

RESEARCH  
SEMINAR SERIES  
IN  
RADIOLOGICAL  
SCIENCES



**WHEN: Wednesday November 13, 2013  
12:00 noon**

**WHERE: LIVE - Irvine Campus: Medical  
Education Bldg, Colloquium 3070**

**TELECAST - UC Irvine Medical Center:  
Radiology Conference Room 0117**

**NOTE: Guest Speaker, will be in Med Ed Colloquium  
3070; video cast will be in UCIMC Radiology Conference  
Room 0117**

**Speaker: Michael Jerosch-Herold,  
Ph.D**

**Associate Professor, Harvard Medical  
School & Director, Cardiac Imaging  
Physics, Brigham & Women's  
Hospital, Boston**

**Title: "MRI of Myocardial Tissue  
Remodeling: More Than Meets The Eye"**

**Abstract:**

The focus of this presentation will be on novel MRI methods to probe through measurements of T1 relaxation times, before and after contrast administration, myocardial tissue structure. Specifically we have developed methods to detect expansion of the extracellular space, and cardiomyocyte hypertrophy. We will show how these two markers provide important insights into differences between physiological and pathological hypertrophy. Phenotyping hypertrophy by assessment of these markers by MRI may open new

opportunities for early therapeutic intervention, and for monitoring at the tissue level the effects of novel anti-fibrotic treatments, like spironolactone.

## About the Presenter:

Michael Jerosch-Herold, Ph.D. is an associate professor of radiology at Harvard Medical School, and director of cardiac imaging physics at Brigham and Women's Hospital in Boston. He obtained his PhD in condensed matter physics from Iowa State University. He has worked over the last two decades in the field of cardiovascular imaging, initially making significant contributions in the area of quantitative myocardial perfusion imaging, and more recently by his work on using MRI to detect adverse tissue remodeling.

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