiovascular imaging fellowship program.

### Phase-Sensitive Inversion Recovery for Detecting Myocardial Infarction Using Gadolinium-Delayed Hyperenhancement Magnetic Resonance Imaging
  - Citations 266

#### 2000
- **Detecting Acute Coronary Syndrome in the Emergency Department With Cardiac Magnetic Resonance Imaging**
  - *Circulation* 2003 (107): 531-537
  - Citations 200

#### 2001
- **Retrospective Determination of the Area at Risk for Re-perfused Acute Myocardial Infarction With T2-Weighted Cardiac Magnetic Resonance Imaging-Histopathological and Displacement Encoding With Stimulated Echoes (DENSE) Functional Validations**
  - *Circulation* 2006 April 113 (15): 1865-1870
  - Citations 311

#### 2002
- **Prognosis of Negative Adenosine Stress Magnetic Resonance in Patients Presenting to an Emergency Department With Chest Pain**
  - *Journal of the American College of Cardiology* 2006 (47): 1873-1882
  - Citations 146

#### 2003
- **Myocardial T1 Mapping and Extracellular Volume Quantification: A Society for Cardiovascular Magnetic Resonance (SCMR) and CRM Working Group of The European Society of Cardiology Consensus Statement**
  - Citations 184

#### 2004
- **Assessment of Myocardial Microstructural Dynamics By In Vivo Diffusion Tensor Cardiac Magnetic Resonance**
  - currently in press

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