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NYU School of Medicine, USA

Jane Francis - Technologist Committee Chair
John Radcliffe Hospital, United Kingdom
WHO SHOULD ATTEND?

The intended audience consists of trainees and clinical practitioners in cardiology, cardiothoracic surgery, and cardiovascular radiology.

The Goals of the Conference are to:

- Deliver state of the art information on the science of cardiovascular MR and spectroscopy.
- Provide a forum for the presentation of new information on cardiovascular magnetic resonance.
- Compare and contrast cardiovascular magnetic resonance methods with other cardiovascular imaging approaches.

ADMISSION TO THE SCIENTIFIC SESSIONS AND OTHER EVENTS

Your name badge is your admission ticket and will be required for access to all annual scientific sessions, including admission to the exhibit hall and the social event and will be included in your registration package. If you have registered for the Pre-Conference Physician Workshop or Technologist Workshop, additional tickets will be included in your registration package and will be required for access into the sessions. Please be sure to wear your name badge at all times.

REGISTRATION HOURS - Grand Foyer

<table>
<thead>
<tr>
<th>Date</th>
<th>Hours</th>
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<tr>
<td>Wednesday, Jan 19</td>
<td>6:00 PM – 9:00 PM</td>
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<tr>
<td>Thursday, Jan 20</td>
<td>6:30 AM – 7:00 PM</td>
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<td>Friday, Jan 21</td>
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<td>Saturday, Jan 22</td>
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<tr>
<td>Sunday, Jan 23</td>
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EXHIBITS - Pacific Concourse

The Eighth Annual Scientific Sessions is expected to be another record setting event, providing educational and informational displays of instrumentation and pharmaceutical companies which will be available for viewing and interaction during the meeting.

EXHIBIT HALL HOURS

<table>
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<tr>
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SPEAKER READY ROOM - Plaza Room

The 2005 Program Committee is committees to providing cutting edge technology at the Annual Scientific Meeting with its use of complete AudioVisual Networking capabilities. This will enable each speaker to view/edit their presentation in the speaker ready room in advance and the changes to be available to them in their respective meeting room when they arrive. Each meeting room will have a networked desktop computer at the podium and each presentation will be virtually a click away. Please be sure to visit the speaker ready room 1 day prior to your presentation.

SPEAKER READY ROOM HOURS

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ACKNOWLEDGMENTS

The Society for Cardiovascular Magnetic Resonance gratefully acknowledges the support of this meeting and its objectives, from the following companies

**Platinum Supporter**

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**Continuing Education Grant**

- Merck & Co., Inc.

DESIGNATION STATEMENT

**Pre-Conference Physicians Workshop**

The University of Minnesota designates this educational activity for a maximum of 7.25 category I credits toward the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit actually spent in the educational activity.

**2005 Annual Scientific Sessions**

The University of Minnesota designates this educational activity for a maximum of 18.0 category I credits toward the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit actually spent in the educational activity.

**Technologists Workshop**

The American Society of Radiological Technologists (ASRT) designates the Technologist Workshop for up to 13 hours in category A credit. Each registrant should claim only those hours of credit actually spent in the educational activity.

DISCLOSURE

“It is the policy of the University of Minnesota, Office of Continuing Medical Education to ensure balance, independence, objectivity and a scientific rigor in all its sponsored educational activities. All faculty participating in sponsored programs are expected to disclose to the program audience any real or apparent conflict of interest related to the content of their presentation.”

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of Minnesota and the Society for Cardiovascular Magnetic Resonance. The University of Minnesota is accredited by the ACCME to provide continuing medical education for physicians.
Physician Pre-conference Workshop
Introduction to Cardiovascular MR
Thursday, January 20, 2005

8:00 AM-8:10 AM Welcome Address
Edward Martin, MD  Joerg Barkhausen, MD, PhD
Oklahoma Heart Institute, USA  University Hospital Essen, Germany

8:10 AM-9:50 AM MR Physics
Moderators
Frederick H. Epstein, PhD  Mark Doyle, PhD
University of Virginia, USA  Allegheny General Hospital, USA

8:10 AM-8:30 AM CMR Hardware (Scanner, ECG-Systems, Monitoring)
Frederick H. Epstein, PhD
University of Virginia, USA

8:30 AM-8:50 AM Sequences: Turbo Spin Echo Imaging
Andre Duerinckx, MD, PhD
VA North Texas Healthcare Systems, USA

8:50 AM-9:10 AM Sequences: Gradient Echo Imaging (Perfusion, Viability, Velocity Encoding)
Mark Doyle, PhD
Allegheny General Hospital, USA

9:10 AM-9:30 AM Sequences: SSFP-CINE MR
Craig Meyer, PhD
University of Virginia

9:30 AM-9:50 AM Sequences: MRA
Matt Bernstein, PhD
Mayo Clinic, USA

9:50 AM-10:20 AM Break

10:20 AM-12:35 PM How To Sessions
Moderators
Edward Martin, MD  Robert Biederman, MD
Oklahoma Heart Institute, USA  Allegheny General Hospital, USA

10:20 AM-10:35 AM Basic Cardiac Exam
Edward Martin, MD
Oklahoma Heart Institute, USA

10:35 AM-11:05 AM LV and RV Function and Wall Motion
Robert Biederman, MD
Allegheny General Hospital, USA

10:50 AM-11:05 AM Dobutamine MRI
W. Gregory Hundley, MD
Wake Forest University School of Medicine, USA

11:05 AM-11:20 AM Myocardial Perfusion
Nidal Al-Saadi, MD
Charite, Virchow-Clinic, Germany

11:20 AM-11:35 AM Myocardial Viability (Hibernation, Stunning, Scar)
Robert Judd, PhD
Duke University Medical Center, USA

11:35 AM-11:50 AM Coronary Artery Imaging
Torsten Sommer, MD
University of Bonn, Germany

11:50 AM-12:05 PM Magnetic Resonance Angiography (Peripheral)
Thomas Grist, MD, PhD
University of Wisconsin, USA
12:05 PM-12:20 PM  | Magnetic Resonance Angiography (Aorta)  
Martin Prince, MD  
Weill Medical College of Cornell University, USA

12:20 PM-12:35 PM  | Panel discussion

12:35 PM-2:00 PM  | Lunch

2:00 PM-3:20 PM  | Tricks and Tips  
Moderators  
Robert Judd, PhD  
Krishna Nayak, PhD  
Duke University Medical Center, USA  
University of Southern California, USA

2:00 PM-2:20 PM  | Tissue Characterization Based On T1, T2 and Contrast Enhancement  
Walter J. Rogers, PhD  
University of Virginia Health System, USA

2:20 PM-2:40 PM  | ECG Triggering (Different ECG Systems, Prospective, Retrospective, Self Gating)  
Hildo J. Lamb, PhD  
Leiden University Medical Center, Netherlands

2:40 PM-3:00 PM  | Non Cooperative Patients and Arrhythmia: Real Time and Single Shot Imaging  
Krishna Nayak, PhD  
University of Southern California, USA

3:00 PM-3:20 PM  | Resolution: Spatial, Temporal and Contrast, Parallel Acquisition Techniques  
Bernd Wintersperger, MD  
University of Munich-Grosshadern Campus, Germany

3:20 PM-3:40 PM  | Break

3:40 PM-5.40 PM  | Clinical Applications of CMR  
Moderators  
Peter Buser, MD  
Anthon Fuisz, MD  
University Hospital, Switzerland  
Washington Hospital Center, USA

3:40 PM-4:00 PM  | Congenital Heart Disease  
Philip Kilner, MD  
Royal Brompton Hospital, United Kingdom

4:00 PM-4:20 PM  | Cardiac Masses  
Jan Bogaert, MD  
University Hospitals, Belgium

4:20 PM-4:40 PM  | Valvular Heart Disease  
Ron Peshock, MD  
UT Southwestern Medical Center, USA

4:40 PM-5:00 PM  | Acute and Chronic Myocardial Infarction  
Anthon Fuisz, MD  
Washington Hospital Center, USA

5:00 PM-5:20 PM  | Cardiomyopathy and Myocarditis  
Ralf Wassmuth, MD  
Humboldt University, Germany

5:20 PM-5:40 PM  | Myocardial Ischemia  
Peter Buser, MD  
University Hospital, Switzerland
Program Agenda - Eighth Annual SCMR Scientific Sessions
Friday, January 21, 2005

8:00 AM-8:15 AM  Welcome Addresses  Grand Ballroom
Warren Manning, MD  Christopher Kramer, MD
Beth Israel Deaconess Medical Center, USA  University of Virginia Health System, USA

8:15 AM-10:30 AM  Parallel Session: Clinical Plenary Session I
CONTROVERSIES IN CMR - STRESS AND VIABILITY  Grand Ballroom
Moderators
Nathaniel Reichek, MD  Bob Hu, MD
St. Francis Hospital, USA  Palo Alto Medical Foundation, USA

8:15 AM-8:35 AM  Value of Rest Perfusion Imaging for the Detection of Ischemia or Infarction
Rolf Gebker, MD
German Heart Institute, Germany

8:35 AM-8:55 AM  Effects of Acquisition and Analysis Order of Cine, Perfusion, and Viability Images on CAD Determination
Igor Klem, MD
Duke University Medical Center, USA

8:55 AM-9:15 AM  How Should Cine, Perfusion, and Viability Data Be Combined to Yield a Positive/Negative Test for CAD?
Raymond Kwong, MD
Brigham & Women's Hospital, USA

9:15 AM-9:35 AM  Is Viability Best Defined by Low Dose Dobutamine or Delayed Enhancement?
W. Gregory Hundley, MD
Wake Forest University School of Medicine, USA

9:35 AM-9:55 AM  Is a Standardized Acquisition Protocol Needed for Delayed Enhancement Imaging?
Andrew Arai, MD
NHLBI/National Institutes of Health, USA

9:55 AM-10:15 AM  What Should Be Offered For Routine Diagnosis of Myocardial Ischemia Today: Dobutamine Stress, Adenosine Perfusion, or Coronary Artery Imaging?
Frank Rademakers, MD, PhD
University Hospitals Leuven, Belgium

10:15 AM-10:30 AM  Discussion

10:30 AM-11:00 AM  Break

8:15 AM-10:30 AM  Parallel Session: Basic Oral Abstracts
THE CUTTING EDGE IN MOLECULAR MRI:
NEW TARGETS AND RESULTS  Bayview
Moderators
Matthias Stuber, PhD  Dwight Nishimura, PhD
Johns Hopkins University, USA  Stanford University, USA

8:15 AM - 8:30 AM  Introductory Talk
Technical Advances in Cardiovascular Molecular MRI
Rene Botnar, PhD
Beth Israel Deaconess Medical Center, USA

8:30 AM - 8:40 AM  101 - Serial Quantification of Targeted Fumagillin Therapy using 3-Targeted Paramagnetic Nanoparticles in Early Atherosclerosis at 1.5T
Patrick Winter

8:40 AM - 8:50 AM  102 - In Vivo Magnetic Resonance Imaging of Atherosclerotic Plaque Inflammation in Apolipoprotein E Deficient Mice
David Sosnovik
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:50 AM - 9:00 AM</td>
<td>103 - In vivo Thrombus Detection with Magnetic Resonance Imaging: A Comparative Study using a Fibrin-Targeted Contrast Agent and Gd-DTPA. Marc Sirol</td>
</tr>
<tr>
<td>9:00 AM - 9:10 AM</td>
<td>104 - Spatial and Temporal Characterization of MRI Contrast Enhancement in Atherosclerotic Lesions with Gadolinium Texaphyrin Complexes Henning Steen</td>
</tr>
<tr>
<td>9:10 AM - 9:20 AM</td>
<td>105 - CMR Detection of VCAM-1 Expression in Activated Human Endothelial Cells with Targeted SPIO Nanoparticles Szilard Voros</td>
</tr>
<tr>
<td>9:30 AM - 9:40 AM</td>
<td>107 - Non-invasive In Vivo “Histology”: Visualizing Single Immune Cells in Acute Allograft Rejection after Heterotopic Heart Transplantation with Micrometer-sized Iron Oxide Containing Particles Yijen Wu</td>
</tr>
<tr>
<td>9:40 AM - 9:50 AM</td>
<td>108 - Recombinant HDL-like Nanoparticles, a Specific Contrast Agent for MRI of Atherosclerotic Plaques Juan Frias</td>
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<tr>
<td>9:50 AM - 10:00 AM</td>
<td>109 - Detection of Early Atherosclerotic Plaque in vivo by Gadofluorine M-Enhanced Magnetic Resonance Imaging Marc Sirol</td>
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<tr>
<td>10:00 AM - 10:10 AM</td>
<td>110 - Detection of macrophage infiltration within atherosclerotic plaques as positive and negative contrast by USPIO MRI: ex vivo rabbit study Masahiro Terashima</td>
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<tr>
<td>10:10 AM - 10:20 AM</td>
<td>111 - 3-Dimensional Quantification of Atherosclerotic Injury with MRI Molecular Imaging Tillmann Cyrus</td>
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<td>10:20 AM - 10:30 AM</td>
<td>112 - Intracellular Sodium MRI during Acute Regional Myocardial Ischemia and Reperfusion Maurits Jansen</td>
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<tr>
<td>10:30 AM - 11:00 AM</td>
<td>Break</td>
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<tr>
<td>11:00 AM - 12:00 PM</td>
<td>Oral Abstracts (3 Parallel Sessions)</td>
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**CMR OF MYOCARDIAL ISCHEMIA: NEW PERSPECTIVES Grand Ballroom A**

**Moderators**
Susan Yeon, MD
Beth Israel Deaconess Medical Center, USA
Juerg Schwitter, MD
University Hospital Zurich, Switzerland

<table>
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<tr>
<th>Time</th>
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<tr>
<td>11:00 AM - 11:10 AM</td>
<td>113 - Prognostic Value of High-dose Dobutamine Stress MRI in Coronary Artery Disease: Long-term Follow-up of Cardiac Events in Patients Not Undergoing Revascularization Oliver Bruder</td>
</tr>
<tr>
<td>11:10 AM - 11:20 AM</td>
<td>114 - Abnormal Rest Cardiac MR Perfusion Identifies Hibernating Myocardium in a Porcine Model of Chronic Myocardial Ischemia Evan Appelbaum</td>
</tr>
<tr>
<td>11:20 AM - 11:30 AM</td>
<td>115 - Myocardial Blood Flow at Rest is Impaired in Segments with Severe Coronary Artery Disease: An MR Study of Quantitative Perfusion Assessment Joseph Selvanayagam</td>
</tr>
<tr>
<td>11:30 AM - 11:40 AM</td>
<td>116 - Prediction of Event-Free Survival by Contrast Enhanced Cardiac Magnetic Resonance Imaging in Patients with Symptoms of Coronary Artery Disease Carmen Chan</td>
</tr>
<tr>
<td>11:40 AM - 11:50 AM</td>
<td>117 - Combined use of Adenosine Stress Perfusion MRI and Multislice CT Coronary Angiography for Detecting Hemodynamically Significant Coronary Artery Disease Okan Ekinci</td>
</tr>
</tbody>
</table>
11:50 AM - 12:00 PM 118 - Serial magnetic resonance imaging for the assessment of myocardial perfusion, left ventricular function, and infarct size after application of blood-derived progenitor cells in recanalised chronic coronary total occlusions
Holger Thiele

NEW WAYS OF UNDERSTANDING VENTRICULAR FUNCTION  Grand Ballroom BC

Moderators
Leon Axel, MD, PhD  Anthon Fuisz, MD
NYU School of Medicine, USA  Washington Hospital Center, USA

11:00 AM - 11:10 AM 119 - Real-time Myocardial Function during Arrhythmia
Peter Kellman

11:10 AM - 11:20 AM 122 - Matched Cine DENSE and Contrast-Enhanced CMR Identify Heterogeneity of Function in Noninfarcted Regions After Myocardial Infarction
Frederick Epstein

11:20 AM - 11:30 AM 121 - Temporal Evolution of Myocardial Dysfunction in Mice after Reperfused Myocardial Infarction: A 3D Deformation Analysis Combined with Delayed Enhancement Infarct Imaging
Alistair Young

11:30 AM - 11:40 AM 120 - MR Phase Contrast Velocity Mapping for the Assessment of Regional Function of the Systemic Ventricle in Patients with Transposition of the Great Arteries
Oliver Wieben

11:40 AM - 11:50 AM 123 - Comparison of peak velocities in the ascending aorta detected by k-t BLAST accelerated MR-FVE and echocardiography
Christof Baltes

11:50 AM - 12:00 PM 124 - Cardiac-Output Measurement in 5 Seconds using Ungated Spiral Phase-Contrast
Jong Park

VENTRICULAR REMODELING: INSIGHTS FROM CMR  Bayview

Moderators
Michael Jerosch-Herold, PhD  Saul Myerson, MD
Oregon Health & Science University, USA  John Radcliffe Hospital, United Kingdom

11:00 AM - 11:10 AM 125 - Effect of Optimal Pharmacological Treatment on Left Ventricular Remodeling in Chronic Heart Failure Assessed by Cardiovascular Magnetic Resonance
Nikolay Nikitin

11:10 AM - 11:20 AM 126 - Intermediate and Long-Term Remodeling of Remote Left Ventricular Myocardium Following Percutaneous Transcatheter Septal Myocardial Ablation in Hypertrophic Obstructive Cardiomyopathy Detected by Cine MRI
John Cahill

11:20 AM - 11:30 AM 127 - Human Infarct Resorption Patterns and Long-term Ventricular Remodeling Following Myocardial Infarctions of Varying Size
Paula Tejedor

11:30 AM - 11:40 AM 128 - Left Ventricular Remodeling in Dilated Cardiomyopathy with and without Evidence of Late Gadolinium Enhancement
Ravi Assomull

11:40 AM - 11:50 AM 129 - Bradykinin B2 receptor does not mediate the anti-remodeling effects of the angiotensin II type 2 receptor following myocardial infarction
David Isbell

11:50 AM - 12:00 PM 130 - CMR Demonstrates Reduced Post-Infarct Left Ventricular Remodeling in Mice with iNOS Inhibition
Frederick Epstein

12:00 PM-12:30 PM SCMR Business Meeting  Grand Ballroom A

12:30 PM-1:30 PM Lunch (On Own) / Poster Viewing Session I  Pacific Concourse
Posters 301-310 and 321-445
Abstracts can be viewed in their entirety in the Journal of Cardiovascular Magnetic Resonance.
**PARALLEL SESSIONS**

**PEDIATRIC CMR I**  
**CHILDREN ARE NOT SMALL ADULTS - IMPLICATIONS FOR CMR**  
*Grand Ballroom BC*

**Moderators**
- G. Wesley Vick III, MD, PhD  
  Baylor College of Medicine, USA  
- Richard Slaughter, MD  
  Prince Charles Hospital Health Service District, Australia

**1:30 PM-1:50 PM**  
**Overview Of CMR In Congenital and Acquired Pediatric Heart Disease**  
Tal Geva, MD  
*Boston Children’s Hospital, USA*

**1:50 PM-2:10 PM**  
**Anesthesia Versus Sedation**  
Edward Baker, MD  
*Guy’s, King’s and St. Thomas’ School of Medicine, United Kingdom*

**2:10 PM-2:30 PM**  
**CMR Versus CT For Vascularanomalies**  
Shi Joon Yoo, MD  
*University of Toronto, Canada*

**2:30 PM-2:50 PM**  
**CMR Guided Interventions**  
Reza Razavi, MRCP  
*Guy’s, Kings’ and St. Thomas’ School of Medicine, United Kingdom*

**2:50 PM-3:00 PM**  
**Discussion**

**BASIC PARALLEL SESSION**  
**LUMEN, WALL, AND NEW CONTRAST MECHANISMS**  
*Grand Ballroom A*

**Moderators**
- Joerg Barkhausen, MD  
  University Hospital Essen, Germany  
- Robert Edelman, MD  
  Evanston Hospital, USA

**1:30 PM-1:45 PM**  
**Imaging The Vulnerable Patient**  
Valentin Fuster, MD, PhD  
*Mount Sinai Medical Center, USA*

**1:45 PM-2:00 PM**  
**How To Generate MR Contrast Agents - Coupling, Binding, Etc.**  
King Li, MD, PhD  
*Warren Grant Magnuson Clinical Center, NIH, USA*

**2:00 PM-2:15 PM**  
**Atheroma Characterization and Validation (Preclinical)**  
Chun Yuan, PhD  
*University of Washington, USA*

**2:15 PM-2:30 PM**  
**Atheroma Characterization Using Specific and Nonspecific Contrast Agents (Clinical)**  
Bruce Wasserman, MD  
*Johns Hopkins School of Medicine, USA*

**2:30 PM-2:45 PM**  
**The Near Future: Applications of Intravascular Contrast Agents**  
Ingo Paetsch, MD  
*German Heart Institute, Germany*

**2:45 PM-3:00 PM**  
**Atheroma Evaluation In Clinical Trials**  
Zahi Fayad, PhD  
*Mount Sinai Medical Center, USA*

**CLINICAL PARALLEL SESSION**  
**GUIDELINES AND REIMBURSEMENT**  
*Bayview*

**Moderators**
- Eckart Fleck, MD  
  German Heart Institute, Germany  
- Raymond Kim, MD  
  Duke University Medical Center, USA

**1:30 PM-1:45 PM**  
**CMR In Clinical Routine - Europe**  
Eike Nagel, MD  
*German Heart Institute, Germany*
1:45 PM-2:00 PM  CMR In Clinical Routine - USA
Steven Wolff, MD, PhD
Advanced Cardiovascular Imaging, USA

2:00 PM-2:15 PM  CMR In Clinical Routine - Asia
Hajime Sakuma, MD, PhD
Mie University Hospital, Japan

2:15 PM-2:30 PM  Training Guidelines
Gerald Pohost, MD
University of Southern California, USA

2:30 PM-2:45 PM  SCMR and Reimbursement
Nathaniel Reichek, MD
St. Francis Hospital, USA

2:45 PM-3:00 PM  Discussion

3:00 PM-3:30 PM  Break

3:30 PM-5:00 PM  Oral Abstracts (3 Parallel Sessions)

UNDERSTANDING THE PHENOTYPE OF HEART FAILURE  Bayview

Moderators
Joseph Selvanayagam, MBBS, FRACP  Robert Biedermann, MD
John Radcliffe Hospital, United Kingdom  Allegheny General Hospital, USA

3:30 PM - 3:40 PM  131 - Prevalence of Cardiac Damage in Patients with Sarcoidosis: A Delayed Enhancement Cardiac MRI Study
Manesh Patel

3:40 PM - 3:50 PM  132 - Myocardial scarring in beta thalassemia major by late gadolinium-enhanced Magnetic Resonance Imaging: correlation with iron overload and ECG-changes
Alessia Pepe

3:50 PM - 4:00 PM  133 - Baseline Findings of a CMR Driven Randomized Controlled Trial of Iron Chelation Therapy in Thalassaemia Major
Mark Tanner

4:00 PM - 4:10 PM  134 - Improved R2* measurements in myocardial iron overload
Nilesh Ghugre

4:10 PM - 4:20 PM  135 - Impaired Aortic Properties in Patients with Chronic Heart Failure as Assessed by Cardiovascular Magnetic Resonance
Nikolay Nikitin

4:20 PM - 4:30 PM  136 - Regional Differences in Systolic & Diastolic Function in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy using Magnetic Resonance Imaging
Chandra Bomma

4:30 PM - 4:40 PM  137 - CMR follow up of patients with ARVC
Sven Plein

4:40 PM - 4:50 PM  138 - Combined Contrast-enhanced and T2-weighted Cardiovascular Magnetic Resonance Accurately Detects Acute Myocarditis
Hassan Abdel-Aty

4:50 PM - 5:00 PM  139 - Influencing Factors Measuring Left Ventricular Function and Morphology by MRI-Is MRI the Golden Standard?
Henning Steen
DELAYED ENHANCEMENT IN MYOCARDIAL INFARCTION:  
MORE THAN SCAR VISUALIZATION  
Grand Ballroom A

Moderators
Thorsten Dill, MD  Walter Rogers, PhD  
Kerckhoff Heart Center, Germany  University of Virginia, USA

3:30 PM - 3:40 PM  
140 - MRI to predict the presence of Q waves on the ECG  
Theodorus Kaandorp

3:40 PM - 3:50 PM  
141 - Contrast enhanced magnetic resonance imaging of acute myocardial infarction: optimization of image contrast  
Kai-Uwe Waltering

3:50 PM - 4:00 PM  
142 - Resolution of Microvascular Obstruction Occurs Within Days of an Acute Myocardial Infarction  
Timothy Albert

4:00 PM - 4:10 PM  
143 - Infarct Size is an Independent Predictor of Mortality in Patients With Coronary Artery Disease  
Rishi Kaushal

4:10 PM - 4:20 PM  
144 - Prognostic value of delayed contrast-enhanced cardiovascular magnetic resonance in patients after reperfused acute myocardial infarction  
Matthias Regenfus

4:20 PM - 4:30 PM  
145 - Delayed Enhancement Cardiac Magnetic Resonance Imaging Detects Acute Right Ventricular Myocardial Infarction  
Andreas Kumar

4:30 PM - 4:40 PM  
146 - Detection of Right Ventricular Infarction by Cardiac Magnetic Resonance Imaging  
D. Paterson

4:40 PM - 4:50 PM  
147 - Differences of late Gd-DTPA kinetics and partition coefficient in normal, stunned and necrotic myocardium in patients with acute myocardial infarction  
Christoph Klein

4:50 PM - 5:00 PM  
148 - Hypoenhancement on Delayed Contrast-Enhanced MRI following ST-Segment Elevation Myocardial Infarction: an Alternate Approach for Evaluating No-Reflow  
Chiara Bucciarelli-Ducci

INDIVIDUAL RISK STRATIFICATION:  
NEW APPROACHES USING CMR  
Grand Ballroom BC

Moderators
Sven Plein, MD  Cees van Echteld, PhD  
Leeds General Infirmary, United Kingdom  University Medical Center Utrecht, Netherlands

3:30 PM - 3:40 PM  
149 - Risk Assessed by Framingham and Myocardial Perfusion Measured by MRI Selects Patients for Coronary Artery Angiography: The NHLBI-Sponsored Women’s Ischemia Syndrome Evaluation (WISE) Study  
Mark Doyle

3:40 PM - 3:50 PM  
150 - Arrhythmic Risk Stratification in the MADIT-II Population  
Sunil Mathew

3:50 PM - 4:00 PM  
151 - Pulmonary Vein Diameter Reduction in Early Magnetic Resonance Angiography After Radiofrequency Ablation: Prognostic Significance for Development of Severe Stenosis  
Okan Ekinci

4:00 PM - 4:10 PM  
152 - Myocardial perfusion in patients with cardiac syndrome X assessed with Cardiovascular Magnetic Resonance and Positron Emission Tomography  
Andrew Elkington

4:10 PM - 4:20 PM  
153 - The Relationship Between Myocardial Iron Deposition and Left Ventricular Dysfunction in Thalassemia using Cardiovascular Magnetic Resonance.  
Mark Westwood

4:20 PM - 4:30 PM  
154 - Cardiac Magnetic Resonance Characterization of Patients with Pheochromocytoma  
W. Patricia Ingkanisorn
4:30 PM - 4:40 PM
155 - Prevalence and Structural Risk Factors for Left Ventricular Thrombus in Patients with Systolic Dysfunction as Assessed by Cardiac MRI
Han Kim

4:40 PM - 4:50 PM
156 - MR imaging of atherosclerosis in aorta and carotid arteries of patients with acute ischemic stroke
Venkat Mani

4:50 PM - 5:00 PM
157 - MR Delayed Enhancement Imaging in Post Cardiac Transplant Patients at Yearly Review
Richard Slaughter

5:00 PM - 6:30 PM
Case Interpretation Panel: Read With The Experts (I)  
Grand Ballroom A

Moderators
Frank Rademakers, MD, PhD
University Hospitals Leuven, Belgium
Michael McConnell, MD
Stanford University, USA

Discussants
Udo Sechtem, MD
Robert Bosch Krankenhaus, Germany
Art Stillman, MD
Cleveland Clinic, USA
Ronald Razmi, MD
The Care Group, USA
Charles Higgins, MD
UCSF Medical Center, USA

5:00 PM - 6:30 PM
Poster Viewing Session II / Moderated Poster Tour I  
Pacific Concourse

Wine And Cheese Reception

Moderators presenting Posters 301-310

Robert Balaban, PhD
National Institutes of Health, USA
Raad Mohaiddin, MD, PhD
Imperial College School of Medicine, United Kingdom

301 - Cardiac MRI Within One Week Of Coronary Stent Implantation is Safe
Charles Kim

Rainer Ott

303 - Myocardial Perfusion Improvement Detected by MRI in Patients Undergoing Surgical Revascularization and Bone Marrow Cells Injection - One Year Follow-Up
Carlos Rochitte

304 - Time from symptom onset to reperfusion and influence on infarct size in patients with ST-elevation myocardial infarction reperfused by prehospital fibrinolysis or prehospital initiated facilitated percutaneous intervention
Holger Thiele

305 - Discrimination of Ischemic vs. Non-ischemic Cardiomyopathy Among Patients with Heart Failure Using Combined Coronary MRI and Delayed Enhancement MR.
Thomas Hauser

306 - MR-based Cardiac Electromechanical Mapping in Ischemic Heart
Hiroshi Ashikaga

307 - Determination of Association Between Carotid Atherosclerosis and High Density Lipoprotein Subfractions by High Resolution MRI
Milind Desai

308 - Assessment of Functional Flow Reserve Using Real-Time Global Coherent Free Precession
Timothy Albert

309 - Single-echo versus multiple echo cardiac T2* estimates for cardiac iron estimation in iron overload
John Wood

310 - Phase Train Approach for Very High Temporal Resolution Cardiac Imaging
Vinay Pai

7:00 PM
User Meetings
Saturday, January 22, 2005

8:00 AM-9:30 AM  Basic Plenary Session I

**MOLECULAR IMAGING**

*Grand Ballroom*

**Moderators**
- Greg Lanza, MD, PhD
  University of Washington St. Louis, USA
- Dara Kraitchman, PhD
  Johns Hopkins University School of Medicine, USA

8:00 AM-8:20 AM  Targeted Isotopes For Radionuclide Imaging Of Cell Therapy

Joseph Wu, MD, PhD
Stanford University, USA

8:20 AM-8:40 AM  MR Molecular Spectroscopy

Joanne Ingwall, PhD
Brigham & Women’s Hospital, USA

8:40 AM-9:00 AM  Cellular Tracking By MR

Jeff Bulte, MD, PhD
Johns Hopkins University School of Medicine, USA

9:00 AM-9:20 AM  Molecular Imaging By CMR

Samuel Wickline, MD
Washington University at St. Louis School of Medicine, USA

9:20 AM-9:30 AM  Discussion

8:00 AM-9:30 AM  Parallel Session: Clinical Oral Abstracts

**HEADING FOR NEW CLINICAL GOLD STANDARDS**

*Bayview*

**Moderators**
- Eike Nagel, MD
  German Heart Institute, Germany
- Joao Lima, MD
  Johns Hopkins University School of Medicine, USA

8:00 AM - 8:10 AM  158 - Value of T2-weighted-, first-pass-enhancement and cine-MRI to differentiate between acute and chronic myocardial infarction

Gunnar Lund

8:10 AM - 8:20 AM  159 - Clinical Safety of Cardiac MRI Prior to Discharge in Patients with Acute Myocardial Infarction and Coronary Artery Stenting with both Bare Metal and Drug-Eluting Stents

Manesh Patel

8:20 AM - 8:30 AM  160 - Contrast Enhanced Magnetic Resonance Imaging: A Novel Approach for Identifying The Infarct Related Artery in Patients with Non-ST Elevation Myocardial Infarction

John Heitner

8:30 AM - 8:40 AM  161 - Changes in Left Atrial Geometry and Function After Left Atrial Ablation

Meyer Thomas

8:40 AM - 8:50 AM  162 - Pulmonary Hypertension: Comparison Between Pulmonary-Aortic Transit Time Measured By Cardiac Magnetic Imaging And Right Heart Catheterization

Javier Sanz

8:50 AM - 9:00 AM  163 - Submillimeter Spatial-Resolution Contrast-Enhanced MRA of the Carotid Arteries Using Ferumoxytol in Humans

Vu Mai

9:00 AM - 9:10 AM  164 - Real-time guidance strategy for pulmonary vein ablations : is XMR a feasible approach?

Kawal Rhode

9:10 AM - 9:20 AM  165 - Cartesian Self-Gated Cine MRI: Initial Clinical Experience

David Sandman

9:20 AM - 9:30 AM  166 - Free-breathing whole-heart MRI with 3D-radial SSFP and self-navigated image reconstruction

Christian Stehning
9:30 AM-10:15 AM Platinum Sponsor Presentations

Grand Ballroom

Moderators
Warren Manning, MD
Beth Israel Deaconess Medical Center, USA
Stefan Neubauer, MD
John Radcliffe Hospital, United Kingdom

9:30AM Philips Medical Systems
9:45AM GE Medical Systems
10:00AM Siemens Medical Solutions

10:15 AM-10:45 AM CMR Questionnaire

Grand Ballroom

Gerald Pohost, MD
University of Southern California, USA

10:45 AM-11:15 AM Break

11:15 AM-12:15 PM Oral Abstracts (3 Parallel Sessions)

HOT TOPICS IN CORONARY ARTERY IMAGING

Grand Ballroom A

Moderators
Scott Flamm, MD
Elmar Spuentrup, MD
Texas Heart Institute
Aachen Technical University, Germany

11:15 AM - 11:25 AM 167 - Intraindividual Comparison of Coronary MR Angiography and Coronary CT Angiography in Calcified Coronary Segments
Murat Ozgun

11:25 AM - 11:35 AM 168 - Feasibility of Single Breath-Hold Whole Heart Coverage Coronary MRA Using Highly Accelerated Parallel Imaging with a 32-Channel MR System
Thoralf Niendorf

11:35 AM - 11:45 AM 169 - Diagnostic Accuracy of Whole Heart Coronary Magnetic Resonance Angiography for the Detection of Significant Coronary Stenoses in Patients with Suspected Coronary Artery Disease.
Hajime Sakuma

11:45 AM - 11:55 AM 170 - Quantification of Coronary Artery Stenoses using Interventional MRI: Comparison to X-Ray Angiography
Jordin Green

11:55 AM - 12:05 PM 171 - Coronary MRA at 3.0 Tesla compared to 1.5 Tesla: Initial results in patients with suspected coronary artery disease
Matthias Hackenbroch

12:05 PM - 12:15 PM 172 - Coronary Angiography In Vivo Employing PASADENA 13C and 1H Magnetic Resonance Imaging
Thao Tran

VASCULAR AND INTERVENTIONAL CMR:
TOWARDS CLINICAL FEASIBILITY

Bayview

Moderators
Bernhard Gerber, MD
Andre Duerinckx, MD
Cliniques Universitaires St. Luc, Belgium
VA North Texas Healthcare System, USA

11:15 AM - 11:25 AM 173 - Multi-slice Dark-Blood TSE Carotid Imaging at 3T with Regional Saturation and Rapid Extended Coverage - A Feasibility Study
Ioannis Koktzoglou

11:25 AM - 11:35 AM 174 - MR and CT Imaging of Patients with Atherosclerotic Aortic Plaque and Evaluation of New MR Methods
Daisy Chien

11:35 AM - 11:45 AM 175 - Interactive Real-Time Magnetic Resonance-Guided Atrial Septal Puncture and Atrial Balloon Septostomy are Feasible in Swine
Amish Raval

11:45 AM - 11:55 AM 176 - Chronic Total Peripheral Artery Occlusion Recanalization Using Interactive Real-Time Magnetic Resonance Imaging Guidance is Feasible in a Swine Model
Amish Raval
11:55 AM - 12:05 PM 177 - MR-Compatible Coronary Stent: In-Vitro and First Human MR Imaging Experience With an Absorbable Magnesium-Alloy Stent
Peter Hunold

12:05 PM - 12:15 PM 178 - MR Fluoroscopy For Delivery Of Non-Ionic Dysprosium-DTPA- BMA Into Scarred Myocardium
Maythem Saeed

**IMAGING MYOCARDIAL FIBROSIS AND ITS CLINICAL IMPACT**  
**Grand Ballroom BC**

**Moderators**
Maleah Grover-McKay, MD  Robert Judd, PhD
*University of California San Diego, USA*  *Duke University Medical Center, USA*

11:15 AM - 11:25 AM 179 - Prevalence of incidental non-cardiac findings detected by cardiac MRI
Kai-Uwe Waltering

11:25 AM - 11:35 AM 180 - Demonstration and Prediction of the Potential Reversible Nature of Thinned Myocardium by CMR.
Olga James

11:35 AM - 11:45 AM 181 - Comparison of Contrast Enhanced Magnetic Resonance Imaging to Positron Emission Tomography with F-18 Fluorodeoxyglucose and Rb-82 for the Detection of Myocardial Viability Using Left Ventricular Bullseye Analysis
Robert Eisner

11:45 AM - 11:55 AM 182 - Myocardial Viability Assessment by Contrast-Enhanced MRI Before CABG Surgery - Impact of Late Enhancement Extent in MRI on Coronary Graft Flow
Peter Hunold

11:55 AM - 12:05 PM 183 - CMR contrast-enhanced study of dilated cardiomyopathy
Sandra Pujadas

12:05 PM - 12:15 PM 184 - Detection of Intraventricular Thrombi by Contrast Enhanced Magnetic Resonance Imaging of the Heart
Okan Ekinci

12:15 PM-1:30 PM Lunch (On Own) / Poster Viewing III
Pacific Concourse
Posters 311-320 and 446-564.
Abstracts can be viewed in their entirety in the Journal of Cardiovascular Magnetic Resonance

12:15 PM-1:30 PM SCMR Trainees And Students Hour
Grand Ballroom A

**Moderators**
Uma Valeti, MD  Saul Myerson, MD
*Mayo Clinic, USA*  *John Radcliffe Hospital, United Kingdom*

12:15PM-12:20PM Welcome Address
Warren Manning, MD
*Beth Israel Deaconess Medical Center, USA*

12:20PM-12:35PM Why Choose CMR For Your Career
Andrew Arai, MD
*NHLBI/National Institutes of Health, USA*

**Clinical**  **Grand Ballroom A**  **Basic**  **Grand Ballroom BC**

**Moderators**
Uma Valeti, MD  Saul Myerson, MD  Leon Axel, MD, PhD  Daisy Chien, PhD
*Mayo Clinic, USA*  *John Radcliffe Hospital, United Kingdom*  *NYU School of Medicine, USA*  *Cedars-Sinai Medical Center, USA*

12:35PM-12:50PM How To Become An Expert And What To Look For In A Training Program
Raymond Kim, MD  Elliot McVeigh, PhD
*Duke University Medical Center, USA*  *National Institutes of Health, USA*
### CLINICAL PARALLEL SESSION

**CMR IN CHF**  
*Grand Ballroom A*

**Moderators**  
Michael Poon, MD  
Cabrini Medical Center, USA  
Udo Sechtem, MD  
Robert Bosch Krankenhaus, Germany

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>1:30 PM</td>
<td>Overview Of The Problem</td>
<td>Kanu Chatterjee, MBBS</td>
<td>University of California, San Francisco, USA</td>
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<tr>
<td>1:45 PM</td>
<td>CMR in DCM</td>
<td>Christopher Kramer, MD</td>
<td>University of Virginia Health System, USA</td>
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<tr>
<td>2:00 PM</td>
<td>CMR in HCM</td>
<td>Albert van Rossum, MD, PhD</td>
<td>VU Medical Center, Netherlands</td>
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<tr>
<td>2:15 PM</td>
<td>CMR in Myocarditis</td>
<td>Heiko Mahrholdt, MD</td>
<td>Robert Bosch Medical Center, Germany</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>CMR in Infiltrative Diseases</td>
<td>Dudley Pennell, MD</td>
<td>Royal Brompton Hospital, United Kingdom</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>CMR in ARVC</td>
<td>David Bluemke, MD</td>
<td>Johns Hopkins Hospital, USA</td>
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### BASIC PARALLEL SESSION

**NEW TECHNIQUES IN CMR**  
*Bayview*

**Moderators**  
Frederick Epstein, PhD  
University of Virginia, USA  
David Firmin, PhD  
Royal Brompton Hospital, United Kingdom

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<tr>
<th>Time</th>
<th>Session</th>
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<th>Institution</th>
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<tbody>
<tr>
<td>1:30 PM</td>
<td>Advances In Interventional CMR</td>
<td>Elliot McVeigh, PhD</td>
<td>National Institutes of Health, USA</td>
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<tr>
<td>1:45 PM</td>
<td>3T Cardiac MRI and Beyond</td>
<td>John Oshinski, PhD</td>
<td>Emory University, USA</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Massive Parallel CMR</td>
<td>Daniel Sodickson, PhD</td>
<td>Beth Israel Deaconess Medical Center, USA</td>
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<tr>
<td>2:15 PM</td>
<td>Non-Rectilinear Trajectories In CMR</td>
<td>Craig Meyer, PhD</td>
<td>University of Virginia, USA</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>Cardiac Spectroscopy In 2005</td>
<td>Paul Bottomley, PhD</td>
<td>Johns Hopkins Hospital, USA</td>
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</table>
2:45 PM-3:00 PM  Strain Encoded Cardiac Imaging  
Nael Osman, PhD  
Johns Hopkins University, USA

**PEDIATRIC CMR II**  
**ADVANCES IN CMR OF CONGENITAL DISEASE**  
*Grand Ballroom BC*

**Moderators**  
Taylor Chung, MD  
Texas Children’s Hospital, USA  
John Wood, MD  
University of Southern California, USA

1:30 PM - 1:40 PM  
185 - Myocardial Scaring and Fibrosis Cause Abnormal Contractile Mechanics in Single Ventricle after Fontan Operation: A New Insight by MRI Studies  
Gautam Singh

1:40 PM - 1:50 PM  
186 - Atrial Septal Defect Flow Measured by Cardiac Magnetic Resonance Imaging Predicts Right and Left Ventricular Remodeling After Amplatzer Device Closure  
Anna Lisa Crowley

1:50 PM - 2:00 PM  
187 - Magnetic Resonance Myocardial Delayed Enhancement in Infants With Anomalous Origin of Left Main Coronary Artery From Pulmonary Artery  
Carlos Rochitte

2:00 PM - 2:10 PM  
188 - Initial Experience with 3 Tesla Cardiac MRI Studies for Small Infants and Children: The Advantages and Problems  
Michael Silberbach

2:10 PM - 2:20 PM  
189 - Normal Aortic Compliance and Left Ventricular Mass Late After Repair of Aortic Coarctation  
Isabelle Vonder Muhll

2:20 PM - 2:30 PM  
190 - Variability In Secondary Flow Patterns In The Aorta of Single Ventricle Patients After Bidirectional Cavo-Pulmonary Connection  
Mark Fogel

2:30 PM - 2:40 PM  
191 - Cardiac Magnetic Resonance Imaging in Congenital Heart Disease Using Free Breathing with Deep Sedation  
Emily Wessler

2:40 PM - 2:50 PM  
192 - CMR Assessment of Pulmonary Regurgitation and Right Ventricular Function After Repair of Tetralogy of Fallot  
Karen Ordovas

2:50 PM - 3:00 PM  
193 - Impaired left ventricular function in patients with severe dilatation of the right ventricle late after total repair of tetralogy of Fallot  
Alexander vanStraten

3:00 PM-3:30 PM  Break

3:30 PM-5:30 PM  Parallel Sessions: Clinical Plenary Session II  
*Grand Ballroom A*

**CMR AND CT**

**Moderators**  
Tom Brady, MD  
Massachusetts General Hospital, USA  
Jan Bogaert, MD  
University Hospital Leuven, Belgium

3:30 PM-3:45 PM  Safety In MR - Pacers And Defibrillators  
Ariel Roguin, MD, PhD  
Rambani Medical Center, Israel

3:45 PM-4:00 PM  Safety In CT - Radiation/Contrast  
Joerg Barkhausen, MD, PhD  
University Hospital Essen, Germany

4:00 PM-4:10 PM  Discussion

4:10 PM-4:25 PM  MR In The Assessment Of Pulmonary Veins  
Thomas Hauser, MD  
Beth Israel Deaconess Medical Center, USA
4:25 PM-4:40 PM  
CT In The Assessment Of Pulmonary Veins  
Albert de Roos, MD, PhD  
Leiden University Medical Center, Netherlands

4:40 PM-4:50 PM  
Discussion

4:50 PM-5:05 PM  
MR Coronary Angiography  
Scott Flamm, MD  
St. Luke’s Episcopal Hospital, USA

5:05 PM-5:20 PM  
CT Coronary Angiography  
Peter Pattynama, MD, PhD  
Rotterdam University Hospital, Netherlands

5:20 PM-5:30 PM  
Discussion

3:30 PM-5:30 PM  
Parallel Session: Basic Oral Abstracts

NEW CMR METHODS AND EXPERIMENTS  
Bayview

Moderators  
Hildo Lamb, PhD  
Leiden University Medical Center, Netherlands  
John Ridgway, PhD  
Leeds General Infirmary, United Kingdom

3:30 PM - 3:40 PM  
194 - STEAM Localization for Short Echo Time Cardiac Proton Spectroscopy at 3.0 Tesla  
Michael Schär

3:40 PM - 3:50 PM  
195 - In vivo Magnetic Resonance Imaging of Inflammation in Myocardial Infarct Mouse Model  
Takayasu Arai

3:50 PM - 4:00 PM  
196 - Selective cerebral overexpression of growth hormone alters cardiac function, morphology, energy metabolism and catecholamines in transgenic mice  
Elmir Omerovic

4:00 PM - 4:10 PM  
197 - Obesity is Associated with Abnormal Myocardial Energetics as Detected by Cardiovascular Magnetic Resonance Spectroscopy  
Monique Robinson

4:10 PM - 4:20 PM  
198 - Lipid Identification by Image-guided (1H) Proton Magnetic Resonance Spectroscopy of Human Carotid Atherosclerosis  
Frederick Ruberg

4:20 PM - 4:30 PM  
199 - Obesity is Associated with Abnormal Skeletal Muscle Energetics- A Magnetic Resonance Spectroscopy Study  
Monique Robinson

4:30 PM - 4:40 PM  
200 - P31 MRS and delayed recovery of phosphocreatine after exercise: a new diagnostic test for peripheral arterial disease?  
David Isbell

4:40 PM - 4:50 PM  
201 - Multi-Contrast Delayed Enhancement Imaging for Improved Detection of Subendocardial Infarcts  
Peter Kellman

4:50 PM - 5:00 PM  
202 - Characterizing Radial Undersampling Artifacts For Cardiac Applications  
Dana Peters

5:00 PM - 5:10 PM  
203 - Assessment of Labeled Mesenchymal Stem Cell Biodistribution and Homing in a Canine Model of Myocardial Infarction by MRI and SPECT/CT  
Wesley Gilson

5:10 PM - 5:20 PM  
204 - Myocardial Strain-Rate Improvements After Transmyocardial Fluoroscopic Delivery Of Feridex-Labeled Mesenchymal Stem Cells In Acute Canine Myocardial Infarction  
Asif Mahmood

5:20 PM - 5:30 PM  
205 - Angiotensin II Type 2 Receptor Overexpression Adds to Knockout of the Type 1a Receptor in the Attenuation of Post-Infarction Remodeling, Independent of Blood Pressure  
Szilard Voros
3:30 PM-5:30 PM  Parallel Session

PEDiATRIC CMR III HOT TOPICS  Grand Ballroom BC

Moderators
Matthias Gutberlet, MD  James Nielson, MD
Klinik fur Strahlenheilkunde, Germany  Mt. Sinai Medical Center, USA

3:30 PM-3:45 PM  Flow And Function By Real-Time MRI
Erik M. Pedersen, MD
MR-Center, Aarhus, Denmark

3:45 PM-4:00 PM  Myocardial Perfusion And Delayed Enhancement In CHD
Ashwin Prakash, MD
Columbia University, USA

4:00 PM-4:15 PM  CMR In Pulmonary Valve Replacement
Naeem Merchant, MD
Toronto General Hospital, Canada

4:15 PM-4:30 PM  CMR Assessment Of Fontan
Mark Fogel, MD
Children’s Hospital Philadelphia, USA

4:30 PM-4:45 PM  Pre-Bidirectional Glenn
Andrew J. Powell, MD
Children’s Hospital Boston, USA

4:45 PM-5:00 PM  Tetralogy Of Fallot
Willem Helbing, MD
Erasmus McSophia, Netherlands

5:00 PM-5:15 PM  Coarctation
Gautham Reddy, MD
University of California  San Francisco, USA

5:15 PM-5:30 PM  Discussion

5:30 PM-7:00 PM  Case interpretation panel: Read with the experts (II)  Grand Ballroom

Moderators
Peter Buser, MD  Victor Ferrari, MD
University Hospital Basel, Switzerland  University of Pennsylvania, Philadelphia, USA

Discussants
Steven Wolff, MD, PhD  Carlos Rochitte, MD
Lenox Hill Hospital, USA  University of Sao Paolo, Brazil

Guillem Pons-Llado, MD  Jan Bogaert, MD, PhD
Hospital de Sant Creu I Sant Pau, Spain  University Hospital Leuven, Belgium

5:30 PM-7:00 PM  Poster viewing session IV / Moderated poster tour II  Pacific Concourse

Moderated poster presenters presenting Posters 311-320

Moderators
Ron Peshock, MD  Albert van Rossum, MD, PhD
UT Southwestern Medical Center, USA  VU Medical Center, Netherlands

311 - MRI of acute myocardial infarction: evaluation of functional recovery.
Alessandra Porcelli

312 - Delayed Contrast-enhanced MRI Using a 3D Inversion Recovery Sequence Combined with Parallel Imaging Techniques (SENSitivity Encoding-SENSE)
Alexandra Schmiedel

313 - Cardiac Energetics are Related to Plasma Metabolites and Insulin Resistance in Patients with Heart Failure
Michaela Scheuermann-Freestone
314 - Rapid Cardiovascular MRI 3D Quantitation of Aortic Stenosis Velocities in Comparison with Echocardiography: Who is Correct?  
Vikas Rathi

315 - The Histological Basis of Late Gadolinium Enhancement in Anderson-Fabry Disease  
James Moon

316 - Faster Flow Quantification Using Sensitivity Encoded Phase Velocity Magnetic Resonance Imaging:  
Ashwin Prakash

Vivek Muthurangu

318 - Assessment of Differential Branch Pulmonary Blood Flow: A Comparative Study of Phase-Contrast Magnetic Resonance Imaging and Radionuclide Lung Perfusion Imaging  
Andrew Taylor

319 - Cardiac 1H-MR Spectroscopy In Normal And Guanidinoacetate N-Methyltransferase (GAMT) Deficient Mice In Vivo  
Jargen Schneider

Joao Petriz

7:00 PM  
Social Event/Award Presentations  
Grand Ballroom
Join your colleagues for hors d’oeuvres and cocktails before experiencing nightlife in San Francisco!  
Presentations of:  
Best Clinical Oral/Poster Abstract Award  
Best Basic Science Oral/Poster Abstract Award

Sunday, January 23, 2005

8:00 AM-9:30 AM  
Parallel Sessions

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<th>Grand Ballroom</th>
<th>Basic Parallel Session</th>
<th>Bayview</th>
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<tbody>
<tr>
<td>CMR IN A HIGH-THROUGHPUT SETTING</td>
<td>Moderator: Matthias Friedrich, MD University of Calgary, Canada</td>
<td>Moderator: Robin Choudhury, MD John Radcliffe Hospital, United Kingdom</td>
<td>Moderator: Brent French, PhD University of Virginia, USA</td>
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<tr>
<td>Ischemic Heart Disease</td>
<td>Edward Martin, MD Oklahoma Heart Institute, USA</td>
<td>MR Evaluation Of CHF Models Victor Ferrari, MD University of Pennsylvania Medical Center, USA</td>
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<tr>
<td>Nonischemic Heart Disease</td>
<td>Sanjay Prasad, MD Royal Brompton Hospital, United Kingdom</td>
<td>Imaging Intramyocardial Function: How does it add? Frederick Epstein, PhD University of Virginia, USA</td>
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<tr>
<td>Valvular Heart Disease</td>
<td>Jeannette Schulz-Menger, MD Franz-Volhard-Klinik, Germany</td>
<td>The Failing Heart - An engine out of fuel? Stefan Neubauer, MD John Radcliffe Hospital, United Kingdom</td>
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<tr>
<td>Congenital Heart Disease And Masses</td>
<td>Aernt Beek, MD VU University Medical Center, Netherlands</td>
<td>Nitric Oxide - An Essential Regulator Of Cardiac Function Ulrich Decking, MD Heinrich-Heine University, Germany</td>
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</table>
9:00 AM-9:15 AM  Maintaining The Workflow  
Dipan Shah, MD  
Nashville Cardiovascular Magnetic Resonance Institute, USA

9:15 AM-9:30 AM  Discussion  

9:30 AM-10:00 AM  Break

10:00 AM-12:00 PM  Basic/Clinical Plenary Session

10:00 AM-10:15 AM  MR Compatible And Friendly Hardware, Catheters, And Devices  
Harald Quick, PhD  
University Hospital Essen, Germany

10:15 AM-10:30 AM  Gene And Stem Cell Delivery To Myocardium  
Robert Lederman, MD  
National Institutes of Health, USA

10:30 AM-10:45 AM  Electrophysiologic Interventions  
Henry Halperin, MD, PhD  
Johns Hopkins University, USA

10:45 AM-11:00 AM  Interventions In Congenital Heart Disease  
Charles Higgins, MD  
University of California San Francisco, USA

11:00 AM-11:15 AM  Coronary MRA at 3T  
Matthias Stuber, PhD  
Johns Hopkins University, USA

11:15 AM-11:30 AM  Is CMR Trending Toward Performance At 3T Rather Than 1.5T?  
Gerald Pohost, MD  
University of Southern California, USA

11:30 AM-11:45 AM  Discussion

11:45 AM-12:00 PM  Closing Remarks

12:00 PM  Adjournment until 2006 in Miami, FL USA
# Technologist Workshop

**Friday, January 21, 2005**

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<tr>
<td>5:00 PM-5:05 PM</td>
<td>Opening Remarks</td>
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<tr>
<td>Seaciff AB</td>
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<tr>
<td>Jane Francis</td>
<td>University of Oxford, United Kingdom</td>
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<tr>
<td>5:05 PM-6:45 PM</td>
<td>Session 1: Pre-Meeting Education Session-Back to Basics</td>
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<td>Moderator</td>
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<tr>
<td>Jane Francis</td>
<td>University of Oxford, United Kingdom</td>
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<tr>
<td>5:05 PM-5:35 PM</td>
<td>Preparation of the patient and physiological monitoring</td>
</tr>
<tr>
<td>Todd Williams, RT</td>
<td>Washington University Medical Center, USA</td>
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<tbody>
<tr>
<td>5:40 PM-6:10 PM</td>
<td>How to acquire the basic views for CMR</td>
</tr>
<tr>
<td>Tim Cannell</td>
<td>Royal Brompton Hospital, United Kingdom</td>
</tr>
<tr>
<td>6:15 PM-6:45 PM</td>
<td>Fundamental Cardiac MR Terms &amp; Techniques</td>
</tr>
<tr>
<td>Cindy Comeau</td>
<td>Cardiovascular Research Foundation, USA</td>
</tr>
<tr>
<td>6:45 PM</td>
<td>CLOSE</td>
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<tr>
<td>7:00 PM</td>
<td>Adjourn to Users Meeting</td>
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**Saturday, January 22, 2005**

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<th>Time</th>
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<tbody>
<tr>
<td>8:00 AM-1:15 PM</td>
<td>Session 2: Fundamentals of CMR and Current Applications</td>
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<tr>
<td>Seaciff AB</td>
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<tr>
<td>Moderator</td>
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</tr>
<tr>
<td>Mary Watkins</td>
<td>Washington University Medical Center, USA</td>
</tr>
<tr>
<td>8:00 AM-8:50 AM</td>
<td>Cardiac MR Pulse Sequences, Blood Flow Appearances &amp; Quantification</td>
</tr>
<tr>
<td>Frederick Epstein, PhD</td>
<td>University of Virginia, USA</td>
</tr>
<tr>
<td>8:55 AM-9:45 AM</td>
<td>Parallel Imaging and its applications in CMR:</td>
</tr>
<tr>
<td>John Ridgway, PhD</td>
<td>Leeds General Infirmary, United Kingdom</td>
</tr>
<tr>
<td>9:50 AM-10:40 AM</td>
<td>Cardiac MR safety up to 3T</td>
</tr>
<tr>
<td>Frank Shellock, PhD</td>
<td>University of Southern California, USA</td>
</tr>
<tr>
<td>10:45 AM-11:00 AM</td>
<td>Break</td>
</tr>
<tr>
<td>Kraig Kissinger, BS, RT</td>
<td>Beth Israel Deaconess Medical Center, USA</td>
</tr>
<tr>
<td>11:00 AM-11:50 AM</td>
<td>CMR in acquired heart disease</td>
</tr>
<tr>
<td>Robert Rollings, MD</td>
<td>Savannah Cardiology, USA</td>
</tr>
<tr>
<td>11:55 AM-12:45 PM</td>
<td>CMR in congenital heart disease</td>
</tr>
<tr>
<td>Andrew Taylor, MRCP</td>
<td>Great Ormond Street Hospital, United Kingdom</td>
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<tr>
<td>12:45 PM-1:15 PM</td>
<td>Abstract presentations</td>
</tr>
<tr>
<td>1: A Quantitative Method for Determining Asynchrony and Asymmetry in Wall Motion by Cardiovascular Magnetic Resonance Imaging and MASS Analysis</td>
<td>T. Tran</td>
</tr>
<tr>
<td>2: Delayed contrast enhancement and no-reflow phenomenon in acute myocardial infarction</td>
<td>K. Reiter</td>
</tr>
<tr>
<td>3: Artifact-Free MR- Compatible Coronary Stent: First Human MR Imaging Experience With an Absorbable Mg-Alloy Stent</td>
<td>M Jökel, K. Reiter</td>
</tr>
<tr>
<td>1:15 PM-2:15 PM</td>
<td>Lunch (on own)</td>
</tr>
<tr>
<td>2:15 PM-6:15 PM</td>
<td>Session 3: Accepted Applications II</td>
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<tr>
<td>Seaciff AB</td>
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<tr>
<td>Moderator</td>
<td></td>
</tr>
<tr>
<td>Jack Roy</td>
<td>University of Virginia, USA</td>
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<tr>
<td>2:15 PM-3:05 PM</td>
<td>CMR in the assessment of valvular heart disease</td>
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<tr>
<td>Saul Myerson, MD</td>
<td>University of Oxford, United Kingdom</td>
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<td>Mary Watkins, RT Washington University Medical Center, USA</td>
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<td>Seaciff AB Mercedes Pereyra, RT Texas Heart Institute, USA</td>
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<tr>
<td>8:00 AM-8:30 AM</td>
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<td>Frank Wiesmann, MD University of Wurzberg, Germany</td>
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<tr>
<td>8:35 AM-9:05 AM</td>
<td>Myocardial Viability</td>
<td>Mercedes Pereyra, RT Texas Heart Institute, USA</td>
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<td>Jeannette Schulz-Menger, MD Franz-Volhard Klinik, Germany</td>
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<td>Phase Sensitive Inversion Recovery: An Innovative Technique to Assess Myocardial Infarction by Delayed Enhancement</td>
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<tr>
<td>1:30 PM</td>
<td>Closing Remarks and Presentations</td>
<td>Jane Francis University of Oxford, United Kingdom</td>
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<td>1:35 PM</td>
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### Additional Information

- **3:50 PM** Left and right ventricular function: Introduction to post processing
- **5:15 PM** Case quiz
- **5:30 PM** Adjourn

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<td>Myocardial Tissue Phase Mapping and Tagging</td>
<td>Steffen Petersen, MD University of Oxford, United Kingdom</td>
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www.ismrm.org

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GRADING AND SELECTION OF ABSTRACTS

Eighth Annual SCMR Scientific Sessions

The Annual Scientific Sessions Program Committee is responsible for selecting abstracts and meets at the annual sessions to set the agenda for the subsequent annual scientific meeting. Again, scientists from all over the world were invited to submit abstracts to the 2005 meeting. Abstract submission information was mailed to SCMR members in July 2004, and was available on the SCMR website, from August 2, 2004. Abstracts could be submitted to one of the following ten categories: Experimental MRI, Clinical and Experimental MRI, New Methods-Coronary and Vascular, New Methods - Cardiac, Clinical MRI - Ischemic Heart Disease – Ischemia, Clinical MRI - Ischemic Heart Disease – Viability, Clinical MRI - Ischemic Heart Disease – Other, Clinical MRI - Nonischemic Heart Disease, Clinical MRI - Vascular Disease, Congenital Heart Disease. This year, a total of 419 abstracts from 27 countries were submitted, clearly demonstrating worldwide expansion both of scientific interest and clinical use of CMR. Graders reviewed abstracts electronically according to scores (1-5, with 5 being the highest and 1 the lowest score), with instructions and authors anonymized. Each abstract was reviewed by at least 3 referees. The top scoring abstracts were selected for either an oral presentation or moderated poster presentation. Additional excellent abstracts were accepted for poster presentations. We believe that this has resulted in a highly attractive scientific program that should be of interest to a wide audience interested in CMR, including clinical and basic scientists as well as practicing clinicians. However, suggestions for improving the review process are always welcome. Comments and suggestions should be addressed to the Chair of the Annual Scientific Sessions Committee.

The Program Committee would like to thank the following Abstract Grading Consultants:

Leon Axel
Jörg Barkhausen
David Bluemke
Peter Buser
Kieran Clarke
Albert de Roos
Zahi A. Fayad
Scott Flamm
Mark Fogel
Matthias G. Friedrich
Tal Geva
Charles B. Higgins
Greg Hundley
Joanne S. Ingwall
Robert M. Judd
Philip Kilner
Raymond J. Kim
Dara Kraitchman

Christopher M. Kramer
Joao Lima
Elliot R. McVeigh
Raad H. Mohiaddin
Eike Nagel
Stefan Neubauer
John N. Oshinski
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Frank Rademakers
Nathaniel Reichek
Maythem Saeed
Hajime Sakuma
Matthias Stuber
Cees van Echteld
Frank Weismann
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