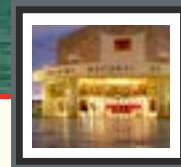
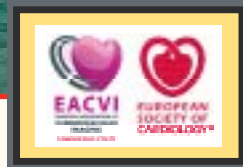


FINAL PROGRAM

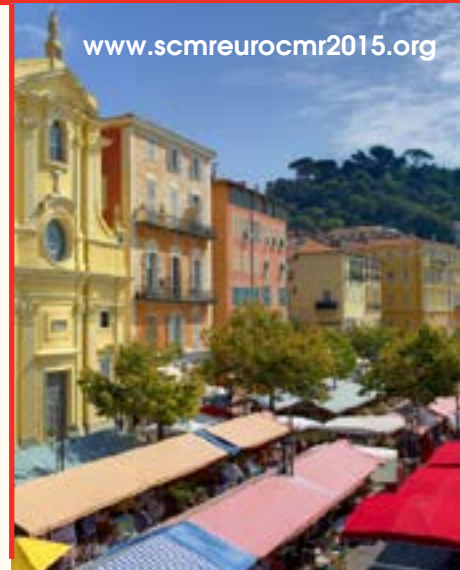


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**SCMR/EuroCMR
Joint Scientific Sessions**

Sharing Global CMR Experience & Innovation
February 4-7, 2015 • Nice, France



Nice Acropolis Convention Centre

SCHEDULE AT A GLANCE

WEDNESDAY, FEBRUARY 4, 2015						
9:00 am - 6:00 pm	SCMR/ISMRM Joint Workshop "Myocardial Tissue Characterization with MR Relaxometry: Principles and Emerging Methods" CALLIOPE					
THURSDAY, FEBRUARY 5, 2015						
8:00 am - 2:00 pm	SCMR/ISMRM Joint Workshop (continued) CALLIOPE	CMR for Physicians: Pre-conference Course ERATE/URANIE	Congenital/Pediatric CMR: Pre-conference Course THALIE	Clinical Trials Workshop CLIO	Interventional CMR Workshop EURTERPE	Board Meetings
2:30 pm - 4:15 pm	Opening Plenary Session - CMR's Global Impact on Cardiovascular Health: What Have We Achieved and What are the Game Changers? Keynote Lecture - Valentin Fuster APOLLON					
4:30 pm - 5:50 pm	Invited Lecture Session 1 Cardiomyopathy Assessment by T1/T2 Mapping in Clinical Practice APOLLON	Oral Abstract Session 1 CLIO/THALIE	Case Review 1 Cardiac Masses: Correlating Imaging with Pathology HERMES	Oral Abstract Session 2 ERATE/URANIE	Exhibits/Posters (authors present 6pm - 7pm) RHODES AREA	
6:00 pm - 7:00 pm	Welcome Reception (Wine/Cheese); Posters/Exhibits					
FRIDAY, FEBRUARY 6, 2015						
7:30 am - 8:30 am	Physics for Physicians 1 APOLLON	Cardiology for Non-Clinicians 1 CLIO/THALIE	Case Review 2 The Patient is Referred for Work-up of Arrhythmia HERMES	How to publish in EHJCI and JCMR ERATE/URANIE	Committee Meetings TBD	
8:40 am - 10:00 am	Invited Lecture Session 2 The RV Under Stress: CMR of the Pressure/Volume Overloaded RV APOLLON	Oral Abstract Session 3 (ECA Basic Science) CLIO/THALIE	Case Review 3 The Patient is Referred for Assessment of Ischemia and Viability HERMES	Oral Abstract Session 4 ERATE/URANIE	Walking Poster Session (Clinical) RHODES AREA	Technologist Track CALLIOPE
10:00 am - 10:30 am	Refreshment Break/Exhibits/Posters (Exhibit Hall open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm)					
10:40 am - 12:00 pm	Invited Lecture Session 3 Interventional CMR APOLLON	Oral Abstract Session 5 (ECA Clinical) CLIO/THALIE	Case Review 4 CMR In Congenital and Pediatric Patients I HERMES	Invited Lecture Session 4 CMR of Heart Transplant Complications ERATE/URANIE	Walking Poster Session (Congenital) RHODES AREA	Technologist Track CALLIOPE
12:00 pm - 12:30 pm	SCMR Business Meeting and EACVI Section CMR Business Meeting (2 separate rooms) - TBD					
12:30 pm - 1:30 pm	Moderated Oral Poster Competition Session 1/Lunch/Exhibits/Posters - RHODES AREA					
1:30 pm - 2:00 pm	CMR Technology Update - APOLLON					
2:10 pm - 3:30 pm	Invited Lecture Session 5 Updates in Vascular Imaging APOLLON	Oral Abstract Session 6 CLIO/THALIE	Case Review 5 The Patient is Referred for Assessment of Cardiac Chamber Size, Function, and Morphology HERMES	Oral Abstract Session 7 (ECA Translational) ERATE/URANIE	Walking Poster Session (Basic) RHODES AREA	Technologist Track CALLIOPE
3:40 pm - 4:10 pm	Refreshment Break/Exhibits/Posters - Rhodes Area					
4:10 pm - 5:30 pm	Invited Lecture Session 6 CMR in Unusual Pathologies from Around the World (with ASCI) APOLLON	Oral Abstract Session 8 CLIO/THALIE	Case Review 6 The Patient is Referred for Work-up of Cardiomyopathy HERMES	Invited Lecture Session 7 CMR of Molecular Changes ERATE/URANIE	Walking Poster Session (Translational) RHODES AREA	Technologist Track CALLIOPE
5:40 pm - 7:00 pm	Invited Lecture Session 8 4D PC MRI - Towards Clinical Utility? APOLLON	Oral Abstract Session 9 CLIO/THALIE	Oral Abstract Session 10 HERMES	Oral Abstract Session 11 ERATE/URANIE	Walking Poster Session (Basic) RHODES AREA	
SATURDAY, FEBRUARY 7, 2015						
7:30 am - 8:30 am	Physics for Physicians 2 APOLLON	Cardiology for Non-Clinicians 2 CLIO/THALIE	Case Review 7 Potpourri Case Session - HERMES	TBD	Committee Meetings	
8:40 am - 10:00 am	Invited Lecture Session 9 Imaging the Ischemic Heart APOLLON	Oral Abstract Session 12 CLIO/THALIE	Case Review 8 CMR In Congenital and Pediatric Patients II - HERMES	Invited Lecture Session 10 Multimodality Imaging (with ESCR) ERATE/URANIE	Walking Poster Session (Translational) RHODES AREA	Technologist Track CALLIOPE
10:00 am - 10:30 am	Refreshment Break/Exhibits/Posters (Exhibit Hall open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm) - RHODES AREA					
10:40 am - 12:00 pm	Invited Lecture Session 11 Too Small, Too Thick and Too Big: CMR of the Left Heart and Aorta in Congenital Heart Disease APOLLON	Oral Abstract Session 13 CLIO/THALIE	Case Review 9 Best Cases of the Web HERMES	Oral Abstract Session 14 ERATE/URANIE	Walking Poster Session (Clinical) RHODES AREA	Technologist Track CALLIOPE
12:00 pm - 1:00 pm	Moderated Oral Poster Competition Session 2/Lunch/Exhibits/Posters - Rhodes Area					
1:10 pm - 2:30 pm	Invited Lecture Session 12 CMR of Arrhythmia and Ablation - APOLLON	Oral Abstract Session 15 - CLIO/THALIE	Oral Abstract Session 16 HERMES	Invited Lecture Session 13 Assessing the Hematology/Oncology Patient ERATE/URANIE	Walking Poster Session (Basic) RHODES AREA	Technologist Track CALLIOPE
2:40 pm - 4:00 pm	Invited Lecture Session 14 Aortic Valve Disease and TAVR - APOLLON	Oral Abstract Session 17 CLIO/THALIE	Case Review 10 World Cup Case Competition HERMES	Invited Lecture Session 15 Small Animal CMR ERATE/URANIE	Walking Poster Session (Congenital) RHODES AREA	
4:15 pm - 5:30 pm	Closing Plenary Session - CMR's Impact on Global Cardiovascular Health: Latest progress and looking forward 2014 SCMR Gold Medal Award Winner Lecture - Warren Manning APOLLON					
5:30 pm - 6:00 pm	Awards Ceremony - Apollon Auditorium					
6:00 pm - 7:00 pm	Awards Reception - Muses Foyer					

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2014 AWARDEE

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2013 AWARDEE

Stefan Neubauer, MD

2012 AWARDEE

Dudley Pennell, MD

2011 AWARDEES

Charles Higgins, MD

Gerald Pohost, MD



2015 GOLD MEDAL AWARDS

The Board of Trustees of the Society for Cardiovascular Magnetic Resonance (SCMR) is pleased to announce that the Society's 2015 Gold Medal Awards will be presented to Christopher M. Kramer, MD, Raymond J. Kim, MD and Robert M. Judd, PhD on February 7, 2015 during the SCMR/EuroCMR Joint Scientific Sessions in Nice, France. The award is presented annually by the SCMR for outstanding achievement in the field of Cardiovascular Magnetic Resonance (CMR) and for exemplary service to the Society. Drs. Kramer, Kim and Judd have excelled in these areas throughout their careers.



Christopher M. Kramer, MD



Raymond J. Kim, MD



Robert M. Judd, PhD

Dr. Christopher Kramer, Ruth C. Heede Professor of Cardiology and Professor of Radiology at the University of Virginia Health System, has been a focused, devoted and strong advocate of CMR throughout his entire career. He provided more than a decade of strong leadership to our Society, including serving as its President in 2009-2010. Before that, he served as the Program Chair from 2004-06, and as the Chair for the Task Force on Standardized Protocols, leading the publication of the document that has been incredibly important at setting standards for how clinical CMR is performed around the world. Perhaps his most significant contribution to the SCMR has been his representation of the Society in the cardiology community and other societies. He has been the primary national advocate to have the SCMR take its proper equal place among the 4 major imaging societies (echo, nuclear, CT) in the greater cardiovascular medicine community; this effort included fostering the recognition of CMR within the American College of Cardiology by serving as Chair of the Imaging Council and the CMR Task Force for COCATS, as well as Vice-Chair of the Appropriate Use Criteria Task Force. Dr. Kramer has also been a distinguished leader in the scientific advancement and expansion of the clinical applications of CMR. He made outstanding contributions to a wide range of topics, including post-MI left ventricular remodeling, myocardial viability, quantitative myocardial perfusion and hypertrophic cardiomyopathy. He is currently Co-PI of the HCMR Trial, a multicenter, international, NHLBI-sponsored effort that is expected to increase our understanding of hypertrophic cardiomyopathy, as well as to elevate CMR's diagnostic and prognostic role. Christopher Kramer has also been at the forefront of training, mentoring a large number of CMR clinician researchers through an NIH/NIBIB Training Grant he has successfully held since 2005. Many of his trainees have gone on to establish highly productive and widely recognized CMR centers of their own. Dr. Kramer has given many years of highly distinguished

and extraordinary service to the field of Cardiovascular Magnetic Resonance and to the Society – and will no doubt continue to do so.

Also receiving the SCMR Gold Medal Award in 2015 are **Raymond J. Kim, MD**, and **Robert M. Judd, PhD**, Professors of Medicine and Radiology, and Co-Directors of the Cardiac MRI Center at the Duke University Medical Center. While Drs. Kim and Judd are each receiving this highest recognition by the SCMR based on their individual merits, the exceptional scientific achievements that have resulted from their longstanding partnership exemplifies the power of the physician scientist and basic scientist pairing to advance the field of medicine. Together, Judd and Kim led the development and validation of the Late Gadolinium Enhancement (LGE) technique; this landmark contribution had a transformative effect upon the field of CMR as it provided direct, in vivo visualization of myocardial necrosis and fibrosis with a resolution and clarity never seen before. Their body of scientific work surrounding this technique ranges from exquisite validation in animal models to the demonstration of its value in guiding therapy; this includes some of the most important and highly cited publications in the field of medical imaging. Their efforts have resulted in the clinical use of CMR in patients with a range of diseases going beyond myocardial infarction to include many forms of non-ischemic cardiomyopathies. Late Gadolinium Enhancement is viewed by many as the most unique and practically useful of any CMR techniques and its development and validation stands as scientific and clinical translational research of the highest order; based on this work alone, Drs. Kim and Judd are highly deserving of the SCMR Gold Medal Award.

Their positive influence on the field of CMR and the SCMR, however, goes beyond this single important contribution. Dr. Kim has served SCMR in a variety of roles: on the Board of Trustees from 2002-2006, as Membership Committee Chair during the same period, and on the Strategic Planning Committee from 2005-2006. He was a member of the SCMR Scientific Program Committee in 2007 and 2008, and has chaired numerous sessions at the Annual Scientific Sessions. Dr. Kim has also played an important role in the development of SCMR guidelines for training in CMR in 2007, as a key author in the task force on standardization of CMR protocols in 2007 and 2013, and on the committee that focused on post-processing in CMR in 2013. He served on the JCMR editorial board from 2001-2007. He has also served the field through his participation in the development of training guidelines and appropriateness criteria for CMR at the American College of Cardiology. Dr. Kim is a highly successful mentor of trainees and students, many of whom have gone on to establish productive CMR programs around the world. These highly accomplished individuals are part of the legacy created by Dr. Raymond J. Kim.

From his earliest days Dr. Judd has had a profound interest in, and has made his career studying, the application of MRI for the evaluation of cardiac disease. His studies into the mechanisms and kinetics of contrast enhancement of myocardial infarction laid the groundwork for the subsequent clinical investigations and rapid translation of the LGE technique into widespread clinical practice. Dr. Judd's more recent efforts to develop a web-based image viewing and distribution system have resulted in an important tool not only in the clinical practice of CMR, but also as a means to enable multi-center research collaboration and education. The SCMR has also benefited from Dr. Judd's participation on the Scientific Program Committee, and as chair and invited lecturer at numerous sessions of the annual meeting. He served on the Editorial Board of the JCMR and was an Assistant Editor from 2004-2007. Dr. Judd has also mentored numerous trainees throughout his career, and has served as an advocate for CMR through his many invited lectures and contributions to the literature. Dr. Robert M. Judd is a scientist of the highest order whose career has been entirely devoted to CMR. His clarity of thought and his warm relationships with others have led to successful collaborations that have had a profound impact on the field of CMR that continues to this day.

The SCMR is honored to recognize these three outstanding individuals for their invaluable contributions to CMR and to the Society. Each has contributed in their own way, but all have made an indelible mark on the field deserving of the highest recognition.



GET THE 2015 SCMR/ EuroCMR MEETING APP!

The CMR 2015 meeting app will serve as a useful resource while you are in Nice, France attending the SCMR/EuroCMR Joint Scientific Sessions. The app will contain pertinent information about each educational session, abstract details, an up-to-date schedule of events, exhibitor information, speaker handouts, important conference alerts, and much more!



Use this QR Code
to get the app!

THE GOALS OF THE SCMR/EUROCMR JOINT SCIENTIFIC SESSIONS ARE TO:

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

AT THE CONCLUSION OF THE JOINT SCIENTIFIC SESSIONS, PARTICIPANTS SHOULD BE BETTER ABLE TO:

Upon completion of this educational activity, the participant should be better able to:

- Plan, perform and analyze CMR examinations;
- Plan and conduct appropriately designed clinical trials;
- Apply the principles of MR physics relevant to image quality, data reliability and patient safety.

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

SCIENTIFIC SESSIONS

The event "2015 SCMR/ Euro CMR Joint Scientific Sessions" is accredited by the European Board for Accreditation in Cardiology (EBAC) for 23.7 hours of External CME credits. Each participant should claim only those hours of credit that have actually been spent in the educational activity. EBAC works according to the quality standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS).

EACCME credits are recognized in Europe and North America. EACCME credits can be exchanged for their national equivalent by contacting the respective National CME authority. EACCME credits are recognized by the American Medical Association (AMA) towards the Physician's Recognition Award (AMA). SCMR will assist its members in applying to the AMA for equivalent AMA PRA Category 1 credit(s)™.

Participants will be awarded CME credits by EBAC for the attendance at Scientific Sessions from Thursday, February 5, 2015 to Saturday, February 7, 2015.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other Healthcare Professionals who participate in this CME activity may submit their Statements of Attendance to their appropriate accrediting organizations or state boards for consideration of credit. The participant is responsible for determining whether this activity meets the requirements for acceptable continuing education.

TECHNOLOGIST WORKSHOP

This activity has been approved for credit by the American Society of Radiologic Technology (ASRT) for a maximum of 10.75 CE credits.

Each technologist should claim only those hours of credit actually spent in this activity

GENERAL INFORMATION

ADMISSION

Conference name badges are required for admission to all activities related to the SCMR/EuroCMR Joint Scientific Sessions, including the exhibit hall.

REGISTRATION HOURS

The Registration Desk is located in the Agora 1 Foyer. The Registration Desk will be open and staffed during the following hours:

Wednesday	February 4	7:15 AM - 6:30 PM
Thursday	February 5	7:15 AM - 6:30 PM
Friday	February 6	7:15 AM - 6:30 PM
Saturday	February 7	7:15 AM - 6:00 PM

DISCLOSURE STATEMENT

It is the policy of the University European Accreditation Council for Continuing Medical Education - Institute of the UEMS to insure balance, independence, objectivity and scientific rigor in all of its sponsored educational activities. All participating speakers and moderators, course directors, and planning committee members are required to disclose to the program audience any financial relationships related to the subject matter of this program. Relationships of spouse/partner with proprietary entities producing healthcare goods or services should be disclosed if they are of a nature that may influence the objectivity of the individual in a position to control the content of the CME activity. Disclosure information is reviewed in advance in order to manage and resolve any possible conflicts of interest. Specific faculty disclosure information for each speaker, course director, and planning committee member will be shared with the audience prior to the speaker's presentation.

EXHIBITS

Educational and informational exhibits will be available in the Rhodes Area during the Scientific Sessions. Exhibiting company representatives will be available to answer your questions about their products and services. Please visit the exhibits and thank the representatives for their support. The complete list of exhibits can be found on pages 63-65.

Thursday	February 5	4:00 PM - 7:00 PM
Friday	February 6	8:00 AM - 6:30 PM
Saturday	February 7	8:00 AM - 4:00 PM



MOBILE DEVICES

As a courtesy to the speakers and your fellow attendees, please switch your mobile device(s) to silent while attending sessions.

PHOTOGRAPHY

Any photography, filming, taping, recording or reproduction in any medium including via the use of tripod-based equipment of any of the programs and/or posters presented at the SCMR/EuroCMR Joint Scientific Sessions without the express written consent of the Society for Cardiovascular Magnetic Resonance is strictly prohibited. Exceptions to this policy include non-flash photography and audiotape recording - using hand-held equipment for strictly personal use, which are permitted if not disruptive.

SPEAKER READY ROOM

The Program Committee is committed to providing attendees cutting edge technology and coordinated presentations at the Scientific Sessions. To be fully prepared for your session, each presenter is requested to visit the Speaker Ready Room at least 24 hours prior to your presentation. The Speaker Ready Room is located in the Hermes Lounge and will be open the following days and times:

Wednesday	February 4	7:15 AM - 6:30 PM
Thursday	February 5	7:15 AM - 6:30 PM
Friday	February 6	7:15 AM - 6:30 PM
Saturday	February 7	7:15 AM - 5:00 PM

SOCIAL MEDIA

Continue the online conversation this year on Twitter with hashtag #CMRNice. Share your thoughts about the conference and see what everyone is saying!

EVALUATIONS

At the conclusion of the SCMR/EuroCMR Joint Scientific Sessions, you will receive an invitation to complete the meeting survey. Please take the time to complete this survey as it provides very important feedback for future programming. Thank you, in advance, for completing the evaluation...your opinion and feedback matter!

ACKNOWLEDGEMENTS

The Society for Cardiovascular Magnetic Resonance gratefully acknowledges the support of these scientific sessions and SCMR's objectives from our industry supporters:

Siemens Healthcare

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PRE-CONFERENCE COURSES

Thursday, February 5, 2015

8:00 AM – 2:00 PM CLINICAL TRIALS WORKSHOP (*MUSES AREA - CLIO*)

Moderators: John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)
Alex Pitcher, MRCP (Oxford University)

At the conclusion of this workshop, participants will be better able to:

- Appreciate strengths and limitations of evidence derived from CMR clinical trials
- Discuss the different uses of CMR in clinical trials
- Understand concepts of cost-effectiveness analysis related to cardiac imaging

- 8:00 AM Welcome
Steffen E. Petersen, MD, DPhil, MPH (Queen Mary, University of London)
- 8:05 AM *CMR in Clinical Trials: Opportunities and Challenges*
Christopher H. Kramer, MD (University of Virginia Health System)
- 8:25 AM *Established CMR Markers for Clinical Trials - Performance and Impact*
Holger Thiele, MD (University of Leipzig, Heart Center)
- 8:45 AM *The Industry Perspective on CMR Clinical Trials*
Claudia Bacher-Stier, MD (Bayer)
- 9:05 AM *Challenges of a Multi-centre CMR Trial and When to Go Single Centre*
Eike Nagel, MD, PhD, FACC, FESC (King's College London)
- 9:25 AM *Standards for Core Lab Evaluation and When to Use One*
Matthias G. Friedrich, MD (Montreal Heart Institute)
- 9:45 AM *The Randomised Trial Design for Imaging Studies*
Colin Berry, MD (University of Glasgow)

10:05 AM – 10:30 AM REFRESHMENT BREAK

- 10:30 AM *A Simple Structure for Designing a Clinical Trial (PICOT-D)*
Alex Pitcher, MRCP (Oxford University)
- 10:50 AM *Ensuring Proper Randomisation and Blinding*
Tim Clayton, PhD (London School of Hygiene & Tropical Medicine)
- 11:10 AM *How to Approach Sample Size and Power Calculations and Ways of Dealing with Missing Data*
Tim Clayton, PhD (London School of Hygiene & Tropical Medicine)
- 11:30 AM *Challenges for Large Scale Datasets in CMR: Possible Solutions*
Matthias G. Friedrich, MD (Montreal Heart Institute)
- 11:50 AM *Applying to Use Large Scale CMR Databases and Registries*
Filip Zemrak, MD, MRCP (Queen Mary, University of London)

12:00 PM – 12:50 PM LUNCH (ON OWN)

- 12:50 PM *Developing New CMR Biomarkers and Surrogate Endpoints*
Valentina Puntmann, MD, PhD, MRCP (King's College London)
- 1:10 PM *Comparative Effectiveness Research*
John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)
- 1:30 PM *Interpreting and Using Cost-effectiveness Analysis*
Mohammed Y. Khanji, MB BCh, MRCP (Queen Mary, University of London)
- 1:50 PM *The SCMR Clinical Trials Committee, How It Can Help*
John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)

PRE-CONFERENCE COURSES

8:00 AM – 2:00 PM CMR FOR PHYSICIANS PRE-CONFERENCE COURSE (ERATO URANIE)

8:00 AM – 10:00 AM Session 1 – Physics / Basics (Part 1)

Moderator: Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

At the conclusion of this workshop, participants will be better able to:

- Understand the basic CMR sequences
- Cope with artefacts and know how to perform CMR in patients with pacemakers and other devices
- Use CMR to guide the differential diagnosis based on patients' clinical presentation

8:00 AM *Basic Physics*

Michael Salerno, MD, PhD (University of Virginia Health System)

8:20 AM *Bright Blood and Black Blood Sequences*

Anthony H. Aletras, PhD (Lund University Hospital)

8:40 AM *How to Perform High Quality Delayed Enhancement Imaging*

Patricia Bandettini, MD (Bethesda, Maryland)

9:00 AM *How to Assess Valvular Disease*

Jens Vogel-Claussen, MD (Hannover Medical School)

9:20 AM *How to Deal with Artefacts*

Peter Kellman, PhD (National Institutes of Health)

9:40 AM *How to Scan Pacemaker and Devices*

Francesco Santini, MD (University Hospital Basel)

10:00 AM – 10:20 AM REFRESHMENT BREAK

10:20 AM – 12:00 PM Session 2 – Physics / Basics (Part 2) and Clinical Scenarios (Part 1)

Moderator: Nadine Kawel-Boehm, MD (University of Basel Hospital)

10:20 AM *How to Measure Regional and Global Function*

Lars Grosse-Wortmann, MD (The Hospital for Sick Children)

10:40 AM *Choosing CMR in a Multi Modality Imaging Climate*

Bernhard Gerber, MD (Cliniques St. Luc UCL)

11:00 AM *CMR in Acute Chest Pain*

Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

11:20 AM *CMR In Chronic Chest Pain*

Robert W.W. Biederman, MD (Allegheny General Hospital)

11:40 AM *CMR in Patients with Arrhythmia*

Dana Peters, PhD (Yale University)

12:00 PM – 12:45 PM LUNCH (ON OWN)

12:45 PM – 2:00 PM Session 3 – Clinical Scenarios (Part 2) and Clinical Quiz

Moderator: Kevin Steel, DO (San Antonio Military Medical Center)

12:45 PM *CMR in Patients with LVH on Echo*

Rory O'Hanlon, MD (Centre for Cardiovascular Magnetic Resonance, Blackrock Clinic)

1:05 PM *CMR in Patients with Dilated LV on Echo*

Carlos E. Rochitte, MD (Heart Institute – InCor)

1:25 PM *CMR in Patients with Dilated RV on Echo*

Yuchi Han, MD (University of Pennsylvania)

1:45 PM *Clinical Quiz of Last 3 Speakers*

TBA

PRE-CONFERENCE COURSES

8:00 AM – 2:00 PM CONGENITAL/PEDIATRIC PRE-CONFERENCE COURSE (MUSES AREA - THALIE)

8:00 AM – 10:05 AM **Session 1 – How Do I Do It? Techniques and Logistics for Pediatric Cardiac MRI**

Moderators: Rajesh Krishnamurthy, MD (Texas Children's Hospital)
Andrew M. Taylor, MD (Great Ormond Street Hospital)

At the conclusion of this workshop, participants will be better able to:

- Understand and apply the basic CMR techniques to assess patients with congenital heart disease
- Point out the specific gains of CMR in the different cardiac pathologies in children and patients with different types of congenital heart disease
- Compose a dedicated CMR protocol for the evaluation specific pediatric patients or patients with congenital heart disease

8:00 AM	<i>Introduction to the Course</i> Rajesh Krishnamurthy, MD (Texas Children's Hospital)
8:05 AM	<i>Black Blood Imaging</i> Andrew Taylor, MD (Great Ormond Street Hospital)
8:20 AM	<i>Navigator 3D SSFP Whole Heart Imaging</i> Sergio Uribe, PhD (Pontificia Universidad Catolica de Chile)
8:35 AM	<i>3D Contrast Enhanced MRA</i> Taylor Chung, MD (Children's Hospital and Research Center)
8:50 AM	<i>Tissue Characterisation</i> Lars Grosse-Wortmann, MD (Hospital for Sick Children)
9:05 AM	<i>Ventricular Function - Acquisition and Interpretation</i> Margaret Samyn, MD (Medical College of Wisconsin)
9:20 AM	<i>Flow Measurements - Pearls and Pitfalls</i> Phillip B.J. Beerbaum, MD, PhD (Children's Hospital, Hanover Medical University)
9:35 AM	<i>Image Young Patients: Settings and Parameters</i> Rajesh Krishnamurthy, MD (Texas Children's Hospital)
9:50 AM	<i>Sequential Segmental Analysis of Congenital Heart Disease</i> Tal Geva, MD (Children's Hospital Boston)

10:05 AM – 10:20 AM **REFRESHMENT BREAK**

10:20 AM – 12:05 PM **Session 2 – Why Do I Do It? Congenital Heart Disease**

Moderators: Emanuela Valsangiacomo, MD (Children's Hospital Zurich)
Karen Ordoas, MD (University of California San Francisco School of Medicine)

10:20 AM	<i>Shunt Lesions: Simple and Complex</i> Ashwin Prakash, MD (Children's Hospital Boston and Harvard Medical School)
10:35 AM	<i>Pulmonary Circulation: Arteries and Veins</i> Vivek Muthurangu, MD (University College London)
10:50 AM	<i>Aorta: Coarctation and Aortic Arch Anomalies</i> Tarique Hussain, MD, PhD (King's College London)
11:05 AM	<i>Tetralogy of Fallot</i> Arno Roest, MD, PhD (Leiden University Medical Center)
11:20 AM	<i>Transposition of the Great Arteries: Atrial and Arterial Switch</i> Emanuela Valsangiacomo, MD (Children's Hospital Zurich)
11:35 AM	<i>Univentricular Hearts: From Diagnosis to Fontan</i> Mark Fogel, MD, FACC, FAHA, FAAP (Children's Hospital of Philadelphia)
11:50 AM	<i>Univentricular Hearts: After the Fontan</i> William A. Helbing, MD (Erasmus MC - Sophia Children's Hospital)

12:05 PM – 12:45 PM **LUNCH (ON OWN)**

PRE-CONFERENCE COURSES

12:45 PM – 2:00 PM

Session 3 – Why Do I Do It: Acquired and Inherited Paediatric Heart Disease

Moderators: Arno Roest, MD, PhD (Leiden University Medical Center)
Lars Grosse-Wortmann, MD (The Hospital for Sick Children)

- 12:45 PM *Cardiac Tumors: Characterisation with CMR*
Tiffanie R. Johnson, MD (Riley Hospital for Children)
- 1:00 PM *Cardiomyopathies: ARVC, DCM, HCM*
Lars Grosse-Wortmann, MD (Hospital for Sick Children)
- 1:15 PM *Vascular Disease: Kawasaki and Others*
Gerald F. Greil, MD, PhD (King's College)
- 1:30 PM Discussion and Closing Remarks
All Speakers

8:00 AM – 2:00 PM

INTERVENTIONAL CMR WORKSHOP (MUSES AREA - EUTERPE)

8:00 AM – 9:45 AM

Session 1 – Technology for Interventional cMRI

Moderators: Tobias Schaeffter, PhD (Kings College London)
Daniel Herzka, PhD (Johns Hopkins University)

At the conclusion of this workshop, participants will be better able to:

- Understand how to configure and install a clinical suite for iCMR in patients
- Understand common acquisition and reconstruction for MRI catheterization
- Understand some of the technical and safety constraints on clinical MRI catheter devices

- 8:00 AM Welcome & Overview
- 8:15 AM *Real-time MRI*
Tobias Schaeffter, PhD (St Thomas' Hospital)
- 8:30 AM *Data Processing and Visualization*
Rashed Karim, PhD (King's College London)
- 8:45 AM *MR Catheters System*
Ozgur Kocaturk, PhD (Bogazici University)
- 9:00 AM *MR Compatible Robotics and Force Sensing*
Tobias Schaeffter, PhD (St Thomas' Hospital)
- 9:15 AM *Regulatory Approval of New Devices*
Steve Wedan, MS (Imricor Medical Systems)
- 9:30 AM *Discussion of Technological Challenges*
Robert J. Lederman, MD (National Heart, Lung and Blood Institute)

9:45 AM – 10:15 AM

REFRESHMENT BREAK

10:15 AM – 12:00 PM

Session 2 – MR-guided Cardiac Electrophysiology Procedures

Moderators: Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)
Eugene Kholmovski, PhD (UCAIR University of Utah)

- 10:15 AM *Imaging of the Arrhythmic Substrate*
Daniel Herzka, PhD (Johns Hopkins University)
- 10:30 AM *MR-guided Treatment of the Arrhythmic Substrate 1*
Philipp Sommer, MD (Heart Center Leipzig)
- 10:45 AM *MR-guided Treatment of the Arrhythmic Substrate 2*
Christopher Piorkowski, MD (University of Dresden)
- 11:00 AM *MRI Assessment of the Treated Substrate*
Eugene Kholmovski, PhD (University of Utah)
- 11:15 AM New Kids on the Block (short presentations (5min) from new sites entering MR-guided EP)
TBA

PRE-CONFERENCE COURSES

11:45 AM	Industry (Short presentations) - 5 min each TBA
12:00 P – 12:30 PM	LUNCH (ON OWN)
12:30 PM – 2:00 PM	Session 3 – MR-guided Vascular Interventions Moderators: Vivek Muthurangu, MD (University College London) Ian Rogers, MD (Stanford University)
12:30 PM	MR-guided Pediatric Interventions Kanishka Ratnayaka, MD (National Institutes of Health)
12:45 PM	<i>Aortic Coarctation Interventions in Patients</i> Peter Ewert, MD (German Heart Center Munich)
1:00 PM	<i>MR-guided Cardiac Biopsies</i> Dirk Lossnitzer, MD (University of Heidelberg)
1:15 PM	New Kids on the Block (short presentations (5min) from new sites entering MR-guided EP)
1:45 PM	Industry (Short presentations) - 5 min each
2:00 PM	Close

JOINT SCIENTIFIC SESSIONS

Thursday, February 5, 2015

2:30 PM – 4:15 PM	OPENING PLENARY – CMR's Global Impact on Cardiovascular Health: What Have We Achieved and What are the Game Changers? (APOLLON) Moderators: Michael V. McConnell, MD, MSEE (Stanford University School Of Medicine) Steffen E. Petersen, MD, DPhil, MPH (Queen Mary, University of London) At the conclusion of this session, participants will be better able to: • Appreciate the evidence supporting the use of CMR in clinical patient management • Discuss the role of CMR in non-ischaemic and ischaemic heart disease • Appreciate the role of CMR in congenital heart disease
2:30 PM	Opening / Welcome Sven Plein, MD, PhD (University of Leeds) Orlando P. Simonetti, PhD (The Ohio State University)
2:40 PM	Keynote Address: <i>Global Cardiovascular Health and What CV Imaging Can Contribute</i> Valentin Fuster, MD, PhD (Mount Sinai Medical Center)
3:10 PM	<i>CMR Redefines the Diagnosis and Therapy of Non-Ischemic Cardiomyopathy</i> Dudley J. Pennell, MD, FRCP, FACC, FESC (Royal Brompton Hospital)
3:25 PM	<i>CMR is the Standard of Care for Congenital Heart Disease</i> Mark A. Fogel, MD, FACC, FAHA, FAAP (Children's Hospital of Philadelphia)
3:40 PM	<i>CMR Provides the Most Comprehensive Assessment of Ischemic Heart Disease in Women and Men</i> Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)
3:55 PM	Audience Response Session
4:30 PM – 5:50 PM	INVITED SESSION 1: Cardiomyopathy Assessment by T1/T2 Mapping in Clinical Practice (APOLLON) Moderators: Andrew E. Arai, MD (National Institutes of Health) James Moon, MD (The Heart Hospital) At the conclusion of this session, participants will be better able to: • Learner Objective 1 • Learner Objective 2 • Learner Objective 3

JOINT SCIENTIFIC SESSIONS

- 4:30 PM *The Additive Value of T1-mapping in Differentiating the Hypertrophic Phenotype in Cardiomyopathy*
Mariana Fontana, MD (The Heart Hospital)
- 4:46 PM *T2 Mapping vs. T2-weighted Imaging in Myocardial Inflammation and Ischemia*
Subha V. Raman, MD, MSEE (The Ohio State University)
- 5:02 PM *Is There an Additive Value of Mapping Technique in Ischemic Cardiomyopathy?*
Erica Dall'Armellina, MD, DPhil (Oxford University)
- 5:18 PM *Inherited Cardiomyopathy: The Potential of Quantitative Imaging for Early Diagnosis and Risk Stratification*
Andrew E. Arai, MD (NHLBI - National Institutes of Health)
- 5:34 PM *What Constitutes a Good Biomarker and Can Native T1 or ECV Fit the Bill?*
Matthias G. Friedrich, MD (Montreal Heart Institute)

4:30 PM – 5:50 PM CASE REVIEW 1: Cardiac Masses: Correlating Imaging with Pathology (HERMES AUDITORIUM)

Moderators: Dipan J. Shah, MD (Methodist DeBakey Heart & Vascular Center)
Raad H. Mohiaddin, MD, PhD, FESC, MRCP, FRC (Royal Brompton Hospital and Harfield NHS Trust)

- 4:30 PM - CR 01 *A Woman With Recurrent Pericardial Effusion*
Ana Barac, MD, PhD (Medstar Heart Institute, Medstar Washington Hospital Center)
- 4:40 PM - CR 02 *Cardiac Magnetic Resonance: Intramyocardial Cavernous Hemangioma*
Pablo Kociubinski, MD (CIMED, Hospital "El Cruce")
- 4:50 PM - CR 03 *A Large Mass Abutting on the Left Ventricle in an Elderly*
Winnie Chan (Queen Elizabeth Hospital)
- 4:50 PM - CR 04 *Primary Cardiac Paraganglioma Treated by a Conservative Approach*
Simone Cristina Costa (UFMG Universidade Federal de Minas Gerais, Hospital Felicio Rocho)
- 4:50 PM - CR 05 *Systemic Disease Presenting as an Obstructive Cardiac Mass; Connecting the Dots*
Luba Frank, MD (University of Michigan)
- 5:20 PM - CR 06 *An Unusual Case of Dyspnea on Exertion*
Jorge Gonzalez, MD (University of Virginia)
- 5:30 PM - CR 07 *A Rare Case of Hydatid Cyst in the Heart, Diagnosed on Magnetic Resonance Imaging (MRI)*
Fateh Ali Sultan, MBBS, FCPS (Aga Khan University Hospital)
- 5:40 PM - CR 08 *Right Ventricular Intramyocardial Haematoma After Percutaneous Coronary Intervention*
Milan Satendra, MD (Hospital Santa Maria)

4:30 PM – 5:50 PM ORAL ABSTRACT SESSION 1 (MUSES AREA - CLIO THALIE)

Moderators: Frank Kober, PhD (Aix-Marseille University)
Frederick H. Epstein, PhD (University of Virginia)

- 4:35 PM - O1 *Heterogeneity of Diffusion Tensor Imaging Measurements of Fractional Anisotropy and Mean Diffusivity in Normal Human Hearts In Vivo*
Laura-Ann McGill, MBChB, BSc (Imperial College London)
- 4:47 PM - O2 *High-Resolution Multi-breath-held 3D volumetric T1 Mapping Acquisition: Analysis of T1 Measurement Reproducibility Compared to 2D T1 Mapping with a Respiratory Motion Phantom*
Keigo Kawaji, PhD (The University of Chicago)
- 5:00 PM - O3 *Differential Response of the Left and Right Ventricles to Pressure Overload Revealed with Diffusion Tensor MRI Tractography of the Heart In Vivo*
Choukri Mekkaoui (Harvard Medical School)
- 5:12 PM - O4 *Disturbed Diastolic Left Ventricular Inflow Vortex Ring Formation in Patients with Corrected Atrioventricular Septal Defect: Quantitative Three-Dimensional Vortex Core Analysis From 4D Flow MRI*
Emmeline Calkoen, MD (Leiden University Medical Center)
- 5:24 PM - O5 *Relationship of Prolonged Global and Regional Central Circulatory Transit Time with Hemodynamics*
Jennifer Conroy, MD (St. Francis Hospital)

JOINT SCIENTIFIC SESSIONS

- 5:36 PM - O6 *Elevated Energy Loss in Diastolic Left Ventricular Inflow Corresponds to an Increase in Kinetic Energy in Patients with a Repaired Atrioventricular Septal Defect: Quantification From 4D Flow MRI*
Mohammed S. M. ElBaz (Leiden University Medical Center)
- 4:30 PM – 5:50 PM** **ORAL ABSTRACT SESSION 2** (*MUSES AREA - ERATE/URANIE*)
Moderators: Santo Dellegrottaglie, MD, PhD (Mt. Sinai School of Medicine)
Monvadi B. Srichai, MD (NYU School of Medicine)
- 4:35 PM - O7 *Effect of Purified Omega-3 Fatty Acids on Reducing Left Ventricular Remodeling After Acute Myocardial Infarction (OMEGA-REMODEL Study): A Double-Blind Randomized Clinical Trial*
Bobby Heydari (Brigham and Women's Hospital)
- 4:47 PM - O8 *Quantification of Myocardial Late Gadolinium Enhancement Using Synthetic Inversion Recovery Imaging*
Akos Varga-Szemes, MD, PhD (Medical University of South Carolina)
- 5:00 PM - O9 *Infarct Burden Following Multivessel PCI vs Infarct-Only PCI in Patients with Acute STEMI: The Glasgow PRAMI CMR Sub-Study*
Kenneth Mangion (University of Glasgow)
- 5:12 PM - O10 *Myocardial Perfusion is Impaired in Renal Transplant and Liver Transplant Patients*
Joseph Selvanayagam, MD (Flinders University)
- 5:24 PM - O11 *Predictive Value of Segmental Extent of Late Gadolinium Enhancement and Peak Circumferential Systolic Strain in Predicting Improvement and Normalisation of Dysfunctional Segments Post STEMI*
Jamal Khan, MRCP, MBChB, BMedSci (University of Leicester)
- 5:36 PM - O12 *Real-time Cine First-pass Perfusion Imaging Enables Rapid Detection of Functionally Significant High-grade Coronary Stenosis*
Behzad Sharif, PhD (Cedars-Sinai Medical Center)
- 6:00 PM - 7:00 PM** **Wine & Cheese Welcome Reception in Exhibits/Poster Hall** (*RHODES AREA*)

Friday, February 6, 2015

CARDIOLOGY FOR NON-CLINICIANS (*MUSES AREA - CLIO/THALIE*)

- 7:30 AM – 8:30 AM** **Session 1: CAD – Coronary Artery Disease**
Moderator: Karen Ordovas, MD (University of California San Francisco School of Medicine)
- At the conclusion of this session, participants will be better able to:
- Describe the pathophysiology of coronary atherosclerotic disease and how it relates to the development of a myocardial infarction
 - List the most common causes and clinical symptoms of heart failure
 - Describe the pathophysiology of aortic valve stenosis and the most common clinical presentation
- 7:30 AM *The Essentials of Stable Coronary Artery Disease – Pathophysiology, Diagnosis, Treatment*
Peter Buser, MD (University Hospital Basel)
- 7:45 AM *Acute Coronary Artery Disease – Myocardial Infarction – Pathophysiology, Treatment, Consequences*
Oliver Bruder, MD (Elisabeth Hospital Essen)
- 8:00 AM *CAD Cases*
Gautham P. Reddy, MD, MPH (University of Washington Medical Center)
- 8:15 AM Q&A

PHYSICS FOR PHYSICIANS (*APOLLON*)

- 7:30 AM – 8:30 AM** **Physics for Physicians 1**
Moderator: Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)
- At the conclusion of this session, participants will be better able to:
- Understand the basic principles of signal generation, reception and decay in MRI

JOINT SCIENTIFIC SESSIONS

- Describe the basic image formation process and interrelations between the various parameters including the sources of potential image artifacts
- Evaluate the potential value of advanced motion correction, accelerated imaging and optimization concepts for their research and routine work

7:30 AM	<i>CMR Scanner Hardware – Tesla, Faraday and Bloch</i> Michael Schär, PhD (Johns Hopkins University)
7:50 AM	<i>CMR Pulse Sequence – Echoes, K-space and Fourier</i> Sonia NIELLES-Vallespin, PhD (National Institutes of Health)
8:10 AM	<i>CMR Images - Signal, Noise, Contrast and Artifacts</i> Tobias Schaeffter, PhD (St Thomas' Hospital)

JOINT SCIENTIFIC SESSIONS

7:30 AM – 8:30 AM

CASE REVIEW 2: The Patient is Referred for Work-up of Arrhythmia (HERMES AUDITORIUM)

Moderators: Francisco Alpendurada, MD (Royal Brompton Hospital)
Pierre Croiselle, MD, PhD (Université J. Monnet)

7:30 AM - CR 09	<i>The Patient Presents with Complete Heart Block...</i> Jeannie Yu, MD (National Institutes of Health)
7:40 AM - CR 10	<i>An Usual Cause of Epicardial Late Gadolinium Enhancement...</i> Jonathan Rodrigues, BSc(Hons), MBChB(Hons), MRCP, FRCR (Bristol Heart Institute)
7:50 AM - CR 11	<i>Sudden Cardiac Arrest at Rest in an Asymptomatic Adolescent in School</i> Cynthia Amirtharaj, MBBS (Cohen Children's Hospital)
8:00 AM - CR 12	<i>An Uncommon but Important Finding in a Patient Presenting with Ventricular Tachycardia.</i> Anish Bhuva, MBBS (The Heart Hospital)
8:10 AM - CR 13	<i>MRI as First Diagnostic Tool in a Case of Atrioventricular Block</i> Christina Unterberg-Buchwald (University Clinic Goettingen, UMG)
8:20 AM - CR 14	<i>47 Year Old Male Presenting to the Emergency Department with His Second Episode of Unstable Ventricular Tachycardia in Four Years: Is There a Role for CMR Based Tissue Characterization Techniques?</i> Andrew Choi, MD (National Heart, Lung, and Blood Institute)

8:40 AM – 10:00 AM

INVITED SESSION 2: The RV Under Stress: CMR of the Pressure/Volume Overloaded RV (APOLLON)

Moderators: Emanuela Valsangiacomo, MD (Children's Hospital Zurich)
Rajesh Krishnamurthy, MD (Texas Children's Hospital)

At the conclusion of this session, participants will be better able to:

- Understand the abnormalities of the left and right ventricle in congenital and pediatric heart disease and how CMR can be applied
- Apply advanced CMR techniques to assess the left and right ventricle in pediatric and congenital heart disease
- Understand how CMR can be used in clinical decision-making involving left and right ventricular abnormalities in congenital heart disease

8:40 AM	<i>The RV Under Pressure – CMR of the Patient with Pulmonary Hypertension</i> Shahin Moledina, MD (Great Ormond Street Hospital)
8:56 AM	<i>The RV Under Pressure – Is the Single RV Different from the Single LV?</i> Rajesh Krishnamurthy, MD (Texas Children's Hospital)
9:12 AM	<i>The Overloaded RV – CMR of the Patient After Tetralogy of Fallot Repair</i> Philipp Beerbaum, MD, PhD (Hanover Medical University)
9:28 AM	<i>The Overloaded RV – CMR of the Patient with Ebstein Anomaly</i> Sohrab Fratz, MD, PhD, FESC (German Heart Centre Munich)
9:44 AM	<i>Can We Help the RV? Role Of CMR in the Planning of PVR</i> Claudio Capelli, PhD (University College London)

JOINT SCIENTIFIC SESSIONS

8:40 AM – 10:00 AM

CASE REVIEW 3: The Patient is Referred for Assessment of Ischemia and Viability (HERMES AUDITORIUM)

Moderators: Juerg Schwitter, MD, FESC (University Hospital Lausanne – CHUV)
Amit R. Patel, MD (University of Chicago)

- 8:40 AM - CR 15 *Decoding Chest Pain in a Patient with Cardiac Sarcoidosis*
Niti Aggarwal, MD (Mayo Clinic)
- 8:50 AM - CR 16 *New Onset Right Bundle Branch Block (RBBB) and Junctional Rhythm on the EKG in a Patient with Giant Coronary Aneurysms Due to Kawasaki Disease*
Geetha Challapudi, MBBS (North Shore LIJ health system)
- 9:00 AM - CR 17 *An Unexpected Cause of Recurrent Chest Pain Diagnosed by Cardiac Magnetic Resonance*
Diego Eifer, MD (Hospital de Clinicas de Porto Alegre)
- 9:10 AM - CR 18 *A Rare Cause of ST Segment Elevation in Leads V1-V3; Cardiac Magnetic Resonance at the Diagnostic Crux*
Ryan Van Woerkom, MD (Mayo Clinic Arizona)
- 9:20 AM - CR 19 *PC VIPR Cardiac MRI of an Unusual Complication of Late Presenting Inferior Myocardial Infarction*
Joanna Kusmirek, MD (University of Wisconsin)
- 9:30 AM - CR 20 *Utility of T1-Mapping to Determine Viability Following Sub-Acute Myocardial Infarction*
Sheraz Nazir, BSc, MB BChir, MRCP (University of Leicester)
- 9:40 AM - CR 21 *Combined Non-Contrast Myocardial Viability and Edema Imaging with Diffusion Weighted Sequence for Acute Coronary Syndrome: A Case Report*
David Chen, BS (Cedars Sinai Hospital)
- 9:50 AM - CR 22 *Use of CMR to Clear The Picture: Anatomy, Viability and Ischaemia*
Anvesha Singh, MBChB (University of Leicester)

8:40 AM – 10:00 AM

ORAL ABSTRACT SESSION 3 (MUSES AREA - CLIO/THALIE)

Moderators: David E. Sosnovik, MD (Harvard Medical School)
Gerald M. Pohost, MD (University of Southern California)

- 8:45 AM - O13 *Localized Chronic Iron Deposition within Non-Reperfused Myocardial Infarctions*
Avinash Kali, MS (Cedars-Sinai Medical Center)
- 8:57 AM - O14 *Black Blood Late Gadolinium Enhancement Using Combined T2 Magnetization Preparation and Inversion Recovery*
Tamer Basha, PhD (BIDMC, Harvard Medical School)
- 9:09 AM - O15 *Real Time Measurement of Myocardial Substrate Selection in Vivo Using Hyperpolarized ¹³C Magnetic Resonance*
Jessica Bastiaansen, PhD (University Hospital)
- 9:21 AM - O16 *Hyperpolarized ¹³C and ³¹P Magnetic Resonance Spectroscopy Identify Pyruvate Dehydrogenase as a Therapeutic Target in Obesity Cardiomyopathy*
Andrew Lewis (University of Oxford)
- 9:33 AM - O17 *Improved Black-Blood Imaging Using DANTE-SPACE for Combined Carotid And Intracranial Vessel Wall Evaluation*
Yibin Xie (Cedars-Sinai Medical Center)
- 9:45 AM - O18 *Phantom Validation of 4D Flow: Independent Validation of Flow Velocity Quantification Using Particle Imaging Velocimetry*
Johannes Töger (Lund University)

8:40 AM – 10:00 AM

ORAL ABSTRACT SESSION 4 (MUSES AREA - ERATE/URANIE)

Moderators: Matthias Koopman, MD (Universitätsklinikum Münster)
Michael Guttman (Johns Hopkins University)

- 8:45 AM - O19 *Percutaneous MR Guided Direct Left Atrial Access to Deliver Large Interventional Devices*
Toby Rogers, Cardiology Fellow (National Institutes of Health)
- 8:57 AM - O20 *MR Guided Right Heart Catheterization – The NIH Experience*
Toby Rogers, Cardiology Fellow (National Institutes of Health)

JOINT SCIENTIFIC SESSIONS

- 9:09 AM - O21 *Malignant Ventricular Arrhythmias in Patients with Chronic Myocardial Infarction and Predictive Value Of Iron-Sensitive Cardiac Magnetic Resonance Imaging*
Ivan Cokic, MD (Cedars-Sinai Medical Center)
- 9:21 AM - O22 *Atrial Late Gadolinium Enhancement on MRI Relates to the Electrophysiological Substrate of Persistent Atrial Fibrillation*
Stephanie Clement-Guinaudeau (Hôpital Cardiologique Haut-Lévêque)
- 9:33 AM - O23 *Transcatheter Bidirectional Glenn Shunt Guided by Real-Time MRI*
Kanishkam Ratnayaka (National Institutes of Health)
- 9:45 AM - O24 *Respiratory Motion Model Based Correction for Improving the Targeting Accuracy of MRI-Guided Intracardiac Electrophysiology Procedures*
Robert Xu (University of Toronto)

10:00 AM – 10:30 AM

REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM 12:00 PM

CONCURRENT SESSIONS**INVITED SESSION 3: Interventional CMR (APOLLON)**

Moderators: Robert J. Lederman, MD (National Heart, Lung and Blood Institute)
Reza Razavi, MD (King's College of London)

At the conclusion of this session, participants will be better able to:

- Understand typical acquisition and reconstruction techniques and safety considerations for MRI catheterization
- Appreciate applications of real-time MRI in electrophysiologic catheter treatments
- Recognize suitable applications of diagnostic and interventional MRI catheterization in adult heart failure and congenital heart disease

- 10:40 AM *Clinical MR-guided Interventions*
Vivek Muthurangu, MD (University College London)
- 10:56 AM *New MR-acquisitions*
Anthony Faranesh, PhD (National Heart, Lung and Blood Institute)
- 11:12 AM *Safety and Regulatory Approval of New Devices*
Steve Wedan, MS (Imricor Medical Systems)
- 11:28 AM *Paving the Way Towards MR-guided Dilatation and Stenting of Coarctation*
Peter Ewert, MD (German Heart Center Munich)
- 11:44 AM *MR-guided Interventions*
Mirja Neizel-Wittke, MD (University Hospital Düsseldorf)

10:40 AM 12:00 PM

CONCURRENT SESSION**INVITED SESSION 4: CMR of Heart Transplant Complications (MUSES AREA - ERATE/URANIE)**

Moderators: Carmen Chan, PhD (Queen Mary Hospital)
Massimo Lombardi, MD (Polyclinic San Donato)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 10:40 AM *Cardiac Transplant Disease Overview*
James Carr, MD (Northwestern University)
- 10:54 AM *T1 and T2 Assessment in Cardiac Transplant Rejection*
Pierre-Yves Marie, MD (Centre Hospitalier Universitaire de Nancy)
- 11:08 AM *Phosphorus Spectroscopy in Transplant Rejection*
Monique Bernard, PhD (CEMEREM)
- 11:22 AM *Perfusion Quantification Using CMR to Assess Transplant Vasculopathy*
Chris Miller, MBChB (University Hospital of South Manchester)

JOINT SCIENTIFIC SESSIONS

11:36 AM *Coronary Wall Imaging in Transplant Vasculopathy*
Rene M. Botnar, PhD (King's College London/St. Thomas Hospital)

11:50 AM Panel Discussion

10:40 AM 12:00 PM CASE REVIEW 4: CMR In Congenital and Pediatric Patients I (HERMES AUDITORIUM)
Moderators: Shelby Kutty, MD (University of Nebraska)
Gautham P. Reddy, MD, MPH (University of Washington Medical Center)

10:40 AM - CR 23 *Congenital Absence of Marshall's Ligament due to a Persistent Left Superior Vena Cava as Cause of Traumatic Aortic Arch Aneurysm*
Lilia Sierra-Galan, MD, FACC, FSCCT (American British Cowdray Medical Center)

10:50 AM - CR 24 *An Unusual Cause of Dilated Left Ventricle: Role of Comprehensive Cardiac Magnetic Resonance Imaging*
Xiao Zhou (Piedmont Heart Institute)

11:00 AM - CR 25 *Multimodality Imaging for the Diagnostic Evaluation of Endomyocardial Fibrosis*
Bram Ruijsink (St Thomas Hospital)

11:10 AM - CR 26 *Inadvertent Complication of Senning Procedure*
Sherif Moustafa (Mayo Clinic Arizona)

11:20 AM - CR 27 *Cardiomegaly Discovered on a Chest X-Ray in a 16 Year Old Male with Two Weeks of Cough*
Jason Johnson, MD, MHS (University of Tennessee)

11:30 AM - CR 28 *Anomalous Right Coronary Artery from Pulmonary Artery (ARCAPA) with Coronary Steal Demonstrated by Adenosine-Perfusion CMR*
Prakash Muthusami (The Hospital for Sick Children)

11:40 AM - CR 29 *Double Aortic Arch with Coarctation of the Dominant Right Aortic Arch*
Nadine Choueiter, MD (Albert Einstein College of Medicine)

11:50 AM - CR 30 *Extremely Rare Giant Coronary Sinus Aneurysm and Multiple Coronary Artery Aneurysms in a Pediatric Patient*
Dilachew Adebo, MD (Driscoll Children's Hospital)

10:40 AM 12:00 PM ORAL ABSTRACT SESSION 5 (MUSES AREA - CLIO/THALIE)
Moderators: Eike Nagel, MD, PhD, FACC, FESC (King's College London)
Nathanial Reichek, MD (St. Francis Hospital)

10:45 AM - O26 *Prognostic Significance of Infarct Core Pathology in ST-Elevation Myocardial Infarction Survivors Revealed by Non-Contrast T1 Mapping Cardiac Magnetic Resonance*
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

10:57 AM - O27 *LGE-PSIR is an Independent Predictor of Mortality in Cardiac Amyloidosis: A 250 Patient Prospective Study*
Marianna Fontana (The Heart Hospital)

11:09 AM - O28 *Severe Aortic Stenosis has Blunted Myocardial T1 Relaxation Response to Vasodilator Stress: A Cardiac Magnetic Resonance Adenosine Stress Test Study*
Masliza Mahmood, MBChB, MMED, DPhil (Oxford Centre for Clinical Magnetic Resonance Research)

11:21 AM - O29 *Stress CMR as a Gatekeeper to Complete Revascularisation in STEMI Patients with Moderate-Severe Bystander Disease at Primary Percutaneous Coronary Intervention*
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)

11:33 AM - O30 *Cardiac MRI vs. Myocardial 18F-FDG PET/CT in patients with Clinical Concern for Cardiac Sarcoid*
Nam Ju Lee, MD (Perelman School of Medicine of the University of Pennsylvania)

10:40 AM - 12:00 PM WALKING POSTER SESSION (Congenital) (AGORA 2)

12:00 PM - 12:30 PM SCMR Business Meeting

12:00 PM - 12:30 PM EACVI Section CMR Business Meeting

12:30 PM - 1:30 PM LUNCH / EXHIBITS / POSTERS / MODERATED ORAL POSTER COMPETITION SESSION 1 (RHODES AREA)
Moderators: Nicole Seiberlich, PhD (Case Western Reserve University)
Ingo Eitel, MD (University Leipzig)

JOINT SCIENTIFIC SESSIONS

Judges: Brent A. French, PhD (University of Virginia)
TBD
TBD

- M 01 Inter Breath-hold Reproducibility of Temporal Patterns of Coronary Artery Blood Flow
Jennifer Keegan, PhD (Royal Brompton Hospital)
- M 02 MRI Assessment of Aortic Flow and Pulse Wave Velocity in Response to Exercise
Jacob Macdonald, BSc (University Of Wisconsin)
- M 03 Assessment of Left Atrial and Left Atrial Appendage Flow and Stasis an Atrial Fibrillation
Michael Markl, PhD (Northwestern University)
- M 04 Regional Assessment of Myocardial Regeneration Therapies in Rats Using Magnetic Resonance Tagging
Laurence Jackson, BSc (University College London)
- M 05 Ischemic Postconditioning Diminishes Intramyocardial Hemorrhage in Acute Reperfused Myocardial Infarction in Rats, Evaluated by CMR at 7T
Bing Zhang (Sichuan University)
- M 06 Maps; Acute Safety Data of the St Jude Accent - Tendril Ipg System During Prolonged Max Power CMR Scanning
Mark Ainslie, MBChB (University Hospital South Manchester)

1:30 PM – 2:00 PM **CMR TECHNOLOGY UPDATE** (APOLLON)

2:10 PM – 3:30 PM **INVITED SESSION 5: Updates in Vascular Imaging** (APOLLON)
Moderators: Karen Ordovas, MD (University of California San Francisco School of Medicine)
Jens Bremerich, MD (University Hospital)

At the conclusion of this session, participants will be better able to:

- Oversee state-of-the-art angiographic techniques and new developments
- Understand strengths and limitations of different angiographic techniques
- Identify the best diagnostic strategy for a specific clinical situation

- 2:10 PM *Update on MR Angiography*
Stephen J. Riederer, PhD (Mayo Clinic)
- 2:23 PM *Wall Structure and Shear Stress of Ascending Aorta*
James Carr, MD (Northwestern University)
- 2:36 PM *Hemodynamic Assessment of Coarctation*
Karen Ordovas, MD (University of California, San Francisco School of Medicine)
- 2:49 PM *Imaging the Pulmonary Circulation*
Jens Bremerich, MD (University Hospital)
- 3:02 PM *Arterial Stiffness and Vascular Age*
Joao A.C. Lima, MD (Johns Hopkins University)
- 3:15 PM *Carotid Plaque Characterisation and Stroke Risk*
Chun Yuan, PhD (University of Washington)

2:10 PM – 3:30 PM **CASE REVIEW 5: The Patient is Referred for Assessment of Cardiac Chamber Size, Function, and Morphology** (HERMES AUDITORIUM)
Moderators: Sujata Shanbhag, MD (NIH/NHLBI Laboratory of Cardiac Energetics)
Albert de Roos, MD, PhD (Leiden University Medical Center)

- 2:10 PM - CR 31 *Not All Asymmetric Septal Hypertrophy is Hypertrophic Cardiomyopathy*
Timothy Wong, MD, MS (University of Pittsburgh Medical Center)
- 2:20 PM - CR32 *Unusual Hypertrophy in Aortic Stenosis Prior to Valve Replacement*
Thomas Treibel, MBBS (University College London)
- 2:30 PM - CR 33 *Nitrous Oxide (N2O) Abuse Induced Diffuse Myocarditis*
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)

JOINT SCIENTIFIC SESSIONS

- 2:40 PM - CR 34 *Reversible Perfusion Defects in Severe Assymmetric Hypertrophic Cardiomyopathy*
Alexander Ivanov, MD (New York Methodist Hospital)
- 2:50 PM - CR 35 *Cardiac Magnetic Resonance in Churg-Strauss Syndrome (CSS): From Diagnosis to Therapy Monitoring*
Nauman Ahmed, MBBS, MRCP (Bristol Heart Institute)
- 3:00 PM - CR 36 *Cardiac Amyloidosis: Different Patterns of Late Gadolinium Enhancement*
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)
- 3:10 PM - CR 37 *A Case of Cardiac Arrest and Pericardial Tamponade: The Role of Cardiac Magnetic Resonance in the Differential Diagnosis*
Silvia Pica (IRCCS San Matteo Hospital)

2:10 PM – 3:30 PM

ORAL ABSTRACT SESSION 6 (MUSES AREA - CLIO/THALIE)

Moderators: Raymond Kwong, MD, MPH (Brigham and Women's Hospital)
Stefan Neubauer, MD (John Radcliffe Hospital)

- 2:15 PM - O31 *The Prognostic Value of Cardiovascular Magnetic Resonance in Aborted Sudden Cardiac Death*
Peter Swoboda (University of Leeds)
- 2:27 PM - O32 *Native T1 Myocardial Tissue Characterisation in Patients with Pulmonary Hypertension: Findings from International T1 Multicentre Study*
Andrew Swift, PhD (University of Sheffield)
- 2:39 PM - O33 *Prevalence and Prognostic Significance of Right Ventricular Systolic Dysfunction in Heart Failure with Preserved Ejection Fraction. Insights from a Cardiac Magnetic Resonance Imaging Study*
Stefan Aschauer (Medical University of Vienna)
- 2:51 PM - O34 *Left Ventricular Global Function Index Assessed by Cardiac Magnetic Resonance Imaging for the Prediction of Cardiovascular Events in ST-Elevation Myocardial Infarction*
Ingo Eitel, MD (Heart Center Lübeck)
- 3:03 PM - O35 *Prognostic Significance of The Extent of Septal Fibrosis Quantified on Late Gadolinium Enhanced Images in Patients with Nonischemic Cardiomyopathy*
Aidan Cornhill (Stephenson Cardiac Imaging Centre)
- 3:15 PM - O36 *Appropriate Use Criteria and the Impact of Stress Cardiovascular Magnetic Resonance (CMR) Imaging on Management of Patients with Known or Suspected Coronary Artery Disease*
Sloane McGraw, DO (University of Illinois-Chicago)

2:10 PM – 3:30 PM

ORAL ABSTRACT SESSION 7 (MUSES AREA - ERATE/URANIE)

Moderators: Henrik Engblom, MD, PhD (Lund University)
Jeanette Schulz-Menger, MD, FESC (Charite Universitätsmedizin)

- 2:15 PM - O37 *Beat to Beat Volumetric Analysis in Arrhythmia Using Real Time CMR*
Francisco Contijoch (University of Pennsylvania)
- 2:27 PM - O38 *Improving the Accuracy of Cardiac DTI by Averaging the Complex Data*
Andrew Scott (The Royal Brompton Hospital)
- 2:39 PM - O39 *High-Resolution T1 Mapping With ANGLE Detects Increased Right-Ventricular Extracellular Volume Fraction In Patients With Pulmonary Arterial Hypertension*
Bhairav Mehta, MS (University of Virginia)
- 2:51 PM - O40 *Prospectively Accelerated First-Pass Myocardial Perfusion Imaging in Patients Using Motion-Compensated Compressed Sensing Exploiting Regional Low-Rank Sparsity*
Xiao Chen (University of Virginia)
- 3:03 PM - O41 *Hybrid PET/MR Metabolic Imaging of the Reperfused Infarct – New Biology, Future Directions*
Steven White, BSc, MBChB (The Hatter Cardiovascular Institute)
- 3:15 PM - O42 *A New Method For Quantification Of Aortic Stiffness In Vivo Using Magnetic Resonance Elastography (MRE): A Translational Study From Sequence Design To Implementation In Patients*
Rachel Clough (King's College London)

2:10 PM - 3:30 PM

WALKING POSTER SESSION (Basic) (AGORA 2)

3:40 PM – 4:10 PM

REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)

JOINT SCIENTIFIC SESSIONS

4:10 PM – 5:30 PM

CONCURRENT SESSION**INVITED SESSION 6: CMR in Unusual Pathologies from Around the World (with ASCI)** (APOLLON)

Moderators: Herbert Frank, MD (University of Vienna)

Byoung Wook Choi, MD, PhD (Yonsei University College of Medicine)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 4:10 PM *Endomyocardial Fibrosis Double V Sign – A pathognomonic CMR Sign*
Carlos E. Rochitte, MD (Heart Institute – InCor)
- 4:23 PM *Chagas Disease – Recent Developments*
Gustavo Jardim Volpe, MD, PhD (University of Sao Paulo)
- 4:36 PM *HIV-Related Coronary and Myocardial Disease*
Ahmed Gharib, MD (National Institutes of Health)
- 4:49 PM *Coronary Imaging in Kawasaki Disease*
Hajime Sakuma, MD, PhD (Mie University Hospital)
- 5:02 PM *Different Spectrum of Hypertrophic Cardiomyopathy in Asian Population*
Carmen Chan, MBBS (Queen Mary Hospital)
- 5:15 PM *CMR in Tuberculous Myopericarditis*
Ntobeko Ntusi, MD (University of Oxford)

4:10 PM – 5:30 PM

CONCURRENT SESSION**INVITED SESSION 7: CMR of Molecular Changes** (MUSES AREA - ERATE/URANIE)

Moderators: Matthias G. Friedrich, MD (Montreal Heart Institute)

Massimo Lombardi, MD (Polyclinic San Donato)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 4:10 PM *The Current Value of Fluor19 CMR Imaging*
Ruud B. van Heeswijk, PhD (Lausanne University)
- 4:26 PM *CMR Using Iron Oxide Nano Particles – Potential for Plaque and Myocardial Imaging*
Shirjel R. Alam, MBChB (Edinburgh University)
- 4:42 PM *Oxygenation-sensitive CMR – The Non-Invasive Window to Coronary and Microvascular Function?*
Theo Karamitsos, PhD (Oxford Centre for Clinical Magnetic Resonance Research)
- 4:58 PM *Hyperpolarized C13 CMR - Imaging Metabolism Live*
Craig R. Malloy, MD (UT Southwestern Medical Center)
- 5:14 PM *Molecular Imaging of Myocardial Injury and Repair*
David E. Sosnovik, MD (Harvard Medical School)

4:10 PM – 5:30 PM

CASE REVIEW 6: The Patient is Referred for Work-up of Cardiomyopathy (HERMES AUDITORIUM)

Moderators: Joseph Selvanagayam, MBBS, DPhil (Flinders Medical Centre)

Christina Deluigi, MD (University Hospital of Bern)

- 4:10 PM - CR 38 *Giant Cell Myocarditis: A Rare Cause of Myocarditis Presenting with Predominant Right Ventricular Involvement on Cardiac Magnetic Resonance Imaging And Pathology*
Carole Dennie, MD, FRCPC (The Ottawa Hospital, University of Ottawa)
- 4:20 PM - CR 39 *'Myocarditis In Young' Not Always a Benign Pathology*
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)
- 4:30 PM - CR 40 *CMR and PET/CT at Diagnosis and Through Treatment in a Patient with Cardiac Sarcoid and Implanted Devices*
Nam Ju Lee, MD (Perelman School of Medicine of the University of Pennsylvania)

JOINT SCIENTIFIC SESSIONS

- 4:40 PM - CR 41 *Cobalt Cardiomyopathy: Cardiac MRI Findings*
Akbar Khan, MD (United Heart and Vascular Clinic)
- 4:50 PM - CR 42 *Exotic Hyper-Eosinophilic Left Ventricular Cardiomyopathy Secondary to Strongyloide Infection*
Vimal Raj (Narayana Hrudayalaya Hospitals)
- 5:00 PM - CR 43 *Isolated Septal Branch Myocardial Infarction Mimicking Non-Ischemic Late Gadolinium Enhancement Pattern on Cardiac Magnetic Resonance Imaging*
Teruo Noguchi, MD (National Cerebral and Cardiovascular Center)
- 5:10 PM - CR 44 *Young Patient With Biventricular Dysfunction*
Sara El Fawal, MD (Alexandria University)
- 5:20 PM - CR 45 *A Challenging Case: Noncompaction Right Ventricular or Multiple Diverticula*
Zahra Alizadeh Sani, MD (Rajaei Cardiovascular Medical & Research Center)

4:10 PM – 5:30 PM

ORAL ABSTRACT 8 (MUSES AREA - CLIO/THALIE)

Moderators: Daniel Lee, MD (Northwestern University)
Florian von Knobelsdorff-Brenkenhoff, MD (Charité Medical University Berlin)

- 4:15 PM - O43 *Cardiac Mechanical Activation Mapping in Heart Failure Patients with Left Bundle Branch Block Using Cine DENSE MRI*
Daniel Auger Cornejo, PhD (University of Virginia)
- 4:27 PM - O44 *Three dimensional modelling of the Effect of Arterial Pulse Wave Velocity and Body Size on Left Ventricular Geometry*
Wareed Alenaini, Master of Research (Imperial College London)
- 4:39 PM - O45 *Automatic Multi-Vessel Volume Flow Calculation with 4D Flow CMR*
Mariana Bustamante (Linköping University)
- 4:51 PM - O46 *4D Tissue Phase Mapping: Clinically Viable Acquisition Protocol and New Method of Visualisation*
Robin Simpson, MPhys (University Medical Centre)
- 5:03 PM - O47 *Evaluation Of Left Ventricular Torsion Using Cardiac MRI Validation Of Feature Tracking*
Mark Ainslie, MBChB (University Hospital of South Manchester)
- 5:15 PM - O48 *Automatic Scar Segmentation In Dual Inversion Recovery Images Is More Consistent With Manual Outlining Than In Conventional Inversion Recovery Images*
Nicholas Byrne (King's College London)

5:10 PM - 5:30 PM

WALKING POSTER SESSION (Translational) (AGORA 2)

5:40 PM – 7:00 PM

INVITED SESSION 8: 4D PC MRI - Towards Clinical Utility (APOLLON)

Moderators: Håkan Arheden, MD, PhD (Lund University Hospital)
James Carr, MD (Northwestern University)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 5:40 PM *Optimization of 4D PC MRI Acquisition to Research and Clinical Applications – What is Available and What Should We Use?*
Oliver Wieben, PhD (University of Wisconsin-Madison)
- 5:53 PM *Efficient Post Processing and Analysis*
Einar Heiberg, PhD (Lund University)
- 6:06 PM *Clinical Application of 4D PC MRI in Aortic Disease*
Malenka Bissell, MD, MRCPCH (University of Oxford)
- 6:19 PM *Clinical Applications of 4D PC MRI in Congenital Heart Disease*
Philipp Beerbaum, MD, PhD (Hanover Medical University)

JOINT SCIENTIFIC SESSIONS

6:32 PM *Clinical Applications of 4D PC MRI in Heart Failure*
Ann F. Bolger, MD (University of California San Francisco)

6:45 PM Panel Discussion

5:40 PM – 7:00 PM ORAL ABSTRACT SESSION 9 (MUSES AREA - CLIO/THALIE)

Moderators: Ingo Eitel, MD (University Leipzig)
Lourens Robbers, MD (VU University Medical Center)

5:45 PM - O53 *Prognostic Significance Of Quantitative Measures Of Myocardial Infarct Pathology Using Native T1 Mapping, In Survivors Of ST-Elevation Myocardial Infarction*
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

5:57 PM - O52 *The MRI Evaluation of Nitric-oxide Mediated Systemic Endothelial Function and Coronary Endothelial Function in Healthy Subjects and Patients with Coronary Artery Disease*
Micaela Iantorno, MD (Johns Hopkins University)

6:09 PM - O54 *Prognostic Significance of Infarct Core Pathology in ST-Elevation Myocardial Infarction Survivors Revealed by Quantitative T2-Weighted Cardiac Magnetic Resonance*
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

6:21 PM - O49 *Suspected Acute Coronary Syndrome with Normal Coronary Arteries: Cardiovascular Magnetic Resonance in the Diagnosis and Management in the Emergency Room*
Alejandra Villanueva (São Paulo University)

6:33 PM - O50 *ECG and Navigator-Free 4D Whole-Heart Coronary MRA*
Jianing Pang, PhD (Cedars-Sinai Medical Center)

6:45 PM - O51 *Target Volume Coronary MRA Revisited: Usefulness of Non-Rigid Reregistration of Multi-Frame 3D MRA Acquisitions At 3T*
Masaki Ishida (Mie University Hospital)

5:40 PM – 7:00 PM ORAL ABSTRACT SESSION 10 (HERMES AUDITORIUM)

Moderators: Philipp Lurz, MD (Great Ormond Street Hospital)
Andrew Crean, MRCP, FRCR (Toronto General Hospital)

5:45 PM - O55 *MRI Reveals Hemodynamic Changes with Acute Maternal Hyperoxygenation in Human Fetuses With and Without Congenital Heart Disease*
Prashob Porayette, MBBS, MSc (The Hospital for Sick Children)

5:57 PM - O56 *Cardiac MR-Derived Indices Are Stronger Predictors of Resource Use and Risk than Jugular Venous Pressure, in Paediatric Patients with Functionally Single Ventricles, Prior to Completion of Total Cavopulmonary Connection (TCPC)*
Marina Hughes, DPhil, MRCP, FRACP (Great Ormond Street Hospital for Children NHS Foundation Trust)

6:09 PM - O57 *Assessing Cardiac Function in the Single Ventricle Circulation: Kinetic Energy Ejection Fraction*
James Wong, MRCPCH (King's College of London)

6:21 PM - O58 *Myocardial Blood Flow and Viability in Children Post Palliation Of Hypoplastic Left Heart Syndrome assessed with MRI*
Philip Wegner (Schleswig-Holstein University Hospital)

6:33 PM - O59 *Persistent Transverse Arch Hypoplasia is Associated with Systemic Hypertension After Coarctation of Aorta Repair*
Ashwin Prakash, MD (Boston Children's Hospital)

6:45 PM - O60 *Fetal Blood Flow Measured Using Phase Contrast MRI-Comparison of Image Quality and Flow Volume at 1.5T with 3.0T*
Beverly Tsai-Goodman, MD (Royal Hospital for Sick Children)

5:40 PM – 7:00 PM ORAL ABSTRACT SESSION 11 (MUSES AREA - ERATE/URANIE)

Moderators: Anthony H. Aletras, PhD (Lund University Hospital)
Michael Schär, PhD (Johns Hopkins University)

4:45 PM - O61 *3.0T Motion-Corrected Single-Shot Phase Sensitive Inversion Recovery (PSIR) Late Gadolinium Enhancement (LGE) in Free-Breathing Patients Compared with Conventional Segmented Breath-Held LGE*
Lu Lin (Peking Union Medical College Hospital)

JOINT SCIENTIFIC SESSIONS

- 4:57 PM - O62 *Use of an Accelerated Protocol for Rapid Analysis of Iron Overload in the Heart and Liver: The All Iron Detected (AID) Multicenter Study*
Juliano Fernandes, MD, PhD, MBA (Jose Michel Kalaf Research Institute)
- 6:09 PM - O63 *Single Breath-Hold Real-Time MR Cardiac Cine for Evaluation of Left Ventricular Function*
Tomoyuki Kido (Saiseikai Matsuyama Hospital)
- 6:21 PM - O64 *High Resolution Ultra-Fast Sparse Sampling with Iterative Reconstruction Imaging for Left Ventricular Evaluation: Clinical Comparison with Standard SSFP Imaging*
Christian Hamilton-Craig, MBBS, PhD, FSCCT, FACC (The Prince Charles Hospital)
- 6:33 PM - O65 *Free Breathing Contrast-enhanced Time-resolved Magnetic Resonance Angiography in Congenital Heart Disease*
Jennifer Steeden, MEng, PhD (UCL Centre for Cardiovascular Imaging)
- 6:45 PM - O66 *Validation Of Segmented And Real-Time EPI Phase Contrast Flow Quantification Against Segmented Gradient Echo Sequences*
Gergely Szantho, MD (Bristol Heart Institute)

5:40 PM - 7:00 PM **WALKING POSTER SESSION (Basic)** (AGORA 2)

Saturday, February 7, 2015

CARDIOLOGY FOR NON-CLINICIANS

7:30 AM – 8:30 AM **Session 2: CHF – Heart Failure** (MUSES AREA - CLIO/THALIE)
Moderator: Oliver Bruder, MD (Elisabeth Hospital Essen)

At the conclusion of this session, participants will be better able to:

- Describe the pathophysiology of coronary atherosclerotic disease and how it relates to the development of a myocardial infarction
- List the most common causes and clinical symptoms of heart failure
- Describe the pathophysiology of aortic valve stenosis and the most common clinical presentation

- 7:30 AM *The Very Essence Of Heart Failure – Epidemiology, Differential Diagnosis, Treatment, and Risk Stratification*
Marcus Carlsson, MD (Lund University Hospital)
- 7:45 AM *Myocarditis Update*
Christoph Jensen, MD (Elisabeth Hospital)
- 8:00 AM *CHF Cases*
Stefan Zimmerman, MD (Johns Hopkins University School of Medicine)
- 8:15 AM Q&A

PHYSICS FOR PHYSICIANS

7:30 AM – 8:30 AM **Physics for Physicians 2** (APOLLON)
Moderator: Sonia Nielles-Vallespin, PhD (National Institutes of Health)

At the conclusion of this session, participants will be better able to:

- Understand the basic principles of signal generation, reception and decay in MRI
- Describe the basic image formation process and interrelations between the various parameters including the sources of potential image artifacts
- Evaluate the potential value of advanced motion correction, accelerated imaging and optimization concepts for their research and routine work

- 7:30 AM *CMR Motion Control - Sensors, Gating and Correction*
Mathias Stuber, PhD (Lausanne University)
- 7:50 AM *CMR Acceleration - Parallel Imaging and Compressed Sensing*
Nicole Seiberlich, PhD (Case Western Reserve University)
- 8:10 AM *CMR Optimization - SNR, Speed, Resolution and Imaging Limits*
Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)

JOINT SCIENTIFIC SESSIONS

JOINT SCIENTIFIC SESSIONS

7:30 AM – 8:30 AM

CASE REVIEW 7: Potpourri Case Session (HERMES AUDITORIUM)

Moderators: Gerald McCann, MD (University Hospitals Leceister)
Norbert Wilke, MD (University of Florida)

- 7:30 AM - CR 46 *Thrombotic Pyrosis*
Eloisa Feliu, MD, PhD (Hospital General Universitario de Alicante)
- 7:40 AM - CR 47 *It's Complicated: Giant Left Ventricular Aneurysm, Pseudoaneurysm, and Ventricular Septal Defect*
Steve Leung, MD (University of Kentucky)
- 7:50 AM - CR 48 *Magnetic Resonance - Conditional Devices Produce Significant Image Degradation When Located Too Close the Heart: A Case of Loop-Recorder and a Case Of Dual-Chamber Pacemaker*
Andrea Barison MD, PhD (Fondazione Toscana Gabriele Monasterio)
- 8:00 AM - CR 49 *Remedy Worse than the Disease*
Rafal Moscicki (Hospital General Universitario De Alicante)
- 8:10 AM - CR 50 *Hypereosinophilic Syndrome Associated Endomyocarditis*
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)
- 8:20 AM - CR 51 *Uhl's Anomaly In A Young Boy*
Fateh Ali Sultan, MBBS, FCPS (Aga Khan University Hospital)

8:40 AM – 10:00 AM

CONCURRENT SESSION**INVITED SESSION 9: Imaging the Ischemic Heart (APOLLON)**

Moderators: Allison Hays, MD (Johns Hopkins University)
Sahar Soleimanifard, MD, PhD (Johns Hopkins University)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 8:40 AM *Risk Stratification*
John P. Greenwood, MBChB, PhD, MRCP (University of Leeds)
- 8:53 AM *Myocardial Perfusion Imaging*
Robert Manka, MD (University Hospital Zurich)
- 9:06 AM *Stress Imaging*
Igor Klem, MD (Duke University Medical Center)
- 9:19 AM *Late Gadolinium Enhancement*
Sonia Nielles-Vallespin, PhD (National Institutes of Health)
- 9:32 AM *Lessons from Clinical Trials*
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
- 9:45 AM *Controversies and Frontiers (Including MV Dysfunction, IHD in Women)*
Sven Plein, MD, PhD (University of Leeds)

8:40 AM – 10:00 AM

CONCURRENT SESSION**INVITED SESSION 10: Multimodality Imaging (with ESCR) (MUSES AREA - ERATE/URANIE)**

Moderators: Jens Bremerich, MD (University Hospital)
Nadine Kawel-Boehm, MD (University of Basel Hospital)

At the conclusion of this session, participants will be better able to:

- Oversee modalities not typically used by participant
- Understand strengths and limitations of different modalities
- Identify the best modality for a specific clinical situation

- 8:40 AM *Comprehensive Imaging of Ischemic Heart Disease with SPECT-CT*
Matthias Gutberlet, MD (University of Leipzig)

JOINT SCIENTIFIC SESSIONS

- 8:53 AM *Cardiac CT in the Emergency Unit*
Christopher Herzog, MD (Radiologie München)
- 9:06 AM *Tissue Characterisation with PET*
Asbjorn M. Scholtens, MD (University Medical Center Utrecht)
- 9:19 AM *CT Perfusion Imaging*
Joao A.C. Lima, MD (Johns Hopkins University)
- 9:32 AM *Current and Future Role of PET-MRI*
Osman Ratib, MD, PhD (University of Geneva)
- 9:45 AM Panel Discussion
Ischemic Heart Disease and Tissue Characterisation in 2025: Nuclear, CT, MR or Hybrid?

8:40 AM – 10:00 AM **CASE REVIEW 8: CMR In Congenital and Pediatric Patients II** (HERMES AUDITORIUM)
Moderators: Sohrab Fratz, MD, PhD, FESC (German Heart Centre Munich)
Tarique Hussain, MD, PhD (King's College, London, UK)

- 8:40 AM - CR 52 *Progressive Dyspnea and Cyanosis In A Middle Age Man: An Uncommon Disease in Adulthood Detected by Cardiac MRI*
Tarinee Tangcharoen, MD (Mahidol University)
- 8:50 AM - CR 53 *Apical Muscular VSD Closed in Childhood - Rare Complication in Adulthood*
Mahesh Kappanayil, MD (Amrita Institute of Medical Sciences and Research Centre)
- 9:00 AM - CR 54 *Time-Resolved Angiography & 3d Printing in Congenital Heart Disease: Understanding a Difficult Case*
Maria Velasco Forte, PhD Student (Guy's and Saint Thomas Hospital)
- 9:10 AM - CR 55 *CMR Findings of Myocardial Infarction in a Patient with Severe Graft Versus Host Disease Following Bone Marrow Transplantation*
Michael Campbell, MD (Duke University)
- 9:20 AM - CR 56 *Dobutamine Stress Cardiac MRI for Assessment of Myocardial Perfusion in Pediatric Patients with a Diagnosis of Intramyocardial Coronary Course*
Cory Noel, MD (Baylor College of Medicine)
- 9:30 AM - CR 57 *A Rare Case of Survival into Adulthood with w Rare Complex CHD*
Mahesh Kappanayil, MD (Amrita Institute of Medical Sciences and Research Centre)
- 9:40 AM - CR 58 *A Rare Presentation Of Takayasu Arteritis With Abdominal Aortic Dissection Among Other, Typical, Findings: Pre- And Postsurgical Imaging*
Tamadhir Gazzaz, MBBS
- 9:50 AM - CR 59 *Cardiac MRI and Ultrasound Findings in a Patient with Repaired Tetralogy of Fallot (Tof) and Atypically Located Right Ventricular Myxoma: A Case Report*
Alexandros Kallifatidis (St. Luke's Hospital)

8:40 AM – 10:00 AM **ORAL ABSTRACT SESSION 12** (MUSES AREA CLIO/THALIE)
Moderators: Christopher H. Kramer, MD (University of Virginia Health System)
Hajime Sakuma, MD, PhD (Mie University Hospital)

- 8:45 AM - O68 *Blood Flow Pattern in the Ascending Aorta After TAVI and Conventional Aortic Valve Replacement: Analysis Using 4D-Flow MRI*
Ralf Trauzeddel (Charité University Medicine Berlin)
- 8:57 AM - O72 *Characterization of Atherosclerotic Carotid Plaque Using MATCH: Initial Clinical Experience*
Wei Yu (Beijing anzhen Hospital)
- 9:09 AM - O69 *Differential Hemodynamic Characteristics of High-Resistance vs. High-Flow Type of Pulmonary Artery Hypertension Revealed by Phase-Contrast MRI*
Ming-Ting Wu, MD (Kaohsiung Veterans General Hospital)
- 9:21 AM - O71 *Non-contrast 3D Radial and QISS MRA for Transcatheter Aortic Valve Replacement Planning*
Akos Varga-Szemes, MD, PhD (Medical University of South Carolina)
- 9:33 AM - O67 *Reproducibility of Functional Aortic Analysis using MRI: The Multi-Ethnic Study of Atherosclerosis*
Chikara Noda, BS (Johns Hopkins University)

JOINT SCIENTIFIC SESSIONS

- 9:45 AM - O70 *USPIO Enhanced 4D flow Imaging of the Mouse Cardiovascular System at 7T with an Ultrashort Echo Time Sequence*
Aurélien Trotier, MSc (Centre de Résonance Magnétique des Systèmes Biologiques)
- 8:40 AM - 10:00 AM WALKING POSTER SESSION (Translational) (AGORA 2)**
- 10:00 AM - 10:30 AM REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)**
Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm
- 10:40 AM - 12:00 PM INVITED SESSION 11: Too Small, Too Thick and Too Big: CMR of the Left Heart and Aorta in Congenital Heart Disease (APOLLON)**
Moderators: Karen Ordovas, MD (University of California San Francisco School of Medicine)
Arno Roest, MD, PhD (Leiden University Medical Center)
- At the conclusion of this session, participants will be better able to:
- Understand the abnormalities of the left and right ventricle in congenital and pediatric heart disease and how CMR can be applied
 - Apply advanced CMR techniques to assess the left and right ventricle in pediatric and congenital heart disease
 - Understand how CMR can be used in clinical decision-making involving left and right ventricular abnormalities in congenital heart disease
- 10:40 AM *The Borderline Left Ventricle – When is Small Too Small? CMR in Clinical Decision Making for Uni- vs Bi-Ventricular Repair*
Puja Banka, MD (Boston Children's Hospital)
- 10:56 AM *The Thick LV: Paediatric Aspects of CMR Imaging In Hypertrophic Cardiomyopathy*
Francesca Raimondi, MD (The Hôpital Necker – Enfants Malades)
- 11:12 AM *When the Aortic Valve is Too Small: T1 Mapping in Congenital Aortic Stenosis*
Andrew J. Powell, MD (Children's Hospital Boston)
- 11:28 AM *4D Flow in a Small or Enlarged Aorta*
Alex Barker, PhD (Northwestern University)
- 11:44 AM *Big, Small or Tortuous? CMR of the Aorta in Connective Tissue Disease*
Shaine Morris, MD (Texas Children's Hospital)
- 10:40 AM - 12:00 PM CASE REVIEW 9: Best Cases of the SCMR Web COTW (HERMES AUDITORIUM)**
Moderators: Edward T. Martin, MD (Oklahoma Heart Institute)
TBD
- 10:40 AM - 12:00 PM ORAL ABSTRACT SESSION 13 (MUSES AREA - CLIO/THALIE)**
Moderators: Rohan Dharmakumar, PhD (Cedars-Sinai Medical Center)
Damian Tyler, PhD (University of Oxford)
- 10:45 AM - O73 *Myocardial Conduction Network Visualized By Magnetic Resonance Microscopy/Diffusion Imaging and Validated By Histology*
John Forder, PhD (University of Florida)
- 10:57 AM - O74 *Visual Detection and Characterization of Chronic Myocardial Infarctions in Patients Using Native T1 Maps at 3T*
Avinash Kali, MS (Cedars-Sinai Medical Center)
- 11:09 AM - O74 *Characterization of Both Myocardial Extracellular Volume Expansion and Myocyte Hypertrophy by CMR in Heart Transplantation Recipients Without Active Rejection: Implications for Early Cardiac Remodeling*
Otavio Coelho-Filho, MD, PhD (State University of Campinas – UNICAMP)
- 11:21 AM - O76 *Assessment of Intramyocardial Hemorrhage in Acute Reperfused Myocardial Infarction Using 7.0T*
Wei Chen, PhD Student (West China Hospital)
- 11:33 AM - O77 *Improving the Stratification Power of Cardiac Ventricular Shape*
Gerardo Gonzalez (King's College London)
- 11:45 AM - O78 *Validation of High Temporal Resolution Spiral Phase Velocity Mapping of Coronary Artery Blood Flow Against Doppler Flow Wire.*
Jennifer Keegan, PhD (Imperial College)

JOINT SCIENTIFIC SESSIONS

10:40 AM – 12:00 PM

ORAL ABSTRACT SESSION 14 (*MUSES AREA - ERATE/URANIES*)Moderators: Holger Thiele, MD (University of Luebeck)
Oliver Bruder, MD (Essen)

- 10:45 AM - O85 *Left Ventricular Remodelling and Prosthetic Valve Function After Transcatheter Aortic Valve Implantation: A Serial Cardiac Magnetic Resonance Imaging Study*
Constanze Merten (Herzzentrum Bad Segeberg)
- 10:57 AM - O86 *Performance of Native and Contrast Enhanced T1 Mapping to Detect Myocardial Damage in Patients with Suspected Myocarditis: A Head to Head Comparison of Different CMR-Techniques* Jonathan Nadjiri (Deutsches Herzzentrum München)
- 11:09 AM - O87 *Improved Diagnostic Role of CMR in Acute Coronary Syndromes and Unobstructed Coronary Arteries: The Importance of Time-to-CMR*
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)
- 11:21 AM - O88 *Turbulent Kinetic Energy in the Ascending Aorta is Greater in Bicuspid than Tricuspid Aortic Valve Stenosis*
Margaret Loudon, MBChB (University of Oxford)
- 11:33 AM - O89 *T1 Mapping in Severe Aortic Stenosis: Insights into LV Remodeling*
Thomas Treibel, MBBS (University College London)
- 11:45 AM - O90 *T1 and T2 Mapping CMR to Quantify Focal Myocardial Injury in Patients with Myocarditis*
Kai Muellerleile, MD (University Heart Center Hamburg)

10:40 AM – 12:00 PM

WALKING POSTER SESSION (Clinical) (*AGORA 2*)

12:00 PM – 1:00 PM

LUNCH/EXHIBITS/POSTERS/MODERATED ORAL POSTER COMPETITION SESSION (*RHODES AREA*)

1:10 PM – 2:30 PM

CONCURRENT SESSION**INVITED SESSION 12: CMR of Arrhythmia and Ablation** (*APOLLON*)Moderators: Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)
Tobias Schaeffter, PhD (Kings College London)

At the conclusion of this session, participants will be better able to:

- Understand the role of MRI in characterising the arrhythmic substrate and the effect of ablation therapy
- Learn about computational modelling for treatment planning
- Understand the role of different imaging modalities modalities in image-guided EP-procedures

- 1:10 PM *MRI of the Arrhythmic Substrate*
David A. Bluemke, MD, PhD (National Institutes of Health)
- 1:26 PM *Planning of Ablation Strategies*
Oleg Aslanidi, PhD (King's College London)
- 1:42 PM *Integration of multi-modal imaging for EP-procedures*
Saman Nazarian, MD, PhD (Johns Hopkins University)
- 1:58 PM *Clinical MR-guided EP-procedures*
Reza Razavi, MD (King's College London)
- 2:14 PM *MRI of acute RF-lesions*
Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)

1:10 PM – 2:30 PM

CONCURRENT SESSION**INVITED SESSION 13: Assessing the Hematology/Oncology Patient** (*MUSES AREA - ERATE/URANIE*)Moderators: Alexis Jacquier, MD (CHU la Timone / CEMEREM)
Christopher H. Kramer, MD (University of Virginia Health System)

At the conclusion of this session, participants will be better able to:

- Understand the complementary role of CMR in patients undergoing chemotherapeutic assessment
- Understand the strengths and limitations of CMR in assessing intracardiac mass
- Understand the general role for CMR in evaluating hematology/oncology patients

- 1:10 PM *The Cardiac Effects of Chemotherapeutics and Immunotherapy on the Heart and the Use of Imaging in Guiding Therapy*

JOINT SCIENTIFIC SESSIONS

Michael Salerno, MD, PhD (University of Virginia Health System)

1:23 PM *CMR for the Detection of Preclinical LV Dysfunction in Breast Cancer Therapies*
Ana Barac, MD, PhD (Washington Hospital Center)

1:36 PM *CMR for the Evaluation of Intracardiac Masses*
Patricia Bandettini, MD (Bethesda, Maryland)

1:49 PM *Novel Use of Tissue Characterization in Screening and Monitoring the Oncology/Hematology Patient*
James Moon, MD (The Heart Hospital)

2:02 PM *Integrating CMR into a Cardio-Oncology Practice*
Lauren Simprini, MD (Yale School of Medicine)

2:15 PM Clinical Cases/Discussion Panel

1:10 PM – 2:30 PM ORAL ABSTRACT SESSION 15 (MUSES AREA - CLIO/THALIE)

Moderators: Andrew Crean, MRCP, FRCR (Toronto General Hospital)

1:15 PM - O79 *Gender and Myocardial Fibrosis by CMR are Independent Predictors of Myocardial Dysfunction in Patients with Chagas' Heart Disease*
Alejandra Villanueva (Heart Institute)

1:27 PM - O80 *Predictors of Outcome in Patients with Parvovirus B19 Positive Endomyocardial Biopsy*
Simon Greulich, MD (Robert Bosch Medical Center)

1:39 PM - O81 *Abnormal Myocardial Perfusion Correlates with Impaired Systolic Strain and Diastolic Strain Rate in Systemic Lupus Erythematosus: A Cardiovascular Magnetic Resonance Study*
Ntobeko Ntusi, MD, MBChB (University of Oxford)

1:51 PM - O82 *Cardiovascular Magnetic Resonance Assessment of Ventricular Morphology to Investigate the Mechanisms of Heart Failure Associated with Type 2 Diabetes*
Peter Swoboda (University of Leeds)

2:03 PM - O83 *Preclinical Alterations in Cardiac Energetics Amongst Sarcomere Mutation Carriers in Hypertrophic Cardiomyopathy*
Rachael Lloyd (South Australian Health and Medical Research Institute)

2:15 PM - O84 *Native T1 Mapping in Patients with Idiopathic Dilated Cardiomyopathy for the Assessment of Diffuse Myocardial Fibrosis: Validation Against Histologic Endomyocardial Biopsy*
Yoshitaka Goto (Mie University Hospital)

1:10 PM – 2:30 PM ORAL ABSTRACT SESSION 16 (HERMES AUDITORIUM)

Moderators: Philip Lurz, MD (Great Ormond Street Hospital)
Titus Kuehne, MD

1:15 PM - O91 *Whole-Heart Contrast Enhanced Coronary Magnetic Resonance Angiography Using Respiratory Image Based Navigation in Patients with Congenital Heart Disease*
Miguel Vieira, MD (King's College London)

1:27 PM - O92 *MRI Reveals Increased Superior Vena Caval Blood Flow In Human Fetuses With Congenital Heart Disease, Abnormal Placental Pathology And Neonatal Brain White Matter Changes*
Sujana Madathil, MBBS (The Hospital for Sick Children)

1:39 PM - O93 *Relationship between Collateral Flow and Exercise Performance in Fontan Patients: An Exercise CMR Study*
Kevin Whitehead, MD, PhD (Children's Hospital of Philadelphia)

1:51 PM - O94 *Systemic Right Ventricular Fibrosis Detected By CMR Predicts Adverse Clinical Outcome In Patients After Atrial Redirection Surgery For Transposition Of The Great Arteries*
Riikka Rydman, MD, PhD (Royal Brompton Hospital)

2:03 PM - O95 *Respiratory Pulsations Affect Fontan Connection Power Loss: Using Real Time Velocity Mapping to Improve the Accuracy of Computational Simulations*
Elaine Tang, BEng (Georgia Institute of Technology)

2:15 PM - O96 *Characterization of The Relationship Between Bicuspid Aortic Valve Morphology and Hemodynamics*
Vrishank Raghav, PhD (Georgia Institute of Technology)

JOINT SCIENTIFIC SESSIONS

1:10 PM - 2:30 PM

WALKING POSTER SESSION (Basic) (AGORA 2)

2:40 PM – 4:00 PM

CONCURRENT SESSION**INVITED SESSION 14: Aortic Valve Disease and Transcatheter Aortic Valve Replacement** (APOLLON)

Moderators: Chiara Bucciarelli-Ducci, MD, FESC (Bristol Heart Institute)
Byoung Wook Choi, MD, PhD (Yonsei University College of Medicine)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 2:40 PM *Aortic Stenosis: A Disease of the Valve and Myocardium*
Gerald McCann, MD (University Hospitals Leceister)
- 2:53 PM *Comprehensive Assessment of Aortic Stenosis by CMR*
Clério F. Azevedo, MD (Clínica de Diagnóstico por Imagem)
- 3:06 PM *Role of CMR to guide decision making in aortic regurgitation*
Saul Myerson, MD, FRCP (University of Oxford)
- 3:19 PM *Novel Mapping Techniques in Aortic Valve Disease: Ready for Prime Time?*
Joao A.C. Lima, MD (Johns Hopkins University)
- 3:32 PM *The Role of CMR to Guide TAVR*
Matthias Gutberlet, MD (University of Leipzig)
- 3:45 PM *Unresolved Issues and Future Directions – Role of CMR and Other Imaging Modalities*
Calvin Chin, MD (University of Edinburgh)

2:40 PM – 4:00 PM

CONCURRENT SESSION**INVITED SESSION 15: Small Animal CMR** (MUSES AREA - ERATE/URANIE)

Moderators: Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)
Bernhard Gerber, MD (Cliniques St. Luc UCL)

At the conclusion of this session, participants will be better able to:

- Understand similarities and differences of equipment and methods for small and large animal CMR relative to human CMR
- Identify the animal models used to emulate various cardiovascular conditions/diseases
- Describe imaging approaches to monitor structural, molecular and pharmacological interventions

- 2:40 PM *CMR Technology in Animals*
Frederick H. Epstein, PhD (University of Virginia)
- 2:53 PM *Ischemic Heart Disease Models (Including Pigs)*
Frank Kober, PhD (Centre de Résonance Magnétique Biologique et Médicale)
- 3:06 PM *Heart Failure Models (Including Pigs)*
Jurgen Schneider, PhD (Oxford University)
- 3:19 PM *Stem Cell Models*
Dara Kraitchman, VMD, PhD (Johns Hopkins University School of Medicine)
- 3:32 PM *Molecular Imaging*
Alkystis Phinikaridou, PhD (Kings College London)
- 3:45 PM *Therapy Monitoring*

2:40 PM – 4:00 PM

CASE REVIEW 10: World Cup Case Session Competition (HERMES AUDITORIUM)

Moderators: Albert van Rossum, MD, PhD (VU Medical Center)
Mark Westwood, MD, FRCP (The London Chest Hospital)

Competitors: Andrew E. Arai, MD (NHLBI - National Institutes of Health)
Albert de Roos, MD, PhD (Leiden University Medical Center)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
Matthias G. Friedrich, MD (Montreal Heart Institute)

JOINT SCIENTIFIC SESSIONS

Raymond J. Kim, MD (Duke Medical Center)
 James Moon, MD (The Heart Hospital)
 Saul Myerson, MD, FRCP (University of Oxford)
 Jeanette Schulz-Menger, MD, FESC (Charite Universitätsmedizin)

2:40 PM – 4:00 PM**ORAL ABSTRACT SESSION 17** (*MUSES AREA - CLIO/THALIE*)

Moderators: Anthony H. Aletras, PhD (Lund University Hospital)

- 2:45 PM - O97 *Assessing Ischemic Myocardial Metabolism In Vivo With Hyperpolarized ¹³C: Relating The Metabolic Perturbation To The Area At Risk*
 Hikari Yoshihara (Lausanne University Hospital)
- 2:57 PM - O98 *Effect of Exercise on Myocardial Energy Metabolism And Relationship Between Coronary Microvascular Dysfunction and Abnormal Myocardial Energetics in Diabetic Cardiomyopathy*
 Eylem Levett (University of Oxford)
- 3:09 PM - O99 *Impaired Energetics and Normal Myocardial Lipids in Rheumatoid Arthritis and Systemic Lupus Erythematosus: A Phosphorous and Proton Magnetic Resonance Spectroscopy and Cardiovascular Magnetic Resonance Study*
 Ntobeko Ntusi, MD, MBChB (University of Oxford)
- 3:21 PM - O100 *Hyperpolarized Metabolic Imaging of Myocardial Ischemia-Reperfusion in a Small-Animal Model at 9.4T*
 Darach O h-Ici, MD (German Heart Institute)
- 3:33 PM - O101 *Myocardial Fatty Acid Metabolism Probed with Hyperpolarized [1-¹³C]Octanoate*
 Hikari Yoshihara m(Lausanne University Hospital)
- 3:45 PM - O102 *Development of a Tropoelastin-Binding MR Contrast Agent for in Vivo Imaging of Impaired Elastogenesis in Atherosclerosis*
 Alkystis Phinikaridou (King's College London)

2:40 PM - 4:00 PM**WALKING POSTER SESSION (Congenital)** (*AGORA 2*)**4:15 PM – 5:30 PM****CLOSING PLENARY: CMR's Impact on Global Cardiovascular Health: Latest progress and looking forward** (*APOLLON*)

Moderators: Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
 Sven Plein, MD, PhD (University of Leeds)
 Orlando P. Simonetti, PhD (The Ohio State University)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 4:15 PM *Session Highlights*
 Sven Plein, MD, PhD (University of Leeds)
 Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
- 4:35 PM *Coronary MR – Angiography and Beyond*
 Warren J. Manning, MD (Beth Israel Deaconess Medical Center)
- 4:55 PM *The 4th Era of Myocardial CMR*
 Vanessa Ferreira, MD (University of Oxford)
- 5:10 PM *Translating Technology to Improved Outcomes*
 Raymond Kwong, MD, MPH (Brigham and Women's Hospital)
- 5:25 PM *Farewell until 2016 in LA (SCMR), Florence? (EuroCMR)*
 Sven Plein, MD, PhD (University of Leeds)
 Victor A. Ferrari, MD (University of Pennsylvania Medical Center)

5:30 PM – 6:30 PM**AWARD CEREMONY** (*APOLLON*)

Gold Medal and Other Award Presentations

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

Friday, February 6, 2015

This activity has been approved for credit by the American Society of Radiologic Technologists (ASRT) for a maximum of 10.75 CE credits.

8:40 AM – 10:10 AM

Session 1 – Physics

Moderator: David Wendell, PhD (Duke University Medical Center)

8:40 AM

Cardiac Pulse Sequences

Albert Hsiao, MSc (University of California, San Diego)

At the conclusion of this session, the participant will be better able to:

- Identify typical pulse sequences used for cardiac MRI.
- Understand the typical uses for each of the pulse sequences.
- Identify the basic parameters available for optimization of each pulse sequence in routine scanning.

9:10 AM

Sequence Optimisation

Magalie Viallon-Croisille, PhD (CREATIS Laboratory, University Hospital of Saint Etienne, University of Lyon)

At the conclusion of this session, the participant will be better able to:

- Learning the minimal MR physics notions that allows to optimise the main cardiovascular sequences
- Be able to identify the main artefacts and find the work around to resolve the problem if possible
- Know the tips and tricks to tune MR sequence parameters of interest for optimisation purposes

9:40 AM

Artifacts and How to Avoid Them

Francesco Santini, MD (University Hospital Basel)

10:10 AM – 10:40 AM

REFRESHMENT BREAK/EXHIBITS/POSTERS

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM – 12:00 PM

Session 2 – Patient Setup, Vascular Imaging and Flow Assessment

Moderator: Chris Lawton (Bristol Heart Institute)

10:40 AM

Poor ECG Triggering: What Can We Do?

Christina Deluigi, MD (University Hospital of Bern)

At the conclusion of this session, the participant will be better able to:

- Recognize trigger artifacts
- Optimize parameters
- Understand mechanism of ECG trigger problems

11:05 AM

CE MRA Including Time Resolved Angio

Tim Leiner, MD, PhD (Utrecht University Medical Center)

At the conclusion of this session, the participant will be better able to:

- Understand state-of-the-art 'static' and 'dynamic' acquisition methods in contrast-enhanced MR Angiography
- Understand contrast-dosing strategies and how to optimize contrast injection to obtain the best image quality at the lowest dose
- Discuss recent insights regarding contrast medium safety

11:30 AM

Post Processing Flow Data - How, Why and What Does it Mean

John-Paul Carpenter, MD (Poole Hospital)

At the conclusion of this session, the participant will be better able to:

- Choose which CMR flow acquisitions are relevant for analysis
- Analyze CMR flow data
- Interpret the results

12:30 PM – 1:10 PM

LUNCH ON OWN

1:10 PM – 2:30 PM

Session 3 – Ischaemia and Viability

Moderator: Michelle Walkden, BSC (University Hospital Trust Southampton)

1:10 PM

Late Gadolinium Enhancement

Scott Flamm, MD (Cleveland Clinic)

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

At the conclusion of this session, the participant will be better able to:

- Discuss the mechanisms responsible for the increased signal intensity in irreversibly damaged myocardium
- Explain the distinct advantages of late gadolinium enhancement imaging by cardiac MRI
- Recognize the clinical situations appropriate for cardiac MRI late gadolinium enhancement imaging

1:35 PM

Adenosine Stress

Aparna Deshpande, MD (University Hospitals of Leicester NHS Trust)

At the conclusion of this session, the participant will be better able to:

- Recognize the indications and contraindications for adenosine stress with regards to assessment for underlying ischaemia
- Distinguish genuine perfusion defect from artefacts and underlying infarction
- Comprehend the techniques and protocol involved in adenosine stress perfusion

2:00 PM

Dobutamine Stress

Raymond Kwong, MD, MPH (Brigham and Women's Hospital)

At the conclusion of this session, the participant will be better able to:

- List the steps of pre-test safety assessment and conditions where dobutamine stress CMR are contraindicated
- Recognize the steps in imaging LV function and perfusion during stages of progressive dobutamine infusion
- Know the method of image interpretation for dobutamine CMR imaging

2:30 PM – 3:00 PM

REFRESHMENT BREAK

3:00 PM – 4:20 PM

Session 4 – Oral Abstracts

Moderator: Jane Francis (John Radcliffe Hospital)

4:40 PM – 6:00 PM

Session 5 – Cardiomyopathy

Moderator: Baljit Jagpal, MSc, PgC-MRI, DCR (University of Aberdeen / NHS Grampian)

4:40 PM

Acquired Cardiomyopathies

Richard Coulden, MD (University of Alberta)

At the conclusion of this session, the participant will be better able to:

- TBA
- TBA
- TBA

5:05 PM

Familial Cardiomyopathies

Katherine Tweed, MD (Papworth Hospital NHS Foundation Trust)

At the conclusion of this session, the participant will be better able to:

- Utilize appropriate sequences for assessment of the range of phenotypic expression of Hypertrophic Cardiomyopathy
- Describe the typical MRI features of ARVC, supported by histopathological correlation
- Recognise the typical MRI appearances in glycogen storage diseases of Anderson-Fabry and Gauchers

5:30 PM

Metabolic Cardiac Diseases

Michaela Scheuermann-Freestone, MD (Oxford Centre for Clinical Magnetic Resonance Research)

At the conclusion of this session, the participant will be better able to:

- Associate some metabolic abnormalities with their implications on cardiac function
- Apply this knowledge to other well known metabolic disorders
- Realise the potential and advantages of cardiac MRI in assessing the heart in metabolic diseases

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

Saturday, February 7, 2015

8:40 AM – 10:10 AM

Session 6 – CMR in Congenital Heart Disease

Moderator: Kraig Kissinger (Beth Israel Deaconess Medical Center)

8:40 AM

Imaging the Paediatric Patient

Romina Linton, BSc (Great Ormond Street Hospital)

At the conclusion of this session, the participant will better be able to:

- Recognise the diversity of patients undergoing Cardiac MRI
- Acknowledge the importance of each role in the multidisciplinary team
- Tailor protocols and optimise sequences according to the patients diagnosis and size

9:10 AM

Adult Congenital Heart Disease

Andrew Crean, MRCP, FRCR (Toronto General Hospital)

At the conclusion of this session, the participant will better be able to:

- Review the MRI techniques available for imaging adult congenital heart disease (ACHD)
- Review common congenital pathologies where these techniques can be applied
- Recognize the limitations of MRI in certain contexts

9:40 AM

Congenital Heart Disease Associated With Chromosomal Disorders

Ian Rogers, MD (Stanford University)

At the conclusion of this session, the participant will better be able to:

- Identify the common chromosomal disorders associated with congenital heart disease
- Understand possible necessary accommodations for scanning patients with chromosomal disorders
- Identify the factors routinely assessed by CMR in patients with tetralogy of Fallot

10:10 AM – 10:40 AM

REFRESHMENT BREAK/EXHIBITS/POSTERS

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM – 12:00 PM

Session 7 – CMR in Cardiac Masses and Diseases of the Valves and Pericardium

Moderator: Jennifer Bryant (University Hospital Southampton)

10:40 AM

Valvular Disease

Bobby Agrawal, MD (Papworth Hospital NHS Foundation Trust)

At the conclusion of this session, the participant will better be able to:

- Describe the normal anatomy of the cardiac valves as seen on MRI
- Understand the common pathologies of cardiac valves
- Identify congenital and iatrogenic valvular lesions

11:05 AM

Pericardial Disease

Chi Wai Stephen Cheung, MBBS, FRCR (Queen Mary Hospital)

At the conclusion of this session, the participant will better be able to:

- Identify the role of MR in the characterisation of common pericardial diseases
- Select the MR imaging sequence and technique to be used in the investigation of pericardial disease
- Describe the typical MR appearance of common pericardial pathologies

11:30 AM

Cardiac Masses

Stephen Harden, MD (University Hospital Southampton)

At the conclusion of this session, the participant will better be able to:

- Recognise the utility of CMR in imaging myocardial masses
- Generate a protocol for imaging cardiac tumours
- Develop an approach to the initial interpretation of these scans

12:00 PM – 1:10 PM

LUNCH ON OWN

1:10 PM – 2:40 PM

Session 8 – Emerging Technology

Moderator: Elizabeth Jenista, PhD (uke University Medical Center)

1:10 PM

T1 and T2 Mapping – Where Are We Now

Stefan Piechnik, PhD (Oxford University)

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

At the conclusion of this session, the participant will better be able to:

- Generalize the principles of quantitative magnetic resonance imaging,
- Differentiate between the common cardiovascular techniques and their variants,
- Understand the limitations, recognise basic artefacts and application strategies in daily imaging

1:40 PM

3T Cardiac Imaging – How to Do it Well and Safely

Rajesh Dash, MD, PhD (Stanford University)

At the conclusion of this session, the participant will better be able to:

- Review safety measures for working in strong magnetic fields; absolute and relative contraindications to cardiac MRI
- Acquire strategies to obtain high quality cardiac MR images at 3T
- Identify solutions to common 3T CMR pitfalls

2:10 PM

Cardiac Spectroscopy

Paul Bottomley, PhD (Johns Hopkins University)

At the conclusion of this session, the participant will better be able to:

- Say/know what technology and protocols are required to do cardiac MRS
- Say/know what are the most promising applications of cardiac MRS
- Understand its potential for assessing cardiac energetics in heart failure

2:40 PM – 3:40 PM

Session 9 – Case Review Session

Moderator: Alison Fletcher, DCRR, PG Dip (Paperworth Hospital)

2:40 PM

Case Review – Non-congenital

James Shambrook, MD (University Hospital Southampton)

At the conclusion of this session, the participant will be better able to:

- Compare and differentiate the variety of CMR sequences available, and their role in diagnosis
- Recognize how CMR works as a problem solving tool
- Contrast the benefit of CMR compared to other imaging modalities

3:10 PM

Case Review – Congenital

Marina Hughes, MD (Great Ormond Street Hospital)

At the conclusion of this session, the participant will better be able to:

- Describe the techniques for optimising image planes for diagnostic scanning of the volume-loaded RV
- Recognise some basic techniques for optimising temporal and spatial resolution, and slice position, to more accurately quantify flow data from the aortic arch, pulmonary arteries, systemic and pulmonary veins
- Comprehend some of the technical complexities of scanning a paediatric patient with a functionally single ventricle and cavo-pulmonary shunt (BCPC), prior to surgical conversion to a Fontan-type circulation (Total cavo-pulmonary connection (TCPC))

3:40 PM – 4:00 PM

Closing Plenary

Alison Fletcher, DCRR, PG Dip (Papworth Hospital)

At the conclusion of this session, the participant will better be able to:

- Comprehend the importance the role the technologist plays in using CMR as a diagnostic tool
- Understand the importance of accurate image acquisition
- Be able to use clinical knowledge to aid in the technical aspects of image acquisition

TECHNOLOGIST POSTERS

T 4	<i>Lawton, Chris</i>	Positioning the First Short Axis Slice for Ventricular Volume Analysis
T 5	<i>Lawton, Chris</i>	How to measure vessel flow with CMR phase contrast imaging.
T 6	<i>Kissinger, Kraig</i>	A greater incidence of Nausea/Vomiting Reactions to Multihance® is Seen Among Those of African Descent
T 7	<i>Wage, Ricardo</i>	The Utility of Magnetic Resonance Imaging in a Trial to Assess the Effect of Renal Denervation in Heart Failure with Preserved Ejection Fraction
T 8	<i>Yamrozik, June</i>	Imaging the PM/AICD patient; Is it Evolving into a Routine Procedure? An Evolutionary Report of our first 100 Patients.
T 9	<i>Yamrozik, June</i>	Imaging the PM/AICD patient; Is it beneficial to the final diagnosis?
T 10	<i>Wormleighton, Joanne</i>	CMR at 3.0T in Routine Clinical Practice - Tips and Tricks to Optimise Image Quality and Enhance Patient Flow
T 11	<i>Cao, Jian</i>	Feasibility study of a novel acquisition technique of cardiac cine magnetic resonance imaging in patients with atrial fibrillation
T 12	<i>Norman, Wendy</i>	High throughput cardiac imaging in awake young children: Tips and Tricks

POSTERS

Thursday, February 5, 2015

6:00 PM – 7:00 PM POSTER SESSION 1

Not accredited for CME

You are invited to meet the poster authors of the following categories on Thursday evening during the Wine and Cheese Reception

Categories Being Presented In Poster Session 1 Are:

- Basic Translational – New Techniques Ready for Clinical Application
- Basic Translational – Post-Processing and Workflow
- Basic Translational – Pre-Clinical Validation of Existing Technique
- CAD Ischemia and Viability
- CAD Other

Friday, February 6, 2015

12:30 PM – 1:30 PM POSTER SESSION 2

Not accredited for CME

You are invited to meet the poster authors of the following categories on Friday during the break for lunch

CATEGORIES BEING PRESENTED IN POSTER SESSION 2 ARE:

- Clinical Outcome and Prognosis
- Congenital Heart Disease
- Cost Effectiveness and Comparison to Other Modalities
- EP and Interventional Applications
- Metabolism, Spectroscopy, and Hyperpolarized MRI

Saturday, February 7, 2015

12:00 PM – 1:00 PM POSTER SESSION 3

Not accredited for CME

You are invited to meet the poster authors of the following categories on Saturday during the break for lunch

CATEGORIES BEING PRESENTED IN POSTER SESSION 3 ARE:

- Molecular Imaging; Contrast Agents
- Non-Ischemic Heart Disease – Primary and Secondary CMP
- Non-Ischemic Heart Disease – Other
- Rapid, Efficient Imaging
- Vascular MRI

POSTER DIRECTORY



BASIC TRANSLATIONAL - NEW TECHNIQUES READY FOR CLINICAL APPLICATION

P 001	<i>Zhou, Zhengwei</i>	First-Pass Perfusion CMR with Reduced Dark-Rim Artifact and Instantaneous Image Reconstruction Using Optimized Cartesian Sampling and Apodization
P 002	<i>Schmidt, Michaela</i>	Multi-Contrast Scar CINE: Sparsely sampled Real-Time Inversion-Recovery bSSFP CINE combined with Iterative Reconstruction and Motion Propagation
P 003	<i>Fernandes, Juliano</i>	Accuracy and feasibility of a free-breathing cine technique sparsely sampled with iterative reconstruction for rapid evaluation of left ventricular function in adults and children
P 004	<i>Bhuva, Anish</i>	Precision and reproducibility of blood T1 estimation: implications of T1 star on ECV calculation.
P 005	<i>Rao, Anupama</i>	Variability of T1 in Purpose Recruited Normal Volunteers and Patients as a Function of Shim (B0), Flip Angle (B1) and Myocardial Sector at 3T
P 006	<i>Evin, Morgane</i>	Left atrium dysfunction by CMR in aortic valve stenosis
P 007	<i>Stoll, Victoria</i>	Reproducibility and variability of left ventricular 4D flow in healthy volunteers.
P 008	<i>Bulluck, Heerajnarain</i>	Quantification of the area-at-risk by T1 and T2 mapping CMR at 3T
P 009	<i>von Knobelsdorff-Brenkenhoff, Florian</i>	Detailing the role of parametric T1- and T2-mapping for differentiation of acute and chronic myocardial infarction
P 010	<i>Phinikaridou, Alkystis</i>	Multi-sequence non-contrast MRI characterization of deep vein thrombosis in man
P 011	<i>Bhuva, Anish</i>	Clinical application of MOLLI T1* for extracellular volume calculation in healthy volunteers and aortic stenosis
P 012	<i>Maceira, Alicia</i>	Reference values for regional and global myocardial T2 mapping with cardiovascular magnetic resonance at 1.5T and 3T
P 013	<i>Klix, Sabrina</i>	On the Subjective Acceptance during Cardiovascular Magnetic Resonance Imaging at 7.0 Tesla
P 014	<i>Fenster, Brett</i>	Left Ventricular Vorticity is Marker of Ventricular Interdependency in Pulmonary Arterial Hypertension
P 015	<i>Froeling, Martijn</i>	Whole heart DTI using asymmetric bipolar diffusion gradients
P 016	<i>Mekkaoui, Choukri</i>	Infarct Delineation in Patients with Acute Myocardial Infarction Using the Tractographic Propagation Angle and Late Gadolinium Enhancement
P 017	<i>PERDRIX, Ludivine</i>	3D Myocardial Wall Stress assessed by Cardiac Magnetic Resonance and non invasive aortic blood pressure in patients with severe aortic valve stenosis
P 018	<i>Avery, Ryan</i>	Comparison of Image Quality and Acquisition Time of Free-Breathing (FB) Motion Corrected (MOCO) SSFP to Current PSIR sequences: Is One Sequence Superior?
P 019	<i>Zemrak, Filip</i>	Quantification of the Relationship Between Two Cardiac Magnetic Resonance Techniques: Fast Gradient Echo and Steady-State Free Precession for Determination of Left Atrial Volumes.
P 020	<i>Kim, Pan-ki</i>	Respiratory motion navigated Look-Locker imaging for small animal myocardial T1 mapping
P 021	<i>Garg, Pankaj</i>	Assessment of interventricular systolic relationship and infarct location in acute myocardial infarction
P 022	<i>Han, Q. Joyce</i>	Accuracy and Reproducibility of T1rho Mapping Sequences

POSTER DIRECTORY

P 023	<i>Piechnik, Stefan</i>	Inversion time calculations have varying impact on short, intermediate and long MOLLI T1 values: implications for studies using T1-mapping sequences
P 024	<i>ElBaz, Mohammed S. M.</i>	Impact of disturbed diastolic vortex formation on viscous energy loss in the left ventricle: Quantitative 4D Flow MRI analysis of healthy controls and repaired atrioventricular septal defect patients
P 025	<i>Scott, Andrew</i>	Directions vs. averages: An in-vivo comparison for cardiac DTI
P 026	<i>Francois, Christopher</i>	Exercise Cardiac MR Assessment of Diastolic Function
P 027	<i>Zhu, Meng Yuan</i>	Fetal haemodynamic assessment in a case of late-onset intrauterine growth restriction by phase contrast MRI and T2 mapping
P 028	<i>Coats, Louise</i>	Variations in Right Atrial Flow Patterns in the Normal Heart A Potential Contributor to Cryptogenic Stroke in the setting of Patent Foramen Ovale
P 029	<i>Atweh, Lamya</i>	Comparison of Respiratory-Triggered (RT) 3D Cine Steady-State Free Precession Cardiac MRI with Standard 2D Cine Imaging and Magnetic Resonance Angiography in Congenital Heart Disease (CHD)
P 030	<i>Steding-Ehrenborg, Katarina</i>	Atrial and ventricular kinetic energy is higher in athletes compared to healthy controls and contributes to improve diastolic filling of the ventricles
P 031	<i>Muthurangu, Vivek</i>	Segmented whole body haemodynamic responses to a high calorie meal – a novel MR approach
P 032	<i>Gregory, T. Stan</i>	Rapid Quantification of Stroke Volume using Magneto-hydrodynamic Voltages in 3T MRI: A Feasibility Study
P 033	<i>Satriano, Alessandro</i>	Multipolar 4D strain analysis with spatial mapping to 3D LGE quantification: relationships in chronic Ischemic Cardiomyopathy.
P 034	<i>Nguyen, Christopher</i>	In Vivo Diffusion-Weighted MRI Detection of Myocardial Fibrosis in Hypertrophic Cardiomyopathy Patients
P 035	<i>Mazumder, Ria</i>	In-Vivo Waveguide Cardiac Magnetic Resonance Elastography
P 036	<i>Hedjazi Moghari, Mehdi</i>	High-resolution Whole-heart Angiography with Compressed Sensing and 3D Respiratory Motion Compensation in 5 Minutes
P 037	<i>Contijoch, Francisco</i>	Continuous adaptive radial sampling of k-space from real-time physiologic feedback in MRI
P 038	<i>Töger, Johannes</i>	Phantom validation of 4D flow: independent validation of vortex ring volume quantification using planar laser-induced fluorescence

BASIC TRANSLATIONAL - POST-PROCESSING AND WORKFLOW

P 039	<i>Garcia, Julio</i>	4D flow MRI of the aorta demonstrates age- and gender-related differences in aortic size and blood flow velocity in healthy subjects
P 040	<i>Dorniak, Karolina</i>	A novel tool for phase contrast MR-derived pulse wave velocity measurement - validation against applanation tonometry and phantom studies
P 041	<i>Tobon-Gomez, Catalina</i>	Standardised unfold map of the left atrium: regional definition for multimodal image analysis
P 042	<i>Charles, Roux</i>	CMR left atrial characterization in Cushing's syndrome: a feature tracking study.
P 043	<i>Goetschalckx, Kaatje</i>	Shared versus non-shared prepulse perfusion MR sequence in absolute myocardial perfusion quantification.
P 044	<i>Ananth Narayan, Srinivas</i>	Comparison of great artery dimensions in 3-D Dual-phase SSFP, compared with 3D CE-MRA and Phase-contrast imaging (Magnitude image)
P 045	<i>Broadbent, David</i>	Comparison of Non-Linearity Correction Methods for Quantitative Myocardial Perfusion MRI
P 046	<i>Tao, Qian</i>	Myocardial Scar Surface Area Identified by LGE MRI is an Independent Predictor of Mortality in Post-Infarction Patients
P 047	<i>Ibrahim, El-Sayed</i>	Detection of LV Function Abnormality Using Temporal Patterns of Normalized Wall Thickness
P 048	<i>Kantasis, Georgios</i>	Simulating MR imaging for the human embryonic heart
P 049	<i>Child, Nicholas</i>	T1 values by conservative septal postprocessing approach are superior in relating to the interstitial myocardial fibrosis: findings from patients with severe aortic stenosis
P 050	<i>Biglands, John</i>	A comparison of dual-bolus and dual-sequence quantitative myocardial perfusion techniques
P 051	<i>Javed, Ahsan</i>	Motion correction facilitates the automation of cardiac ASL perfusion imaging.
P 052	<i>Bidhult, Sebastian</i>	A new validated T2* analysis method with certainty estimates for cardiac and liver iron load determination.
P 053	<i>Moghaddam, Abbas</i>	Effect of segmentation of k-space in SSFP flow artifacts
P 054	<i>Suzuki, Munemura</i>	A qualitative and quantitative assessment of cardiac cine Phase contrast MRI: comparison of image quality between 2D and 3D acquisition
P 055	<i>Bricq, Stéphanie</i>	Segmentation of compacted and non compacted left ventricular mass with a semi-automatic method
P 056	<i>Rosmini, Stefania</i>	Performance of automated ECV maps versus conventionally calculated ECV

POSTER DIRECTORY

P 057	<i>Almutairi, Haifa</i>	A comparison of cardiac motion analysis software packages: application to left ventricular deformation analysis in hypertensive patients
P 058	<i>Goetschalckx, Kaatje</i>	Cardiac magnetic resonance dual bolus myocardial perfusion quantification superior to the single bolus analysis method.
P 059	<i>Calkoen, Emmeline</i>	Disturbed Left Ventricular inflow and ejection pattern in corrected atrioventricular septal defect patients assessed by 4DFlow MRI and particle tracing.
P 060	<i>Peters, Dana</i>	Simulations for Determining the Optimal Enhancement Ratio Threshold for Segmentation of Left Atrial Fibrosis
P 061	<i>Marchesseau, Stephanie</i>	Comparison of Four Short Axis Cine Acquisition Protocols for the Evaluation of Left Ventricular Cardiac Function
P 062	<i>Ibrahim, El-Sayed</i>	Estimation of Eulerian Strain from Tagged CMR Images using Band-pass Optical Flow and HARP
P 063	<i>Tavolaro, Sébastien</i>	Feasibility and comparison of left ventricular ejection flow acceleration recorded by cardiac magnetic resonance in patients with dilated cardiomyopathy: a case-control study
P 064	<i>Dubin, Brian</i>	Cardiac MR reliably identifies patients with clinically significant left ventricular noncompaction using a novel mass quantification technique
P 065	<i>Nickander, Jannike</i>	Background phase correction in phase contrast velocity encoded CMR reduces gender differences and improves the accuracy and precision of Qp/Qs
P 066	<i>Kowallick, Johannes</i>	Quantification of Left Atrial Strain and Strain Rate using Cardiovascular Magnetic Resonance Myocardial Feature Tracking
P 067	<i>Hussaini, Syed</i>	Left and right ventricular kinetic energy using time-resolved versus time-average ventricular volumes
P 068	<i>Tufvesson, Jane</i>	Validation and development of a new automatic algorithm for time resolved segmentation of the left ventricle in magnetic resonance imaging

BASIC TRANSLATIONAL - PRE-CLINICAL VALIDATION OF AN EXISTING TECHNIQUE

P 069	<i>Camargo, Gabriel</i>	Initial Experience with a Cardiac Multi-Contrast Real-Time Cine Prototype Integrating Sparse Sampling and Iterative Reconstruction
P 070	<i>Gabbert, Dominik Daniel</i>	Comprehensive fluid dynamic quantification in congenital heart disease - Introduction of a new software tool -
P 071	<i>Yang, Lin</i>	Monitoring the Progression of Atherosclerotic Plaque and Disruption with Contrast-enhancement MR Imaging: An Experimental Study
P 072	<i>Bietenbeck, Michael</i>	External targeted navigation of ultra-small iron-oxide (U/SPIO) nanoparticles by an external permanent magnet – proof-of-principle as a prerequisite for magnetic drug delivery using U/SPIO
P 073	<i>Inage, Akio</i>	Impacts of Right Ventricular Trabeculae and Papillary Muscles on Volumes and Function Assessed by Cardiovascular Magnetic Resonance Using a Novel Software: Semi-automatic Threshold-based Segmentation Algorithm
P 074	<i>van Ooij, Pim</i>	Reproducibility and inter-observer variability of velocity and 3D wall shear stress derived from 4D flow MRI in the healthy aorta
P 075	<i>Moghaddam, Abbas</i>	Estimation of the Flow Motion in SSFP Images Using Moving shadows; Reliable or Not?
P 076	<i>Stoeck, Christian</i>	Direct comparison of in-vivo and post-mortem spin-echo based diffusion tensor imaging in the porcine heart
P 077	<i>Tantiongco, John-Paul</i>	Comparison of GLS via echocardiography and tissue tracking by Cardiac Magnetic Resonance Imaging
P 078	<i>Hamlet, Sean</i>	Patient-specific variability in breath-hold positions during cardiac magnetic resonance imaging has a negligible effect on measures of cardiac mechanics
P 079	<i>Maksuti, Elira</i>	Hydraulic forces contribute to left ventricular diastolic filling
P 080	<i>Garg, Pankaj</i>	T2-mapping and T2*-mapping for detection of intramyocardial haemorrhage: a head-to-head comparison with T2-weighted imaging
P 081	<i>Stoeck, Christian</i>	Second Order Motion Compensated Spin-Echo Diffusion Tensor Imaging of the Human Heart
P 082	<i>Naresh, Nivedita</i>	Cardiac MR Detects the Progression of Impaired Myocardial Perfusion Reserve in a Mouse Model of Obesity-Related Cardiomyopathy
P 083	<i>Zhang, Huan</i>	Evaluate the Effects of Statins on Myocardial Remodeling in ApoE ^{-/-} Mice at 3T Cardiac Magnetic Resonance

CAD ISCHEMIA AND VIABILITY

P 084	<i>Klem, Igor</i>	Sources of variability in quantification of CMR infarct size and their impact on sample size calculations - reproducibility among three core laboratories.
P 085	<i>Henningsson, Markus</i>	Coronary MR Angiography in patients with coronary artery disease using image-based respiratory motion compensation

POSTER DIRECTORY

P 086	<i>Steel, Kevin</i>	Cardiovascular Effects and Tolerance of Adenosine versus Regadenoson during Cardiac MRI Perfusion Testing
P 087	<i>Giusca, Sorin</i>	Prediction of functional recovery by cardiac magnetic resonance feature tracking imaging in first time ST-elevation myocardial infarction. Comparison to infarct size and transmural by late gadolinium enhancement.
P 088	<i>Gotschy, Alexander</i>	Fusion of 3D-CMR-perfusion with 3D-MR-coronary angiography
P 089	<i>Jablonowski, Robert</i>	<i>withdrawn</i>
P 090	<i>Engblom, Henrik</i>	Design of clinical cardioprotection trials using CMR: Impact of myocardial salvage index and a narrow inclusion window on sample size
P 091	<i>Bryant, Jennifer</i>	Early clinical experience with 'splenic switch-off' in adenosine stress CMR
P 092	<i>Lighton, Alice</i>	Splenic switch-off, a potential novel marker of lack of adenosine response: relationship to heart rate response and demographic factors
P 093	<i>Biglands, John</i>	Quantitative myocardial perfusion performs as well as visual analysis in diagnosing myocardial ischaemia: A CE-MARC sub-study
P 094	<i>Patel, Mita</i>	Diagnostic Performance of Regadenoson Stress CMR for Detection of Coronary Artery Disease
P 095	<i>Buckert, Dominik</i>	Total Ischemic Myocardium is a Powerful Predictor for Adverse Cardiac Events
P 096	<i>Parikh, Kalindi</i>	Regadenoson Stress Induced Wall Motion Abnormalities during Cardiac MRI
P 097	<i>Bizino, Maurice</i>	Free-breathing 3D phase-sensitive inversion recovery late gadolinium enhancement at 3.0 Tesla: reliability and image quality in ischemic and non-ischemic cardiomyopathy in comparison with multiple breath-hold 3D imaging
P 098	<i>Dyckmanns, Nils</i>	Which cardiac magnetic resonance parameters predict outcome in acutely reperfused Non-ST-elevation myocardial infarction?
P 099	<i>Fuernau, Georg</i>	Impact of Oxidative Stress on Myocardial Damage Visualized by Cardiac Resonance Imaging in Acute ST-Elevation Myocardial Infarction
P 100	<i>Fair, Merlin</i>	Through-plane dark-rim artefacts in 3D first-pass myocardial perfusion
P 101	<i>Tahir, Enver</i>	Serial native T1- and T2-mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction
P 102	<i>Khan, Jamal</i>	Comparison of cardiovascular magnetic resonance feature tracking and tagging for the assessment of left ventricular systolic strain in acute myocardial infarction
P 103	<i>PHAM, MINH</i>	Assessment of Myocardial Blood Flow, Viability and Diffuse Fibrosis in Patients after Arterial Switch and Ross Operation with Magnetic Resonance Imaging
P 104	<i>Mangion, Kenneth</i>	Left ventricular outcomes following multivessel PCI vs. infarct artery-only PCI in patients with acute STEMI: the Glasgow PRAMI CMR sub-study.
P 105	<i>Sörensson, Peder</i>	Myocardium at risk quantified by contrast enhanced steady-state free precession does not differ in extent or severity when comparing patients with ST-elevation myocardial infarction treated with standard reperfusion or postconditioning
P 106	<i>Ibrahim, El-Sayed</i>	Fully-automatic Synthesis of Cine Viability CMR Images with Minimal Estimation Error
P 107	<i>Liu, Alexander</i>	Myocardial T1 Responds to Adenosine – Normal Values of Stress T1 Reactivity at 1.5T and 3T
P 108	<i>Luecke, Christian</i>	Preliminary Results of Synchronous Acquired PET/MRI for Viability Assessment in Patients with Reduced Cardiac Function prior Revascularization.
P 109	<i>Lee, Seung-Ah</i>	Prognostic Value of Late Gadolinium Enhanced MRI in Patients Underwent Coronary Artery Bypass Graft Surgery; Long term follow up data
P 110	<i>Range, Felix</i>	Feasibility and results of acute cardiac stress MRI with regadenoson for risk stratification of COPD-patients with NSTEMI
P 111	<i>Ghugre, Nilesh</i>	Hemorrhage contributes to chronic adverse remodeling in acute myocardial infarction: Insights from a novel preclinical model
P 112	<i>Sinn, Martin</i>	Ability of extracellular volume imaging to serially measure infarct size compared to LGE within six months after acute myocardial infarction
P 113	<i>Allen, Bradley</i>	Stress Perfusion Cardiac MRI with Regadenoson and Gadofosveset Trisodium
P 114	<i>Gerbay, Antoine</i>	Prediction of recovery after revascularization in chronic Coronary Total Occlusion (CTO) patients. Adenosine or low-dose dobutamine stress with LGE CMR: which is the best combination?
P 115	<i>Illindala, Uday</i>	Cardiac MRI Detection of Infarct Size Reduction with Hypothermia in Porcine Ischemia Reperfusion Injury Model
P 116	<i>Parnham, Susie</i>	Myocardial Oxygenation is Impaired in Advanced Chronic Kidney Disease and Renal Transplant Patients
P 117	<i>Kidambi, Ananth</i>	Clinical validation of susceptibility-weighted cardiovascular magnetic resonance in comparison to T2 and T2* imaging for detection of intramyocardial hemorrhage following acute myocardial infarction

POSTER DIRECTORY

P 118	<i>Roghi, Alberto</i>	Evidence of Non-Transferrin-Bound Iron in patients with ST-elevation Myocardial Infarction: relationship with microvascular obstruction and post-reperfusion myocardial hemorrhage.
P 119	<i>Hedeer, Fredrik</i>	Head-to-head comparison of myocardial perfusion SPECT and CMR for assessment of myocardial ischemia.
P 120	<i>Nezafat, Maryam</i>	A Segmented Modified Look-Locker Inversion Recovery (MOLLI) Sequence for High Heart Rate T1 Mapping of Mice
P 121	<i>Palazzuoli, Alberto</i>	The impact of infarct size on regional and global left ventricular systolic function: a cardiac magnetic resonance imaging study.
P 122	<i>Koulouroudias, Marinos</i>	Splenic switch-off, a potential novel marker of lack of adenosine response: prevalence and measurement reproducibility
P 123	<i>Goetschalckx, Kaatje</i>	Lower myocardial stress perfusion in infarct-adjacent than in remote myocardium four months after revascularized myocardial infarction.
P 124	<i>Ghosh Dastidar, Amardeep</i>	Safety, tolerability and feasibility of adenosine stress CMR in high-risk patients
P 125	<i>Mayr, Agnes</i>	Exercise stress CMR in patients with coronary heart disease - preliminary results
P 126	<i>McAlindon, Elisa</i>	Timing of post contrast T1 values affects the extracellular volume fraction in ST segment elevation myocardial infarction
P 127	<i>Feistritzer, Hans-Josef</i>	Aortic stiffness as a predictor of high-sensitivity cardiac troponin T levels at a chronic stage after ST-segment elevation myocardial infarction
P 128	<i>Goetschalckx, Kaatje</i>	Lower myocardial perfusion in borderzones in the area at risk than out of the area at risk in acute myocardial infarction.
P 129	<i>Patel, Mita</i>	Semi-Quantitative Assessment of Resting Perfusion in Chronic Myocardial Infarction
P 130	<i>Sinn, Martin</i>	Development of cardiac remodeling in patients with acute myocardial infarction studied by cardiac MRI (CMR)
P 131	<i>Marques, Hugo</i>	Stress Cardiac MR beyond ischemia - prevalence and characterization of previously unknown incidental findings with potential clinical implications
P 132	<i>Chen, Xiuyu</i>	Mesenchymal stem cells improve cardiac function after myocardial infarction in rats without long-term survival: a serial 7.0T MRI study
P 133	<i>Douglas, Hannah</i>	Myocardial viability in preserved or mildly impaired left ventricular function prior to revascularization – findings from a 3 year experience
P 134	<i>Feistritzer, Hans-Josef</i>	Association of high-sensitivity cardiac troponin T concentrations with the left ventricular global function index after ST-segment elevation myocardial infarction
P 135	<i>Pershina, Ekaterina</i>	Delayed Dual-Energy CT (DECT) and conventional cardiac CT angiography (CCTA) in detection of chronic myocardial scar tissue: do we need delayed acquisition? Comparison with MRI.
P 136	<i>Al-Mallah, Mouaz</i>	Temporal Trends in the Referral Pattern to and Yield of Cardiac MRI: An Analysis from Saudia Arabia
P 137	<i>Khan, Tina</i>	Use of CMR imaging to assess the effect of Lipoprotein Apheresis in Patients with Refractory Angina and raised Lipoprotein(a)
P 138	<i>McAlindon, Elisa</i>	T2 values of the acutely infarcted myocardium following primary PCI: the relationship with infarct characteristics and gadolinium extracellular volume of distribution
P 139	<i>Nordlund, David</i>	The Extent of Myocardium at Risk for LAD, RCA and LCx using Contrast Enhanced SSFP and T2-weighted imaging
P 140	<i>Cole, Ben</i>	The impact of cardiac magnetic resonance viability assessment on the management of patients with ischaemic heart disease and left ventricular dysfunction

CAD OTHER

P 141	<i>Shaw, Jaime</i>	Native myocardial T1 is elevated in subjects with coronary microvascular dysfunction and no obstructive CADA
P 142	<i>Peters, Dana</i>	Left Atrial Function after Myocardial Infarction in Swine
P 143	<i>Pérez-David, Esther</i>	Assessment of regional and global left ventricular function with electromechanical mapping: validation against MRI. A PRECISE substudy.
P 144	<i>Adebo, Dilachew</i>	Magnetic Resonance Evaluation of Coronary Anatomy, First-pass myocardial perfusion and Late Gadolinium Enhancement in children with acquired and congenital heart disease
P 145	<i>Do, Hung</i>	Arterial Spin Labeling CMR Perfusion Imaging is Capable of Continuously Monitoring Myocardial Blood Flow during Stress
P 146	<i>Reinstadler, Sebastian</i>	Biomarkers of hemodynamic stress and aortic stiffness post-STEMI: A cross-sectional analysis
P 147	<i>Roifman, Idan</i>	Diabetes Mellitus is an Independent Predictor of Right Ventricular Dysfunction

POSTER DIRECTORY

P 148	<i>Shaw, Peter</i>	High resolution CMR perfusion imaging demonstrates reduced flow reserve and endo/epi ratio in microvascular coronary disease.
P 149	<i>Siddiqi, Nishat</i>	The impact of methodological and temporal variation on infarct size quantification in acute myocardial infarction with late enhancement CMR
P 150	<i>Zia, Mohammad</i>	Prognostic Value of Myocardial T2 Mapping Post Reperfused Acute Myocardial Infarction
P 151	<i>Karwat, Krzysztof</i>	Left atrial contractile strain is the independent predictor of LV remodeling after ST-segment elevation myocardial infarction
P 152	<i>Capranzano, Piera</i>	Impact Of P2Y12-Mediated Platelet Reactivity On myocardial perfusion Of Patients with ST-Segment Elevation Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention: a Cardiac Magnetic Resonance study.
P 153	<i>Aldrovandi, Annachiara</i>	Diagnostic value of cardiac magnetic resonance imaging in patients with suspected acute myocardial infarction without significant coronary stenosis
P 154	<i>van der Pals, Jesper</i>	Temporal and Spatial Characteristics of the Area at Risk Investigated using Computed Tomography and T1-weighted Magnetic Resonance Imaging
P 155	<i>Heer, Tobias</i>	Positive effect of sublingual nitroglycerin on performance of non-contrast enhanced magnetic resonance coronary angiography
P 156	<i>Garg, Pankaj</i>	Is signal intensity of late gadolinium enhancement a substitute for extracellular volume mapping in acute myocardial infarction?
P 157	<i>Butzbach, Britta</i>	Role of myocardial scar on 30day outcome after TAVI
P 158	<i>MOHD AMIN, NOR HANIM</i>	Comprehensive Right Heart Systolic Function Assessment Using Cardiac Magnetic Resonance Imaging After Inferior ST Elevation Myocardial Infarction
P 159	<i>Klug, Gert</i>	Left ventricular ejection fraction assessed by echocardiography and magnetic resonance imaging in acute anterior and non-anterior STEMI
P 160	<i>Rajewska-Tabor, Justyna</i>	Influence of inflammatory response on infarct size and microvascular obstruction estimated by cardiac magnetic resonance in patients with ST-elevation myocardial infarction
P 161	<i>igual-muñoz, begoña</i>	Is really epicardial fat a new marker of cardiovascular risk? A case-control cardiac magnetic resonance study.
P 162	<i>Rajewska-Tabor, Justyna</i>	Extent of infarct size and microvascular obstruction following unsuccessful reperfusion in patients with ST-segment elevation myocardial infarction
P 163	<i>Garg, Pankaj</i>	Mitral annular plane systolic excursion and intra-myocardial haemorrhage in acute myocardial infarction
P 164	<i>Bulluck, Heerajnarain</i>	Incidence of left ventricular thrombi in reperfused STEMI patients detected by contrast-enhanced CMR
P 165	<i>Jablonski, Robert</i>	Prediction of appropriate ICD-therapy using infarct heterogeneity from CMR in patients with coronary artery disease
P 166	<i>Kali, Avinash</i>	Accuracy and Precision of Chronic Myocardial Infarct Characterization with Native T1 Mapping at 3T

CLINICAL OUTCOME AND PROGNOSIS

P 167	<i>Mandry, Damien</i>	Microvascular obstruction by delayed contrast-enhanced MRI remains a strong predictor of left ventricular remodeling even after successful reperfusion in acute myocardial infarction
P 168	<i>Biederman, Robert</i>	Is There Value Beyond Safety in CMR Imaging of PM/AICD patients?
P 169	<i>Ivanov, Alexander</i>	Evaluating Change of Function After Revascularization in Patients with Multi Vessel Coronary Artery Disease, Severely Reduced Left Ventricular Systolic Function and No Scar on CMR Imaging.
P 170	<i>Han, Qiao</i>	RV dyssynchrony in PAH as evidenced by slice to slice minimum volume timing
P 171	<i>Bannur, Mahesha</i>	Correlation of Myocardial Perfusion defects on Stress MR perfusion study with Occurrence Major adverse cardiac events in patients with Moderate Coronary artery disease.
P 172	<i>Carmona-Rubio, Andres</i>	Cardiac Magnetic Resonance Imaging and Follow-Up of Pacemaker Events to Identify the Etiology and Natural History of Heart Blocks
P 173	<i>Eifer, Diego</i>	Role of Gadolinium Enhanced Cardiac Magnetic Resonance in Recent Onset Non-Ischemic Cardiomyopathy: A systematic review and metanalysis
P 174	<i>Swift, Andrew</i>	Right ventricular mass has better reproducibility in systole than diastole in patients with suspected pulmonary hypertension
P 175	<i>Johnson, Kerryanne</i>	Prognostic impact of late gadolinium enhancement in patients with high-sensitivity troponin elevation and non-obstructive coronary arteries.
P 176	<i>Shin, So Youn</i>	Right ventricular functions measured by cardiac magnetic resonance imaging in patients who underwent tricuspid valve surgery: implication for patients' outcome
P 177	<i>Musa, Tarique</i>	Right Ventricular function following Surgical Aortic Valve Replacement (SAVR)

POSTER DIRECTORY

P 178	<i>Reinstadler, Sebastian</i>	Predictive value of high-sensitive troponin t versus conventional biomarkers for 1-year left ventricular function and infarct size after STEMI
P 179	<i>Biederman, Robert</i>	Does RV Fibrosis have an Effect on Mortality in Patients Hypertrophic Cardiomyopathy? An LV vs. RV National Death Index (NDI) Study.
P 180	<i>Dobson, Laura</i>	CMR assessment of longitudinal left ventricular function following transcatheter aortic valve implantation (TAVI) for severe aortic stenosis
P 181	<i>Rubenstein, Jason</i>	Right Ventricular Size Assessed by Cardiovascular MRI may Predict Mortality after Left Ventricular Assist Device Placement
P 182	<i>Musa, Tarique</i>	Left Atrial Remodelling following Transcatheter Aortic Valve Implantation (TAVI) and Surgical Aortic Valve Replacement (SAVR)
P 183	<i>Taniguchi, Yasuyo</i>	Managing the patients of heart failure with the data from cardiac MRI and endomyocardial biopsy
P 184	<i>Papalia, Francesco</i>	CMR Scanning of MR-Conditional Pacemakers: A 5-year Single Centre Experience
P 185	<i>Guo, xiaojuan</i>	Assessing Right Ventricular Function in Patients with Pulmonary Hypertension based on noninvasive measurements: correlation between cardiac MRI, ultrasonic cardiogram, multidetector CT and right heart catheterization
P 186	<i>Biesbroek, P. Stefan</i>	The Value of Cardiac Magnetic Resonance in the Prediction of Left Ventricular Function improvement following Acute Myocarditis
P 187	<i>Thompson, Alexandra</i>	Exclusion of prognostic coronary disease in LV dysfunction using late gadolinium enhancement CMR
P 188	<i>Timoh, Tendoh</i>	Prevalence of Cardiovascular Abnormalities in Obese Adults Referred for Bariatric Weight Loss Surgery
P 189	<i>Grebe, Olaf</i>	Correlation of electrocardiographic conduction abnormalities with myocardial fibrosis and scar in late enhancement
P 190	<i>Hegde, Vinayak</i>	Cardiac Structural Predictors of Ventricular tachycardia...Looking beyond ejection fraction and ventricular scar.
P 191	<i>Selvanayagam, Joseph</i>	Cardiovascular Magnetic Resonance GUIDEd management of mild-moderate left ventricular systolic Heart Failure (CMR GUIDE HF): study protocol for a randomised controlled trial
P 192	<i>Esteban-Fernández, Alberto</i>	Stress cardiac magnetic resonance: follow-up of patients with intermediate-high cardiovascular risk.
P 193	<i>Esteban-Fernández, Alberto</i>	Adenosine cardiac magnetic resonance: follow-up of patients with very high cardiovascular risk.
P 194	<i>Nordlund, David</i>	Performance of Contrast Enhanced SSFP and T2-weighted imaging for determining Myocardium at Risk in a Multi-vendor, Multi-center setting - Data from the MITOCARE and CHILL-MI trials
P 195	<i>Quail, Michael</i>	CMR Derived Central Aortic Systolic Pressure is a Superior Predictor of Afterload in Repaired Coarctation
P 196	<i>Valverde, Israel</i>	3D printed cardiovascular models for surgical planning in complex congenital heart diseases
P 197	<i>Menon, Prahlad</i>	Interactive pre-surgical design of optimal extra-cardiac Fontan connections starting with cardiac MRI reconstructions of the Glenn anastomosis.
P 198	<i>Moore, Tyler</i>	Co-registration of 3D Echo and MR Data To Create Physical Models of Congenital Heart Malformations
P 199	<i>Urbina, Jesus</i>	A realistic MR compatible aortic phantom to validate hemodynamic parameters from MRI data: aortic coarctation patients comparison using catheterization
P 200	<i>Pluchinotta, Francesca R.</i>	Right Ventriculo-Arterial Coupling in Repaired Fallot Patients with Pulmonary Valve Regurgitation Before and After Pulmonary Valve Implantation: a CMR Study.
P 201	<i>Muthusami, Prakash</i>	Reduced fetal cerebral oxygen consumption is associated with abnormal white matter in newborns with congenital heart disease.
P 202	<i>Kutty, Shelby</i>	Myocardial Deformation Assessed by Longitudinal Strain: Chamber-Specific Normative Data for CMR-Feature Tracking from the German Competence Network for Congenital Heart Defects
P 203	<i>SOULAT, Gilles</i>	Valsalva sinus asymmetry in bicuspid aortic valve: diameter through fused cusp is smaller than diameter through nonfused cusp but maximal diameter is the same whatever the phenotype when estimated by CMR.
P 204	<i>Rodriguez Castellanos, Luis</i>	"Aortic Wall Abnormalities in Patients with Aortic Coarctation"
P 205	<i>Saini, Brahmdeep</i>	Assessment of MRI Parameters for Studying Brain Development in Newborns with Congenital Heart Disease
P 206	<i>Buddhe, Sujatha</i>	Comparison of Left Ventricular Function Assessment between Echocardiography and MRI in Duchenne Muscular Dystrophy
P 207	<i>Kutty, Shelby</i>	Assessment of Ventriculo-Vascular Properties in Repaired Coarctation Using Cardiac MRI Derived Aortic, Left Atrial and Left Ventricular Strain.

POSTER DIRECTORY

P 208	<i>Whitehead, Kevin</i>	Relationship between Leg Lean Mass Z-Score and Cardiac Output at Exercise as Measured by Exercise Cardiac Magnetic Resonance Imaging
P 209	<i>Secinaro, Aurelio</i>	Correlation between RVOT sizing and RV function and volumes in patients with repaired tetralogy of Fallot undergoing routine CMR follow-up: is there a better candidate for percutaneous pulmonary valve implantation?
P 210	<i>Garg, Ruchira</i>	Remote Delivery of Congenital Cardiac Magnetic Resonance Imaging Services, A Unique Telemedicine Model
P 211	<i>Noel, Cory</i>	Regadenoson as a Pharmacologic Stressor in Cardiac Magnetic Resonance Imaging in Congenital and Acquired Pediatric Heart Disease: Initial Experience
P 212	<i>Noel, Cory</i>	Prospective Evaluation of Circumferential and Longitudinal Strain in Asymptomatic Children with Dual Ventricles who underwent Single Ventricle repair: comparison to Single LV, Single RV and Normal Hearts
P 213	<i>Raj, Vimal</i>	Prevalence of Congenital Coronary Artery Abnormalities in South Asian Patients With Pulmonary Stenosis and VSD
P 214	<i>Cossor, Waseem</i>	Three-Dimensional Changes in Regional Right Ventricular Curvature and Function in Tetralogy of Fallot
P 215	<i>Alizadeh Sani, Zahra</i>	Correlation of fragmented QRS with right ventricular indexes and fibrosis in patients with repaired tetralogy of fallot, by cardiac magnetic resonance imaging
P 216	<i>Kharabish, Ahmed</i>	Intraindividual Validation of 4D Flow Measurement against 2D Flow Measurements in aortas with bicuspid or tricuspid valves by Cardiovascular Magnetic Resonance (CMR)
P 217	<i>Zhu, Ming</i>	Evaluation of the congenital air way malformation in children with congenital heart disease using cardiac MR
P 218	<i>Sato, Keisuke</i>	CMR-based Planning of Catheter and Surgical Interventions for aortopulmonary collaterals before Fontan Completion: Pilot Study of 5 cases
P 219	<i>Velasco Forte, Maria</i>	Papillary Muscles in Borderline Left Ventricles: Morphological differences compared to normal
P 220	<i>Zhu, Ming</i>	Fetal Cardiac MRI
P 221	<i>Heng, Ee Ling</i>	The utility of free-breathing, motion-corrected late gadolinium enhancement for right ventricular fibrosis imaging in congenital heart disease
P 222	<i>Raj, Vimal</i>	Prevalence and Pattern of Total and Partial Anomalous Pulmonary Venous Connection in Indian Patients with Congenital Heart Disease
P 223	<i>Rutz, Tobias</i>	Progressive right ventricular dilatation after repair of tetralogy of Fallot: myth or reality? A single center evaluation by repeat cardiovascular magnetic resonance over 37 months
P 224	<i>Zhu, Ming</i>	Evaluation of fetal congenital persistence of the left superior vena cava using fetal MR
P 225	<i>Ip, Janice</i>	Use of 3D Prototyping in Congenital Cardiovascular Diseases - Initial Experience in Hong Kong

COST EFFECTIVENESS AND COMPARISON TO OTHER MODALITIES

P 226	<i>Cavalcante, Joao</i>	The Association of Global Longitudinal and Global Circumferential Strain with Ejection Fraction in Patients with Aortic Stenosis and Increased Left Ventricular Mass: A Feature Tracking CMR Study
P 227	<i>Sierra-Galan, Lilia</i>	Diagnostic Accuracy of Cardiac MRI in Hemodynamically Unstable Patients with Valvular Heart Disease When Echocardiogram Fails Compared to Surgical Findings.
P 228	<i>Muehlberg, Fabian</i>	A multi-center Cardiovascular Magnetic Resonance network for tele-training, tele-supervision and knowledge sharing
P 229	<i>Kassis, Hayah</i>	Is There A Potential Role for CMR in Deciding Appropriateness for AICD Placement?
P 230	<i>Bhagirath, Pranav</i>	Cost and efficiency benefits of a single modality imaging strategy for pre-procedural workup of AF catheter ablation
P 231	<i>Takx, Richard</i>	Myocardial perfusion MRI compared to fractional flow reserve: a Meta-Analysis
P 232	<i>Kunze, Karl</i>	Measuring the expansion of myocardial extracellular volume using quantitative perfusion imaging: Validation with T1 mapping and simultaneous 18FDG-PET in patients after acute myocardial infarction

EP AND INTERVENTIONAL APPLICATIONS

P 233	<i>Kholmovski, Eugene</i>	Change in scar visibility in LGE-MRI with time after RF ablation procedure
P 234	<i>Cabrera Lozoya, Rocío</i>	Local late gadolinium enhancement features to identify the electrophysiological substrate of post-infarction ventricular tachycardia: a machine learning approach
P 235	<i>Rogers, Toby</i>	Realtime MR guided endomyocardial biopsy with an active visualization bioprobe
P 236	<i>Campbell-Washburn, Adrienne</i>	Two channel passive visualization of a nitinol guidewire with iron markers
P 237	<i>Chen, Yue</i>	Intra-cardiac MR Imaging & MR-Tracking Catheter for Improved MR-Guided EP
P 238	<i>Ahmed, Nauman</i>	Cardiovascular Magnetic Resonance Imaging in Patients with MR-conditional devices: a UK tertiary centre experience on image quality and change in patients management

POSTER DIRECTORY

P 239	Varela, Marta	3D High-Resolution Atrial Wall Thickness Maps using Black-Blood PSIR
P 240	Biederman, Robert	Considerations on Imaging the PM/AICD Patient; are We Entering a New Era? An Evolutionary Report of our first 100 Patients.
P 241	Mukai, Kanae	Does the Presence of an Implanted Cardiac Device Adversely Affect the Image Quality of Clinically Indicated Magnetic Resonance Imaging at 1.5T?
P 242	Ding, Haiyan	High-Resolution Whole-Heart 3D T2 Mapping Can Assess Tissue Heterogeneity of Chronic MI in Swine
P 243	Zhang, Shelley	Gradient-Induced Voltages on 12-lead ECGs during High-Duty-Cycle MRI Sequences and a Theoretically-based Method to Remove Them
P 244	Fernando, Rajeev	Correlation of scar localization between cardiac magnetic resonance imaging and electro-anatomic mapping at electrophysiology study in patients with cardiac rhythm management devices

METABOLISM, SPECTROSCOPY, AND HYPERPOLARIZED MRI

P 245	Lin, Gigin	Monitoring myocardial triglyceride components in heart failure patients by using 1H-MRS
P 246	Sai, Eiryu	Myocardial Triglyceride Content in Patients with Left Ventricular Hypertrophy: Comparison between Hypertensive Heart and Hypertrophic Cardiomyopathy
P 247	Schaller, Benoit	Myocardial skeletal muscle signal spoiling using a crusher coil: a human cardiac phosphorus (31P) MR spectroscopic imaging study at 7 tesla
P 248	Rodgers, Christopher	Human cardiac 31P magnetic resonance spectroscopy at 3T with a receive array: is single-loop or dual-loop RF transmission superior?
P 249	Stoll, Victoria	7T versus 3T phosphorous magnetic resonance spectroscopy in patients with dilated cardiomyopathy.
P 250	Kuo, Yung-Chih	Cationic solid lipid nanoparticles with surface 5-HT-moduline are efficacious nanocarriers to target endothelial cells for potential cardiac imaging
P 251	Springer, Charles	Metabolic Imaging of In Vivo Myocardium

MOLECULAR IMAGING; CONTRAST AGENTS

P 252	Stirrat, Colin	Ultrasmall Superparamagnetic Particles of Iron Oxide-enhanced Magnetic Resonance Imaging in the Assessment of Cellular Inflammation after Myocardial Infarction.
P 253	Chatterjee, Neil	Measurement of myocardial blood volume and water exchange using ferumoxytol
P 254	Tachibana, Atsushi	Direct measurement of myocardial viability by manganese-enhanced MRI (MEMRI) tracks the regenerative effects by human pluripotent stem cell derived cardiomyocytes (hPCMs)
P 255	Mochula, Olga	Use of contrast-enhanced MRI of the heart in detection of risk of supraventricular tachyarrhythmias in patients with recent myocardial infarction
P 256	Maximova, Alexandra	Contrast-enhanced MRI of aortic atherosclerosis: syndrome types and prediction of dissection
P 257	McDiarmid, Adam	Split Dose versus Single Bolus Gadolinium Administration in ECV Calculation at 3 Tesla CMR
P 258	Castets, Charles	Fast and robust 3D T1 mapping using spiral gradient shape and continuous radio-frequency excitation at 7 T : Application on cardiac Manganese Enhanced (MEMRI) MRI in mice.

NON-ISCHEMIC HEART DISEASE - PRIMARY AND SECONDARY CMP

P 259	Ahearn, Trevor	Dynamic Changes of the Extracellular Matrix after Acute Tako-tsubo Cardiomyopathy
P 260	Quyam, Sadia	Characterisation of anthracycline cardiotoxicity in long-term childhood cancer survivors using conventional and novel CMR techniques: probing the pathology.
P 261	Schmidt, Anna	Diffuse Myocardial Fibrosis and Early Strain Abnormalities in Asymptomatic Type 2 Diabetics Without Overt Cardiovascular Disease
P 262	Uretsky, Seth	Discordance Between MRI and Echocardiography in the Assessment of Mitral Regurgitation Severity: Prediction of Surgical Response Suggests MRI May Be More Accurate
P 263	Jensen, Patrick	Native T1 is predictive of abnormal myocardial strain in hypertrophic cardiomyopathy.
P 264	Galea, Nicola	Evaluation of early myocardial damage in systemic sclerosis (SSc): a Cardiovascular Magnetic Resonance study.
P 265	Bohnen, Sebastian	Comparison of short and long axis T1 and ECV maps in patients with myocarditis
P 266	Zhao, Lei	T1 mapping by CMR in patients with arrhythmic cardiomyopathy
P 267	TOUSSAINT, Marcel	Myocardial characterisation in Becker muscular dystrophy using T1 and T2 mapping.
P 268	Avanesov, Maxim	Size of myocardial fibrosis by LGE, pre- and post-contrast T1 and ECV in patients with hypertrophic cardiomyopathy referenced to normal appearing myocardium or healthy volunteers

POSTER DIRECTORY

P 269	<i>Steinmetz, Michael</i>	Cardiac magnetic resonance imaging in pediatric patients ≤ 18 years with suspected arrhythmogenic right ventricular cardiomyopathy (ARVC): a correlation to genetics
P 270	<i>Rodriguez Castellanos, Luis</i>	Cardiac magnetic resonance differences in ventricular function and delayed enhancement according to clinical presentation in Chagas disease
P 271	<i>Ferreira, Vanessa</i>	Multi-parametric cardiovascular magnetic resonance imaging detects subclinical myocardial involvement in patients diagnosed with pheochromocytoma
P 272	<i>Liu, Rebecca</i>	A subset of hypertrophic cardiomyopathy patients is predisposed to angulated septum
P 273	<i>Wang, Chunhua</i>	Non-contrast T1rho CMR for hypertrophic cardiomyopathy
P 274	<i>Reant, Patricia</i>	CMR detects abnormal Septal Convexity into the Left Ventricle in Preclinical Hypertrophic Cardiomyopathy
P 275	<i>Ng, Ming-Yen</i>	Relationship between MRI Derived Right Ventricular Mass and Left Ventricular Involvement in Patients with Anderson-Fabry Disease
P 276	<i>Chang, Yu-Pin</i>	MRI assessment of Cardiomyopathy in Taiwan Chinese Late-onset Fabry mutation (IVS4+919G>A)
P 277	<i>Buckert, Dominik</i>	Early Detection of Myocardial Involvement in Idiopathic Inflammatory Myopathies Detected by Cardiac Magnetic Resonance Imaging
P 278	<i>Lee, Sang-Chol</i>	Prevalence and characteristics of apical aneurysm in hypertrophic cardiomyopathy: A prospective analysis of cardiac magnetic resonance findings and clinical outcomes
P 279	<i>Subramanian, Sharath</i>	Effect of Pulmonary Function on Right Heart function in Duchenne Muscular Dystrophy Patients
P 280	<i>Scally, Caroline</i>	Right Ventricular Involvement in Tako-tsubo Cardiomyopathy – insights from cardiovascular magnetic resonance
P 281	<i>She, Helen Hoi Lam</i>	Cardiac MRI Predictors for Development of Atrial Fibrillation or Flutter in Patients with Hypertrophic Cardiomyopathy
P 282	<i>Eriksson, Jonatan</i>	Left ventricular hemodynamic forces are altered in patients with dilated cardiomyopathy
P 283	<i>McLeod, Kristin</i>	Statistical analysis of ventricular shape of ARVC patients and correlation with clinical diagnostic indices
P 284	<i>Kato, Shingo</i>	Initial Evidence of Presence of Papillary Muscle Diffuse Fibrosis in Patients with Cardiomyopathy
P 285	<i>Erhayiem, Bara</i>	Newly diagnosed, treatment-naïve patients with rheumatoid arthritis have early abnormalities of vascular and myocardial function
P 286	<i>Pérez-David, Esther</i>	Impact of left ventricular late enhancement on pulmonary arterial hypertension in idiopathic dilated cardiomyopathy.
P 287	<i>Patel, Jyoti</i>	Regional Diffuse Fibrosis and Strain Characteristics Differ Between Children with Hypertrophic and Dilated Cardiomyopathy
P 288	<i>Im, Dong Jin</i>	Extracellular Volume Fraction in Dilated Cardiomyopathy Patients Without Obvious Late Gadolinium Enhancement: Comparison With Healthy Control Subjects
P 289	<i>Chen, Yucheng</i>	High signal intensity on T2 weighted cardiac magnetic resonance imaging in hypertrophic cardiomyopathy: Is it a marker of myocardial injury?
P 290	<i>Liberato, Gabriela</i>	Myocardial extracellular volume fraction and myocardial fibrosis by CMR in patients with severe aortic stenosis
P 291	<i>Goitein, Orly</i>	Role of C Reactive Protein in Evaluating the Extent of Myocardial Inflammation in Acute Myocarditis
P 292	<i>Galea, Nicola</i>	Validation of early myocardial gadolinium enhancement (EGE) evaluation with “Lake Louise consensus” criteria in patients with suspected myocarditis using a single bolus of 0.1 mmol/Kg of a high relaxivity gadolinium-based contrast agent.
P 293	<i>Assunção Jr, Antonildes</i>	Age-related creatinophosphokinase and myocardial fibrosis changes in patients with Muscular Dystrophy
P 294	<i>Ostenfeld, Ellen</i>	Regional contributions to ventricular stroke volumes are affected on the left side, and not on the right in patients with pulmonary hypertension.
P 295	<i>Jacquier, Alexis</i>	Value of ECV quantification in PAH: correlation with echocardiographic, MRI and serum biomarkers.
P 296	<i>Angheloiu, George</i>	CMR characterization of atrioventricular inflow in constrictive pericarditis – findings of blood impact physiology.
P 297	<i>Erhayiem, Bara</i>	Abnormal left ventricular geometry is prevalent in asymptomatic patients with established rheumatoid arthritis compared with those with early disease and healthy controls
P 298	<i>Abarca, Cielmar</i>	Valvular Disease in Patients with Active SLE and Clinical Suspicion of Acute Myocarditis: Assessment by Cardiovascular Magnetic Resonance
P 299	<i>Lu, Minjie</i>	CMR Assessment of Hypertrophic Cardiomyopathy with Restrictive Phenotype
P 300	<i>Angheloiu, George</i>	Basal antero-septal anomalous papillary muscle in hypertrophic obstructive cardiomyopathy
P 301	<i>Choe, Yeon Hyeon</i>	Quantification of left ventricular trabeculae using cardiac magnetic resonance imaging for the diagnosis of left ventricular non-compaction

POSTER DIRECTORY

P 302	Mayr, Agnes	Cardiac magnetic resonance T2 relaxometry in acute myocarditis Correlations with myocardial function and cardiac biomarkers
P 303	AlJaroudi, wael	Appropriateness and Diagnostic Yield of Cardiac Magnetic Resonance Imaging from a Tertiary Referral Center in the Middle East
P 304	Tahir, Enver	"Soccer player's heart": Assessment of left ventricular adaptation by cardiac magnetic resonance imaging.
P 305	Lyen, Stephen	Comparison of blood pool thresholding to manual contouring of the right ventricle in patients with suspected ARVC.
P 306	Teraoka, Kunihiro	The study about the difference of Extra Cellular Volume calculated with T1mapping in Dilated Cardiomyopathy with and without Late Gadolinium Enhancement
P 307	Jacquier, Alexis	Hypertrophic cardiomyopathy and fibrosis: Correlation between Late Gadolinium Enhancement on CMR and Speckle Tracking Imaging using Ultrasound.
P 308	Kammerlander, Andreas	Extracellular matrix expansion by cardiac Magnetic Resonance T1 Mapping- Validation with Myocardial Biopsy
P 309	Mahmod, Masliza	Cardiac steatosis and left ventricular remodeling in heart failure with reduced and preserved ejection fraction
P 310	Charles, Roux	T1 Mapping in Cushing's Disease: A follow-up study
P 311	Andrade Gomes, Hélder	Parameters of Right Ventricle as etiological distinction between ischemic and non-ischemic Dilated Cardiomyopathy

NON-ISCHEMIC HEART DISEASE - OTHER

P 312	Abdel-Gadir, Amna	Myocardial Iron Quantification Using T2* And Native T1mapping - A 250 Patient Study
P 313	Singh, Anvesha	Myocardial T1 and extracellular volume fraction measurement in asymptomatic patients with aortic stenosis: reproducibility and comparison with age-matched controls.
P 314	Murphy, Ian	A novel comprehensive classification system for bicuspid aortic valve morphology at cardiac MRI and initial results in 368 patients
P 315	Schmacht, Luisa	Cardiac involvement of myotonic dystrophy type II in patients with preserved ejection fraction – Detection by CMR
P 316	xiangli, wei	Late Gadolinium Enhancement by Cardiovascular Magnetic Resonance Provides Prognostic Information in Symptomatic Alcoholic Cardiomyopathy
P 317	Muthukumar, Lakshmi	Association of reduced right ventricular global and regional wall motion with abnormal right heart hemodynamics
P 318	Memon, Shermeen	Left ventricular noncompaction as diagnosed by established cardiac magnetic resonance imaging criteria is not associated with increased adverse events compared to non-ischemic dilated cardiomyopathy.
P 319	Bönnner, Florian	T2-Mapping CMR increases the diagnostic sensitivity for detection of myocardial inflammation in patients with possible myocarditis – A prospective endomyocardial biopsy-controlled study.
P 320	Singh, Anvesha	Effect of late sodium current inhibition on MRI measured diastolic dysfunction and myocardial perfusion reserve in aortic stenosis: A pilot study.
P 321	Weigand, Justin	Feature Tracking Derived Longitudinal and Circumferential Myocardial Strain Abnormalities in Clinical Myocarditis
P 322	Ciuffo, Luisa	Assessment of Left Atrial Systolic Dyssynchrony in Paroxysmal Atrial Fibrillation and Heart Failure using Cardiac Magnetic Resonance Imaging: MESA Study
P 323	Rodrigues, Jonathan	Phenotyping patterns of left ventricular remodeling and hypertrophy in systemic hypertension by cardiac magnetic resonance (CMR).
P 324	Rodrigues, Jonathan	Improving the poor diagnostic accuracy of the ECG at detecting prognostically significant left ventricular hypertrophy in hypertensive patients.
P 325	Rodrigues, Jonathan	Are systolic function and ejection fraction interchangeable? New insights from cardiovascular magnetic resonance and in-vivo validation of mathematical models of LV function.
P 326	Gonzalez, Jorge	ShMOLLI and 5(4R) 3 MOLLI T1 mapping in HCM detect similar ECV despite a difference in absolute T1 measurements
P 327	Kukar, Nina	Incremental Diagnostic Utility of Delayed Enhancement CMR Tissue Characterization for Detection of Catheter Associated Right Atrial Thrombus
P 328	Waller, James	Insights from T1 mapping in heart failure
P 329	Lagerstrand, Kerstin	Adjustment of the velocity encoding parameter to the blood flow velocity is not necessary for accurate and precise quantification of aortic regurgitation severity with phase contrast magnetic resonance imaging
P 330	Bissell, Malenka	Haemodynamic flow abnormalities in bicuspid aortic valve disease improve with aortic valve replacement

POSTER DIRECTORY

P 331	<i>Kociemba, Anna</i>	Detection of myocardial edema with diffusion weighted imaging in patients with acute myocarditis.
P 332	<i>Dobson, Laura</i>	Gender influences left ventricular remodelling in the setting of aortic stenosis but does not appear to impact on reverse remodelling following transcatheter aortic valve implantation
P 333	<i>Watanabe, Eri</i>	Prevalence and characteristics of myocardial crypts in Japanese patients referred for cardiovascular magnetic resonance
P 334	<i>Chungsomprasong, Paweena</i>	Comparison of presentation and disease progression between gene positive and gene negative patients evaluated for arrhythmogenic right ventricular cardiomyopathy
P 335	<i>Maragiannis, Dimitrios</i>	Cardiac MRI Functional Assessment of Bioprosthetic Mitral Valves: An In Vitro Comparison against Doppler Echocardiography
P 336	<i>Maragiannis, Dimitrios</i>	Bioprosthetic Mitral Valve Effective Orifice Area using 4D Flow Cardiac Magnetic Resonance derived Time Velocity Integral. An in vitro comparison with Doppler Echocardiography
P 337	<i>Bui, An</i>	Cardiac Magnetic Resonance Evidence of Diffuse Myocardial Fibrosis in Patients with Mitral Valve Prolapse
P 338	<i>Hussain, Nehal</i>	Interventricular septal angle can be used to predict which patients have combined postcapillary or precapillary pulmonary hypertension in left heart disease
P 339	<i>Meloni, Antonella</i>	A prospective MRI study of left ventricular iron and function in Non-Transfusion-Dependent Thalassemia Intermedia Patients Treated with Desferrioxamine
P 340	<i>Schneeweis, Christopher</i>	Intraindividual comparison of circumferential strain using speckle tracking by echocardiography versus CMR feature tracking and myocardial tagging in patients.
P 341	<i>Dobson, Laura</i>	Left ventricular mass regression may occur very early following transcatheter aortic valve implantation for severe aortic stenosis.
P 342	<i>Vermes, Emmanuelle</i>	T1 mapping, ECV and ICV before and after aortic valve replacement
P 343	<i>Paelinck, Bernard</i>	Left ventricular remodeling following percutaneous edge-to-edge repair using Mitraclip
P 344	<i>Chen, Yucheng</i>	Role of Cardiac MRI-based multi-modality imaging in diagnosis and management of patients with cardiac mass
P 345	<i>Chrysohoou, Christina</i>	Myocardial fibrosis detected with Gadolinium Delayed Enhancement in Cardiac Magnetic Resonance Imaging is related with ArterioVentricular Coupling alterations in patients with Acute Myocarditis.
P 346	<i>Meloni, Antonella</i>	Left Ventricular Global Function Index and Left Ventricular Mass Volume Ratio By CMR: Relation with Heart Failure in Thalassemia Major Patients
P 347	<i>Pedrotti, Patrizia</i>	Comprehensive Myocardial Tissue Characterization With Cardiac Magnetic Resonance In Patients With Churg Strauss Syndrome
P 348	<i>Villanueva, Alejandra</i>	Myocardial Fibrosis Comparison by CMR between Genetically Positive HCM Patients with MYBPC3 and MYH7 Gene Mutations
P 349	<i>Bogaert, Jan</i>	Value of Cardiovascular Magnetic Resonance in Patients with Suspected Inflammatory Pericarditis
P 350	<i>Swift, Andrew</i>	Cardiac MRI characteristics in patients with borderline pulmonary hypertension: Results from the ASPIRE registry
P 351	<i>Kato, Shingo</i>	Native T1 Mapping Identifies Subclinical Left Ventricular Myocardial T1 Abnormality in Patients with Atrial Fibrillation Referred for Pulmonary Vein Isolation
P 352	<i>Fernando, Rajeev</i>	Epicardial adipose tissue volume by cardiac magnetic resonance imaging predicts abnormal myocardial relaxation in patients with atrial fibrillation
P 353	<i>Stone, Ian</i>	The Impact Of Chronic Obstructive Pulmonary Disease (COPD) And Its Associated Lung Hyperinflation On Cardiac Structure And Function
P 354	<i>Vermes, Emmanuelle</i>	T2-mapping and T1-mapping detect myocardial involvement in Tako-Tsubo cardiomyopathy: a preliminary experience
P 355	<i>RAISSUNI, Zainab</i>	Functional Left Atrial CMR Parameters are Early Predictors of Left Atrial Alterations in Hypertension and Strongly Associated with LV Remodeling.
P 356	<i>Kanagala, Prathap</i>	The many faces of HFPEF: insights from the CMR substudy of DIAMOND-HFPEF
P 357	<i>Meloni, Antonella</i>	MRI Prospective Survey on Cardiac and Hepatic Iron in Transfusion-Dependent Thalassemia Intermedia Patients Treated with Desferrioxamine, Deferiprone and Deferasirox
P 358	<i>Grunseich, Karl</i>	Left Atrial Late Gadolinium Enhancement and Mitral Regurgitation in Subjects with Atrial Fibrillation
P 359	<i>Nastase, Oana</i>	Evaluation of Myocardial Fibrosis with Cardiac Magnetic Resonance Contrast-Enhanced T1 Mapping in Adults Patients with Aortic Stenosis
P 360	<i>Raphael, Claire</i>	The clinical value of Cardiovascular Magnetic Resonance in patients with MR-conditional pacemakers
P 361	<i>Polte, Christian</i>	Indirect quantification of mitral regurgitation using cardiovascular magnetic resonance: A comparison of techniques

POSTER DIRECTORY

P 362	<i>Kalam, Kashif</i>	The role of cardiac MR in identifying annulus paradoxus, a specific marker for Constrictive Pericarditis.
P 363	<i>GILLES, Raymond</i>	Cardiac dyssynchrony in a Becker cohort: preliminary results.
P 364	<i>Kallifatidis, Alexandros</i>	The role of cardiac magnetic resonance imaging in the assessment of right ventricular function in patients with pulmonary arterial hypertension.
P 365	<i>Meloni, Antonella</i>	Prospective Changes of Cardiac Iron and Function By MR in Pediatric Thalassemia Major Patients Treated with Different Chelators or Not Chelated
P 366	<i>Bratis, Konstantinos</i>	CMR feature tracking in Kawasaki Disease convalescence
P 367	<i>Kolla, Bhaskar</i>	Cardiovascular imaging utilization rates and trends for chemotherapy related cardiomyopathy screening.
P 368	<i>Grunseich, Karl</i>	Left Atrial Volume, Congestive Heart Failure, and Obesity are Associated with Extent of Left Atrial Fibrosis by Late Gadolinium Enhancement
P 369	<i>Mohty, Dania</i>	Left Ventricular and Atrial Function in Systemic Light Chains Amyloidosis: an Echocardiography and Cardiac Magnetic Resonance Comparison
P 370	<i>Franklin, Bina</i>	Cardiac MRI for the Assessment of Early Chemotherapeutic Cardiac Injury and Toxicity
P 371	<i>Merchant, Tazim</i>	Myocardial Contractility and Afterload in Aortic Stenosis
P 372	<i>Sayegh, Bassel</i>	Epicardial Adipose Tissue Volume is Independently Associated with Aortic Root Size as Assessed by Cardiac Magnetic Resonance Imaging
P 373	<i>Kunimoto, Satoshi</i>	The prospective study of Cardiac MRI in the Diagnosis and Treatment of Cardiac Sarcoidosis associated with Atrioventricular Block
P 374	<i>El Fawal, Sara</i>	Report of a right ventricular outflow tract myxoma in a young adult.
P 375	<i>Biesbroek, P. Stefan</i>	Relationship between clinical features and the diagnostic value of CMR tissue characterisation in patients with clinically suspected myocarditis
P 376	<i>Meloni, Antonella</i>	Prospective Changes of Cardiac Iron and Function in Low and Intermediate-1 Risk MDS Patients
P 377	<i>Aquaro, Giovanni</i>	Cardiac Magnetic Resonance in Pericardial Disease
P 378	<i>Kobayashi, Yasuyuki</i>	Left Ventricular Morphology and Function in Rheumatoid Arthritis Patients without Cardiac Symptoms, Using a Cardiac Magnetic Resonance Imaging.
P 379	<i>Mordi, Ify</i>	Utility of Native T1 Mapping To Differentiate Between Athlete's Heart and Non-Ischemic Dilated Cardiomyopathy
P 380	<i>Kallianos, Kimberly</i>	Evaluation of myocardial fibrosis by post gadolinium T1 measurement in patients with pulmonary hypertension
P 381	<i>Serafim da Silveira, Juliana</i>	Aortic Stenosis assessment with a 3-Directional Phase Contrast Magnetic Resonance Technique. Comparison to Transthoracic Echocardiography.
P 382	<i>Coristine, Andrew</i>	Improved image quality in GRAPPA-accelerated coronary MRA using an outer volume suppressing 2D-T2-Prep
P 383	<i>MOULIN, Kévin</i>	In vivo free-breathing DTI & IVIM of the whole human heart using a real-time slice-followed SE-EPI navigator-based sequence: a reproducibility study in healthy volunteers.

RAPID, EFFICIENT IMAGING

P 384	<i>Riffel, Johannes</i>	Assessment of long axis shortening with cardiac magnetic resonance imaging A validation study with different techniques
P 385	<i>Chitiboi, Teodora</i>	Automatic Multi-cycle Analysis of Cardiac Function from Real-time MRI
P 386	<i>Szantho, Gergely</i>	Measuring ventricular volumes during exercise with vertical long axis cines
P 387	<i>Singh, Parmanand</i>	Routine Cine-CMR Segmentation via a Novel Automated Algorithm (LV-METRIC) for Assessment of Aortic Physiology: A Clinical Validation Study
P 388	<i>Aliotta, Eric</i>	Increased Maximum Gradient Amplitude Improves Robustness of Spin-Echo Cardiac Diffusion-Weighted MRI
P 389	<i>Chung, Sohae</i>	Whole-Heart T1-Mapping with Single Breath-Hold
P 390	<i>Elagha, Abdalla</i>	Mitral Valve E-Point to Septal Separation (EPSS) Measurement by Cardiac Magnetic Resonance Imaging as a Quantitative Surrogate of Left Ventricular Ejection Fraction (LVEF)
P 391	<i>Moghaddam, Abbas</i>	Distributed Compressed Sensing to Accelerate Cine Cardiac MRI
P 392	<i>Marino, Marco</i>	Objective Selection of Short-Axis Slices for Automated Quantification of Left Ventricular Size and Function by Cardiovascular Magnetic Resonance
P 393	<i>Hu, Bob</i>	Initial in vivo validation of real-time phase-contrast sequence
P 394	<i>Altmayer, Stephan</i>	CMR RV size assessment should include RV to LV volume ratio
P 395	<i>Roifman, Idan</i>	Comparison of a novel free breathing SSFP sequence with standard breath held SSFP- a pilot study

POSTER DIRECTORY

VASCULAR MRI

P 396	Noorani, Alia	Volumetric black-blood imaging of aortic dissection using T2 prepared inversion recovery
P 397	Timoh, Tendoh	Evaluation and Comparison of ECG-gated techniques at 1.5 T for contrast enhanced MR angiography of the thoracic aorta.
P 398	Khanji, Mohammed	Assessment of cardiovascular magnetic resonance aortic stiffness in patients with increased cardiovascular risk: Role of traditional risk factors and lung hyperinflation
P 399	Allen, Bradley	Beta-Blocker Therapy Does Not Reduce Ascending Aorta Wall Shear Stress in Patients with Bicuspid Aortic Valve
P 400	Hays, Allison	Decreased Coronary Artery Distensibility Measured Using 3T MRI is Related to Systemic Inflammation in Patients with Coronary Artery Disease
P 401	Sala, Michiel	CMR-assessed aortic arch stiffness is associated with brain tissue integrity assessed by diffusion tensor imaging in patients with hypertension
P 402	Fan, Zhaoyang	Cerebral venous thrombosis: direct thrombus imaging with sub-millimeter isotropic resolution dark-blood CMR
P 403	Morris, Shaine	Arterial Tortuosity and Change with Age in Young Patients with Aortopathy
P 404	Roy, Trisha	MRI characterization of peripheral arterial chronic total occlusions at 7 Tesla with microCT and histologic validation
P 405	Rodrigues, Jonathan	Insights from cardiovascular magnetic resonance imaging supporting the selfish brain hypothesis of arterial hypertension.
P 406	Englund, Erin	Structural and functional evaluation of the peripheral vasculature in patients with PAD using MRI
P 407	Erhayiem, Bara	Dilatation of the thoracic aorta and increased arterial stiffness is common in patients with giant cell arteritis - preliminary findings from a cardiac magnetic resonance study
P 409	Truong, Uyen	Increased aortic stiffness in adolescents with type 1 diabetes by cardiac magnetic resonance
P 410	Rapacchi, Stanislas	Steady-state 4D Flow using double gating: a healthy volunteer study
P 411	Rodrigues, Jonathan	Should we screen for intracranial aneurysms (IAs) in systemic hypertension at the time of cardiac magnetic resonance (CMR)?
P 412	Yang, Qi	Cervial Artery Dissection: Value of 3D High Resolution Vessel Wall Magnetic Resonance Imaging for Diagnosis and Follow-up.
P 413	Zhou, Xiangzhi	ECG Gated 3D Single Shot FSE with Variable TR for Non-contrast Peripheral MRA at 3T
P 414	Basar, Burcu	Stiffness-matched segmented metallic guidewire for interventional cardiovascular MRI
P 415	Stankevich, Yuliya	Hemodynamic effects of the carotid abnormalities courses by MRI and ultrasound
P 416	Grothoff, Matthias	Phase contrast 4D flow in bicuspid aortic valves in a porcine model
P 417	Chuang, Michael	Stage of Estimated Glomerular Filtration Rate (Kidney Function) Is Associated With Greater Prevalence and Burden of Aortic Plaque: The Framingham Heart Study
P 418	Tandon, Animesh	Improved High-Resolution Pediatric Vascular Imaging with Gadofosveset-Enhanced 3D Respiratory Navigated IR GRE Imaging Compared to 3D bSSFP Imaging

MODERATED POSTERS

M 01	<i>Keegan, Jennifer</i>	Remote Delivery of Congenital Cardiac Magnetic Resonance Imaging Services, A Unique Telemedicine Model
M 02	<i>Macdonald, Jacob</i>	MRI characterization of peripheral arterial chronic total occlusions at 7 Tesla with microCT and histologic validation
M 03	<i>Markl, Michael</i>	First-pass stress perfusion MR Imaging findings of apical hypertrophic cardiomyopathy: with relation to LV wall thickness and late Gadolinium-enhancement
M 04	<i>Jackson, Laurence</i>	Myocardial fibrosis detected with Gadolinium Delayed Enhancement in Cardiac Magnetic Resonance Imaging is related with ArterioVentricular Coupling alterations in patients with Acute Myocarditis.
M 05	<i>Zhang, Bing</i>	Appropriateness and Diagnostic Yield of Cardiac Magnetic Resonance Imaging from a Tertiary Referral Center in the Middle East
M 06	<i>Ainslie, Mark</i>	Asymmetric myocardial thickening in aortic stenosis
M 07	<i>Khanji, Mohammed</i>	Temporal and Spatial Characteristics of the Area at Risk Investigated using Computed Tomography and T1-weighted Magnetic Resonance Imaging
M 08	<i>Jakicic, John</i>	Quantification of Left Atrial Strain and Strain Rate using Cardiovascular Magnetic Resonance Myocardial Feature Tracking
M 09	<i>Lim, Jessie Mei</i>	Cardiac MRI vs. Myocardial 18F-FDG PET/CT in patients with Clinical Concern for Cardiac Sarcoid
M 10	<i>Zhou, Xiao</i>	Splenic switch-off, a potential novel marker of lack of adenosine response: prevalence and measurement reproducibility
M 11	<i>de Marvao, Antonio</i>	Cardiovascular Magnetic Resonance TE-Averaged Susceptibility Weighted Imaging of Reperfused Intramyocardial Hemorrhage
M 12	<i>Wong, James</i>	Reproducibility of Functional Aortic Analysis using MRI: The Multi-Ethnic Study of Atherosclerosis

WALKING POSTERS

Q001	<i>Mehmet Akçakaya</i>	Joint Myocardial T1 and T2 Mapping
Q002	<i>Emmanuel Ako</i>	MR augmented cardiopulmonary exercise testing – a novel method of assessing cardiovascular function
Q003	<i>Borja Ibanez</i>	Myocardial native T1 relaxation times are highly dependent on the blood T1 values.
Q004	<i>Alexandru Fredriksson</i>	4D flow CMR can detect subtle right ventricular dysfunction in primary left ventricular disease
Q005	<i>Rohan Wijesurendra</i>	Systolic ShMOLLI T1-mapping is feasible in tachyarrhythmia, with improved image quality compared to diastolic readout
Q006	<i>Vincent Wu</i>	Global diastolic function in endurance athletes: three-dimensional volume tracking of the mitral annulus with cine-CMR.
Q007	<i>Adrienne Siu</i>	Characterization of the ultra-short echo time magnetic resonance (UTE MR) collagen signal associated with myocardial fibrosis
Q008	<i>Jeremy Collins</i>	Cardiac MR feature tracking identifies abnormal biventricular global strain values in biopsy-proven non-ischemic cardiomyopathies
Q009	<i>Johannes Riffel</i>	Standardized assessment of global longitudinal and circumferential strain – A modality independent software approach
Q010	<i>Philip Kilner</i>	Histology of human myocardial laminar microstructure and consideration of its cyclic deformations with respect to interpretation of in vivo cardiac diffusion tensor imaging
Q011	<i>Zixin Deng</i>	Reproducibility of Phase-Contrast MRI in the Coronary Artery: Towards Noninvasive Pressure Gradient Measurement and Quantification of Fractional Flow Reserve
Q012	<i>Britta Butzbach</i>	Detection of myocardial scar using T2* in a clinical setting

WALKING POSTERS

Q013	<i>Sotirios Tsaftaris</i>	Dictionary learning for unsupervised identification of ischemic territories in CP-BOLD Cardiac MRI at rest
Q014	<i>Noor Ali</i>	Risk stratification of post-MI patients for ICD implantation using texture analysis to quantify heterogeneity of scar
Q015	<i>Adrienne Campbell-Washburn</i>	Positive contrast spiral imaging of a nitinol guidewire
Q016	<i>Michael Markl</i>	Impact of Cardiac Arrhythmia on Velocity Quantification by ECG gated Phase Contrast MRI
Q017	<i>Mikael Kanski</i>	Whole-heart 4D flow can be acquired with preserved quality without respiratory gating facilitating clinical use
Q018	<i>Florence PONTNAU</i>	Associations between native myocardial T1 and diastolic function evaluated by PC-CMR in patients with severe aortic valve stenosis
Q019	<i>Gerald Wisenberg</i>	Imaging of Post-Infarction Myocardial Inflammation with Hybrid FDG PET/MR: Feasibility and Preliminary Findings in a Canine Model
Q020	<i>Jan Paul</i>	Left Ventricular Motion Quantification Parameters from Tissue Phase Mapped MRI: Influence of Gender
Q021	<i>Junfei Lu</i>	Improved 2D slice-interleaved flow-independent cardiac black blood imaging using Ferumoxytol
Q022	<i>Zhe Wang</i>	The Effect of Free-breathing on Left Ventricular Rotational Mechanics in Normal Subjects and Patients with Duchenne Muscular Dystrophy
Q023	<i>Ee Ling Heng</i>	Pilot data of right ventricular myocardial T1 quantification by free-breathing fat-water separated dark blood saturation-recovery imaging
Q024	<i>Himanshu Gupta</i>	Left Ventricular Diastolic Dysfunction Index Based on Non-Invasive Measurements
Q025	<i>Michael Markl</i>	Real Time Flow Imaging in Atrial Fibrillation
Q026	<i>Shams Rashid</i>	Modified Wideband 3D Late Gadolinium Enhancement (LGE) MRI for Patients with Implantable Cardiac Devices
Q027	<i>Julio Sotelo</i>	3D quantification of hemodynamics parameters of pulmonary artery and aorta using finite-element interpolations in 4D flow MR data
Q028	<i>Shazia Hussain</i>	Quantitative assessment of myocardial mechanics in patients with cardiac amyloid using cardiovascular magnetic resonance myocardial feature tracking
Q029	<i>Aurelien BUSTIN</i>	Joint Denoising and Motion Correction: Initial Application in Single-Shot Cardiac MRI
Q030	<i>El-Sayed Ibrahim</i>	Evaluation of Ventricular Global Function from Tagged CMR Images
Q031	<i>Anca Florian</i>	Myocardial extracellular volume fraction (ECV) measurements based on T1-mapping in healthy monozygotic twins – another similarity or rather disagreement in twins?
Q032	<i>Shahryar Saba</i>	Characterization of cardiac masses with T1 mapping
Q033	<i>Daniel Giese</i>	In vitro evaluation of flow patterns and turbulent kinetic energy in trans-catheter aortic valve prostheses
Q034	<i>Zhe Wang</i>	Quantitative Left Ventricular Rotational Mechanics in Duchenne and Becker Muscular Dystrophy Patients
Q035	<i>Pierre Monney</i>	single breathhold, three-dimensional measurement of left atrial volume and function using sparse CINE CMR imaging with iterative reconstruction
Q036	<i>Peng Lai</i>	Sub-8-Minute Cardiac Four Dimensional Flow MRI using k _{at} ARC and Variable Density Signal Averaging
Q037	<i>James Goldfarb</i>	Cardiovascular Magnetic Resonance TE-Averaged Susceptibility Weighted Imaging of Reperfused Intramyocardial Hemorrhage
Q038	<i>Emmeline Calkoen</i>	High-temporal velocity-encoded MRI for the assessment of left ventricular inflow propagation velocity: head-to-head comparison with Color M-mode echocardiography.
Q039	<i>Jennifer Keegan</i>	Inter-study reproducibility of interleaved spiral phase velocity mapping of renal artery haemodynamics
Q040	<i>Stephan Altmayer</i>	Increased reproducibility in RV mass measurement at end-systole

WALKING POSTERS

Q041	<i>Jesse Hamilton</i>	Reducing scan time for calibration of through-time radial GRAPPA using PCA coil compression
Q042	<i>Markus Huellebrand</i>	Analysis of aortic blood-flow from ECG-free realtime PC MRI
Q043	<i>Gabriel Camargo</i>	Real-time Magnetic Resonance Cine Imaging with Sparse Sampling and Iterative Reconstruction for Ventricular Measures: Comparison with Gold-Standard Segmented Steady-State Free Precession
Q044	<i>J. Tim Marcus</i>	Increased native T1-values at the interventricular insertion regions of precapillary pulmonary hypertension patients
Q045	<i>Yang Yang</i>	Single breath-hold 3D LGE using stack of spiral trajectory
Q046	<i>Arash Haghighi</i>	Characterization of Peripartum Cardiomyopathy by cardiovascular magnetic resonance Imaging
Q047	<i>Jannike Nickander</i>	Native myocardial T1 precision is increased by correcting for myocardial blood variation
Q048	<i>Suzanne de Waha</i>	Impact of multivessel coronary artery disease on reperfusion success in patients with ST-elevation myocardial infarction - insights from cardiac magnetic resonance imaging
Q049	<i>Calvin Chin</i>	Asymmetric myocardial thickening in aortic stenosis
Q050	<i>Ily Mordi</i>	The Combined Incremental Prognostic Value of Left Ventricular Ejection Fraction, Late Gadolinium Enhancement and Global Circumferential Strain Assessed by Cardiovascular Magnetic Resonance
Q051	<i>Robert Jablonowski</i>	Regional adenosine-induced hypoperfusion without hyperenhancement on LGE-MRI in young HCM patients: comparison to subjects at risk of HCM and healthy volunteers
Q052	<i>David Carrick</i>	Pathophysiology of myocardial remodeling in survivors of ST-elevation myocardial infarction revealed by native T1 mapping: inflammation, remote myocardium and prognostic significance.
Q053	<i>Andrew Choi</i>	Clinical Impact of Cardiovascular Magnetic Resonance In Evaluation for Possible Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy
Q054	<i>Lysann Reinhardt</i>	Diagnostic Performance of T1- and T2-Mapping in HTx Patients to identify Acute Cellular Rejection (ACR) in Comparison to Conventional CMR Techniques and Endomyocardial Biopsy (EMB) as the Standard of Reference
Q055	<i>Eylem Levelt</i>	Adenosine stress native T1 mapping detects microvascular disease in diabetic cardiomyopathy, without the need for gadolinium-based contrast
Q056	<i>Alessandro Satriano</i>	4-Dimensional Strain Imaging of the Right Ventricle: Application in Patients with Severe Pulmonary Hypertension
Q057	<i>Cassi Binkley</i>	Children with obesity have cardiac remodeling and dysfunction: a cine DENSE magnetic resonance imaging study
Q058	<i>Alejandro Roldán-Alzate</i>	Non – Invasive Right Ventricular Efficiency using 4D flow MRI
Q059	<i>Raymond Chan</i>	Late Gadolinium Enhancement Score (LGE-Score) for Prediction of Extensive Late Gadolinium Enhancement in Hypertrophic Cardiomyopathy
Q060	<i>Adelina Doltra</i>	Assessment of wall-shear stress pre and post renal sympathetic nerve denervation in patients with resistant hypertension
Q061	<i>David Chen</i>	Three Slice Myocardial Coverage using Non-ECG-Triggered Perfusion Imaging with Integrated T1 Mapping for Quantifying Myocardial Blood Flow
Q062	<i>Jan Bogaert</i>	Impact of active smoking on myocardial infarction severity in reperfused ST-segment elevation myocardial infarction patients. The smoker's paradox revisited by CMR
Q063	<i>Ananth Kidambi</i>	Myocardial extracellular volume estimation by CMR predicts functional recovery following acute myocardial infarction
Q064	<i>Masashi Nakamura</i>	Quantitative Circumferential Strain Analysis using ATP-Stress/rest 3-Tesla Tagged Magnetic Resonance to Evaluate Regional Contractile Dysfunction in Ischemic Heart Disease
Q065	<i>Ntobeko Ntusi</i>	Impaired myocardial perfusion in rheumatoid arthritis is associated with impaired strain, strain rate, disease activity and myocardial oedema: a cardiovascular magnetic resonance study

WALKING POSTERS

Q066	<i>Jin Young Yoo</i>	First-pass stress perfusion MR Imaging findings of apical hypertrophic cardiomyopathy: with relation to LV wall thickness and late Gadolinium-enhancement
Q067	<i>Andreas Schuster</i>	Assessment of cardiovascular physiology using magnetic resonance myocardial stress testing reveals impaired contractile reserve in patients with cirrhotic cardiomyopathy
Q068	<i>Djeven Deva</i>	CMR demonstration of multiple morphological phenotypes in Anderson-Fabry disease
Q069	<i>Andreas Ochs</i>	LV rotational mechanics in patients with dilated cardiomyopathy compared to healthy individuals: Experience from the European CMR Registry
Q070	<i>Orly Goitein</i>	The Accuracy of Cardiac MRI in Differentiating between Intra Cardiac Tumors and Thrombi
Q071	<i>Ntobeko Ntusi</i>	Impaired myocardial perfusion is associated with extracellular volume expansion, disease activity and impaired strain and strain rate in systemic sclerosis: a cardiovascular magnetic resonance study
Q072	<i>Claire Raphael</i>	Wave intensity analysis and assessment of myocardial perfusion abnormalities in patients with hypertrophic cardiomyopathy
Q073	<i>Yumiko Kanzaki</i>	Low T2-star (T2*) Signals in Cardiac MR imaging in Patients with Dilated Cardiomyopathy and Sarcoidosis
Q074	<i>Eloisa Feliu</i>	Arrhythmogenic Cardiomyopathy. Let's have a closer look to the left ventricle: Report of our experience
Q075	<i>Constanze Merten</i>	Cardiac Involvement in Hypereosinophilic Syndromes Detected by Cardiac Magnetic Resonance Imaging
Q076	<i>Riikka Rydman</i>	Predicting atrial tachycardia and major cardiovascular events in adults with unrepaired Ebstein's anomaly of the tricuspid valve
Q077	<i>Christian Meierhofer</i>	Importance of hemodynamic RV and LV parameters and CPET-results in patients with Tetralogy of Fallot
Q078	<i>Julio Sotelo</i>	Pressure Gradient Prediction in Aortic Coarctation Using a Computational-Fluid-Dynamics Model: Validation against invasive pressure catheterization at rest and pharmacological stress.
Q079	<i>Inga Voges</i>	Evidence for aortopathy of the native descending aorta in children with hypoplastic left heart syndrome
Q080	<i>Nicholas Burris</i>	Aortic Stiffness with Bicuspid Aortic Valve Is Variable and Not Predicted By Conventional Parameters in Young Patients
Q081	<i>Shiraz Maskatia</i>	Improved Right Ventricular Outflow Tract Function in Patients with Tetralogy of Fallot after Infundibular Sparing Compared to Transventricular Repair
Q082	<i>Kai Laser</i>	Impact of Oxygen as a Vasodilator on Respiration-related Fontan Hemodynamics assessed by Real-time Phase-velocity MRI
Q083	<i>Anca Florian</i>	Cardiac abnormalities in patients with two different mitochondrial myopathy syndromes as detected by cardiovascular magnetic resonance imaging
Q084	<i>Shelby Kutty</i>	Abnormal Right Atrial Performance in Surgically Repaired Tetralogy of Fallot: The German Competence Network for Congenital Heart Defects Investigators
Q085	<i>Sigurdur Stephensen</i>	Factors determining exercise capacity in patients with atrial septal defect: assessment of heart function with CMR during dobutamine stress
Q086	<i>Sigurdur Stephensen</i>	Alterations in right ventricular pumping in patients with atrial septal defect at rest and during dobutamine stress
Q087	<i>Naira Mkrtchyan</i>	Collateral flow quantification by cardiovascular magnetic resonance during continuous submaximal exercise in patients with total cavo-pulmonary connection
Q088	<i>Gerald Greil</i>	Technical and anatomical factors affecting the size of the branch pulmonary arteries following first stage Norwood palliation for HLHS.
Q089	<i>Eugenie Riesenkampff</i>	Left ventricular extracellular volume is associated with loss of exercise tolerance in children after Tetralogy of Fallot repair, but not with ventricular dysfunction
Q090	<i>Anca Florian</i>	Differences in cardiac involvement between carriers of Duchenne and Becker muscular dystrophy – a cardiovascular magnetic resonance study

WALKING POSTERS

Q091	<i>Abdullah AL Bulushi</i>	Analysis of RV components after reoperation of the right ventricular outflow tract in patients with Tetralogy of Fallot
Q092	<i>Shabnam Madadi</i>	Pulmonary artery end-diastolic forward flow as a predictor of Pulmonary valve replacement surgery complication in patients with tetralogy of fallot total correction
Q093	<i>Albert Hsiao</i>	Improved quantification of absolute and differential pulmonary flow with highly-accelerated 4D-PC MRI
Q094	<i>Magalie Ladouceur</i>	Atrio-ventricular coupling in patients with transposition of the great arteries after atrial switch by Magnetic Resonance Imaging.
Q095	<i>Attila Tóth</i>	Detecting trabecules of the systemic right ventricle during quantification yields better correlation with flow measurement derived data
Q096	<i>Ines Kristo</i>	Left ventricular remodeling in children and young adults with aortic coarctation two decades after surgical repair
Q097	<i>Alejandro Roldán-Alzate</i>	Kinetic Energy Efficiency of Single Ventricle and TCPC using 4D Flow MRI
Q098	<i>Tim Slesnick</i>	3D Contrast Enhanced Self Navigated Inversion Recovery Gradient Echo Coronary Imaging in Pediatric Patients
Q099	<i>Jimmy Lu</i>	Use of a 1.0 Tesla open scanner for cardiovascular magnetic resonance evaluation of pediatric and congenital heart disease
Q100	<i>Israel Valverde</i>	NT-proBNP as a biomarker of right ventricular dilatation and pulmonary regurgitation in Tetralogy of Fallot
Q101	<i>Pierluigi Festa</i>	Evaluation of Aorto-Pulmonary Collaterals in Glenn and Fontan Patients
Q102	<i>Anne Marie Valente</i>	Cardiac Magnetic Resonance Imaging Predictors of Atrial Arrhythmias in Patients with Repaired tetralogy of Fallot
Q103	<i>Joseph Camarda</i>	Co-Registered MR Tissue Phase Mapping and Speckle Tracking Echocardiography: Inter-Modality Comparison of Regional Myocardial Velocities in Pediatric Patients
Q104	<i>Gianluca Trocchio</i>	The right atrium value in patients operated for tetralogy of Fallot.
Q105	<i>Johannes Kowallick</i>	Noninvasive estimation of pulmonary outflow tract obstruction: A comparative study of phase contrast CMR and Doppler echocardiography versus cardiac catheterization.
Q106	<i>Ikechukwu (Ikay) Okafor</i>	A physiologic flow phantom for the evaluation of 4D flow MRI in the left ventricle
Q107	<i>Sean Hamlet</i>	The effect of respiratory gating strategy on left ventricular cardiac strains with DENSE
Q108	<i>Marcel Prothmann</i>	Cardiovascular Magnetic Resonance at 7.0 Tesla in Patients with Hypertrophic Cardiomyopathy - A Pilot Study
Q109	<i>Laura Iacuzio</i>	Initial Experience for First Pass Cardiac Perfusion with Iterative Reconstruction in Patients
Q110	<i>Gobinath Nadesalingam</i>	The relationship of hemoglobin concentration and signal intensity changes in oxygenation-sensitive cardiovascular magnetic resonance imaging
Q111	<i>Alkystis Phinikaridou</i>	Increased vascular permeability is a surrogate marker of atherosclerotic plaque instability
Q112	<i>Constantin von Deuster</i>	A reference dataset of in-vivo human left-ventricular fiber architecture in systole and diastole
Q113	<i>Gergely Szantho</i>	Cardiac pre-load alteration with MRI-compatible lower body suction device
Q114	<i>Christopher Haggerty</i>	Left ventricular mechanical dysfunction in obesity is exacerbated during inotropic stress cine DENSE CMR in mice
Q115	<i>Tiago Teixeira</i>	Breathing maneuvers as a metabolic coronary vasodilator for first-pass perfusion MR imaging
Q116	<i>Mohamad Ghosn</i>	Examining the Relationship between Cardiac Troponin T and Cardiac Morphology, Function, and Fibrosis – A Cardiac Magnetic Resonance Study
Q117	<i>Archontis Giannakidis</i>	Transmural gradients of preferential diffusion motility in the normal rat myocardium characterized by diffusion tensor imaging

WALKING POSTERS

Q118	<i>Jonathan Grabau</i>	Low encoding frequencies accurately quantify cardiac mechanics while minimizing phase wrapping in 2D cine DENSE with through-plane dephasing
Q119	<i>Morteza Mahmoudi</i>	In vivo multi-modality tracking of the regenerative effects of the human induced pluripotent stem cell-derived cardiomyocytes (iCMs)
Q120	<i>Gregory Wehner</i>	Validation of in vivo 2D Displacements from Spiral Cine DENSE at 3T
Q121	<i>Tobias Rutz</i>	Accuracy of self-navigated free-breathing isotropic 3D whole heart inversion recovery magnetic resonance for detection of myocardial infarction
Q122	<i>Behzad Sharif</i>	All-Systolic Non-ECG-gated Stress Perfusion CMR: Improved Visualization of Subendocardial Defects Compared to Conventional ECG-gated Imaging
Q123	<i>Emmeline Calkoen</i>	Vortex flow in the left atrium in healthy controls and patients with mitral valve regurgitation after atrioventricular septal defect correction: evaluation with 4D Flow MRI and particle tracing.
Q124	<i>Fei Han</i>	Segmented Golden Ratio Radial Reordering for Dynamic Cardiac MRI with Variable Temporal Resolution
Q125	<i>Hsin-Jung Yang</i>	Fast, Whole-Heart, Free-breathing 3D T2 mapping at 3T with application to Myocardial Edema imaging
Q126	<i>Hsin-Jung Yang</i>	Whole-Heart, Free-Breathing, Three-Dimensional Myocardial BOLD MRI at 3T with Simultaneous ¹³ N-Ammonia PET in Canines
Q127	<i>Jane Tufvesson</i>	Semi-automatic segmentation of myocardium at risk from contrast enhanced SSFP images - validation against manual delineation and SPECT
Q128	<i>Joep van Oorschot</i>	Endogenous assessment of chronic myocardial infarction with T1ρ-mapping in patients
Q129	<i>Thomas Treibel</i>	An instantaneous ECV with no blood sampling: using native blood T1 for hematocrit is as good as standard ECV
Q130	<i>Jihye Jang</i>	Evaluation of a Free-Breathing Myocardial T1 Mapping Using Magnetization-Prepared Slice Interleaved Spoiled Gradient Echo Imaging in Patient
Q131	<i>Fei Han</i>	4-dimensional, Multiphase, Steady-state Imaging with Contrast Enhancement (MUSIC) in the Heart; a Feasibility Study in Children
Q132	<i>Sébastien Roujol</i>	New Insights in Swine Model of Ventricular Tachycardia using Quantitative Myocardial Tissue Characterization
Q133	<i>Sébastien Roujol</i>	Imaging Surrogate of the Ventricular Arrhythmia Substrate in a Swine Model of Ventricular Tachycardia: High Resolution LGE vs. High Resolution Electro-Anatomical Mapping
Q134	<i>Shi-Jun Zhang</i>	Extracellular volume fraction provides more information than fibrosis
Q135	<i>Bradley Allen</i>	CMR Myocardial Tissue Characterization in a Mouse Model of Doxorubicin-Induced Cardiotoxicity

AUTHOR INDEX



Aban, Inmaculada	WP 024	Aletras, Anthony	P 048, P 052, WP 051, WP 127
Abarca, Cielmar	P 298	AlHarthi, Mohsen	P 136
Abbara, Suhny	P 172	Ali, Aamir	W 26, WP 072
Abbas, Ausami	P 091, P 328, T 1	Ali, Nisreen	P 244
Abbasi, Siddique	O 7	Ali, Noor	WP 014
Abdallah, Osamah	P 244	Ali, Saleem	P 188
Abdel-Gadir, Amna	O 27, P 008, P 011, P 056, P 164, P 312, WP 129	Alimohammadi, Mousa	P 215
Abdel-Wahab, Mohamed	O 85	Aliotta, Eric	P 388, W 19
Abdula, Goran	WP 047	Alison, Daniel	P 342, P 354
Abdullah, Shuaib	O 7	Alizadeh Sani, Zahra	P 215
Aboyans, Victor	P 369	AlJaroudi, wael	P 303
Abraham, Roselle	P 263	AlJizeeri, Ahmed	P 136
Abraham, Theodore	P 263	Allen, Bradley	P 113, P 399, WP 008, WP 135
Abreu, Bernardo	P 311	Alley, Marcus	WP 036, WP 093
Achouh, Paul	P 203	Almarzooq, Zaid	P 387
Adam, Gerhard	O 90, P 101, P 112, P 130, P 265, P 268, P 304	Almutairi, Haifa	P 057
Adams, Volker	P 099	Alpendurada, Francisco	P 221, P 360, W 26
Addetia, Karima	P 170, P 214, P 394	AlSaileek, Ahmed	P 136
Adebo, Dilachew	P 144	Alt, Sophie-Charlotte	WP 067
Agarwal, Maya	P 254	Altabella, Luisa	W 34
Agarwal, Prachi	WP 099	Altmayer, Stephan	WP 040, P 394
Agati, Luciano	WP 062	Alwardt, Nils	P 228
Ahearn, Trevor	P 259	Ambale Venkatesh, Bharath	O 67, P 322
Ahlman, Mark	O 25	Amersfoort, Jacob	P 097
Ahmad, Rizwan	P 381	Amin, Nessim	P 179
Ahmadinia, Saeid	P 053, P 075	Amzulescu, Mihaela	P 359
Ahmed, Dr. Nauman	P 124	An, Jing	O 61, O 72, P 266, P 299, T 12
Ahmed, Nadeem	O 26, O 53, O 54, WP 052	Anagnostopoulos, Petros	WP 097
Ahmed, Nauman	O 87, P 138, P 238	Ananth Narayan, Srinivas	P 044
Ainslie, Mark	M 06, O 47	Anazi, Ebtisam	P 136
Ait Ali, Lamia	WP 101	Anderle, Micah	WP 135
Ait-Ali, Lamia	WP 104	Anderson, Kevan	O 24
Ajjan, Ramzi	O 82	Andia, Marcelo	O 102, P 010, P 199, WP 111
Ajmone Marsan, Nina	WP 038	Andrade, Ana	P 103, W 25, WP 079, WP 091, WP 096
Akcakaya, Mehmet	P 120, W 05, W 09	Andrade Gomes, Hélder	P 311
Akhter, Nausheen	WP 135	Andre, Florian	P 384, WP 009, WP 069
Ako, Emmanuel	WP 002	Andres, Kristin	P 078, WP 107
Akçakaya, Mehmet	WP 001	Andrews, Jacqueline	P 285, P 297
AL Bulushi, Abdullah	WP 091	Angelini, Gianni	P 121
Al-Mallah, Mouaz	P 136	Angheloiu, George	P 296, P 300
Al-Wakeel, Nadya	W 22	Annese, David	P 036
Alam, Shirjel	P 252	Annex, Brian	P 082
Alastruey, Jordi	O 42	Anter, Elad	WP 132, WP 133
Aldrovandi, Annachiara	P 153	Antman, Elliott	O 7
Alehagen, Urban	WP 004	Aoki, Shigeki	P 246
Alenaini, Wareed	O 44	Apostolis, John	P 190

AUTHOR INDEX

- Appelbaum, Evan O 7, WP 059
 Aquaro, Giovanni P 377
 Arai, Andrew P 005, P 096, P 154, WP 032, WP 053, WP 072
 Araszkiwicz, Aleksander P 162
 Araujo Filho, Jose P 293
 Arcioni, Francesco P 376
 Ardissino, Diego P 153
 Argento, Crocetta P 357
 Argulian, Edgar P 262
 Arheden, Håkan O 18, P 030, P 038, P 068, P 079, P 084, P 089, P 090, P 105, P 119, P 139, P 165, P 194, P 294, WP 017, WP 051, WP 085, WP 086, WP 127
 Ariga, Rina O 98, WP 055
 Arlt, Wiebke P 271
 Armari, Sabrina P 365
 Arndt, Fabian WP 075
 Arnold, Jayanth P 271
 Arnold, Madeline P 261
 Arsanjani, Reza O 12, O 50, P 001, WP 061, WP 122
 Arteaga, Edmundo P 348
 Arvidsson, Per P 030
 Aschauer, Stefan O 33, P 308
 Ashrafian, Houman O 28, P 309
 Ashrafpoor, Golmehr WP 018
 Aslanidi, Oleg P 239
 Assaad, Tony P 303
 Assenza, Gabriele Egidy WP 059
 Assunção Jr, Antonildes O 79, P 290, P 293, P 348
 Atar, Dan P 090, P 139, P 194, WP 127
 Athavale, Prashant O 24, W 33
 Atherton, John O 83
 Atkinson, David P 081, WP 112
 Atteya, Gourg P 368
 Atweh, Lamya P 029
 Auger Cornejo, Daniel O 43
 Augustine, Daniel P 238
 Aurich, Matthias WP 009
 aus dem Siepen, Fabian WP 009
 Autore, Camillo WP 059
 Autry, Kyle P 335, P 336
 Avanesov, Maxim P 130, P 268
 Avery, Ryan P 018
 Avila, Luiz Francisco O 62, W 18
 Avitabile, Catherine P 208
 Axel, Leon P 389, WP 006
 Ayache, Nicholas P 234
 Ayad, Ihab WP 131
 Azam, Iram P 064
 Azarine, Archid P 017
 Azarine, Arshid P 203
 Azcárate-Aguero, Pedro M. P 192, P 193
 Azizi, Michel WP 094
 Babokin, Vadim P 255, P 256
 Babu-Narayan, Sonya O 94, P 221, W 28, WP 023, WP 076
 Bachmann, Alina O 33, P 308
 Baessler, Bettina W 12, WP 033
 Bairey Merz, C Noel O 12, P 001, WP 061, WP 122
 Bairey Merz, C. Noel P 141
 Bakhos, Lara P 244, P 318
 Balawon, Armida P 353, P 398
 Baljit, Jagpal P 149
 Ballantyne, Christie WP 116
 Balázs, György WP 095
 Bandettini, W. Patricia P 096, WP 032, WP 053
 Bane, Octavia P 253, W 11
 Bannur, Mahesha P 171
 Banypersad, Sanjay O 27
 Barasch, Eddy P 371
 Barba-Cosials, Joaquín P 193
 Barber, Nathaniel WP 002
 Barbir, Mahmoud P 137
 Barchetti, Giovanni P 264
 Barison, Andrea P 377, WP 062
 Barker, Alex O 68, O 96, P 039, P 074, P 314, P 399, WP 025, WP 106
 Barkhausen, Jörg O 34
 Barnes, Neil P 353, P 398
 Barros Júnior, Jose Carlos O 75
 Barry, Jennifer O 24, P 111, W 33
 Barth, Peter WP 082
 Barthel, Henryk P 108
 Baruah, Dhiraj P 181
 Basar, Burcu P 236, P 414, WP 015
 Basha, Tamer O 14, W 03, W 09, P 284, P 351, W 05, W 07, W 29, WP 001, WP 130, WP 132, WP 133
 Bastarrika-Aleman, Gorka P 192, P 193
 Bastiaansen, Jessica O 97, O 101, O 15
 Bauersachs, Johann WP 046
 Baumbach, Andreas O 29, O 87, P 138
 Baumgarter, Amy P 409
 Bauml, Michael O 36
 Bavalia, Nisha P 387
 Bax, Jeroen WP 038
 Bech-Hanssen, Odd P 329, P 361
 Beck, Raphael WP 020
 Beek, Aernout P 186, P 375
 Beerbaum, Philipp P 202, P 207, WP 028, WP 078, WP 084
 Beinart, Roy P 242, W 14
 Bekele, Soliana P 313
 Belaval, Vinay P 213
 Belker, Kristina P 216
 Bell, Aaron O 91, P 044
 Bello, Juliana P 290
 Bellofiore, Alessandro WP 058
 Bellsham-Revell, Hannah M 12
 Beltrami, Matteo P 121
 Belval, Vinay P 222
 Ben Miled, Aicha W 21
 Ben Yaacoub-Kzadri, Ismahen W 21
 Berg, Sophie P 284, P 351, T 6, W 03, W 05, W 07, W 29, WP 130
 Berger, Alexander P 340
 Berger, Felix W 15, W 22
 Berisha, Sebastian P 037
 Berman, Daniel O 12, P 141, WP 061, WP 122, O 50, O 74, P 001
 Bermano, Amit WP 035
 Bermejo, Javier P 143, P 286
 Bernhardt, Peter P 095, P 098, P 277, WP 020
 Berry, Colin O 26, O 53, O 54, O 9, P 104, WP 052
 Bertaud, Sophie M 12, WP 088
 Berte, Benjamin P 234
 Bertelsen, Litten P 060
 Berthonneche, Corinne O 97
 Beth, Goddu P 284, P 351
 Bettencourt, Nuno P 066, WP 067
 Bettencourt, Paulo WP 067
 Beuf, Olivier P 383
 Beurich, Hans O 85, WP 075
 Bevilacqua, Marco WP 013
 Bezerra, Hiram P 379, WP 050
 Bhagirath, Pranav P 230
 Bhat, Varun P 222
 Bhat, Venkatraman P 222
 Bhuvu, Anish P 004, P 011, P 008, P 164, WP 129
 Bi, Xiaoming O 50, O 72, O 74, P 001, P 034, P 402, WP 011, WP 061, WP 125
 Biagini, Elena WP 059
 Bibliowicz, Nathan P 318
 Bidhult, Sebastian O 18, P 038, P 052
 Biederman, Robert P 168, P 169, P 179, P 229, P 240, P 296, P 300, T 2, T 8, T 9

AUTHOR INDEX

- Biesbroek, P. Stefan P 186, P 375
 Bietenbeck, Michael P 072
 Biglands, John P 045, P 050, P 093, P 117
 Bilchick, Kenneth O 39, O 43
 Binkley, Cassi WP 057, WP 114
 Birkmeier, Stefan O 80
 Bissell, Lesley-Anne P 297
 Bissell, Malenka O 88, P 007, P 330
 Biswas, Labonny O 24, P 395
 Bizino, Maurice P 097
 Blackband, Stephen O 73
 Blackman, Daniel O 11, P 180, P 332, P 341
 Blackwood, Kimberley WP 019
 Blaes, Anne P 367
 Blamire, Andrew P 028
 Blanco, Raul M 10
 Blankenberg, Stefan O 90, P 265
 Blankstein, Ron O 7
 Blaser, Susan M 09, P 201
 Blomberg, Björn P 231
 Bluemke, David O 25, O 67, P 019, P 263, P 322
 Bobrikova, Yevgeniya P 256
 Boenner, Florian P 157
 Bogaard, Harm-Jan WP 044
 Bogaert, Jan P 043, P 058, P 123, P 128, P 349, WP 062
 Bohnen, Sebastian O 90, P 265
 Boileau, Laurianne P 359
 Bokma, Jouke WP 102
 Bolger, Ann P 282
 Bollache, Emilie WP 018, WP 094
 Bonderman, Diana P 308
 bondermann, diana O 33
 Bonnet, Damien WP 094
 Bonow, Robert P 399
 Borgquist, Rasmus P 089, P 165
 Borrazzo, Cristian W 34
 Boss, Michael W 36
 Botelho, Marcos WP 008
 Botnar, Rene O 102, O 48, O 91, P 010, P 085, P 120, P 366, P 396, WP 111
 Bou Ayache, Jad P 113
 Boubertakh, Redha M 07, P 057, P 092, P 122, P 353, P 398
 Boulogne, Cyrille P 369
 Boutouyrie, Pierre WP 094
 Bradbrook, Craig O 10, O 83, P 077, P 116
 Brady, Moffett P 211
 Brandts, Anne P 401
 Bratis, Konstantinos P 085, P 366
 Brau, Anja WP 029, WP 036
 Bregazi, Alda P 142, W 17
 Brenna, Sergio P 118
 Bricq, Stéphanie P 055
 Bristow, Michael O 35
 Broadbent, David P 045, P 050, P 117, P 257, WP 063
 Broadhead, Michael O 56
 Broberg, Craig P 251
 Brooks, Gabriel P 380
 Broomé, Michael P 079
 brown, benjamin M 06
 Browning, James P 014
 Brownlee, John P 144
 Bruder, Oliver WP 069
 Brunereau, Laurent P 342
 Bruno, Mary P 397
 Bryant, Jennifer P 091, P 328, T 1
 Bucciarelli-Ducci, Chiara O 29, O 66, O 87, P 121, P 124, P 126, P 138, P 152, P 238, P 323, P 324, P 325, P 386, T 3, T 4, T 5, WP 113
 Buch, Maya P 285, P 297
 Buckert, Dominik P 095, P 098, P 277, WP 020
 Buckley, David P 045, P 050
 Buckner, J. Kern P 014
 Buddhe, Sujatha P 206
 Bui, An P 337
 Bukhovets, Irina P 256
 Bulluck, Heerajnarain O 27, O 41, P 004, P 008, P 011, P 056, P 164, P 312, WP 129
 Bunck, Alexander W 12, WP 033
 Burchell, Amy P 323, P 324, P 325, P 405, P 411
 Burchert, Wolfgang WP 082
 Burris, Nicholas WP 080
 Busch, Julia O 100
 Buss, Sebastian P 087, P 384, WP 009, WP 028, WP 069
 Bustamante, Mariana O 45
 BUSTIN, Aurelien WP 029
 Butakoff, Constantine P 041
 Butcher, Joshua P 082
 Butera, Gianfranco P 200
 Butler, Javed M 08
 Butler, John WP 126
 Butter, Christian O 68
 Butzbach, Britta P 110, P 157, P 319, WP 012
 Byerly, Bobby P 300
 Byrne, Nicholas O 48
 Bálint, Hajnalka WP 095
 Böhm, Michael O 80
 Bönner, Florian P 110, P 319
 Cabrera Lozoya, Rocio P 234
 Cadoni, Alessandra P 152
 cagnolo, alessandro P 377
 Calkoen, Emmeline O 4, O 6, P 024, P 059, WP 038, WP 123
 Calleja, Anna P 275
 Camara, Oscar P 041
 Camarda, Joseph WP 103
 Camargo, Gabriel P 069, WP 043
 Cameron, Donnie P 259
 Campbell-Washburn, Adrienne P 236, P 414, WP 015
 Cannao, Paola O 71
 Cao, Jian O 61, T 12
 Cao, Jie O 5, P 317, P 371
 Capener, Dave P 174
 Capener, David P 338
 Capodanno, Davide P 152
 Cappellini, Maria Domenica P 118
 Capranzano, Piera P 152
 Captur, Gabriella P 274
 Captur, Gaby O 25
 Carbone, Iacopo P 264, P 292, W 34, WP 062
 Cardim, Nuno P 131
 Carlhall, Carl Johan O 45, O 88, P 007, P 282, W 16, WP 004
 CARLIER, Pierre P 267, P 363
 Carlsson, Marcus O 18, P 030, P 038, P 068, P 079, P 089, P 090, P 105, P 119, P 139, P 165, P 194, P 294, WP 017, WP 051, WP 085, WP 086, WP 127
 Carlton, Joanne T 10
 Carminati, Mario P 200
 Carmona-Rubio, Andres P 172
 Carneiro, Adriano P 311
 Carni, Marco W 34
 Carpenter, Alexander O 29, P 124
 Carr, James M 03, P 039, P 064, P 113, P 253, P 314, P 399, W 11, WP 008, WP 016, WP 025, WP 135
 Carr, Maria M 03, WP 008, WP 025
 Carrick, David O 26, O 53, O 54, O 9, P 104, P 379, WP 050, WP 052
 Carroll, Timothy P 113, P 253, W 11
 Carulli, Giovanni P 376
 Casadei, Barbara WP 005
 Cascone, Irene P 152
 Casson, Steven O 41

AUTHOR INDEX

Castelletti, Silvia	O 89, P 274, WP 129	Choi, Yeonu	P 301
Castets, Charles	O 70, P 258	Chow, Kelvin	P 005, P 261, W 10, W 20
Catalano, Carlo	W 34	Chowdhary, Varun	WP 103
Cates, Michael	P 393	Chowdhury, Tanzina	P 260
Cautela, Jennifer	P 307	Chrysohoou, Christina	P 345
Cavalcante, Joao	P 226	Chu, Linda	P 263
Cazeneuve, Nicolas	P 342	Chua, Seng Keong	P 158
Cecchi, Franco	WP 059	Chuang, Michael	P 416
Celermajer, David	O 57	Chubb, Henry	P 041
Cereda, Alberto	P 347	Chugh, Atul	O 67
Cerisier, Alexis	P 114	Chugh, Sumeet	O 21
Cesarovic, Nikola	P 076	Chun, Eun Ju	P 109, WP 066
Chabiniok, Radomir	O 57	Chung, Sohae	P 389, WP 006
Chae, In-Ho	P 109	Chungsomprasong, Paweena	P 334
Chai, Jyh-wen	P 276	Ciolina, Federica	P 292
Chai, Ping	P 061	Cirotto, Carla	P 346
Chamera, Elzbieta	O 67, P 019	Ciuffo, Luisa	P 322
Chan, Frandics	WP 093	Clark, David	M 06, O 47
Chan, Michael Pak Hei	P 281	Clarke, Kieran	O 16, O 98, WP 055
Chan, Raymond	WP 059	Clarke, William	O 98, P 247, P 249
Chang, Chung-Chou	M 08	Claus, Piet	P 043, P 058, P 123, P 128, WP 062
Chang, Hyuk-Jae	O 74	Clement-Guinaudeau, Stephanie	O 22
Chang, Sung-A	P 278, P 301	Clennon, Colleen	P 039, P 314
Chang, Yu-Pin	P 276	Climent, Vicente	WP 074
Chanson, Philippe	P 310	Clough, Rachel	O 42
Chaptinel, Jerome	WP 121	Cluzel, Philippe	P 006
Chaptinel, Jérôme	W 30	CLUZEL, Phillipe	P 042, P 355
Charles, Roux	P 042, P 310	Clymer, Bradley	P 035
Charnigo, Richard	WP 114	Clément, Karine	P 006
Chatellier, Gilles	WP 094	Coats, Louise	P 028
Chatterjee, Neil	P 113, P 253, W 11	Cochet, Alexandre	P 055
Chattranukulchai, Pairoj	P 169	Cochet, Hubert	O 22, P 234
Chaudhry, Farooq	P 262	Cocker, Myra	WP 006
Chaudhry, Uzma	P 089, P 165	Coco, Elizabeth	O 96
Chen, Clayton Chi-Chang	P 276	Codella, Noel	P 387
Chen, David	P 141, WP 061	Coe, Greg	P 409
Chen, Howard	O 3	Coelho-Filho, Otavio	O 75, O 75
Chen, Marcus	O 23, P 096, P 154, WP 053	Coghlan, John	O 32
Chen, Robin	P 225	Cohen, Randy	P 262
Chen, Shi	P 289, P 344	Cokic, Ivan	O 13, O 21, O 74, P 166, WP 125, WP 126
Chen, Wei	M 05, O 76, P 273	Cole, Ben	P 133, P 140
Chen, Xiao	O 40, O 43, P 082	Collins, Jeremy	P 039, P 064, P 113, P 314, WP 008
Chen, Xiuyu	P 132	Coma-Canella, Isabel	P 192, P 193
Chen, Y Iris	O 3	Comment, Arnaud	O 101, O 15, O 97
Chen, Yucheng	P 289, P 344	Condiffe, Robin	P 338, P 350
Chen, Yue	P 237	Connelly, Kim	P 147, P 150, P 395, WP 007
Chen, Yushu	M 05, O 76	Conroy, Jennifer	O 5
Cheng, Adrian	P 356	Consonni, Dario	P 118
Cheng, Chin-Chang	O 69	Contijoch, Francisco	O 37, P 037
Cheng, Joseph	WP 036	Cook, Stuart	M 11, O 44
Chern, Ming-Jyh	O 69	Cooper, Robert	WP 072
Chesler, Naomi	M 02, P 026, WP 058	Coppo, Simone	WP 121
Cheung, Stephen	P 225	Coristine, Andrew	P 382
Child, Nicholas	P 049, P 366	Cornfeld, Daniel	P 358, P 368
Chin, Calvin	W 26, WP 049	Cornhill, Aidan	O 35
Chin, Karen	P 335, P 336	Correnti, Gemma	O 83
Chinali, Marcello	P 209	Corsi, Cristiana	P 392
Chiodi, Elisabetta	P 339, P 346	Cosin, Juan	P 012
Chiribiri, Amedeo	P 066, WP 014	Cossor, Waseem	P 214
Chitiboi, Teodora	P 385	Costa, Heather	P 241
Cho, Goo-Young	P 109	Costa, Simone Cristiana	O 79
Cho, Young-Suk	P 109	Costa, Victor	P 290
Choe, Yeon Hyeon	P 278, P 301	Cowburn, Peter	P 328
Choi, Andrew	WP 053	Craig, Fleishman	P 210
Choi, Byoung Wook	O 74, P 020, P 288	Crean, Andrew	P 275, WP 059, WP 068
Choi, Dong-Ju	P 109	Crilley, Jenifer	P 187
Choi, Eui-Young	O 74	Cripe, Linda	P 279
Choi, Sang Il	P 109, WP 066	Cripps, Tim	P 238
Choi, Won Jin	P 176	Croisille, Pierre	P 114, P 383
Choi, Yeong-Hoon	WP 033	Cruz, Inês	P 349

AUTHOR INDEX

- Cui, Sophia O 43
 Curzen, Nick O 11
 D'Cruz, David O 32
 Dabir, Darius P 049
 Daida, Hiroyuki P 246
 Dalal, Rishikesh P 188
 Dalby, Miles O 11
 Damy, Thibaud P 369
 Danford, David P 202, P 207, WP 084
 Dash, Rajesh P 115, P 254
 Dass, Sairia P 309
 Davidson, Neil M 06
 Davies, Ceri P 092, P 122, P 184
 Davis, Anne O 99
 Dawes, Timothy M 11, O 44
 Dawoud, Fady P 115
 Dawson, Dana P 149, P 259, P 280
 De Bock, Dina P 343
 de Bourguignon, Charles P 114
 De Cecco, Carlo O 71, O 8
 De Cecco, Carlo Nicola WP 059
 de Chillou, Christian P 167
 de Jong, Pim P 231
 de Koning, Patrick P 059, WP 123
 De Marchi, Daniele P 339, P 357
 de Marvao, Antonio M 11, O 44
 De Pasquale, Carmine O 10, P 116
 de Roos, Albert P 059, P 401, WP 038, WP 123
 de Silva, Ranil O 78, WP 072
 de Waha, Suzanne O 34, P 099, WP 048
 Dedieu, Nathalie M 12, O 91
 Defrance, Carine P 006
 Delattre, Benedicte P 383
 Delclaux, Christophe WP 094
 Delgado-Montero, Antonia P 226
 Delhommais, Anne P 342, P 354
 Delling, Francesca P 337
 DeLong, Kathy P 300
 Demarchi, Lea P 290
 Deng, Zixin WP 011
 Denney, Thomas WP 024
 Desch, Steffen O 34, P 099, WP 048
 Deux, Jean François P 369
 Deux, Jean-Francois WP 127
 Deva, Djeven P 275, WP 068
 Devereux, Richard P 387
 Dey, Damini WP 126
 Dharmakumar, Rohan O 12, O 13, O 21, O 74, P 001, P 166, WP 013, WP 122, WP 125, WP 126
 Di Castro, Elisabetta W 34
 Di Mario, Carlo O 78, T 7, WP 072
 Di Segni, Elio P 291, WP 070
 Diab, Ihab P 238
 Dias Filho, Paulo P 311
 Diaz, Edgar P 142
 Dick, Alexander P 150
 Dickerson, Jennifer P 381
 Diebold, Benoit WP 018
 Dieringer, Matthias P 009, P 315
 Dill, Karin P 214
 Ding, Haiyan P 242, W 14
 Dinjus, Dirk P 110
 Dixon, Lana P 133, P 140
 Do, Hung P 145
 Dobson, Laura O 31, O 82, P 021, P 080, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407
 Dodd, Michael O 16
 Dodd, Nicholas WP 081
 Doevendans, Pieter WP 128
 Dogomori, Kiyoshi P 054
 Dohi, Kaoru O 84
 Doltra, Adelina P 340, WP 060
 Dominguez, Troy O 56
 Donato Aquaro, Giovanni WP 062
 Dong, Li O 72
 Donovan, Jackie W 28
 Dorfman, Adam WP 099
 Dorian, Paul WP 007
 Dorniak, Karolina P 040
 Douglas, Hannah P 133, P 140
 Doyle, Mark P 168, P 179, P 240, P 296, T 2, T 8, T 9
 Drangova, Maria P 033
 Dreyse, Stephan WP 060
 Drivas, Peter W 26
 Du, Yanni O 72
 Dubin, Brian P 064
 Dubois-Randé, Jean-Luc P 090
 Duca, Lorena P 118
 Dudziak, Maria P 040
 Dueck, Andrew P 404
 Dumoulin, Charles P 243
 Duncan, Edward P 238
 Duncanson, Lynette P 317
 Durighel, Giuliana M 11
 Dweck, Marc P 252, W 26, WP 049
 Dyckmanns, Nils P 095, P 098
 Dymarkowski, Steven P 349
 Dyverfeldt, Petter O 45, O 88, P 007, WP 004, WP 080
 Dückting, Jan WP 069
 Ebbers, Tino O 45, O 88, P 007, P 282, W 16, WP 004
 Edelmann, Frank P 066
 Eifer, Diego P 173
 Eitel, Charlotte O 34
 Eitel, Ingo O 34, P 099, WP 048
 Ekram, Tashfeen WP 093
 El Aidi, Hamza WP 128
 El Fawal, Sara P 374
 El Metwally, el Atafy P 374
 El-Mawardy, Mohamed O 85
 El-Merhi, Fadi P 303
 El-Rassi, Issam P 196
 El-Rewaidy, Hossam WP 030
 Elagha, Abdalla P 390
 ElBaz, Mohammed S. M. O 4, O 6, P 024
 Elizaga Corrales, Jaime P 143
 Elliot, Charlie P 338, P 350
 Elliott, Tracy O 35, WP 056
 Elliott, Mark P 037
 Elliott, Perry P 274
 ElRefai, Mohammed P 328
 Els, Antje P 013
 Emdin, Michele P 377
 Emery, Paul P 297
 Emmert, Maximilian P 076
 Engblom, Henrik P 089, P 090, P 119, P 139, P 165, P 194, WP 051, WP 127
 Englund, Erin P 406
 Engvall, Jan W 16, WP 004
 Ennis, Daniel P 388, P 410, W 19, WP 022, WP 034
 Entenmann, Andreas WP 091
 Epstein, Frederick O 39, O 40, O 43, P 078, P 082, P 148, P 287, W 04, WP 057, WP 107, WP 114, WP 118, WP 120
 Erhayiem, Bara O 31, O 82, P 021, P 080, P 117, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407, WP 063
 Eriksson, Jonatan O 45, P 007, P 282, WP 004
 Erlinge, David P 090, P 139, P 194, WP 127
 Erthal, Fernanda P 069, WP 043
 Esmaili, Somayeh WP 092

AUTHOR INDEX

- Espinosa, Maria O 89
 Esteban-Fernández, Alberto P 192, P 193
 Esterhammer, Regina P 125
 Eteiba, Hany O 26, O 53, O 54, O 9, P 104, WP 052
 Etoom, Yousef P 334
 Etz, Dr. Christian P 415
 Evin, Morgane P 006, P 042, P 355
 Ewert, Peter P 216, P 223, WP 077, WP 087
 Faber, Cornelius P 072
 Fabian, Caius P 002
 Fabiani, Jean Noel WP 018
 Fagret, Daniel P 055
 Fahmy, Ahmed P 047, WP 030
 Fair, Merlin P 100
 Fairbairn, Timothy P 177, P 180, P 182, P 332, P 341
 FALCHETTO, EDUARDO O 79
 Fallahabadi, Hamidreza P 215
 Fan, Zhanming P 083, P 266
 Fan, Zhaoyang O 17, O 50, O 72, P 402, P 412, WP 011
 Faranesh, Anthony O 19, O 20, O 23, P 235, P 236, P 414, WP 015
 Farzaneh-Far, Afshin O 36
 Fasshauer, Martin P 269, WP 105
 Fatah, Meena P 334
 Feistritz, Hans-Josef P 125, P 127, P 134, P 146, P 159, P 178
 Feiweier, Thorsten P 383
 Felblinger, Jacques P 167
 Feliciano, Hélène W 30
 Feliu, Eloisa WP 074
 Feng, Jiazuo O 7
 Feng, Xue P 408
 Fenster, Brett P 014
 Ferguson, Mark P 206
 Fernandes, Andre O 62, W 18
 Fernandes, Fabio O 79
 Fernandes, Fábio P 311
 Fernandes, Juliano O 62, P 003, W 18
 Fernandes, Veronica P 370
 Fernandez Avilés, Francisco P 143, P 286
 Fernandez Santos, Maria Eugenia P 143
 Fernandez-Cruz, Joaquin WP 100
 Fernandez-Friera, Leticia WP 003
 Fernandez-Jimenez, Rodrigo WP 003
 Fernando, Rajeev P 244, P 318, P 352, P 372
 Fernlund, Eva WP 051
 Ferreira, António P 131
 Ferreira, Nuno WP 067
 Ferreira, Pedro O 1, O 38, P 025, WP 010, WP 117
 Ferreira, Vanessa O 28, O 81, O 99, P 023, P 107, P 271, P 309, WP 005, WP 055, WP 065, WP 071
 Festa, Pierluigi WP 101, WP 104
 Fidone, Carmelo P 339
 Figueroa, Carlos P 396, WP 078
 Finn, J. Paul P 410, WP 021, WP 022, WP 026, WP 034, WP 124, WP 131
 Fioravante, Luciana P 003
 Fiorelli, Andrea P 292
 Firmin, David M 01, O 1, O 38, O 78, P 025, P 100, W 24, W 28, WP 010, WP 039, WP 117
 Fischer, Kady WP 110
 Flather, Marcus O 11
 Fleck, Eckart P 340, WP 060
 Flett, Andrew P 328
 Flewitt, Jacqueline WP 006
 Florian, Anca WP 031, WP 083, WP 090
 Floyd, Thomas P 406
 Flögel, Ulrich P 319
 Fogel, Mark O 93, O 95, P 208, P 287
 Fok, Henry O 42
 Fong, Alan P 158
 Fontana, Marianna O 27, O 89, P 008, P 164, P 312, WP 129
 Foppa, Murilo P 173, P 337
 Ford, Gary P 028
 Ford, Ian O 26, O 53, O 54, WP 052
 Forder, John O 73
 Forfia, Paul P 394
 Forman, Christoph WP 109
 Formisano, Francesco WP 059
 Fornwalt, Brandon P 078, WP 057, WP 107, WP 114, WP 118, WP 120
 Forouzan, Omid M 02, P 026
 Foucar, Charles M 03
 Fox, Caroline P 416
 Fox, David M 06
 Fraga, Jose WP 067
 Frahm, Jens P 385, WP 042
 Francis, Jane O 28, O 81, O 98, O 99, P 107, P 271, P 309, W 01, WP 055, WP 065, WP 071
 francis, lenin O 47
 Francois, Christopher M 02, P 026, P 067, WP 058, WP 097
 Francone, Marco P 264, P 292, W 34, WP 062
 Franconi, Jean-Michel O 70, P 258
 Frandon, Julien P 055
 Frank, Yvonne WP 087
 Franklin, Bina P 370
 Franz, Wolfgang-Michael P 127, P 134, P 146, P 159, P 178
 Fraser, Charles WP 081
 Fratz, Sohrab P 216, P 223, WP 077, WP 087
 Fredriksson, Alexandru WP 004
 Freed, Benjamin P 113, WP 008
 Freitas, Matheus P 311
 Frenneaux, Michael P 149, P 259, P 280, WP 113
 Frettlöh, Felicitas WP 091
 Fridman, Yaron M 08
 Friedrich, Matthias P 261, WP 006, WP 110, WP 115
 Froeling, Martijn P 015
 Frohlich, Georg O 41, P 008, P 164
 Fründ, Ernst-Torben P 139
 Fu, Winnie P 362
 Fu, Yun-Ching P 276
 Fuat, Ahmet P 187
 Fuernau, Georg P 099, WP 048
 Fujita, Etsuko P 333
 Furiasse, Nicholas WP 135
 Fuss, Cristina P 198
 Fuster, Valentin WP 003
 G A, Karthik P 213, P 222
 Gabbert, Dominik Daniel P 070, WP 079, WP 091, WP 096
 Gabriel, Simon WP 131
 Gaddum, Nicholas O 42
 Galcerá-Jornet, Emilio WP 074
 Galea, Nicola P 264, P 292, W 34
 Gallego-Delgado, Maria WP 003
 Galli, Alessio P 118
 Galuschky, Christian P 087, WP 009, WP 069
 Gama, Vasco WP 067
 Gamma, Reto P 164
 Gao, Fabao M 05, O 76, P 273
 Gao, Sinsia P 329, P 361
 Garberich, Ross P 210
 Garcia, Christine WP 106
 Garcia, Julio P 039
 Garcia, M. Pilar P 012
 GARCIA FERNANDEZ, AMAYA WP 074
 Garcia-Alvarez, Ana WP 003
 Garcia-Ruiz, Jose Manuel WP 003
 García-Rodríguez, Sylvana WP 097
 Garg, Pankaj O 31, O 82, P 021, P 050, P 080, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407
 Garg, Ruchira P 210

AUTHOR INDEX

- Gatehouse, Peter O 1, P 100, T 7, W 24, W 26, W 28, WP 023, WP 072
 Gatzoulis, Michael O 94, P 221, W 28, WP 023, WP 076
 Gay, Elizabeth O 39
 Gebker, Rolf P 340, WP 060
 Gelsinger, Carmen O 68
 Genee, Olivier P 342, P 354
 Genet, Martin P 076, P 081, WP 112
 George, Steve P 091
 Georgiadis, Vassilis M 04
 Gerbay, Antoine P 114
 Gerber, Bernhard L P 359
 Gershlick, Anthony O 11, P 102
 Gerstenblith, Gary O 52, P 400
 Geva, Tal M 12, P 036, WP 102
 Ghadimi Mahani, Maryam WP 099
 Gheorghiade, Mihai M 08
 Ghoerbien, Suresh P 230
 Ghosh Dastidar, Amardeep O 29, O 87, P 124, P 138, P 238, P 323, P 324, P 325
 Ghosn, Mohamad P 169, P 336, WP 116
 Ghugre, Nilesh P 111, P 147, P 150, W 33
 Giannakidis, Archontis O 1, WP 117
 Giannakoulas, George P 364
 Giannattasio, Cristina P 347
 Giannitsis, Evangelos P 087
 Gibson, C. Michael WP 059
 Gierula, John O 31
 Giese, Daniel O 57, WP 033
 Gieseke, Jürgen WP 082
 Gillam, Linda P 262
 GILLES, Raymond P 267, P 363
 Giolda, Agathe W 12
 Girerd, Nicolas P 167
 Giri, Shivraman O 71
 Giusca, Sorin P 087, P 384, WP 009
 Gleadle, Jonathan O 10, P 116
 Gliganic, Kathleen W 32
 Goddu, Beth O 14, P 337, T 6
 Goetschalckx, Kaatje P 043, P 058, P 123, P 128
 Goirigolzarri-Artaza, Josebe WP 003
 Goitein, Orly P 291, WP 070
 Goldberg, Ari P 318
 Goldberg, David P 208
 Goldberger, Jeffrey M 03, WP 016, WP 025
 Goldfarb, James W 32, WP 037
 Gombert-Maitland, Mardi P 394
 Gomez, Gorka P 196
 Gomez-Cia, Tomas P 196
 Gona, Philimon P 416
 Gonzalez, Gerardo O 77
 Gonzalez, Jorge O 39, P 148, P 326, WP 045
 Gonzalez-Lopez, Esther WP 003
 Gonçalves, Pedro P 131
 Goolaub, Datta Singh P 088
 Gorcsan III, John P 226
 Gorman, Joseph O 37
 Gorman, Robert O 37, P 037, WP 040
 Gosh Dastidar, Armadeep P 121
 Goswami, Robi M 10
 Goto, Yoshitaka O 51, O 84
 Gotschy, Alexander P 088
 Gotsman, Craig WP 035
 Gottlieb, Ilan O 62, P 069, W 18, WP 043
 Goubergrits, Leonid WP 060
 Govindapillai, Sindu P 334
 Grabau, Jonathan WP 118, WP 120
 Graessl, Andreas P 013, WP 108
 Grajek, Stefan P 162
 Grant, Laurie O 20
 Grapsa, Julia P 364
 Grassedonio, Emanuele P 376
 Graves, Martin WP 018
 Gray, Calum P 252
 Grebe, Olaf P 189
 Green, Patrick WP 116
 Greenwood, John O 11, O 31, O 82, P 021, P 080, P 093, P 102, P 117, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407, WP 063
 Gregory, T. Stan P 032
 Greil, Gerald M 12, O 57, O 91, P 044, P 052, P 219, P 366, WP 078, WP 088
 Greiser, Andreas O 62, P 002, P 009, P 023, P 267, P 308, P 313, W 18, W 24, W 26, W 28
 Greulich, Simon O 80
 Greve, Anders P 005, WP 072
 Grieben, Ulrike P 315
 Grips, Martin P 219
 Griswold, Mark W 35
 Grizzard, John P 084, P 169
 Grogan, Scott WP 058
 Grosse-Wortmann, Lars M 09, O 55, O 92, P 201, P 334, W 13, WP 089
 Grossman, Ashley P 271
 Grothoff, Matthias P 108, P 415
 Grover, Suchi O 10, O 83, P 077, P 116
 Groves, Ashley O 41, P 008
 Gruenig, Sebastian P 157
 Gruner, Christiane P 275, WP 059
 Grunseich, Karl P 358, P 368
 Gräfe, Michael P 340
 Gröber, Marie-Therese P 134
 Grün, Stefan O 80
 Gualtieri, Eugene P 037
 Gudiwada, Sai Priyanka P 262
 Guensch, Dominik WP 110
 Gulkarov, Iossif P 169
 Gullberg, Grant WP 117
 Guo, xiaojuan P 185
 Guo, Xiu hai P 412
 Gupta, Dipti P 327
 Gupta, Himanshu WP 024
 Guron, Nita P 033
 Gutberlet, Matthias P 108, P 415, WP 054
 Götte, Marco P 230
 Haan, Eric O 83
 Haas, Tammy WP 059
 Haberkorn, Sebastian P 319
 Habib, Gilbert P 295, P 307
 Habib, Josef M 04
 Habibi, Mohammadali P 322
 HACKMANN, Pauline P 366
 Hadamitzky, Martin O 86
 Hadjimiltiades, Stavros P 364
 Hager, Alfred WP 077
 Haggerty, Christopher WP 114, WP 118, WP 120
 Haghighia, Arash WP 046
 Hahn, Horst P 385
 Haig, Caroline O 26, O 53, O 54, WP 052
 Haller, Nairmeen P 190
 Hallstrom, Sharon P 300
 Halnon, Nancy P 279, WP 022, WP 034
 Halperin, Henry P 242, W 14
 Halvorsen, Sigrun P 090
 Hamdan, Ashraf P 291, WP 070
 Hamilton, Jesse W 35, WP 041
 Hamilton, Mark O 66, P 124, P 305, P 323, P 324, P 325, P 386, P 411, T 3, T 4, T 5, WP 113
 Hamilton, Robert P 334
 Hamilton-Craig, Christian O 64
 Hamlet, Sean P 078, WP 057, WP 107, WP 118, WP 120
 Hammel, James WP 081

AUTHOR INDEX

Hammer-Hansen, Sophia	P 154	Hochbergs, Peter	WP 085
Hammerer-Lercher, Angelika	P 146	Hoerr, Verena	P 072
Han, Fei	WP 124, WP 131	Hoffmann, Pavel	P 139
Han, Q. Joyce	P 022	Hoffmann, Udo	O 7, P 172
Han, Qiao	P 170	Hollingsworth, Kieren	P 028
Han, Yuchi	O 37, P 022, P 037, P 170, P 394, WP 040	Holloway, Cameron	O 98, O 99, P 309
Hanneman, Kate	WP 068	Holm, Johan	P 294, WP 085
Hansen, Michael	O 19, O 20, O 23, P 037, P 235, P 236, WP 015	Holmvang, Godtfred	P 172
Hansen, Traudel	P 070	Holotta, Markus	P 125
Harbinson, Mark	P 133, P 140	Holub, Ondrej	O 42
Harden, Stephen	P 091, P 328, T 1	Hong, Haifa	P 197
Harmse, Werner	P 362	Hong, Susie N.	WP 059
Harris, Matthew	O 93, P 287	Hong, Yoo Jin	P 288
Harris, William	O 7	Hood, Stuart	O 26, O 53, O 54, WP 052
Hart, Christopher	O 58, P 070, P 103, W 25, WP 079, WP 091, WP 096	Hope, Michael	WP 080
Hart, Emma	P 323, P 324, P 325, P 405, P 411	Hor, Kan	P 279
Hartmann, Arthur	WP 060	Horan, Paul	P 133, P 140
Hasan, Usama	WP 037	Horn, Patrick	P 319
Hasenfuss, Gerd	P 066	Horowitz, John	P 259, P 280
Hashemi, Sassan	P 417	Horsfield, Mark	P 313
Hassan, Neelam	P 323, P 405, P 411	Hosseinpour, Amir-Reza	P 196
Hassan-Smith, Zaki	P 271	Hourani, Mukbil	P 303
Hassanein, Azza	P 062, P 106	Howarth, Andrew	O 35, P 033, P 261, WP 056
Hassel, Jan-Hendrik	P 340	Hozayen, Sameh	P 272
Hauck, Katrin	P 155	Hsiao, Albert	WP 093
Haugaa, Kristina	P 283	Hsu, Li-Yueh	P 154, WP 072
Hausenloy, Derek	O 41, P 008, P 164	Hu, Bob	P 393
Hauser, Jakob	P 031	Hu, Peng	P 388, P 410, W 02, WP 021, WP 026, WP 124, WP 131
Hauser, Thomas	P 337	Hu, Xudong	WP 007
Hawkins, Philip	O 27	Huang, Liwei	P 289
Hawley, Christi	P 142, W 17	Huang, Pei-Ching	P 245
Hays, Allison	O 52, P 400	Huang, Wei-Chun	O 69
Hayward, Carl T 7		Huber, Steffen	P 272
Hazekamp, Mark	P 196	Hubert, Sandrine	P 295
Haïssaguerre, Michel	P 234	Hudson, Jemma	P 149
Heckbert, Susan	P 322	Huellebrand, Markus	P 385, WP 042
Hedeer, Fredrik	P 119	Huelnhagen, Till	P 013, WP 108
Hedjazi Moghari, Mehdi	P 036	Hughes, Marina	O 56, P 260
Hedström, Erik	P 052, P 068	Hui, Peter	P 225
Heer, Tobias	P 155	Hundley, Gregory	O 25, O 67
Hegde, Vinayak	P 190	Hungin, Pali	P 187
Heiberg, Einar	O 18, P 038, P 040, P 052, P 068, P 084, P 090, P 139, P 165, P 194, P 294, WP 017, WP 051, WP 086, WP 127	Hurtado, Daniel	WP 027, WP 078
Heitner, John	P 169	Hussain, Nehal	P 338, P 350
Hellmann, Marcin	P 040	Hussain, Shazia	WP 028
Hendrich, Eva	O 86	Hussain, Tarique	M 12, O 48, O 57, O 91, P 044, P 219, P 366, WP 088
Heng, Ee Ling	P 221, T 7, W 24, W 26, W 28, WP 023	Hussaini, Syed	P 067
Hennemuth, Anja	P 385, WP 042	Huttin, Olivier	P 167
Hennig, Juergen	O 46	Huybrechts, Luc	P 146
Henningsson, Markus	O 91, P 085, P 120, P 239, P 396	Hwang, Min-Sig	O 73
Henriksen, Peter	P 252	Höfling, Berthold	P 155
Henry, Travis	P 345	Hösch, Olga	WP 105
Herincs, Maria	P 271	Hüttl, Kálmán	WP 095
Herrey, Anna	O 27, O 89, P 008, P 056, P 164, P 274, P 312	Iacuzio, Laura	WP 109
Hertzberg, Jean	P 014	Ianni, Barbara	O 79
Herzka, Daniel	P 242, W 14	iantorno, micala	O 52, P 400
Hesami, Mahshid	P 215	Ibanez, Borja	WP 003
Hess, Aaron	O 88, P 007, P 330	Ibraheem, Montasir	P 093
Hetherington, Simon	O 11	Ibrahim, El-Sayed	P 047, P 062, P 106, WP 030
Heydari, Bobby	O 7, P 033	Ichikawa, Yasutaka	O 51, O 84
Hickey, Edward	M 09, O 55, O 92, P 201, W 13	Ignatius, Abel	P 150
Higgins, Charles	P 380	Igo, Stephen	P 335, P 336
Higgins, David	O 32, P 049, P 050, P 117, P 257, P 259	Igual-Muñoz, Begoña	P 012
Hiki, Makoto	P 246	igual-muñoz, begoña	P 161
Hilfiker-Kleiner, Denise	WP 046	Ikeno, Fumiaki	P 115
Hillis, Graham	P 191	Illindala, Uday	P 115
Hirano, Masaharu	P 378	Im, Dong Jin	P 288
Hirayama, Atsushi	P 373	Imai, Masamichi	P 322
Hiro, Takafumi	P 373	Imazio, Massimo	P 349
Ho, Siew	WP 010	Inage, Akio	P 073
		Ingle, Reeve	P 393

AUTHOR INDEX

- Inoue, Katsuhiko O 51
 Ip, Janice P 225
 Irrarrazaval, Pablo P 199, WP 027
 Irie, Hiroyuki P 054
 Isaaz, Karl P 114
 Isakson, Brant P 082
 Iserin, Laurence P 203, WP 094
 Ishida, Masaki O 51, O 84
 Ishizaka, Nobukazu WP 073
 Ism'eel, Hussain P 303
 Ismail, Tevfik O 1
 Ito, Masaaki O 84
 Ivanov, Alexander P 169
 Iwanochko, Robert P 275, WP 068
 Jabbour, Andrew O 32
 Jablonowski, Robert P 089, P 165, WP 051
 Jaccard, ARNAUD P 369
 Jackman, Warren O 21
 Jackowski, Marcel O 3, P 016
 Jackson, Laurence M 04
 Jackson, Matthew P 335, P 336
 Jacobson, Bryan P 300
 Jacoby, christoph WP 012
 Jacoby, Daniel P 272, P 274
 Jacquier, Alexis P 055, P 295, P 307
 Jaeggi, Edgar O 55, O 92, P 201, W 13
 Jafari, Lua P 381
 Jagpal, Baljit P 259, P 280
 Jakicic, John M 08
 James, Wai-Yee P 353, P 398
 Jamshidi, Majid P 215
 Janardhanan, Rajesh P 018
 Jang, James P 262
 Jang, Jihye P 284, P 351, W 07, W 29, WP 130
 Janich, Martin WP 029
 Janssens, Stefan P 043, P 058, P 123, P 128, WP 062
 Janus, Magdalena P 160, P 162, P 331
 Jao, Terrence P 051, P 145
 Jarvis, Kelly P 039
 Javaid, Mahvesh M 07
 Javed, Ahsan P 051, P 145
 Jayam, Meghana P 371
 Jaïs, Pierre O 22, P 234
 Jenner, Jonas P 065
 Jensen, Patrick P 263
 Jensen, Svend Eggert P 090
 Jerosch-Herold, Michael O 58, O 7, O 75, P 070, P 103, P 320, W 25, WP 079, WP 091, WP 096
 Jeuthe, Sarah W 15
 jiang, tao P 185
 Jiménez Borreguero, Jesús P 286
 Jin, Ning O 66, P 381, W 08, W 31, WP 025
 Jin, Zhengyu T 12
 Jing, Linyuan WP 057, WP 114, WP 118, WP 120
 Jivraj, Khalil WP 056
 Jobs, Alexander O 34
 Jochimsen, Thies P 108
 Johnson, Kerryanne P 175
 Johnson, Tom O 29, O 87, P 138
 Johnsson, Åse P 329, P 361
 Johnston, Nicola P 133, P 140
 Jokerst, Clinton P 018
 Jolly, Marie-Pierre W 08
 Joncas, Sebastien O 35
 Jones, Alexander P 031
 Jones, Rod T 13
 Joseph, Arun WP 042
 Josephson, Mark WP 132, WP 133
 Ju, Shenghong WP 134
- Juan, Yu-Hsiang P 245
 Juhász, Csilla WP 095
 Jung, Werner P 191
 Jánosa, Barbara WP 095
 K V, Manoj P 213
 Kabra, Ashish M 10
 Kachenoura, Nadja P 006, P 017, P 042, P 310, P 355, WP 018, WP 094
 Kadiyala, Madhavi P 371
 Kakarla, Jayant P 028
 Kalam, Kashif P 362
 Kali, Avinash O 13, O 21, O 74, P 166, WP 125, WP 126
 Kalil, Roberto O 79, P 290, P 293, P 348
 Kalisz, Kevin WP 008
 Kallianos, Kimberly P 380
 Kallifatidis, Alexandros P 364
 Kamenicky, Peter P 042, P 310
 Kammerlander, Andreas O 33, P 308
 Kamperidis, Vasileios P 364
 Kanagala, Prathap P 102, P 320, P 356
 Kandalam, Vijay O 35, P 033, WP 056
 Kang, Joon-Won P 176
 Kansal, Preeti P 399
 Kanski, Mikael WP 017
 Kantasis, Georgios P 048
 Kanzaki, Yumiko WP 073
 Karamitsos, Theodoros O 28, O 81, O 98, O 99, P 271, P 309, WP 055, WP 065, WP 071
 Karavitaki, Niki P 271
 Karim, Rashed P 041
 Karlsson, Magnus O 101
 Karmarkar, Parag P 235
 Karmelita-Katuliska, Katarzyna P 331
 Karvounis, Haralambos P 364
 Karwat, Krzysztof P 151
 Kassiss, Hayah P 229
 Kassubek, Jan P 277
 Kato, Mahoto P 373
 Kato, Shingo P 284, P 351, WP 130
 Katus, Hugo P 087, P 384, WP 009, WP 069
 Kawai, Hiroya P 183
 Kawaji, Keigo O 2, P 129, P 214, W 23
 Kawana, Masatoshi P 333
 Kawel-Boehm, Nadine O 25
 Keavney, Bernard P 028
 Kececioglu, Deniz WP 082
 Keegan, Jennifer M 01, O 78, P 221, T 7, WP 039
 Keenan, Katy W 36
 Keevil, Stephen O 48
 Keilberg, Petra P 346, P 365, WP 101
 Kelle, Sebastian P 340, P 400, WP 060
 Keller, Marc P 287
 Keller, Marius WP 009
 Kellihan, Heidi WP 058
 Kellman, Peter M 08, O 27, O 37, P 005, P 034, P 037, P 056, P 154, P 221, P 315, W 06, W 20, WP 023, WP 032, WP 047, WP 053, WP 129
 Kelly, Damian O 11
 Kelm, Malte P 110, P 157, P 319, WP 012
 Kennedy, Jamie O 39
 Keogh, Anne O 32
 Kereiakes, Dean P 151
 Keymel, Stefanie P 110
 Khajali, Zahra P 215
 Khalifa, Ayman P 062, P 106, WP 030
 Khan, Jamal O 11, P 102, P 313, P 320, P 356
 Khan, Sarah WP 034, WP 131
 Khan, Tina P 137
 Khanji, Mohammed M 07, P 092, P 122, P 353, P 398
 Kharabish, Ahmed P 216

AUTHOR INDEX

- Khiew, Ning Zan P 158
 Kholmovski, Eugene P 233
 Kidambi, Ananth O 31, P 021, P 080, P 117, P 156, P 163, P 177, P 182, P 257, P 285, P 297, P 407, WP 063
 Kido, Tomoyuki O 63, WP 064
 Kiely, David P 174, P 338, P 350
 Kieseewetter, Christoph P 396
 Kilner, Philip O 1, O 94, P 221, WP 010, WP 076
 Kim, Eun Kyoung P 278
 Kim, Han P 084
 Kim, Hee-won P 145
 Kim, Hyun WP 022
 Kim, Jiwon P 327
 Kim, Jun Sung P 109
 Kim, Jung-Eun P 109
 Kim, Pan-ki P 020
 Kim, Raymond P 084
 Kim, Sung Mok P 278, P 301
 Kim, Tae Hoon P 288
 Kim, Yeo-Koon WP 066
 Kim, Young Jin O 74
 Kimura, Makiko P 333
 Kindermann, Ingrid O 80
 Kingdom, John O 92, P 027, P 201
 Kingdom, Theo M 09
 Kissinger, Kraig O 14, P 284, P 337, P 351, T 6, WP 132, WP 133
 Kitagawa, Kakuya O 51, O 84
 Klem, Igor P 084, P 169
 Klix, Sabrina P 013
 Klug, Gert P 125, P 127, P 134, P 146, P 159, P 178, P 194
 Kobayashi, Hitomi P 378
 Kobayashi, Seiichi P 183
 Kobayashi, Yasuyuki P 378
 Kocaturk, Ozgur O 19, O 23, P 235, P 236, P 414, WP 015
 Kociemba, Anna P 160, P 162, P 331
 Koerperich, Hermann WP 082
 Kolbitsch, Christoph P 239
 Kolipaka, Arunark P 035
 Kolla, Bhaskar P 367
 Komatsu, Yuki P 234
 Komori, Yoshiaki P 054, P 306
 Konen, Eli P 291, WP 070
 Konen, Osnat WP 070
 Kong, Lingyan O 61, T 12
 Koo, Maria WP 049
 Koperstein, Rafi P 291
 Korbonits, Marta P 271
 Korosoglou, Grigorios P 087, P 384, WP 009, WP 069
 Kostis, William P 016, O 3
 Kotooka, Norihiko P 054
 Koul, Sasha P 090, P 139, P 194, WP 127
 Koulogiannis, Konstantinos P 262
 Koulouroudias, Marinos P 092, P 122
 Kowalik, Grzegorz WP 002
 Kowallick, Johannes P 066, WP 067, WP 105
 Kozerke, Sebastian O 100, P 016, P 076, P 081, P 088, WP 112
 Kozlov, Shawn P 154
 Krahn, Philippa O 24
 Kramer, Christopher O 40, P 148, P 287, P 326, WP 045
 Kramer, Hans-Heiner O 58, P 070, P 103, W 25, WP 079, WP 091, WP 096
 Kramer, Sage WP 114
 Krasemann, Thomas P 366
 Krause, Ulrich P 269
 Krautz, Birgit P 087
 Krieger, Jose P 348
 Krishnamurthy, Rajesh P 029, P 211, P 212, P 403, WP 081
 Krishnamurthy, Ramkumar P 029, P 211, P 212
 Kristo, Ines P 070, WP 079, WP 091, WP 096
 Krum, Henry P 191
 Krupickova, Sylvia O 56
 Kuehne, Titus P 202, W 15, W 22, WP 060, WP 084
 Kugel, Harald P 072
 Kukar, Nina P 327
 Kumar, Esha P 186, P 375
 Kunihiro, Kiuchi P 183
 Kunimoto, Satoshi P 373
 Kunze, Karl P 232
 Kuo, Yung-Chih P 250
 Kurtz, Bernward P 189
 Kutty, Shelby P 066, P 202, P 207, WP 028, WP 067, WP 081, WP 084, WP 102
 Kvernby, Sofia W 16
 Kwong, Raymond O 7, P 032, P 237, P 243
 Kyavar, Majid WP 092
 Köhler, Benjamin P 415
 Kühn, Andreas WP 077
 La Manna, Alessio P 152
 Lacerda, Sara O 102
 Lachmann, Helen O 27
 Ladouceur, Magalie WP 094
 Lagerstrand, Kerstin P 329, P 361
 Lai, Peng WP 036
 Lakhman, Yulia P 327
 Lalande, Alain P 055, P 307
 Lam, Wendy P 225
 Lamacié, Mariana P 311
 Lamata, Pablo M 12, O 77, WP 028, WP 067
 Lamb, Hildo P 046, P 097
 Lamy, Jerome P 006, P 042
 Landzberg, Michael WP 102
 Lane, Thirusha O 27
 Lang, Roberto O 2, P 094, P 129, P 214, W 23
 Langham, Michael P 406
 Lanocha, Magdalena P 160, P 162, P 331
 Larsen, Terje P 194
 Laser, Kai WP 082
 Lathra Mathew, George W 26
 Lau, Justin WP 007
 Lau, KH P 225
 Laub, Gerhard O 72, P 410
 Lauerer, Peter P 269
 Laurent, François O 22
 Lavagnoli, Carlos Fernando O 75
 Lavin Plaza, Begona WP 111
 Lawton, Chris O 66, P 124, P 126, P 138, P 238, P 386, T 3, T 4, T 5, WP 113
 Le Folgoc, Loic P 234
 Leader, Josh WP 063
 Lederman, Robert O 19, O 20, O 23, P 235, P 236, P 414, WP 015
 Lee, Ashley P 172
 Lee, Bongju O 30
 Lee, Daniel M 03, P 064, P 113, WP 008, WP 016, WP 025
 Lee, James M 10
 Lee, Joonsung P 020
 Lee, Joshua P 086
 Lee, Nam Ju O 30
 Lee, Sang-Chol P 278, P 301
 Lee, Seung-Ah P 109
 Leeson, Paul O 77
 Lefrançois, William O 70, P 258
 Leiner, Tim P 231, WP 128
 LeMaire, Scott P 403
 Leonard, Mary P 208
 Leonardi, Benedetta P 209
 Leong, Darryl O 10, P 077, P 116
 Leonhardt Altmayer, Stephan Philip P 170
 Lerakis, Stamatios P 345

AUTHOR INDEX

Lerche, Mathilde	O 101	Lurz, Philipp	P 108, WP 048
Lesser, John R.	WP 059	Lydell, Carmen	P 033, WP 056, O 35
Levelt, Eylem	O 28, O 98, O 99, P 249, WP 055	Lyen, Stephen	O 66, P 305, P 323, P 386, T 3, WP 113
Lewandowski, Adam	O 77	Lyons, Alexander T 7	
Lewin, Mark	P 206	Lyons, Jennifer	P 115
Lewis, Andrew	O 28, O 16	Lyons, Karen	P 029
Li, Debiao	O 12, O 17, O 50, O 72, O 74, P 001, P 034, P 141, P 402, P 412, WP 011, WP 061, WP 122, WP 125, WP 126	Lysiak, Darius Georg	WP 108
Li, Mabel	P 248	Lythgoe, Mark	M 04
Li, Qin	P 275, WP 068	Ma, Ka Fai Johnny	P 281
Li, Yan	P 148	Ma, Xiaohai	P 083, P 266
Liao, Ben-An	P 245	Ma, Zhanhong	P 185
Liao, Jichun	P 273	Macchi, Silvia	P 357
Liberato, Gabriela	P 290, P 348	Macdonald, Jacob	M 02, P 026
Lighton, Alice	P 092, P 122	Maceira, Alicia	P 012, P 161
Lim, Cheong	P 109	MacGillivray, Thomas	P 252
Lim, Jessie Mei	M 09, P 205	Macgowan, Christopher	M 09, O 55, O 60, O 92, P 027, P 201, P 205, W 13
Lim, Ruth	P 397	Maclver, David	P 325
Lim, Tae-Hwan	P 176	Mackie, Sarah	P 407
Lima, Joao	O 25, O 67, P 019, P 322	MacNaught, Gillian	P 248
Lin, Bryan	P 014	Madadi, Shabnam	WP 092
Lin, Gigin	P 245	Madathil, Sujana	O 92, P 027, P 201, P 205
Lin, Kimberly	P 287	Madershahian, Navid	WP 033
Lin, Lu	O 61, T 12	Madriago, Erin	P 198
Lindau Liljekvist, Love	P 052	Maertens, Malte	P 384
Lindsay, Mitchell	O 26, O 53, O 54, WP 052	Maestrini, Viviana	O 27, P 274, P 312, WP 129
Litt, Harold	O 30	Maffessanti, Francesco	P 214, P 392
Little, Stephen	P 335, P 336	Mafrici, Antonio	P 118
Liu, Alexander	O 98, P 107, W 01, WP 005, WP 055	Magalhães, Tiago	P 311
Liu, Chia-Ying	O 67	Maganti, Kameswari	P 064
Liu, Garry	P 404, W 33, WP 007	Magaña, Jorge	P 204, P 270
Liu, Jennifer	P 327	Magee, Derek	P 093
Liu, Min	P 185	Magne, Julien	P 369
Liu, Rebecca	P 272	Magrath, Patrick	WP 103
Liu, Shizhen	M 10	Mahmod, Masliza	O 28, O 98, P 309, WP 055
Liu, Ting	P 172	Mahmoudi, Morteza	P 254, WP 119
Liuba, Petru	WP 051	Mahrholdt, Heiko	O 80, WP 069
Lloyd, Rachael	O 83	Maintz, David	W 12, WP 033
Lockey, Joseph	O 81, WP 065, WP 071	Mair, Johannes	P 127, P 134, P 146
Loebe, Ulrike	O 68	Mairer, Klemens	P 125
Loewen, Andreas	P 302	Makram, Abram	WP 030
Lombardi, Massimo	P 200	Maksuti, Elira	P 079
lombardi, Massimo	P 377	Malaisrie, S.	P 039, P 314, P 399
Lombardi, Massimo	WP 059	Malonga, Grace	P 387
Lopes, Bernardo	O 79, P 348	Mancini, Christine	WP 053
Lopes, Marly	O 62, O 79, W 18	Mandry, Damien	P 167
Lopez-Lereu, M.Pilar	P 012	Manghat, Nathan	O 66, P 305, P 323, P 324, P 325, P 386, P 405, P 411, T 3, T 4, T 5, WP 113
Lopez-Martin, Gonzalo	WP 003	Mangiameli, Daniel	O 96
Losada, Nicolle	P 394	Mangion, Kenneth	O 9, P 104
Lossitzner, Dirk	WP 028	Manisty, Charlotte	O 27, O 89, P 004, P 008, P 011, P 056, P 092, P 122, P 164, P 274, P 312
Lotz, Joachim	P 066, P 269, WP 105	Manka, Robert	P 088
Lou, Pey Wen	O 83	Manlhiot, Cedric	P 334
Loudon, Margaret	O 88, P 330	Manning, Warren	O 14, P 284, P 337, P 351, P 416, T 6, W 03, W 05, W 29, WP 059, WP 130, WP 132, WP 133
Loughlin, Gerard	P 286	Maragiannis, Dimitrios	P 335, P 336
Lowe, Boris	P 175	Marasini, Maurizio	WP 104
Lowie, van Assche	P 084	Marc, Claeys	P 343
Lu, Aiming	P 413	Marcelino, Mafalda	P 271
Lu, Jimmy	WP 099	Marchesseau, Stephanie	P 061
Lu, Junfei	WP 021	Marcoff, Leo	P 262
Lu, Minjie	P 034, P 299	Marcotte, François	WP 115
Ludolph, Albert	P 277	Marcus, J. Tim	WP 044
Ludwig, Anna	WP 031, WP 083, WP 090	Maret, Eva	P 065
Luecke, Christian	P 108	Margeta, Jan	P 234
Lugand, Emeline	W 30	Marie, Pierre-Yves	P 167
Luijten, Peter	P 015, WP 128	Marieb, Mark	P 358, P 368
Luining, Wietske	WP 089	Marini, Claudia	P 271
Lukyanenok, Pavel	P 256		
Lund, Gunnar	O 90, P 101, P 112, P 130, P 265, P 268, P 304		
Lundin, Magnus	P 065, WP 047		

AUTHOR INDEX

- Marino, Marco P 392
 Markenroth Bloch, Karin WP 017
 Markl, Michael M 03, O 68, O 96, P 039, P 074, P 113, P 314, P 399, WP 016, WP 025, WP 103
 Markowitz, Steven P 387
 Maron, Barry J. WP 059
 Maron, Martin WP 059
 Marous, Ahmed O 26, O 53, O 54, WP 052
 Marques, Hugo P 131
 Marrouche, Nassir P 233
 Marsiglia, Julia P 348
 Martinez-Sellés, Manuel P 286
 Martinoff, Stefan O 86, P 216, P 223, WP 077, WP 087
 Martins de Oliveira, Pedro Paulo O 75
 MARTY, Benjamin P 267, P 363
 Marzluf, Beatrice P 308
 Mascherbauer, Julia O 33, P 308
 Masci, Pier Giorgio WP 062
 Maskatia, Shiraz WP 081
 Mason, Maureen O 9, P 104
 Matetzky, Shlomi P 291
 Mathias, Helen P 305
 Mathur, Sujeev O 91, P 044
 Matsuura, Yuka P 254
 Matthews, Paul O 81, O 99, WP 065, WP 071
 Mattingly, Andrea WP 114
 Mattos Souza, Jose Roberto O 75
 Mavrogeni, Sophie P 366
 Maximova, Alexandra P 256
 Mayr, Agnes P 125, P 302
 Mayr, Manuel P 049
 Mazal, Jonathan O 19, O 20, O 23
 Mazimba, Sula O 39
 Mazumder, Ria P 035
 Mazur, Wojciech P 151, P 279
 McAlindon, Elisa O 29, P 126, P 138, P 238
 McCann, Gerry O 11, P 102, P 177, P 313, P 320, P 356, T 10
 McCarthy, Karen WP 010
 McCarthy, Patrick P 314
 McClain, Sally P 300
 McClelland, Robyn P 322
 McClure, John O 9, P 104
 McConnell, Joe O 7
 McConnell, Michael P 115
 McCrindle, Brian P 334
 McDiarmid, Adam O 31, O 82, P 021, P 050, P 080, P 117, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407, WP 063
 McEntegart, Margaret O 26, O 53, O 54, O 9, P 104, WP 052
 McEwan, Angus O 56
 McGavigan, Andrew P 191
 McGill, Laura-Ann O 1, O 38, P 025, WP 010
 McGraw, Sloane O 36
 McIntyre, Bethannie P 324
 McKenna, William P 272, P 274
 McKenzie, Emmett WP 081
 McKillop, Graham P 252
 McLaughlin, Jeannette O 5, P 317
 McLeod, Kristin P 283
 McMahon, Gearóid P 416
 McNeal, Gary P 397, WP 098
 Meave, Aloha P 204, P 270
 Medwid, Hanna P 033, WP 056
 Mehling, Heidrun P 013
 Mehta, Bhairav O 39, O 40, W 04
 Mehta, Puja P 141
 Meierhofer, Christian P 216, P 223, WP 077, WP 087
 Meira, Zilda P 293
 Mekkaoui, Choukri O 3, P 016
 Mekonnen, Bethlehem P 368
 Melendez, Gabriela P 204, P 270
 Melo, Rodrigo P 290, P 293
 Meloni, Antonella P 339, P 346, P 357, P 365, P 376
 Memon, Shermeen P 318
 Menezes, Leon O 41, P 008
 Menini, Anne WP 029
 Menon, Prahlad P 197
 Menza, Marius O 46
 Merchant, Naeem O 35, P 033, P 362, WP 056
 Merchant, Tazim P 371
 Mereles, Derliz WP 009
 Merkely, Béla P 043, P 058, P 123, P 128, WP 095
 Merritt, Matthew O 15
 Merishina, Elena P 135
 Merten, Constanze O 85, WP 075
 Messas, Emmanuel P 203
 Messroghli, Daniel M 08, O 100, W 15, W 22
 Metzler, Bernhard P 125, P 127, P 134, P 146, P 159, P 178, P 194
 Meyer, Craig P 148, P 408
 Mihai, Georgeta W 31
 Mihai, Radu P 271
 Mikami, Yoko O 35, P 033, WP 006, WP 019, WP 056
 Mikolich, Brandon P 229
 Mikolich, J. Ronald P 229
 Milazzo, Angela P 347
 Milewicz, Dianna P 403
 Miller, Christopher M 06,
 M 08, O 47
 Miller, Steven M 09, O 55, O 92, P 027, P 201, P 205, W 13
 Mills, Nicholas WP 049
 Minor, Matthew P 086
 Miquel, Marc P 057
 Mirabel, Mariana P 274
 Miraux, Sylvain O 70, P 258
 Mirelis, Jesus WP 003
 Mirsadraee, Saeed P 252
 Mirza, Omer O 36
 Misener, Sol WP 135
 Missere, Massimiliano P 357
 Miszalski-Jamka, Karol P 151
 Miszalski-Jamka, Tomasz P 151
 Mitsutake, Yoshiaki P 115
 Miyazaki, Mitsue P 413
 Miyazaki, Tetsuro P 246
 Mizuno, Naokazu P 073
 Mkhitarian, Karen WP 109
 Mkrtchyan, Naira WP 087
 Mnif, Najla W 21
 Mochizuki, Teruhito O 63, WP 064
 Mochula, Olga P 255
 Moghaddam, Abbas P 053, P 075, P 391
 Mohamed, Ambreen P 169
 MOHD AMIN, NOR HANIM P 158
 Mohdnazri, Shah P 164
 Mohiaddin, Raad P 221, P 360, T 7, WP 039
 Mohiddin, Saidi M 07, O 25, P 019, P 184
 Mohler, Emile P 406
 Mohty, Dania P 369
 Mojibian, Hamid P 358, P 368
 Mojsejenko, Dimitri WP 120
 Monmeneu, Jose Vicente P 012
 Monney, Pierre WP 035
 Montaudon, Michel O 22
 Monteagudo, Marta P 161
 Montero, Anastasio P 161
 Moon, James M 08, O 25, O 27, O 41, O 89, P 004, P 008, P 011, P 056, P 092, P 122, P 164, P 274, P 312, WP 023, WP 047, WP 129
 Moore, Tyler P 198
 Moosig, Frank WP 075
 Mor-Avi, Victor P 094, P 129, P 214, P 392
 Morales, John P 144

AUTHOR INDEX

- Mordi, Ify O 26, O 53, O 54, P 379, WP 050, WP 052
 Moreira, Valéria P 311
 Morel, Chantal WP 068
 Morgan, Ann P 407
 Morgan, Ross P 239
 Morikawa, Lily WP 007
 Morillas, Herminio P 161
 Morowitz, Layne WP 099
 Morris, Alan P 233
 Morris, Shaine P 403
 Moscicki, Rafal WP 074
 Most, Patrick P 087
 Motwani, Manish WP 063
 MOULIN, Kevin P 383
 Mouratoglou, Sophia-Anastasia P 364
 Mousseaux, Elie P 006, P 017, P 042, P 203, P 310, P 355, WP 018, WP 094
 Mroczek, Dariusz WP 089
 Muehlberg, Fabian P 228
 Muellerleile, Kai O 90, P 101, P 112, P 130, P 265, P 268
 Mukai, Kanae P 241
 Mullen, Gregory WP 014
 Murch, Stuart P 312
 Murillo, Margarita WP 010
 Murphy, Ian P 314
 Murphy, Jerry P 187
 Murtagh, Gillian WP 135
 Musa, Tarique O 31, O 82, P 021, P 080, P 117, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407, WP 063
 Musani, Muzammil WP 099
 Muscogiuri, Giuseppe O 71, O 8, P 209, P 349
 Muthukumar, Lakshmi P 317
 Muthurangu, Vivek O 56, O 65, P 031, P 195, P 260, T 13, WP 002
 Muthusami, Prakash P 201, P 205
 Myerson, Saul O 88, P 007, P 249, P 330
 Müller, Jan WP 077
 Müller, Katja WP 082
 Müller, Silvana P 159
 Münch, Frédéric W 15, W 22
 Nadar, Mariappan P 003, WP 035
 Nadeau, Kristen P 409
 Nadeshalingam, Gobinath WP 110, WP 115
 Nadjiri, Jonathan O 86
 Nagata, Motonori O 84
 Nagel, Eike O 32, P 049, P 052, P 085
 Nakai, Toshiko P 373
 Nakajima, Yasuo P 378
 Nakamori, Shiro O 84
 Nakamura, Debora O 49, P 290
 Nakamura, Masashi O 63, WP 064
 Nakayama, Ryohei O 51
 Nakazono, Takahiko P 054
 Nambi, Vijay WP 116
 Napan, Sirikarn P 179
 Naresh, Nivedita P 082
 Nasis, Arthur P 011, P 274, WP 129
 Nassar, Mohamed P 219, WP 088
 Nasser, Sarah P 340
 Nastase, Oana P 359
 Nathan, Sandeep P 094, P 129
 Natsuaki, Yutaka P 397, P 402, P 410
 Naumann, Susanne P 223
 Navarro, Silvia WP 100
 Nayak, Krishna P 051, P 145
 Nazarian, Saman P 019
 Nazir, Sheraz O 11, P 102, P 320, P 356
 Nederveen, Aart P 015
 Neil, Christopher P 149, P 280
 Neilan, Tomas O 75
 Neill, Johanne O 64
 Neizel-Wittke, Mirja P 110, P 157, P 319, WP 012
 Nekolla, Stephan P 232
 Nelson, Michael P 141
 Neri, Mari Giovanna P 339, P 346, P 357, P 365, P 376
 Nessler, Jadwiga P 151
 Neubauer, Stefan O 16, O 28, O 81, O 88, O 98, O 99, P 007, P 023, P 107, P 247, P 249, P 271, P 309, P 330, W 01, WP 005, WP 055, WP 065, WP 071
 Neumann, Daniel P 228
 Neumann, Heiko WP 020
 Newby, David P 252, WP 049
 Newman, Beverley WP 093
 Newton, Ayla O 41
 Nezafat, Maryam P 120
 Nezafat, Reza O 14, P 284, P 337, P 351, W 03, W 05, W 07, W 09, W 29, WP 001, WP 130, WP 132, WP 133
 Ng, Bernice P 259, P 280
 Ng, Jason M 03, WP 016, WP 025
 Ng, Koon-Kwan P 245
 Ng, Leong P 356
 Ng, Ming-Yen P 275
 Ng, Shu-Hang P 245
 Nguyen, Christopher P 034
 Nguyen, Kim-Lien W 02
 Nguyen, Thuy WP 105
 Nickander, Jannike P 065, WP 047
 Nielles-Vallespin, Sonia O 1, O 38, P 005, P 025, P 154, W 20, WP 010
 Nielsen, James P 321, WP 099
 Niemann, Markus P 088
 Niendorf, Thoralf P 009, P 013, WP 108
 Nightingale, Angus O 29, O 87, P 323, P 324, P 325, P 405, P 411
 Nobrega de Oliveira, Karina O 62, W 18
 Noce, Vincenzo P 292
 Noda, Chikara O 67
 Node, Koichi P 054
 Noel, Cory P 211, P 212
 Nolte, Daniel O 77
 Noorani, Alia P 396
 Nordlund, David P 139, P 194
 Nordrehaug, Jan Erik P 090, P 139
 Nordsletten, David O 57
 Norman, Wendy T 13
 Ntusi, Ntobeko O 81, O 99, WP 065, WP 071
 Nuti, Ranuccio P 121
 Nyktari, Evangelia W 24, W 26
 Nystrom, Michelle P 393
 O h-Ici, Darach O 100, W 15
 O'Donnell, Christopher P 416
 O'Meara, Celia O 41
 O'Regan, Declan M 11, O 44
 O'Sullivan, John P 028
 Ochs, Andreas WP 069
 Odille, Freddy P 167, WP 029
 Oezerdem, Celal P 013
 Oguro, Ricardo P 293
 Oh, Il-Young P 109
 Oh, Jae P 278
 Ohyama, Yoshiaki O 67
 Oishi, Shogo P 183
 Okafor, Ikechukwu (Ikay) WP 106
 Okajima, Katsunori P 183
 Okumura, Yasuo P 373
 Oldroyd, Keith O 26, O 53, O 54, O 9, P 104, WP 052
 Olga, Bogomyakova P 414
 Oliva, Esther P 376
 Olive, Mary WP 081
 Olivera, Maria José P 286
 Olivotto, Iacopo WP 059

AUTHOR INDEX

Olson, Aaron	P 206	Perdrix, Ludivine	WP 018
Ong, Peter	O 80	Pereira, Alexandre	P 348
Ong, Tiong Kiam	P 158	Pereira, Fabricio	O 3, P 016
Onishi, Tetsuari	P 183	Pericart, Lauriane	P 354
Oppolzer, Barbara	P 108	Perne, Andrea	O 80
Orchard, Elizabeth	P 330	Pernow, John	P 105, WP 127
Ordovas, Karen	P 380	Pernter, Bastian	P 159
Oshinski, John	P 032, WP 106	Perry, Rebecca	P 077, P 116
Ostenfeld, Ellen	P 294	Pershina, Ekaterina	P 135
Ou, Phalla	P 207	Peters, Dana	P 060, P 142, P 358, P 368, W 17
Ourselin, Sebastien	P 041	Peterschröder, Andreas	WP 082
Ouyang, Cheng	P 413	Petersen, Steffen	M 07, O 25, P 019, P 057, P 092, P 122, P 353, P 398
Overall, William	P 393	Petersson, Sven	O 45
Oyama-Manabe, Noriko	P 416	Petrie, Mark	O 26, O 53, O 54, O 9, P 104, WP 052
Paccagnini, Stefania	P 118	Petrose, Lia	P 400
Pacheco, Ariane	P 290	Petrucci, Orlando	O 75
Paelinck, Bernard	P 343	PHAM, MINH	P 103, W 25, WP 079, WP 091, WP 096
Pak, Vitali	WP 101	Phinikaridou, Alkystis	O 102, P 010, WP 111
Pal, Nikhil	O 28, P 309	Pica, Silvia	O 27
Palazzuoli, Alberto	O 87, P 121	Piccini, Davide	O 71, WP 035, WP 098, WP 121
Pandya, Bejal	O 65, P 195	Pickett, Stephen	WP 116
Pang, Jianing	O 50, WP 125	Piechnik, Stefan	O 28, O 81, O 99, P 023, P 107, P 271, P 312, W 01, WP 005, WP 055, WP 065, WP 071, WP 129
Pankalla, Cornelia	O 86	Piebler, Kayla	M 08
Paolino, Annalisa	WP 100	Piers, Sebastiaan	P 046
Papalia, Francesco	P 184	Pigazzani, Filippo	P 153
Pardun, Eileen	O 58	Pignatelli, Ricardo	P 212
Parekh, Keyur	WP 103	Pilla, James	P 037
Paridon, Stephen	O 93, P 208	Pilz, Guenter	P 155
Parikh, Jehill	P 028	Pimenta, Joana	WP 067
Parikh, Kalindi	P 096	Pintard, Pierre-Jean	P 019
Parikh, Manish	P 188	Pitrolo, Lorella	P 365
Parizel, Paul	P 343	Pitsiou, Georgia	P 364
Park, Chul Hwan	P 288	Platonov, Pyotr	P 089
Park, Jin Joo	P 109	Pleger, Sven	P 087
Park, Kay-Hyun	P 109	Plein, Sven	O 31, O 82, P 021, P 045, P 050, P 080, P 093, P 117, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407, WP 063
Park, Seung Woo	P 278	Plodkowski, Andrew	P 327
Park, Sung-Ji	P 278	Plotnik, Adam	WP 026, WP 131
Parke, Kelly T 10		Pluchinotta, Francesca R.	P 200
Parker, Kim	O 78, WP 072	Podgorski, Christopher	P 014
Parker, Michele	P 084	poggiali, erika	P 118
Parks, W. James	P 417, WP 098	Pollack, Simcha	P 371
Parnham, Susie	O 10, O 83, P 116	Polsani, Venkateshwar	M 10
Parra, Begoña	P 227	Polte, Christian	P 329, P 361
Pascual, Alejandro	WP 074	Pongiglione, Giacomo	P 209
Passick, Michael	O 5	PONTNAU, Florence	P 017, P 203, WP 018
Patel, Amit	O 2, P 094, P 129, P 170, P 214, P 392, P 394, W 23	Pop, Mihaela	O 24, P 111, W 33, WP 007
Patel, Hitesh	T 7, WP 039	Popov, Sergey	P 255
Patel, Jyoti	P 287	Porayette, Prashob	O 55, W 13
Patel, Mita	P 094, P 129	Porter, John	P 312
Patel, Shivani	P 207	Positano, Vincenzo	P 339, P 346, P 357, P 365, P 376
Patel, Sonali	P 409	Potters, Wouter	P 074
Paton, Julian	P 323, P 324, P 325, P 405, P 411	Powell, Alexander L.	P 074
Pauchard, Irene	O 35	Powell, Andrew	P 036, WP 102
Paul, Jan	WP 020	Powell, David	P 078, WP 057, WP 114, WP 118, WP 120, WP 107
Paul, Katharina	P 013	Prakash, Ashwin	O 59
Paul, Thomas	P 269, WP 105	Prasad, Sanjay	M 01, O 1, O 78, P 191, P 360, T 7, W 24, W 26, W 28, WP 072
Payne, Alexander	O 9, P 104	Prato, Frank	WP 019, WP 126
Payne, Hergen	W 15	Preim, Bernhard	P 415
Payne, William	P 403	Prendergast, Bernard	O 88
Pearce, Valerie	P 300	Preziosi, Paolo	P 365
Pednekar, Amol	P 029, P 212	Prince, Martin	O 25
Pedrotti, Patrizia	P 118, P 347	Prinz, Dominic	P 157
Peebles, Charles	O 11, P 091, P 328, T 1	Procissi, Daniele	WP 135
Peel, Sarah	O 48	Prothmann, Marcel	P 009, WP 108
Pennell, Dudley	O 1, O 38, O 94, P 025, P 137, P 221, P 360, T 7, W 24, W 26, W 28, WP 010, WP 072, WP 076, WP 117		
Pepe, Alessia	P 339, P 346, P 357, P 365, P 376		
PERDRIX, Ludivine	P 017		

AUTHOR INDEX

- Protti, Andrea P 120
 Puchaux, Julien P 342, P 354
 Puchner, Stefan P 172
 Puntmann, Valentina O 32, P 049
 Pushparajah, Kuberan M 12, O 57, O 91, P 044
 Pyda, Magorzata P 160, P 162, P 331
 Pyle, Laura P 409
 Pérez-David, Esther P 143, P 286
 Pöss, Janine O 34
 Qi, Xiuling P 111, P 404
 Qian, Zhen M 10
 Qu, Xiaofeng P 402
 Quail, Michael P 195
 Quattrocchi, Giuseppina P 347
 Quennelle, Sophie O 59
 Quayam, Sadia P 260
 Raake, Philip P 087
 Rabbat, Mark P 244, P 318, P 352, P 372
 Rad, Hamidreza P 391
 Rademakers, Frank P 043, P 058, P 123, P 128
 Radjenovic, Aleksandra O 26, O 53, O 54, P 093, WP 052
 Radulescu, Aurelia WP 057
 Radunski, Ulf O 90, P 101, P 112, P 130, P 265, P 268, P 304
 Rafiq, Isma O 91
 Raghav, Vrishank O 96
 RAISSUNI, Zainab P 042, P 355
 Raj, Vimal P 213, P 222
 Rajewska-Tabor, Justyna P 160, P 162, P 331
 Rakowski, Harry WP 059
 Ramadane, Chawkat W 21
 Ramadeen, Andrew WP 007
 Raman, Subha P 279, P 381, W 08
 Ramanan, Venkat O 24, W 33
 Ramanna, Hemanth P 230
 Rangarajan, Vibhav O 36
 Range, Felix P 110, P 319
 Ranjan, Ravi P 233
 Rao, Anupama P 005
 Rapacchi, Stanislas P 388, P 410, WP 026, WP 124, WP 131
 Rapezzi, Claudio WP 059
 Raphael, Claire M 01, O 78, P 360, W 26, WP 072
 Rasche, Volker P 095, WP 020
 Rashid, Shams WP 026
 Rassi, Carlos P 293
 Rastin, Sanaz W 22
 Ratcliffe, Laura P 323, P 324, P 325, P 405, P 411
 Rathod, Rahul M 12
 Ratnayaka, Kanishka O 19, O 20, O 23, P 235, P 414
 Rauhalammi, Samuli O 26, O 53, O 54, WP 052
 Rawicz-Zegrzda, Dorota P 040
 Rayarao, Geetha P 168, P 240, P 296, T 2, T 8, T 9
 Razavi, Reza M 12, O 57, P 044, P 199, P 366, WP 078
 Reant, Patricia O 27, O 89, P 274
 Rears, Hannah O 37
 Redheuil, Alban O 67, P 006, P 042, P 310, P 355, WP 094
 Regier, Marc P 304
 Rehwald, Wolfgang O 8
 Reichel, Nathaniel P 371, W 32
 Reid, Anna M 06, O 47
 Reinhardt, Lysann WP 054
 Reinstadler, Sebastian P 127, P 134, P 146, P 159, P 178
 Reiser, Carolina O 49, O 79
 Reisner, Slade P 014
 Reiter, Stephanie P 155
 Relan, Jatin P 234
 Renella, Pierangelo WP 034
 Renker, Matthias O 71
 Renne, Stefania P 346, P 376
 Renni, Roberta P 339
 Renteria, Eric P 198
 Resta, Maria Chiara P 357
 Restaino, Gennaro P 365, P 376
 Revstedt, Johan O 18, P 038
 Rey-Rodriguez, Alejandro P 227
 Reyhan, Meral WP 022, WP 034
 Rezakova, Mariya P 414
 Rhode, Kawal P 041
 Ribot, Emeline Julie P 258
 Richardt, Gert O 85, WP 075
 Rickers, Carsten O 58, P 070, P 103, W 25, WP 079, WP 091, WP 096
 Rider, Oliver O 16, P 309
 Rieger, Jan P 013, WP 108
 Riesenkaempff, Eugenie WP 089
 Riffel, Johannes P 384, WP 009, WP 069
 Rigsby, Cynthia WP 103
 Rijal, Shasank P 226
 Riley, Robyn O 64
 Rinehart, Sarah M 10
 Rinelli, Gabriele P 209
 Ripley, David O 31, O 82, P 050, P 117, P 177, P 180, P 182, P 257, P 332, P 341, P 407, WP 063, P 021, P 045, P 080, P 156, P 163, P 285, P 297
 Rischpler, Christoph P 232
 Rizzo, Francesca WP 104
 Rizzo, Michele P 376
 Roberson, David P 214
 Robert, Benjamin P 383
 Roberts, Neil O 89
 Roberts, Thomas M 04
 Robson, Matthew O 98, P 023, P 107, P 247, P 249, W 01, WP 005, WP 055, WP 129
 Rocha, Liliane O 79, P 348
 Rochitte, Carlos O 49, O 79, P 290, P 293, P 311, P 348
 Rodgers, Chris O 98, P 247, P 249
 Rodgers, Christopher P 248, W 01
 Rodrigues, Jonathan O 87, P 305, P 323, P 324, P 325, P 405, P 411, T 3
 Rodríguez, Gladys P 272
 Rodriguez Castellanos, Luis P 204, P 270
 Rodrigus, Inez P 343
 Roest, Arno O 4, O 6, P 024, P 059, P 196, WP 038, WP 123
 Rogers, Kelly O 37
 Rogers, Toby O 19, O 20, O 23, P 049, P 235, P 236, P 414, WP 015
 Roghi, Alberto P 118, P 347
 Rogovskaya, Yuliya P 256
 Rohan, Stephen P 325
 Roifman, Idan P 147, P 150, P 395
 Roistacher, Nancy P 327
 Roldán-Alzate, Alejandro P 067, WP 058, WP 097
 Roman, Mary P 387
 Romano, Anthony P 035
 Romero, Nieves WP 100
 Rooney, William P 251
 Rosato, Edoardo P 264
 Roseman, Daniel P 416
 Rosen, Boaz P 322
 Rosen, Stuart T 7
 Rosenbaum, David P 006
 Rosenberg, Christina WP 105
 Rosenbohm, Angela P 277
 Rosmini, Stefania P 008, P 011, P 056, P 164, P 312, WP 129
 Rossano, Joseph P 287
 Rost, Franziska P 384
 Rottbauer, Wolfgang P 095, P 098, WP 020
 Roujol, Sébastien O 14, P 284, P 337, P 351, W 03, W 05, W 07, W 09, W 29, WP 001, WP 130, WP 132, WP 133
 Rowin, Ethan WP 059
 Roy, Trisha P 404

AUTHOR INDEX

Rubenstein, Jason	P 181	Schaller, Benoit	P 247
Rudolph, André	P 009	Schanen, Pierre	P 302
Rueckert, Daniel	M 11	Schapiro, William	P 317
Rulifson, Eric	P 254, WP 119	Schelbert, Erik	M 08, P 226, P 367
Rusek, Stéphane	WP 109	Schenke, William	O 19, O 20, O 23
Russek, Stephen	W 36	Schiros, Chun	WP 024
Russo, Robert	P 241	Schmacht, Luisa	P 315
Rust, Lukas	P 087	Schmerler, Patrick	W 15
Rusu, Cristian	WP 013	Schmidt, Anna	P 261
Rutz, Tobias	P 223, WP 121	Schmidt, Ehud	P 032, P 237, P 243
Rydberg, Mattias	P 030	Schmidt, Michaela	O 63, O 64, P 002, P 003, P 069, WP 035, WP 043, WP 109
Rydman, Riikka	O 94, WP 076	Schmitt, Benjamin	O 64
Rådegran, Göran	P 294	Schmitt, Matthias	M 06,
Röntgen, Philipp	WP 046	M 08, O 47	
Rösch, Sabine	WP 031, WP 083, WP 090	Schnackenburg, Bernhard	O 90, P 101, P 340, W 12, WP 012, WP 060
Saba, Shahryar	WP 032	Schneeweis, Christopher	P 340, WP 060
Sabag, Avi	P 291	Schneider, Steffen	O 80
Saberniak, Jørg	P 283	Schnell, Susanne	M 03, P 039
Sabioni, Leticia	P 069, WP 043	Schocke, Michael	P 125, P 127, P 134, P 178, P 302
Sabisz, Agnieszka	P 040	Schoepf, U. Joseph	O 71, O 8
Sabri, Osama	P 108	Schreier, Jenna	WP 102
Sacchi, Terrence	P 169	Schroeder, Jan	P 347
Sado, Daniel	P 056, P 057, P 274, P 312	Schroeder, Joyce	P 014
Saha, Prakash	P 010, WP 111	Schuler, Gerhard	P 099, WP 048
Sahn, David	P 198	Schuleri, Karl	P 242, W 14
Sai, Eiryu	P 246	Schulz-Menger, Jeanette	O 68, P 009, P 013, P 228, P 315, WP 108
Said, Asri	P 158	Schumm, Julia	O 80
Saini, Brahmdeep	M 09, O 92, P 205	Schuster, Andreas	P 066, P 202, P 207, P 269, WP 028, WP 067, WP 069, WP 084, WP 105
Sakuma, Hajime	O 51, O 84	Schwab, Matthias	WP 031
Sala, Michiel	P 401	Schwaiger, Markus	P 232
Salem, Yishay	WP 070	Schwitter, Janine	WP 035
salemi, Antonella	P 152	Schwitter, Juerg	O 101, O 97, WP 035, WP 121
Salerno, Michael	O 39, O 40, P 148, P 326, P 408, W 04, WP 045	Schär, Michael	O 52, P 242, W 14
Sallee, Denver	P 417, WP 098	Schäufele, Tim	O 80
Salterain-Gonzalez, Nahikari	P 193	Scott, Andrew	O 1, O 38, P 025, WP 010
Salton, Carol	P 416	Secchi, Francesco	P 200
Salusky, Isidro	WP 131	Sechtem, Udo	O 80, WP 031, WP 083, WP 090
Salvador, Inmaculada	P 161	Secinaro, Aurelio	P 209
Samar, Huma	P 168, P 240, T 8, T 9	Seed, Mike	M 09, O 55, O 60, O 92, P 027, P 201, P 205, W 13, WP 089
Sami, Sarah	P 403	Seiberlich, Nicole	W 35, WP 041
Sammut, Eva	O 57	Seidner, Benjamin	P 127
Sampaio, Francisco	WP 067	Seifi, Azin	P 215
Sampaio, Roney	P 290	Seitz, Sebastian	WP 009, P 087, WP 069
Sanagala, Thriveni	P 318	Sekhri, Neha	M 07, P 092, P 122, P 184
Sanchez, Elena	P 161	Sekiguchi, Haruki	P 333
Sanchez, Maria Solange	O 49, P 348	Sellwood, Joanne	WP 055
Sanchez-Gonzalez, Javier	WP 003	Selvanayagam, Joseph	O 10, O 83, P 077, P 116, P 191
Sander, Yannick	P 087, WP 009	Semple, Scott	P 248, P 252, WP 049
sandhu, banher	P 049	Semsarian, Christopher	O 83
Sangle, Shirish	O 32	Sengupta, Partho	P 321
Santos, Juan	P 393	Sepulveda, Pilar	P 161
Sanz, Javier	P 321, WP 003	Serafim da Silveira, Juliana	P 381
Sanz-Ruiz, Ricardo	P 143	Sermesant, Maxime	P 234
Sardanelli, Francesco	P 200	Serrano Gotarredona, Maria Pilar	WP 100
Sarikouch, Samir	P 202, P 207, WP 084	Sessim Filho, Jacob	P 293
Sarli, Roberto	P 346	Sever, Emily	O 81, WP 065, WP 071
Sarnago Cebada, Fernando	P 143	Severino, Elaine	O 75
Sato, Keisuke	P 218	Sevilla, Arnel	P 210
Sato, Shuji	P 246	Shah, Anoop	WP 049
Satriano, Alessandro	P 033, P 261, WP 056	Shah, Dipan	P 169, P 335, P 336, WP 116
Sawada, Takahiro	P 183	Shah, Moneal	P 168, P 179, P 240, T 8, T 9
Sayegh, Bassel	P 352, P 372	Shah, Ravi	O 7, O 75, P 103, W 25
Scally, Caroline	P 259, P 280	Shahid, Etham	WP 108
Scandling, Debbie	P 381	Shahir, Kaushik	P 181
Schaarschmidt, Frank	W 12	Shambrook, James	P 091, P 328, T 1
Schachoff, Sylvia	P 232	Shanbhag, Sujata	P 096, WP 032, WP 053
Schaeffeler, Elke	WP 031	Shang, Quanliang	P 202, P 207, WP 084
Schaeffter, Tobias	M 12, O 57, P 239, WP 078		
Schafer, Michal	P 014		

AUTHOR INDEX

- Shao, Jiaxin W 02
 Sharif, Behzad O 12, O 50, O 74, P 001, P 141, P 166, WP 061, WP 122, WP 125, WP 126
 Sharma, Jyoti M 10
 Sharma, Pranev W 26
 Sharma, Ravi P 322
 Sharma, Umesh P 172
 Shaw, Jaime P 141
 Shaw, Peter O 40, P 148, P 326, WP 045
 She, Helen Hoi Lam P 281
 Shea, Steven P 322
 Shehu, Nerejda O 86
 Shelkovnikova, Tatiana P 255
 Shepard, Del P 198
 Shi, Wenzhe M 11, O 44
 Shie, Nancy P 111
 Shiga, Tsuyoshi P 333
 Shiina, Yumi WP 076
 Shimada, Kazunori P 246
 Shimakawa, Ann WP 036
 Shimamoto, Ken P 333
 Shimane, Akira P 183
 Shin, So Youn P 176
 Shivkumar, Kalyanam WP 026
 Short, Rebekah P 195
 Shraibman, Liubov P 414
 Shroff, Sanjeev M 08
 Shubayev, Oleg WP 029
 Siddiqi, Nishat P 149
 Sierra-Galan, Lilia P 227
 Sigfridsson, Andreas O 100, P 065, WP 047
 Silberbach, Michael P 198
 Silva, Marly P 293
 Silva, Ranil WP 010
 Silveira-Filho, Lindemberg da Mota O 75
 Simonetti, Orlando P 381, W 08, W 31
 Simprini, Lauren P 358, P 368
 Simpson, Joanne P 004
 Simpson, Robin M 01, O 46, O 78, WP 039
 Singh, Anvesha P 102, P 313, P 320, P 356
 Singh, Parmanand P 387
 Singh, Sanjay P 352, P 372
 Singhal, Priyanka O 87
 Siniawski, Andrzej P 160, P 162, P 331
 Sinitsin, Valentin P 135
 Sinkus, Ralph O 42
 Sinn, Martin P 101, P 112, P 130, P 304
 Sinnaeve, Peter P 349
 Sinusas, Albert P 142, P 358, W 17
 Siqueira, Maria Helena O 62, W 18
 Sirker, Alex P 164
 Siu, Adrienne WP 007
 Sled, John P 201
 Slesnick, Tim P 417, WP 098
 Slomka, Piotr WP 126
 Slonimasky, Einat WP 070
 Smart, Suzanne P 279
 Smith, Alberto P 010, WP 111
 Smith, Gillian T 7, W 26
 Smith, Nicolas O 77
 Smith, Peter WP 008
 Smyke, Matthew P 381
 Soares, Breno P 290
 Socolow, Joshua P 169
 Soeiro, Alexandre O 49
 Sohns, Jan P 066, WP 105, P 269
 Soleimanifard, Sahar O 52, P 400
 Solomon, Stephen P 327
 Sonmez, Merdim O 19, O 23, P 236, P 414, WP 015
 Soong, Chin Munn P 133, P 140
 Soriano, Brian P 206
 Sosnovik, David O 3, P 016
 Sotelo, Julio P 199, WP 027, WP 078
 Soto, Maria P 204
 Soto-Lopez, Maria-Elena P 227
 Soulat, Gilles P 017
 SOULAT, Gilles P 203
 Soulat, Gilles WP 018, WP 094
 Sourdon, Joevin O 16
 Speier, Peter P 002
 Spieker, Maximilian P 319
 Spirito, Paolo WP 059
 Spottiswoode, Bruce O 74, O 8, P 005, P 023, P 253, W 06, W 11, W 20, WP 008, WP 032
 Springer, Charles P 251
 Spruijt, Onno WP 044
 Spuler, Simone P 315
 Squire, Iain P 356
 Srichai, Monvadi P 188, P 397
 Srinivasan, Janaki P 280
 Srinivasan, Shardha WP 097
 Srivastava, Shubhika P 321
 Staab, Wieland P 066, P 269, WP 105
 Stables, Rodney WP 072
 Stacy, Mitchel P 142, W 17
 Stagnaro, Nicola WP 104
 Stalder, Aurelien P 002, P 069
 Stankevich, Yuliya P 414
 Stanley, David WP 029
 Stanopoulos, Ioannis P 364
 Stanske, Beate P 319
 Stark, Madeline WP 008
 Stawowy, Philipp WP 060
 Steadman, Christopher P 177, P 320
 Steding-Ehrenborg, Katarina P 030, P 068, P 294, WP 017, WP 085, WP 086
 Steeden, Jennifer P 031, P 195, P 260, T 13, WP 002, O 65
 Steel, Kevin P 086
 Steen, Henning WP 028
 Stehning, Christian O 90, P 101, P 112, P 120, P 265, W 12
 Steigner, Michael O 7
 Steinberg, Angela O 52
 Steinberg, Daniel O 71
 Steingart, Richard P 327
 Steinmetz, Michael P 066, P 202, P 269, WP 084, WP 105
 Stephensen, Sigurdur P 294, WP 085, WP 086
 Stergiopoulos, Nikolaos WP 035
 Stern, Heiko P 216, P 223, WP 077, WP 087
 Stevenson, William P 032, P 237, P 243
 Stillman, Arthur P 345
 Stine, Annette O 20
 Stirrat, Colin P 252
 Stoeck, Christian P 016, P 076, P 081, WP 112
 Stoll, Victoria P 007, P 249, P 330
 Stone, Ian P 092, P 122, P 353
 Stone, Ian P 398
 Storey, Pippa P 389
 Storti, Sergio P 376
 Strain, Stephen M 01
 Strange, Julian O 29, O 87, P 138
 Strauss, Bradley P 111, P 150
 Strecker, Ralph O 62, P 003, P 069, W 18, WP 043
 Strijkers, Gustav P 015
 Strugnell, Wendy O 64
 Stuber, Matthias O 52, P 382, W 30, WP 035, WP 121
 Stuckey, Daniel M 04
 Stupic, Karl W 36
 Suarez-Mejias, Cristina P 196
 Subramanian, Sharath P 279
 Suever, Jonathan P 078, WP 057, WP 107, WP 114, WP 118, WP 120

AUTHOR INDEX

Sugathapala, Malindie	M 01	Thiélén, Ulf	WP 085, WP 086
Suh, Jung-Won	P 109	Thomas, Glyn	P 238
Suhai, Ferenc	WP 095	Thomas, Julia	P 271
Sun, Aimin	P 044	Thome, Simeon	WP 069
Sun, Jiayu	P 273, P 289, P 344	Thompson, Alexandra	P 187
Sun, Liqun	O 55, O 92, W 13	Thompson, Diane	P 168, P 179, P 240, T 8, T 9
Suna, Gonca	P 049	Thompson, R. Terry	WP 019
Suranyi, Pal	O 8	Thompson, Richard	P 005, P 261, W 10, W 20
Suzuki, Munemura	P 054	Thomson, Louise	P 141, WP 061
Suzuki, Yoshinori	P 306	Thorn, Stephanie	P 142, W 17
Svalbring, Emil	WP 004	Thraves, Odette T 10	
Svensson, Frida	P 329	Thun, Franck	P 307
Swift, Andrew	P 338, O 32, P 174, P 350	Tibby, Shane	O 57
Swoboda, Peter	O 31, O 82, P 021, P 050, P 080, P 117, P 156, P 163, P 177, P 180, P 182, P 257, P 285, P 297, P 332, P 341, P 407, WP 063	Tighiouart, Mourad	O 21, O 74
Syed, Mushabbar	P 244, P 318, P 352, P 372	Tillmanns, Christoph	P 002
Sykes, Jane	WP 126	Timmons, Mitchell	P 181
Symmonds, Karen	W 26	Timoh, Tendoh	P 188, P 397
Symons, Rolf	WP 062	Toba, Takayoshi	P 183
Szantho, Gergely	O 66, P 386, WP 113	Tobon-Gomez, Catalina	P 041
Szatmári, András	WP 095	Todiere, Giancarlo	P 377
Szurowska, Edyta	P 040	Toepper, Agnieszka	WP 108
Sánchez Alegre, Maria Luisa	P 286	Tomala, Marek	P 151
Säring, Dennis	O 90, P 101, P 112, P 130, P 268, P 304	Tomberli, Benedetta	WP 059
Sörensson, Peder	P 065, P 105, WP 047, WP 127	Tome Esteban, Maria	P 274
Tachibana, Atsushi	P 115, P 254, WP 119	Torres, Felipe	P 173
Tahir, Enver	P 101, P 112, P 130, P 268, P 304	Tortolani, Anthony	P 169
Takahashi, Yufuko	P 333	Toth, Attila	P 043, P 123, P 128
Takase, Shinichi	O 51	Totman, John	P 061
Takayama, Tadateru	P 373	TOUSSAINT, Marcel	P 267, P 363
Takx, Richard	P 231	Townsend, Mandie	O 87
Tamburino, Claudia	P 152	Traber, Julius	P 009, P 228, P 315
Tamburino, Corrado	P 152	Traford, Andrew	M 06
Tan, Sian Kong	P 158	Tran, Tam	P 279
Tanaka, Akiko	O 2, W 23	Trauzeddel, Ralf	O 68
Tandon, Animesh	P 417, WP 098	Treibel, Thomas	O 27, O 89, P 004, P 008, P 011, P 056, P 057, P 164, P 312, WP 129
Tandon, Navdeep	P 190	Trocchio, Gianluca	WP 104
Tang, Elaine	O 93, O 95, P 208	Trombetta, Amelia	P 264
Tang, Richard	O 13, O 21	Trotier, Aurélien	O 70, P 258
Taniguchi, Yasuyo	P 183	Trotter, Andrew	O 64
Tann, Oliver	O 56, O 65	Truong, Uyen	P 409
Tantiongco, John-Paul	P 077	Tsaftaris, Sotirios	WP 013, WP 126
Tao, Qian	P 046, P 097	Tsai, Shang-Yueh	P 245
Tao, Yuehui	W 01	Tsai-Goodman, Beverly	O 60
Tatsumi, Fujio	P 333	Tschabrunn, Cory	WP 132, WP 133
Tautz, Lennart	P 385, WP 042	Tse, Zion	P 032, P 237, P 243
Tavakkoli, Timon-Amir	WP 077	Tshukishiro, Yasur	P 183
Tavares, Mucio	O 49	Tu, Alexander	P 178
Tavolaro, Sébastien	P 063	Tudisca, Chiara	P 339, P 365
Taylor, Andrew	O 56, P 031, P 195	Tufaro, Caroline	O 33, P 308
Taylor, Angela	P 148	Tufvesson, Jane	P 068, WP 127
Taylor, Joni	P 154	Tulupov, Andrey	P 414
Taylor, Michael	P 279	Turner, Mark	WP 113
Teeuwen, Laurens	WP 040	Tutenuit, Solenne	WP 109
Teixeira, Tiago	WP 115	Tweedie, Edward	WP 019
Teixido-Tura, Gisela	O 67	Tyler, Damian	O 16
Tejos, Cristian	P 199, WP 027	Tyson, Jon	P 403
Teme, Tonye	P 352, P 372	Tzemos, Niko	O 26, O 53, O 54, WP 052
Temesvári, András	WP 095	Tzemos, Nikolaos	P 379, WP 050
Teo, Lynette	P 061	Tóth, Attila	P 058, WP 095
Teranishi, Jin	P 183	Töger, Johannes	O 18, P 038, WP 017
Teraoka, Kunihiro	P 306	Uddin, Akhlaque	P 177, P 180, P 182, P 332, P 341, WP 063
Thakker, Rahul	P 254	Udelson, James E.	WP 059
Thalhammer, Christof	P 013, WP 108	Ugander, Martin	M 08, P 065, P 079, P 105, W 06, WP 047
Thavendiranathan, Paaladinesh	P 275, WP 068	Umasankar, Nivedita	WP 057
Theron, Adeline	P 239	Unterberg-Buchwald, Christina	P 066, P 269, WP 105
Thiaudière, Eric	O 70	Uppu, Santosh	P 321
Thiele, Holger	O 34, P 099, WP 048	Urbina, Jesus	P 199, WP 027
Thiesson, Sarah	W 10	Uretsky, Seth	P 262

AUTHOR INDEX

- Uribe, Sergio P 196, P 199, WP 027, WP 078
 Urusibata, Yuta O 63
 Ussov, Wladimir P 255, P 256
 Utz, Wolfgang P 009, P 315
 Valente, Anne Marie WP 102
 Valeri, Gianluca P 346
 Valeti, Uma M 08, P 367
 Vallone, Antonino P 339, P 357
 Valverde, Israel P 196, P 199, WP 027, WP 078, WP 100
 van den Berg - Huysmans, Annette P 401
 van den Boogaard, Pieter WP 038
 van der Geest, Rob O 4, O 6, O 8, P 024, P 046, P 059, P 097, WP 123
 van der Graaf, Maurits P 230
 van der Grond, Jeroen P 401
 van der Pals, Jesper P 154
 van Dongen, Elise P 230
 van Driel, Vincent P 230
 van Heeswijk, Ruud W 30
 van Ooij, Pim P 074, P 399
 van Oorschot, Joep WP 128
 van Rossum, Albert P 186, P 375
 Vandendriessche, Tom P 343
 Vannan, Mani M 10
 Vanoverschelde, Jean-Louis J P 359
 Vardoulis, Orestis WP 035
 Varela, Marta P 239
 Varga, Peter P 214
 Varga-Szemes, Akos O 71, O 8
 Varghese, Juliet W 31
 Vasanawala, Shreyas WP 036, WP 093
 Vasheghani farahani, Ali P 215
 Vassiliou, Vassilis T 7, W 24, W 26, W 28, WP 072
 Vaxman, Amir WP 035
 Vazquez-Jimenez, Jaime P 196
 Velasco Forte, María P 219
 Velasquez alvarez, Leyli P 270
 Veneziani, Alessandro O 95
 Vermes, Emmanuelle P 342, P 354
 Vester, Ernst P 189
 Viallon, Magalie P 114, P 383
 Vieira, Miguel O 91
 Vigneault, Davis P 263
 Vijayakumar, Sathya P 233
 Villa, Adriana P 066
 Villanueva, Alejandra O 49, O 79, P 348
 Vincenti, Gabriella WP 121
 Vissers, Loek WP 044
 Voemel, Christa P 189
 Vogel-Claussen, Jens WP 046
 Voges, Inga P 070, P 103, W 25, WP 079, WP 091, WP 096
 Vokes, Jason P 300
 Vola, Marco P 114
 von Deuster, Constantin P 076, P 081, WP 112
 von Knobelsdorff-Brenkenhoff, Florian O 68, P 009, P 228, WP 108
 Vonk-Noordegraaf, Anton WP 044
 Voon, Chi Yen P 158
 Vágó, Hajnalka WP 095
 Wael, Mai P 047
 Wage, Ricardo P 137, T 7, W 26, WP 072
 Wagner, Galen P 084
 WAHBI, Karim P 267, P 363
 Walcarius, Rhonda P 395
 Walkden, Michelle T 1
 Walker, Henry P 350
 Walker, John Malcolm P 312
 Waller, James P 328
 Walsh, Edward WP 102
 Wan, Min P 412
 Wan, Ming Young O 41, P 008
 Wang, Chao-Hung P 245
 Wang, Chen-Hua O 69
 Wang, Chunhua O 76, P 273
 Wang, Hui O 2, W 23
 Wang, Jiun-Jie P 245
 Wang, John P 276
 Wang, Mouer P 254, WP 119
 Wang, Sui-Cheng O 2, W 23
 Wang, Wei P 237, P 243
 Wang, Xunzhang O 21
 Wang, Yi P 387
 Wang, Yining O 61, T 12
 Wang, Yunfei P 403
 Wang, Yuqing P 273
 wang, zhanhong O 72
 Wang, Zhe WP 022, WP 034
 Wang, Zuoguang P 083
 Warczytowa, Jared M 02, P 026
 Ward, Jay P 243
 Warntjes, Marcel W 16
 Wass, John P 271
 Wassilew, Katharina W 15
 Wassmuth, Ralf P 009
 Watanabe, Eri P 333
 Watanabe, Ichiro P 373
 Watanabe, Kouki O 63
 Watkins, Ronald P 243
 Watkins, Stuart O 26, O 53, O 54, WP 052
 Weale, Peter O 41, O 66, P 008, P 328
 Wechalekar, Ashutosh O 27
 Weerackody, Roshan P 184
 Wegner, Philip O 58, P 070, P 103, W 25, WP 079, WP 091, WP 096
 Wehner, Gregory P 078, WP 057, WP 107, WP 118, WP 120
 Wehrli, Felix P 406
 Wei, Hongjiang P 383
 Wei, Janet P 141, WP 061
 Wei, Zhenglun (Alan) O 93, O 95, P 208
 Weigand, Justin P 321
 Weinberger, Oliver P 013
 Weingartner, Sebastian W 05, W 07
 Weingärtner, Sebastian W 29, WP 001
 Weinsaft, Jonathan P 327, P 387
 Weisdorf, Daniel P 367
 Weiss, Kilian O 100
 Weiss, Robert O 52, P 400
 Wellnhofer, Ernst P 340
 Welsh, Aimee P 181
 Werner, Peter P 108
 Wesierska, Maria P 040
 Wespi, Patrick O 100
 Westenberg, Jos O 4, O 6, P 024, P 059, P 401, WP 038, WP 123
 Westenfeld, Ralf P 157, P 319
 Westwood, Mark P 092, P 122, P 184
 Whelan, Carol O 27
 White, James O 21, O 35, P 033, P 261, WP 006, WP 019, WP 056
 White, Matthew WP 102
 White, Richard P 035
 White, Steven O 41, P 008, P 164
 Whitehead, Kevin O 93, P 208, O 95, P 287
 Whitman, Teresa P 033
 Whittaker-Axon, Sarah P 184
 Wieben, Oliver M 02, P 026, WP 058
 Wijesurendra, Rohan P 107, WP 005, WP 055
 Wilber, David P 244, P 352, P 372
 Wild, Jim P 174, P 338, P 350
 Will, Albrecht O 86
 Williams, Mandy P 405, P 411
 Williams, Ronald P 168, P 240, P 296, T 2, T 8, T 9
 Williams, Steven P 041

AUTHOR INDEX

Wilmink, Lena	P 265	Yong, Luo	P 289, P 344
Wilson, Catherine	P 124	Yoo, Jin Young	WP 066
Wilson, Douglas	P 187	Yoo, Shi-Joon	M 09, O 55, O 92, P 201, P 334, W 13, WP 089
Windrim, Rory	P 027	Yoon, Andrew	P 145
Winter, Lukas	P 013	Yoon, Chang-Hwan	P 109
Winterfield, Jeffrey	P 244	Yoon, Yeonyee	P 109
Wisenberg, Gerald	WP 019	Yoshihara, Hikari	O 101, O 97
Wissmann, Lukas	O 100, P 088	Yossef, James	P 169
Witschey, Walter	O 37, P 022, P 037	Yotti, Raquel	P 143, P 286
Witte, Klaus	O 31	Youn, Tae-Jin	P 109
Wolff, Steven	P 262, WP 029	Young, Alistair	P 317, P 371
Wong, James	M 12, O 57	Youssof, Emile	P 114
Wong, Joyce	O 11	Yu, Chung-Yao	O 32
Wong, Timothy	M 08	Yu, Jeannie	P 096
Woodman, Richard	O 10, P 116	Yu, Wei	O 72
Wordsworth, Paul	O 81, O 99, WP 065, WP 071	Yuki, Masako	WP 073
Workman, Virginia	O 39	Yung, TC	P 225
Worku, Berhane	P 169	Zachow, Dirk	O 85, WP 075
Wormleighton, Joanne	T 10	Zaman, Arshad	P 117
Wright, Graham	O 24, P 111, P 147, P 150, P 395, P 404, W 33, WP 007	Zamani, Jafar	P 391
Wu, Bailin	P 299	Zareba, Karolina	M 08
Wu, Colin	O 67	Zemrak, Filip	O 25, P 019, P 057, P 092, P 122
Wu, Colin O.	P 322	Zenge, Michael	O 63, O 64, P 002, P 003, WP 035, WP 043, WP 098, WP 109
Wu, Eddie	P 225	Zeppenfeld, Katja	P 046
Wu, Joseph	P 254, WP 119	Zeus, Tobias	P 157
Wu, Ming-Ting	O 69, P 245	zhai, Renyou	P 185
Wu, Vincent	WP 006	zhai, zhenguo	P 185
Wu, Yi-Ying	P 276	Zhang, Bing	M 05, O 76, P 273
Xanthis, Christos	P 048, P 052, WP 017	Zhang, Chen	P 083
Xia, Rui	O 76, P 273	ZHANG, HUAN	P 083
xiangli, wei	P 316	Zhang, Li	W 33, WP 007
Xie, Guoxi	P 402	Zhang, Lin	P 167
Xie, Yibin	O 17, O 72, P 402	Zhang, Qing	P 289, P 344
Xu, Robert	O 24	Zhang, Shelley	P 032, P 243
Yak, Nicolas	O 24	Zhang, Shi-Jun	WP 134
Yamada, Shinichiro	P 183	Zhang, Tianjing	O 61, O 72, P 185, P 266, P 289, P 344, T 12
Yamaguchi, Ken	P 054	zhang, yan	P 299
Yamamoto, Kensuke	P 373	Zhang, Zhaoqi	O 72
Yamrozik, June	P 168, P 240, P 296, T 8, T 9	Zhao, Lei	P 071, P 083, P 266
Yang, Dong Hyun	P 176	Zhao, Shihua	P 034, P 299
Yang, Eric	WP 116	Zheng, Jie	O 76, P 273
Yang, Hsin-Jung	O 12, O 13, O 21, O 74, P 001, P 166, WP 125, WP 126	Zhong, Xiaodong	P 078, WP 107, WP 118, WP 120
Yang, Lin	P 071	Zhou, Xiangzhi	P 413
Yang, Lixin	O 72	Zhou, Xiao	M 10
Yang, Phillip	P 115, P 254, WP 119	Zhou, Zhengwei	P 001
Yang, Qi	O 17, P 402, P 412, WP 011	Zhou, Ziwu	WP 124
Yang, Yang	O 40, P 148, P 326, P 408, WP 045	Zhu, Da	P 344
Yang, Yuanhua	P 185	Zhu, Meng Yuan	P 027
Yap, John	O 89	Zhu, Ming	P 217, P 220, P 224
Yap, May Lin	P 049	Zhygalina, Valentina	P 017, WP 018
Yasaka, Yoshinori	P 183	Zia, Mohammad	P 147, P 150
Yeates, Laura	O 83	Zimetbaum, Peter	P 337
Yee, Raymond	O 21, P 033	Zmudka, Krzysztof	P 151
Yellon, Robert	P 164	Zoghbi, William	P 335
Yerly, Jerome	P 382	Zuchold, Caroline	WP 041
Yerly, Jérôme	W 30	Zuluaga, Maria A.	P 041
Yeung, Alan	P 115	Zviman, M. Muz	P 242, W 14
Yeung, Emily	WP 049	Zwanenburg, Jaco	WP 128
Yi, Yan T 12			
Yilmaz, Ali	P 072, WP 031, WP 083, WP 090		
Yin, Qian	P 273		
Ying, Senlin	P 344		
Yoganathan, Ajit	O 93, O 95, O 96, P 208, WP 106		
Yokoi, Kiminobu	P 183		
Yokoyama, Takayuki	P 246		
Yoneyama, Kihei	P 378		

FACULTY/ABSTRACT AUTHOR DISCLOSURES

SCIENTIFIC COMMITTEE

Arheden, Hakan: Dr. Arheden has received consulting fees and/or honoraria from Imacor AB. He has an equity interest in IMITS AB.

Bandettini, Patricia: Dr. Bandettini has nothing to disclose.

Bremerich, Jens: Dr. Bremerich has nothing to disclose.

Bruder, Oliver: Dr. Bruder has received consulting fees and/or honoraria from Biotronik, Novartis and Siemens Healthcare.

Bucciarelli-Ducci, Chiara: Dr. Bucciarelli-Ducci has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc. She also is an expert witness for Brachers LLP.

Carr, James: Dr. Carr has received consulting fees and/or honoraria from the Guerbet Group. He is on the Speaker's Bureau of Siemens Medical Solutions. Dr. Carr has received research and/or grant funding from Bayer AG and Siemens Medical Solutions.

Chan, Carmen: Dr. Chan has nothing to disclose.

Choi, Byoung Wook: Dr. Choi has nothing to disclose.

Ennis, Daniel: Dr. Ennis has received research grants from Siemens Medical Solutions.

Fletcher, Alison: Ms. Fletcher has nothing to disclose.

Frank, Herbert: Dr. Frank has nothing to disclose.

Friedrich, Matthias: Dr. Friedrich has ownership/partnership or is a principal for Circle Cardiovascular Imaging, Inc. He has also received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc.

Gentry, Ralph: Mr. Gentry has nothing to disclose.

Gerber, Bernard: Dr. Gerber has nothing to disclose.

Hundley, Gregory: Dr. Hundley has nothing to disclose.

Jacquier, Alexis: Dr. Jacquier has nothing to disclose.

Karamitsos, Theodoros: Dr. Karamitsos has nothing to disclose.

Kawel-Boehm, Nadine: Dr. Kawel has nothing to disclose.

Kozerke, Sebastian: Dr. Kozerke has nothing to disclose.

Krishnamurthy, Raj: Dr. Krishnamurthy has received research grant funding from Koninklijke Philips Electronics.

Kwon, Deborah: Dr. Kwon has nothing to disclose.

Lanza, Gregory: Dr. Lanza has nothing to disclose.

Lederman, Robert: Dr. Lederman has intellectual property rights with the National Institutes of Health.

Lee, Daniel: Dr. Lee has nothing to disclose.

Lombardi, Massimo: Dr. Lombardi has nothing to disclose.

Martin, Edward: Dr. Martin has received consulting fees and/or honoraria from Astellas Pharma. He has received grant and/or research funding from Medis Medical Imaging and Siemens Medical Solutions.

Maschi, Pier Giorgio: Dr. Maschi has nothing to disclose.

McConnell, Michael: Dr. McConnell has nothing to disclose.

Nayak, Krishna: Dr. Nayak has nothing to disclose.

Niellas-Vallespin, Sonia: Dr. Niellas-Vallespin has nothing to disclose.

Ordovas, Karen: Dr. Ordovas has nothing to disclose.

Petersen, Steffen: Dr. Petersen has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc.

Plein, Sven: Dr. Plein has nothing to disclose.

Raman, Subha: Dr. Raman has nothing to disclose.

Rochitte, Carlos: Dr. Rochitte has nothing to disclose.

Roest, Arno: Dr. Roest has nothing to disclose.

Salerno, Michael: Dr. Salerno has nothing to disclose.

Schaeffter, Tobias: Dr. Schaeffter has nothing to disclose.

Simonetti, Orlando: Dr. Simonetti has received grant and/or research funding from Cook Medical and Siemens Medical Solutions. He has an equity interest in EXCMR, Inc.

Stuber, Matthias: Dr. Stuber has nothing to disclose.

Thiele, Holger: Dr. Thiele has nothing to disclose.

Valsangiacomo-Büchel, Emanuela: Dr. Valsangiacomo has nothing to disclose.

Wu, Katherine: Dr. Wu has nothing to disclose.

Young, Alistair: Dr. Young has received consulting fees and/or honoraria from Siemens Medical Solutions.

FACULTY

Agrawal, Bobby: Dr. Agrawal has nothing to disclose.

Alam, Shirjel: Dr. Alam has nothing to disclose.

Aletras, Anthony: Dr. Aletras has nothing to disclose.

Arai, Andrew: Dr. Arai has received research grants from Siemens Medical Solutions.

Aslanidi, Oleg: Dr. Aslanidi has nothing to disclose.

Azevedo, Clerio: Dr. Azevedo has nothing to disclose.

Bacher-Stier, Claudia: Dr. Bacher-Stier is an employee and receives a salary from Bayer Pharma AG.

Bandettini, Patricia: Dr. Bandettini has nothing to disclose.

Banka, Puja: Dr. Banka has nothing to disclose.

Barac, Ana: Dr. Barac has nothing to disclose.

Barker, Alex: Dr. Barker has nothing to disclose.

Beerbaum, Philipp: Dr. Beerbaum has nothing to disclose.

Bernard, Monique: Dr. Bernard has nothing to disclose.

Berry, Colin: Dr. Berry has nothing to disclose.

Biederman, Robert: Dr. Biederman has nothing to disclose.

Bissell, Malenka: Dr. Bissell has nothing to disclose.

Bluemke, David: Dr. Bluemke has received consulting fees and/or honoraria from Siemens and Philips.

Bolger, Ann: Dr. Bolger has nothing to disclose.

Botnar, Rene: Dr. Botnar has nothing to disclose.

Bottomley, Paul: Dr. Bottomley has received consulting fees and/or honoraria from MRI Interventions.

Bremerich, Jens: Dr. Bremerich has nothing to disclose.

Bruder, Oliver: Dr. Bruder has received consulting fees and/or honoraria from Biotronik, Novartis and Siemens Healthcare.

Bucciarelli-Ducci, Chiara: Dr. Bucciarelli-Ducci has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc. She also is an expert witness for Brachers LLP.

Buser, Peter: Dr. Buser has nothing to disclose.

Capelli, Claudio: Dr. Capelli has nothing to disclose.

Carlsson, Marcus: Dr. Carlsson has nothing to disclose.

Carpenter, John-Paul: Dr. Carpenter has nothing to disclose.

Carr, James: Dr. Carr has received consulting fees and/or honoraria from the Guerbet Group. He is on the Speaker's Bureau of Siemens Medical Solutions. Dr. Carr has received research and/or grant funding from Bayer AG and Siemens Medical Solutions.

Chan, Carmen: Dr. Chan has nothing to disclose.

Cheung, Stephen: Dr. Cheung has nothing to disclose.

Chin, Calvin: Dr. Chin has nothing to disclose.

Choi, Byoung Wook: Dr. Choi has nothing to disclose.

Chow, Kelvin: Dr. Chow has nothing to disclose.

FACULTY/ABSTRACT AUTHOR DISCLOSURES

Chung, Taylor: Dr. Chung ins on the Speaker's Bureau of Philips Healthcare.

Clayton, Tim: Dr. Clayton has received consulting fees and/or honoraria from Boston Scientific and the Cardiovascular Research Foundation. He has received research grants from Medicines Company.

Coelho-Filho, Otavio: Dr. Coelho-Filho has nothing to disclose.

Coulden, Richard: Dr. Coulden has nothing to disclose.

Crean, Andrew: Dr. Crean has nothing to disclose

Dall'Armellina, Erica: Dr. Dall'Armellina has nothing to disclose.

Dash, Rajesh: Dr. Dash has nothing to disclose.

Deluigi, Christina: Dr. Deluigi has nothing to disclose.

Deshpande, Aparna: Dr. Deshpande has nothing to disclose.

Ennis, Daniel: Dr. Ennis has received research grants from Siemens Medical Solutions.

Epstein, Frederick: Dr. Epstein has received research grants from Siemens Medical Solutions.

Ewert, Peter: Dr. Ewert has received consulting fees and/or honoraria from Edwards Lifesciences, Medtronic, and St. Jude Medical.

Faranesh, Anthony: Dr. Faranesh has nothing to disclose.

Ferrari, Victor: Dr. Ferrari is an officer (or other fiduciary role) with the American College of Cardiology.

Ferreira, Vanessa: Dr. Ferreira has nothing to disclose.

Flamm, Scott: Dr. Flamm has nothing to disclose.

Fletcher, Alison: Ms. Fletcher has nothing to disclose.

Fogel, Mark: Dr. Fogel has received research grants from Edwards Lifesciences and AMAG Pharmaceuticals.

Fontana, Mariana: Dr. Fontana has nothing to disclose.

Fratz, Sohrab: Dr. Fratz has received consulting fees and/or honoraria from Nano4Imaging

Friedrich, Matthias: Dr. Friedrich has ownership/partnership or is a principal for Circle Cardiovascular Imaging, Inc. He has also received consulting fees and/or honorarias from Circle Cardiovascular Imaging, Inc.

Fuster, Valentin: Dr. Fuster has nothing to disclose.

Gerber, Bernhard: Dr. Gerber has nothing to disclose.

Geva, Tal: Dr. Geva has nothing to disclose.

Gharib, Ahmed: Dr. Gharib has nothing to disclose.

Greenwood, John: Dr. Greenwood has nothing to disclose.

Greil, Gerald: Dr. Greil has nothing to disclose.

Grosse-Wortmann, Lars: Dr. Grosse-Wortmann has nothing to disclose.

Gutberlet, Matthias: Dr. Gutberlet has nothing to disclose.

Han, Yuchi: Dr. Han has nothing to disclose.

Harden, Stephen: Dr. Harden has nothing to disclose.

Heiberg, Einar: Dr. Heiberg is an employee and receives a salary from ImaCor, Inc. He is also has ownership/partnership or is a principal in Medviso AB.

Helbing, William: Dr. Helbing has nothing to disclose.

Herzka, Daniel: Dr. Herzka has received research funds from Siemens Medical Systems.

Herzog, Christopher: Dr. Herzog has nothing to disclose.

Hsiao, Albert: Dr. Hsiao has an equity interest in Morpheus Imaging.

Hughes, Marina: Dr. Hughes has nothing to disclose.

Hussain, Tarique: Dr. Hussain has nothing to disclose.

Jensen, Christoph: Dr. Jensen is on the Speaker's Bureau of Siemens Healthcare.

Jerosch-Herold, Michael: Dr. Jerosch-Herold has nothing to disclose.

Johnson, Tiffanie: Dr. Johnson has nothing to disclose.

Karamitsos, Theo: Dr. Karamitsos has nothing to disclose.

Karim, Rashed: Dr. Karim has nothing to disclose.

Kellman, Peter: Dr. Kellman has nothing to disclose.

Khanji, Mohammed: Dr. Khanji has nothing to disclose.

Kholmovski, Eugene: Dr. Kholmovski has received consulting fees and/or honoraria and research grants from Marrek, Inc. He also has an equity interest/stock in Marreck, Inc.

Klem, Igor: Dr. Klem has received reasearch grant funding from Medtronic.

Kober, Frank: Dr. Kober has nothing to disclose.

Kocaturk, Ozgur: Dr. Kocaturk has nothing to disclose.

Kozerke, Sebastian: Dr. Kozerke has nothing to disclose.

Kraitchman, Dara: Dr. Kraitchman has received research grants from Merit Medical, Siemens Healthcare and Surefire Medical.

Kramer, Christopher: Dr. Kramer has received consulting fees and/or honoraria from St. Jude Medical, Merck and Company, and MyoKardia. He has received research grants from Novartis and Siemens Healthcare.

Krishnamurthy, Rajesh: Dr. Krishnamurthy has received research grant funding from Koninklijke Philips Electronics.

Kwong, Raymond: Dr. Kwong has nothing to disclose.

Lederman, Robert: Dr. Lederman has intellectual property rights with the National Institutes of Health.

Leiner, Tim: Dr. Leiner has nothing to disclose.

Lima, Joao: Dr. Lima has nothing to disclose.

Linton, Romina: Dr. Linton has nothing to disclose.

Lossnitzer, Dirk: Dr. Lossnitzer has nothing to disclose.

Malloy, Craig : Dr. Malloy has nothing to disclose.

Manka, Robert: Dr. Manka has nothing to disclose.

Manning, Warren: Dr. Manning has nothing to disclose.

Marie, Pierre-Yves: Dr. Marie has nothing to disclose.

McCann, Gerald: Dr. McCann has nothing to disclose.

Miller, Chris: Dr. Miller has nothing to disclose.

Moledina, Shahin: Dr. Moledina has nothing to disclose.

Moon, James: Dr. Moon has nothing to disclose.

Morris, Shaine: Dr. Morris has nothing to disclose.

Muthurangu, Vivek: Dr. Muthurangu has nothing to disclose.

Myerson, Saul: Dr. Myerson has nothing to disclose.

Nagel, Eike: Dr. Nagel has received research grants from Bayer Healthcarer and Philips Healthcare.

Nazarian, Saman: Dr. Nazarian has received consulting fees and/or honoraria, as well as research grant funding, from Biosense Webster.

Neizel-Wittke, Mirja: Dr. Neizel-Wittke has nothing to disclose.

Nielles-Vallespin, Sonia: Dr. Nielles-Vallespin has nothing to disclose.

Ntusi, Ntobeko: Dr. Ntusi has nothing to disclose.

O'Hanlon, Rory: Dr. O'Hanlon has nothing to disclose.

Ordovas, Karen: Dr. Ordovas has nothing to disclose.

Pennell, Dudley: Dr. Pennell has received consulting fees and/or honoraria from AMAG Pharmaceuticals, ApoPharma, Bayer AG, Novartis, Siemens Healthcare and Shire Pharmaceuticals. He has equity interest and/or stock options in Circle Cardiovascular Imaging, Inc. and Private CMR.

FACULTY/ABSTRACT AUTHOR DISCLOSURES

Peters, Dana: Dr. Peters has nothing to disclose.

Petersen, Steffen: Dr. Petersen has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc.

Pettigrew, Roderic: Dr. Pettigrew has nothing to disclose.

Phinikaridou, Alkystis: Dr. Phinikaridou has nothing to disclose.

Piechnik, Stefan: Dr. Piechnik has nothing to disclose.

Piorkowski, Christopher: Dr. Piorkowski has received consulting fees and/or honoraria from Biotronik, Imricor Medical Systems, Inc., Siemens Healthcare and St. Jude Medical. He is on the Speaker's Bureau of Biotronik and St. Jude's Medical. Dr. Piorkowski has received research grants from Biosense.

Pitcher, Alex: Mr. Pitcher has nothing to disclose.

Plein, Sven: Dr. Plein has nothing to disclose.

Powell, Andrew: Dr. Powell has nothing to disclose.

Prakash, Ashwin: Dr. Prakash has nothing to disclose.

Puntmann, Valentina: Dr. Puntmann has nothing to disclose.

Raimondi, Francesca: Dr. Raimondi has nothing to disclose.

Raman, Subha: Dr. Raman has nothing to disclose.

Ratib, Osman: Dr. Ratib has nothing to disclose.

Ratnayaka, Kanishka: Dr. Ratnayaka has nothing to disclose.

Razavi, Reza: Dr. Razavi has nothing to disclose.

Reddy, Gautham: Dr. Reddy has nothing to disclose.

Riederer, Stephen: Dr. Riederer has nothing to disclose.

Rochitte, Carlos: Dr. Rochitte has nothing to disclose.

Roest, Arno: Dr. Roest has nothing to disclose.

Rogers, Ian: Dr. Rogers has nothing to disclose.

Sakuma, Hajime: Dr. Sakuma has nothing to disclose.

Salerno, Michael: Dr. Salerno has nothing to disclose.

Samyn, Margaret: Dr. Samyn is an employee and receives a salary from GE Healthcare. She has equity and/or stock options in Philips Healthcare and Siemens Medical Solutions.

Santini, Francesco: Dr. Santini has nothing to disclose.

Schaeffter, Tobias: Dr. Schaeffter has nothing to disclose.

Schär, Michael: Dr. Schär is an employee and receives a salary from Philips Healthcare.

Schelbert, Erik: Dr. Schelbert receives other financial benefit from Bracco Diagnostics.

Scheuermann-Freestone, Michaela: Dr. Scheuermann-Freestone has nothing to disclose.

Schneider, Jurgen: Dr. Schneider has nothing to disclose.

Scholtens, Asbjorn: Dr. Scholtens has nothing to disclose.

Seiberlich, Nicole: Dr. Seiberlich has received grant and/or research funding from Siemens Medical Solutions.

Shambrook, James: Dr. Shambrook has nothing to disclose.

Simonetti, Orlando: Dr. Simonetti has received grant and/or research funding from Cook Medical and Siemens Medical Solutions. He has an equity interest in EXCMR, Inc.

Simprini, Lauren: Dr. Simprini has nothing to disclose.

Sommer, Philipp: Dr. Sommer has received consulting fees and/or honoraria from Siemens Medical Solutions and St. Jude Medical. He has received grant and/or research funding from Imricor Medical Systems, Inc.

Sosnovik, David: Dr. Sosnovik has nothing to disclose.

Springer, Charles: Dr. Springer has nothing to disclose.

Stuber, Mathias: Dr. Stuber has nothing to disclose.

Taylor, Andrew: Dr. Taylor has received grant and/or research funding from Siemens Medical Solutions.

Thiele, Holger: Dr. Thiele has nothing to disclose.

Tweed, Katherine: Dr. Tweed has nothing to disclose.

Uribe, Sergio: Dr. Uribe has nothing to disclose.

Valsangiacomo, Emanuela: Dr. Valsangiacomo has nothing to disclose.

van Heeswijk, Ruud: Dr. van Heeswijk has nothing to disclose.

Viallon-Croisille, Magalie: Dr. Viallon-Croisille has received grant and/or research funding from CARESTREAM, Siemens Medical Solutions and SupersonicImagine.

Vogel-Claussen, Jens: Dr. Vogel-Claussen has nothing to disclose.

Volpe, Gustavo: Dr. Volpe has nothing to disclose.

Wassilew, Katharina: Dr. Wassilew has nothing to disclose.

Wedan, Steve: Dr. Wedan is an employee, receives a salary and has equity interest and/or stock options from Imricor Medical Systems, Inc.

Weingartner, Sebastian: Dr. Weingartner has nothing to disclose.

Wieben, Oliver: Dr. Wieben has nothing to disclose.

Wright, Graham: Dr. Wright has received research grants from GE Healthcare. He also receives royalty income from Circle Cardiovascular Imaging, Inc.

Xue, Hui: Dr. Xue has nothing to disclose.

Yang, Philip: Dr. Yang has nothing to disclose.

Yuan, Chun: Dr. Yuan has received consulting fees and/or honoraria from Bristol Myers Squibb Medical Imaging and Philips Healthcare. He has received research grants from Philips Healthcare.

Zemrak, Filip: Dr. Zemrak has nothing to disclose.

Zimmerman, Stefan: Dr. Zimmerman has nothing to disclose.

SCMR/ISMRM JOINTLY SPONSORED WORKSHOP

Ennis, Daniel: Dr. Ennis has received research and/or grant funding from Siemens Medical Solutions.

Kellman, Peter: Dr. Kellman has nothing to disclose.

Messroghli, Daniel: Dr. Messroghli has nothing to disclose.

Nezafat, Reza: Dr. Nezafat has received speaking fees from Biosense Webster. He has received royalty income from Philips Healthcare and Samsung Electronics. He has received research grants from Medtronic, Samsung and Biosense Webster. He has intellectual property rights at Beth Israel Deaconess Medical Center and the NIH.

Robson, Matthew: Dr. Robson has nothing to disclose.

Salerno, Michael: Dr. Salerno has nothing to disclose.

Stuber, Matthias: Dr. Stuber has nothing to disclose.

Thompson, Richard: Dr. Thompson has nothing to disclose.

Wright, Graham: Dr. Wright has received research grants from GE Healthcare. He also receives royalty income from Circle Cardiovascular Imaging, Inc.

MODERATORS

Alpendurada, Francisco: Dr. Alpendurada has nothing to disclose.

Arai, Andrew: Dr. Arai has received research grants from Siemens Medical Solutions.

Arheden, Håkan: Dr. Arheden has received consulting fees and/or honoraria from Imacor AB. He has an equity interest in IMITS AB.

Bremerich, Jens: Dr. Bremerich has nothing to disclose.

Bruder, Oliver: Dr. Bruder has received consulting fees and/or honoraria from Biotronik, Novartis and Siemens Healthcare.

Bryant, Jennifer: Dr. Bryant has nothing to disclose.

FACULTY/ABSTRACT AUTHOR DISCLOSURES

Bucciarelli-Ducci, Chiara: Dr. Bucciarelli-Ducci has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc. She also is an expert witness for Brachers LLP.

Carr, James: Dr. Carr has received research grant and/or research funding from Siemens and Bayer. He has received speaking fees and/or honoraria from Siemens. He has received consulting fees and/or honoraria from Guerbet.

Chan, Carmen: Dr. Chan has nothing to disclose.

Choi, Byoung Wook: Dr. Choi has nothing to disclose.

Croiselle, Pierre: Dr. Croiselle has nothing to disclose.

de Roos, Albert: Dr. de Roos has nothing to disclose.

Deluigi, Christina: Dr. Deluigi has nothing to disclose.

Ennis, Daniel: Dr. Ennis has received research grants from Siemens Medical Solutions.

Ferrari, Victor: Dr. Ferrari is an officer or has a fiduciary role on the board of the American College of Cardiology.

Fletcher, Alison: Ms. Fletcher has nothing to disclose.

Francis, Jane: Ms. Francis has nothing to disclose.

Frank, Herbert: Dr. Frank has nothing to disclose.

Fratz, Sohrab: Dr. Fratz has received consulting fees and/or honoraria from Nano4Imaging.

Friedrich, Matthias: Dr. Friedrich has ownership/partnership or is a principal for Circle Cardiovascular Imaging, Inc. He has also received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc.

Gerber, Bernhard: Dr. Gerber has nothing to disclose.

Greenwood, John: Dr. Greenwood has nothing to disclose.

Grosse-Wortmann, Lars: Dr. Grosse-Wortmann has nothing to disclose.

Hays, Allison: Dr. Hays has nothing to disclose.

Herzka, Daniel: Dr. Herzka has nothing to disclose.

Hussain, Tarique: Dr. Hussain has nothing to disclose.

Jacquier, Alexis: Dr. Jacquier has nothing to disclose.

Jagpal, Baljit: Dr. Jagpal has nothing to disclose.

Jenista, Elizabeth: Dr. Jenista has nothing to disclose.

Kawel-Boehm, Nadine: Dr. Kawel-Boehm has nothing to disclose.

Kellman, Peter: Dr. Kellman has nothing to disclose.

Kholmovski, Eugene: Dr. Kholmovski has received consulting fees and/or honoraria and research grants from Marrek, Inc. He also has an equity interest/stock in Marreck, Inc.

Kissinger, Kraig: Mr. Kissinger has nothing to disclose.

Kozerke, Sebastian: Dr. Kozerke has nothing to disclose.

Kramer, Christopher: Dr. Kramer has received consulting fees and/or honoraria from St. Jude Medical, Merck and Company, and MyoKardia. He has received research grants from Novartis and Siemens Healthcare.

Krishnamurthy, Rajesh: Dr. Krishnamurthy has received research grant funding from Koninklijke Philips Electronics.

Kutty, Shelby: Dr. Kutty has nothing to disclose.

Lawton, Chris: Dr. Lawton has nothing to disclose.

Lederman, Robert: Dr. Lederman has intellectual property rights with the National Institutes of Health.

Lombardi, Massimo: Dr. Lombardi has nothing to disclose.

Martin, Edward: Dr. Martin has received consulting fees and/or honoraria from Astellas Pharma. He has received grant and/or research funding from Medis Medical Imaging and Siemens Medical Solutions.

McCann, Gerald: Dr. McCann has nothing to disclose.

McConnell, Michael: Dr. McConnell has nothing to disclose.

Messroghli, Daniel: Dr. Messroghli has nothing to disclose.

Mohiaddin, Raad: Dr. Mohiaddin has nothing to disclose.

Moon, James: Dr. Moon has nothing to disclose.

Muthurangu, Vivek: Dr. Muthurangu has nothing to disclose.

Nezafat, Reza: Dr. Zefafat has received speaking fees from Biosense Webster. He has received royalty income from Philips Healthcare and Samsung Electronics. He has received research grants from Medtronic, Samsung and Biosense Webster. He has intellectual property rights at Beth Israel Deaconess Medical Center and the NIH.

Nielsen-Vallespin, Sonia: Dr. Nielsen-Vallespin has nothing to disclose.

O'Hanlon, Rory: Dr. O'Hanlon has nothing to disclose.

Ordovas, Karen: Dr. Ordovas has nothing to disclose.

Patel, Amit: Dr. Patel has received research and/or grant funding from Astellas Pharma and Philips Healthcare.

Petersen, Steffen: Dr. Petersen has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc.

Pitcher, Alex: Dr. Pitcher has nothing to disclose.

Plein, Sven: Dr. Plein has nothing to disclose.

Prasad, Sanjay: Dr. Prasad is on the Speaker's Bureau of Bayer Schering.

Raman, Subha: Dr. Raman has nothing to disclose.

Rathi, Vikas: Dr. Rathi has nothing to disclose.

Razavi, Reza: Dr. Razavi has nothing to disclose.

Reddy, Gautham: Dr. Reddy has nothing to disclose.

Robson, Matthew: Dr. Robson has nothing to disclose.

Roest, Arno: Dr. Roest has nothing to disclose.

Rogers, Ian: Dr. Rogers has nothing to disclose.

Salerno, Michael: Dr. Salerno has nothing to disclose.

Schaeffter, Tobias: Dr. Schaeffter has nothing to disclose.

Schwitt, Juerg: Dr. Schwitt has nothing to disclose.

Selvanagayam, Joseph: Dr. Selvanagayam has nothing to disclose.

Shah, Dipan: Dr. Shah has nothing to disclose.

Shanbhag, Sujata: Dr. Shanbhag has nothing to disclose.

Simonetti, Orlando: Dr. Simonetti has received grant and/or research funding from Cook Medical and Siemens Medical Solutions. He has an equity interest in EXCMR, Inc.

Soleimanifard, Sahar: Dr. Soleimanifard has nothing to disclose.

Steele, Kevin: Dr. Steele has nothing to disclose.

Stuber, Mathias: Dr. Stuber has nothing to disclose.

Taylor, Andrew: Dr. Taylor has received grant and/or research funding from Siemens Medical Solutions.

Thompson, Richard: Dr. Thompson has nothing to disclose.

Valsangiacomo, Emanuela: Dr. Valsangiacomo has nothing to disclose.

van Rossum, Albert: Dr. van Rossum has nothing to disclose.

Walkden, Michelle: Dr. Walkden has nothing to disclose.

Wendell, David: Dr. Wendell has nothing to disclose.

Westwood, Mark: Dr. Westwood has nothing to disclose.

Wilke, Norbert: Dr. Wilke has nothing to disclose.

Wright, Graham: Dr. Wright has received research grants from GE Healthcare. He also receives royalty income from Circle Cardiovascular Imaging, Inc.

EXHIBITOR DIRECTORY

Cardiovascular Imaging Solutions LTD**Booth# 9**

Incubator, Imperial College London, South Kensington
London SW7 ZAZ United Kingdom
Phone (+44) 0 7885 906 770
Email r.merrifield@cmrtools.com
Web www.cmrtools.com

Cardiovascular Imaging Solutions develop CMRtools – a software package that is widely used for the viewing and analysis of cardiovascular magnetic resonance images. It provides a range of plug-in tools for specialized cardiovascular assessment including ventricular, TZ*, first pass perfusion and flow assessment.

Circle Cardiovascular Imaging**Booth# 32**

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Calgary, Alberta Canada T2P 3P2
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European Association of Cardiovascular Imaging**Booth 22**

ESC-2035, Route des Colles
Les Templiers BP179
Sophia Antipolis, France 06903
Phone (+33) 622 83 4576
Fax (+33) 4 9294 86 46
Email aesperou@escardio.org
Web www.escardio.org

The EACVI (European Association of Cardiovascular Imaging) is a registered branch of the European Society of Cardiology (ESC). It is the largest multimodality imaging organization in the world and aims at promoting patient-centered use of imaging modalities, including CMR. Its objectives are excellence in clinical diagnosis research, technical development and education in cardiovascular imaging. More information on the EACVI stand at www.escardio.org/EACVI.

GE Healthcare**Booth # 34**

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Email Anja.brau@ge.com
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Heart Imaging Technologies**Booth# 33**

5003 Southpark Drive, Suite 140
Durham, NC 27713
Phone (919) 323-4104
Fax (866) 457-3694
Email Carlee.reimer@heartit.com
Web www.heartit.com

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Imricor Medical Systems**Booth# 8**

400 Gateway Blvd.
Burnsville, MN 55337
Phone (952) 818-8417
Fax (952) 818-8401
Email info@imricor.com
Web www.imricor.com

Imricor Medical Systems specializes in developing devices and systems that are compatible with magnetic resonance imaging (MRI). Its unique MR-enabled interventional products are designed to provide doctors the ability to perform interventional procedures while taking advantage of the superior soft tissue imaging capabilities of MRI. Imricor is the world leader in the development of MR-enabled devices for electrophysiology applications. Imricor also licenses its technology to help make implanted medical devices compatible with MRI.

Materialize**Booth# 5**

Technologielaan 15
Leuven, Belgium 3001
Phone (+32) 16 396 023
Fax (+32) 16 396 606
Email davy.willems@materialise.be
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Medis Medical Imaging Systems BV**Booth# 10 & 13**

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Nano4Imaging GmbH**Booth# 11**

Pauwelsstrasse 17
Aachen, Germany 52074
Phone (+49) 241-56528261
Email info@nano4imaging.com
Web www.nano4imaging.com

Nano4Imaging concentrates on development and manufacture of products (instruments and markers) that enable the use of MRI in imaged-guided interventions and MRI-based diagnostics. We have a focus on cardiology (congenital heart disease, fibrillation) but also envisage applications in oncology. We offer a CE-labeled MRI conditional wire for clinical use in Europe.

NeoSoft/NeoCoil, LLC**Booth# 3**

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Pewaukee, WI 53072
Phone (262) 347-1250
Fax (262) 347-1251
Email contactus@neocoil.com
Web www.neosoftllc.com / www.neocoil.com

NeoSoft, LLC is focused on developing innovative, cutting-edge technology solutions for medical imaging, visualization and diagnostics. Our team is comprised of very talented, knowledgeable and experienced radiologists, application specialists, and software designers. Our goal is to make computer-aided medical diagnostics easy for the clinician, significantly reducing analysis time and ensuring patients receive the best healthcare outcomes.

Precision Image Analysis**Booth # 19**

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Fax (425) 519-9971
Email mwaiss@piamedical.com
Web www.PIAMedical.com

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Philips Healthcare**Booth# 4**

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Annemarie Blotwijk
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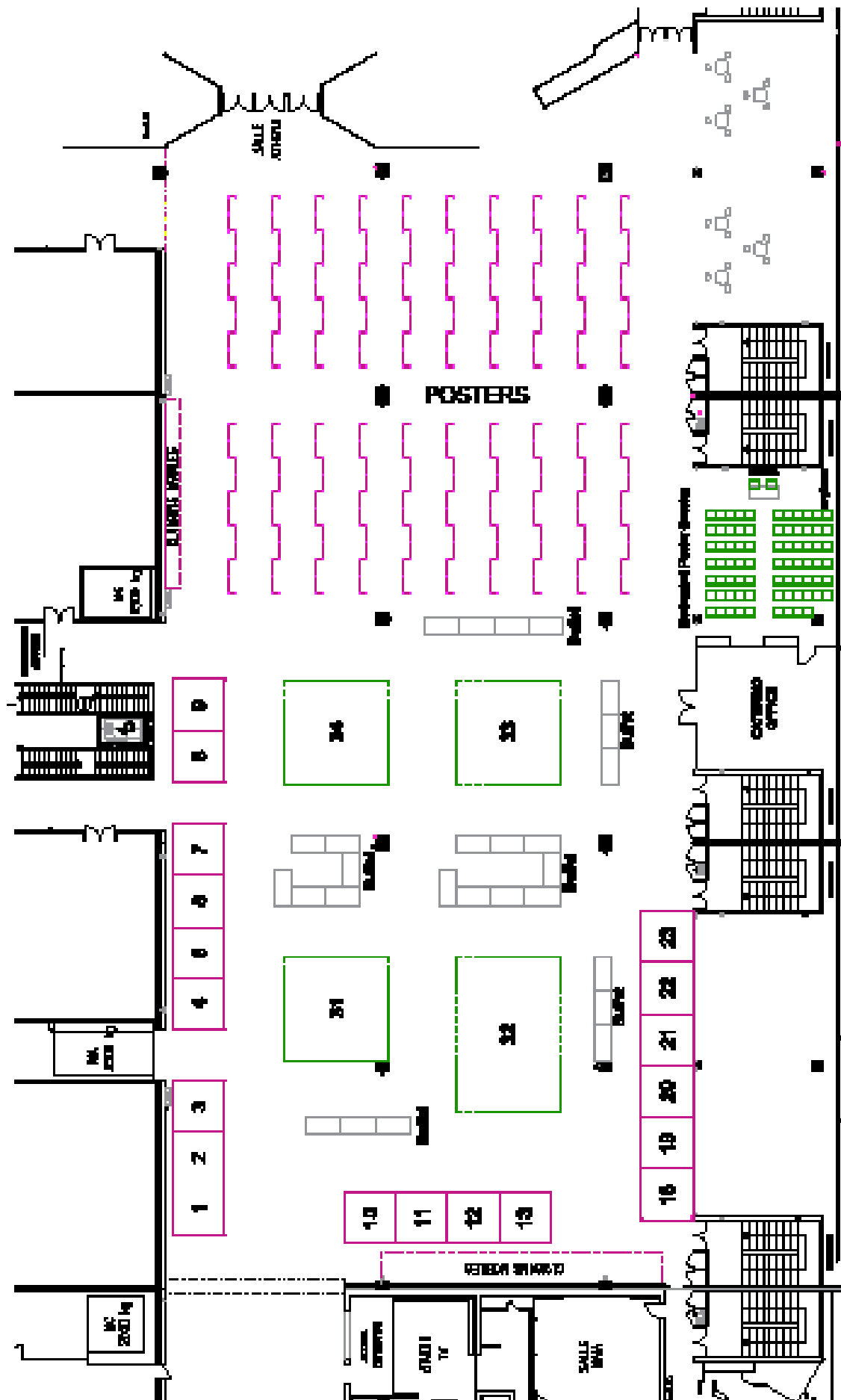
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Pie Medical Imaging B.V.**Booth# 7**

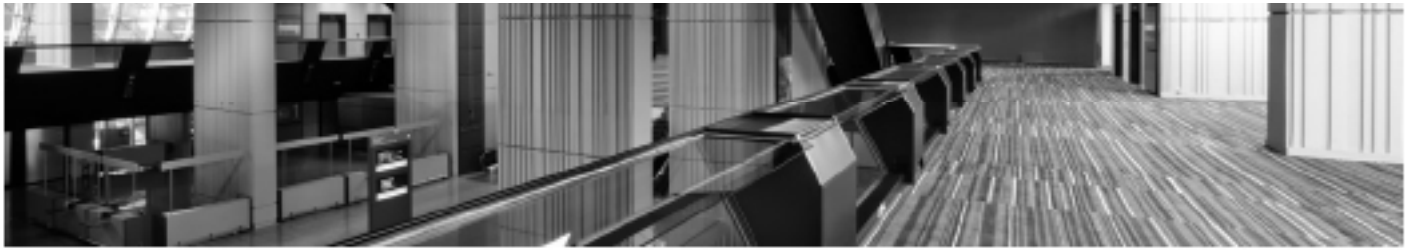
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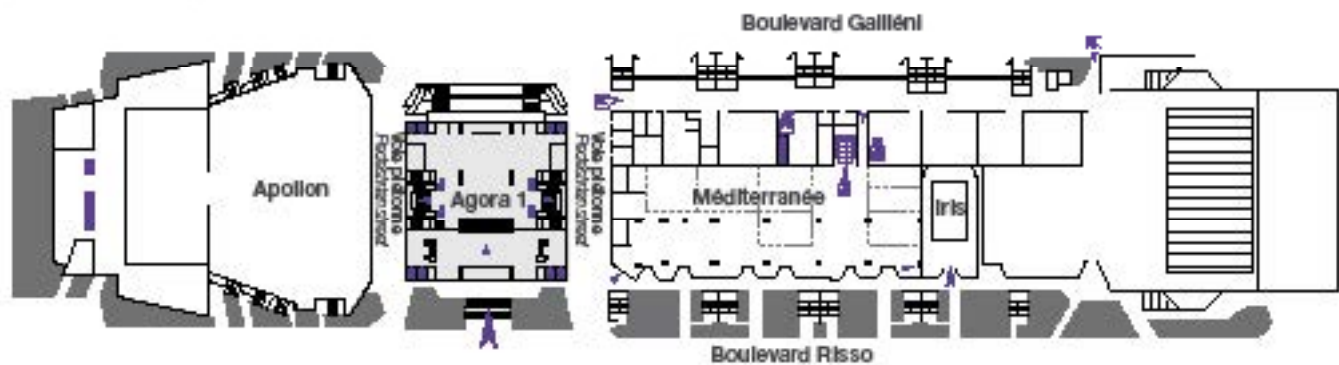
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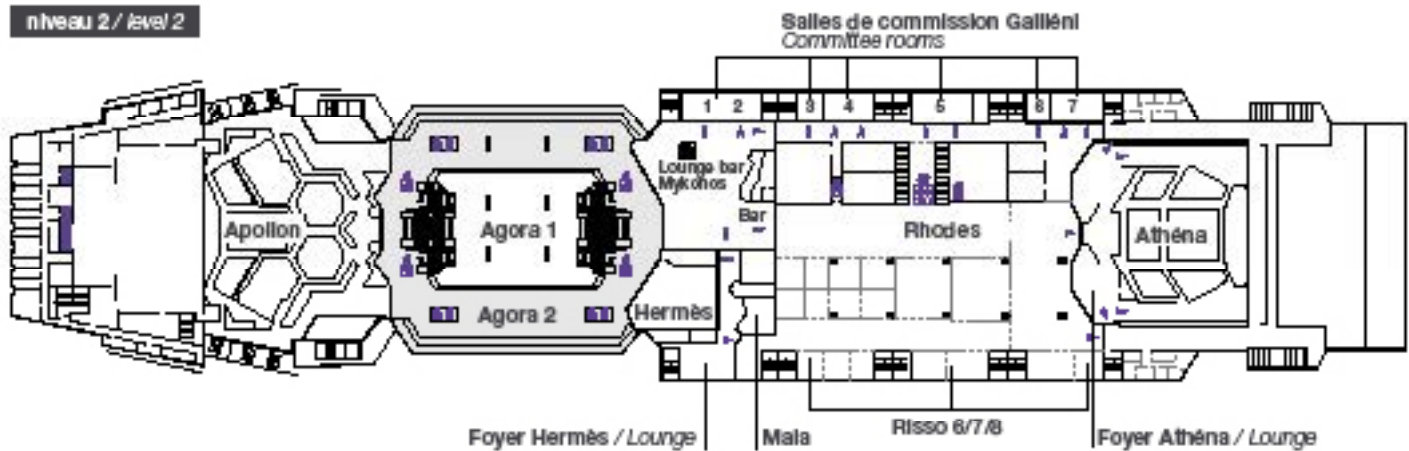
CONVENTION CENTRE FLOOR PLAN



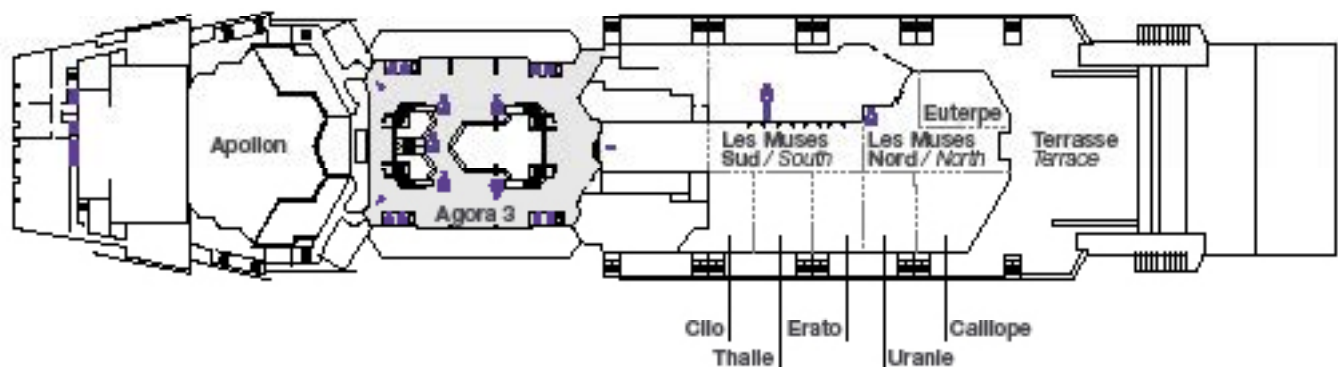
niveau 1 / level 1



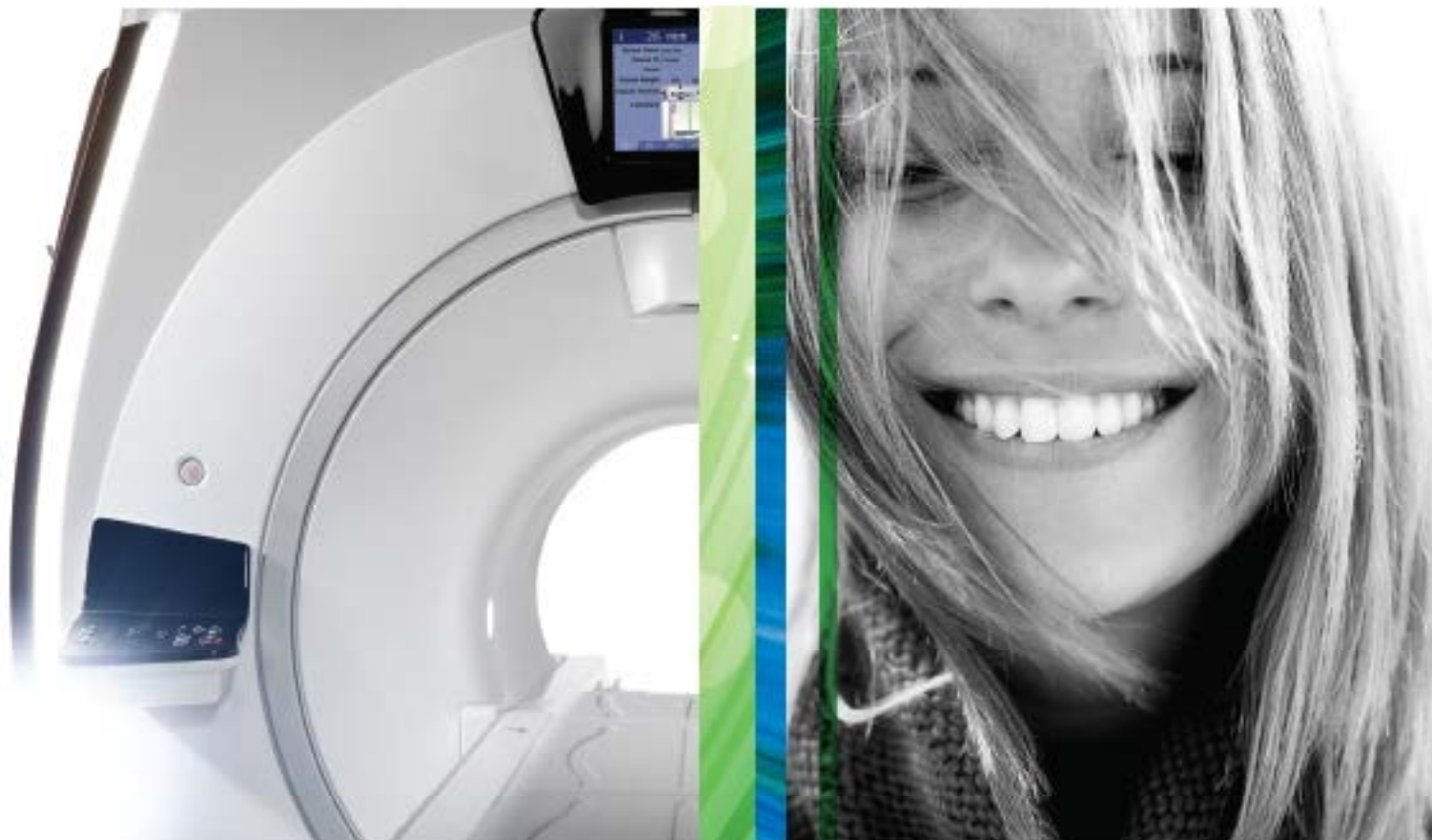
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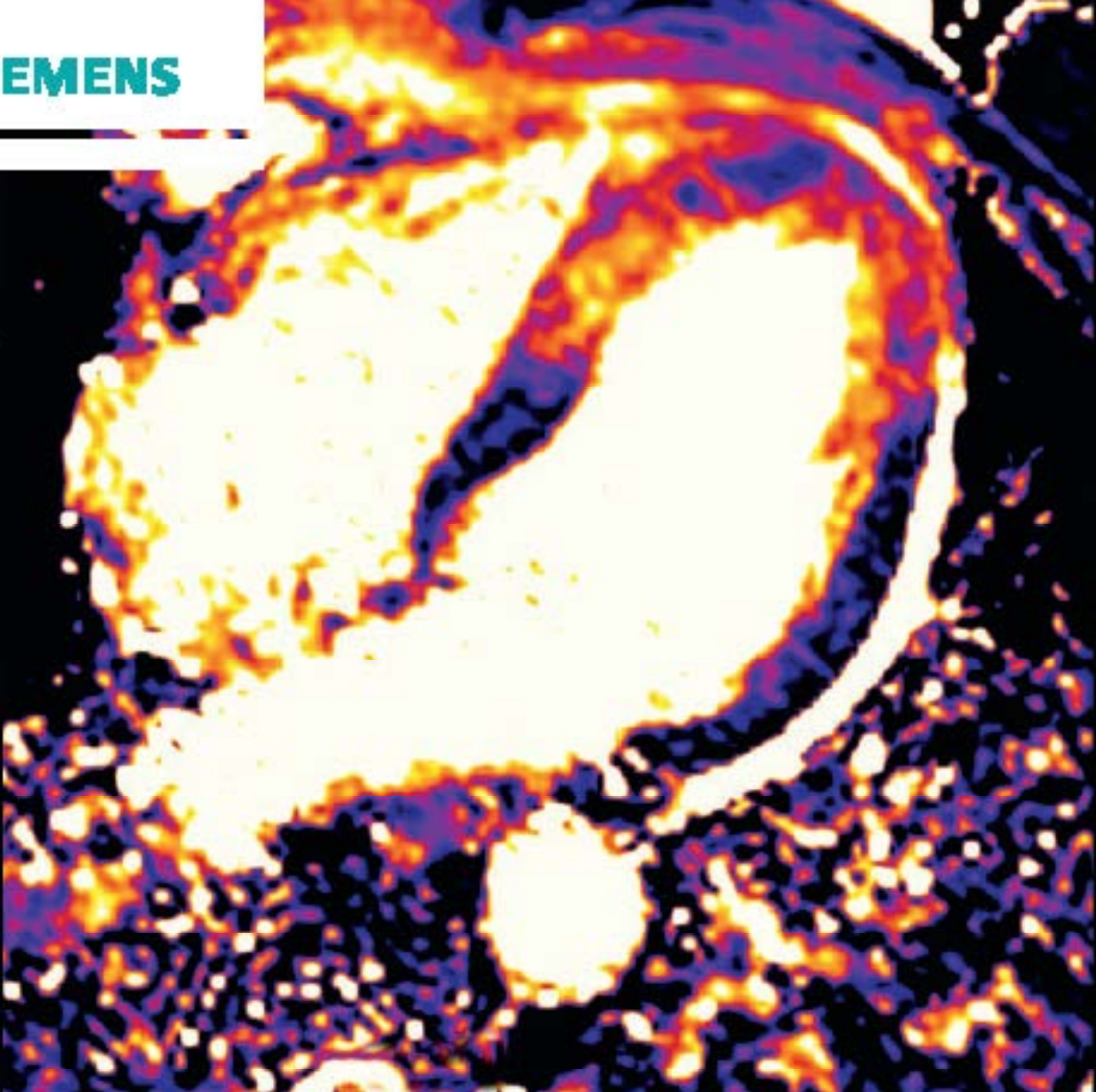
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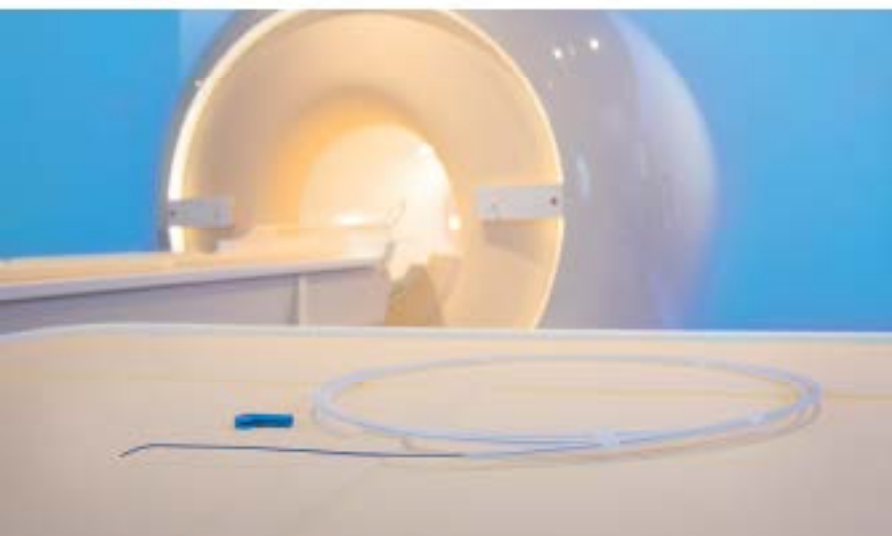
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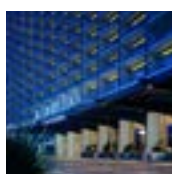
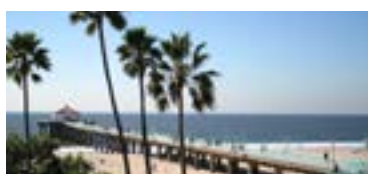
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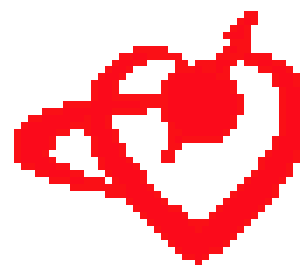
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