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International Society for Magnetic Resonance in Medicine • www.ismrm.org

ISMIRM-SNMIMI Co-Provided Workshop on **PET/MRI**

26-29 October 2023
USC Health Sciences Conference Center
Los Angeles, CA, USA



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ISMRM

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Hossein Jadvar, M.D., Ph.D.
University of Southern California
Los Angeles, CA, USA

OVERVIEW

This workshop will focus on both the technical aspects of PET/MRI as well as the clinical utility of PET/MRI. We will have sessions on technical developments such as novel MR attenuation correction techniques and approaches to motion correction. We will also have focused sessions based on body parts for clinical and research applications (neuro, GU/gyn, cardiac, etc). Other sessions will highlight radiotracers to demonstrate how non-FDG tracers can be leveraged in novel ways using PET/MRI. We will also highlight AI's increasingly important role in improving PET acquisition and reconstruction (including ultra-low dose) and diagnosis (post-processing segmentation and diagnosis). We will include sessions on how to help develop multi-center trials, and to facilitate this, we will have breakout sessions based on disease type for participants to work in small groups to discuss the need and possibly design multi-center trials. The workshop will feature a mixture of invited scientific presentations, proffered papers, a poster session, small group discussions, and a keynote lecture. Lastly, an award will be presented to students and early-stage post-doctoral researchers or physicians who will be selected from the oral paper presentations.

TARGET AUDIENCE

Clinicians, researchers, staff, technologists, and students working on PET/MRI.

EDUCATIONAL OBJECTIVES

Upon completion of this activity, participants should be able to:

- Describe the challenge of attenuation correction in PET/MRI and the various approaches being developed to solve this problem;
- Illustrate the use of MR in aiding in PET motion correction;
- Identify prior and ongoing efforts to quantify the arterial input function from PET/MR images;
- Explain the clinical use of PET/MRI and its near-term clinical applications; and
- Recognize the important role of AI in improving both PET imaging acquisition and diagnosis.

SPEAKER UPLOAD INFORMATION (Audiovisual Preview)

Uploading presentations is available on a first-come, first-served basis. Hours are:

- Thursday, 26 October: 15:00-18:00
- Friday, 27 October: 07:00-08:20
- Saturday, 28 October: 07:00-08:00
- Sunday, 29 October: 07:00-08:30

Please see program for additional times (breaks & lunch).

PROGRAM CREDIT DESIGNATION

The International Society for Magnetic Resonance in Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. The International Society for Magnetic Resonance in Medicine designates this live activity for a preliminary maximum of 13.00* *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Medical Association has an agreement of mutual recognition of Continuing Medical Education (CME) credits with the European Union of Medical Specialists (UEMS), the accreditation body for European countries. Physicians interested in converting *AMA PRA Category 1 Credit*[™] to UEMS-European Accreditation Council for Continuing Medical Education CME credits (ECMECs) should contact the UEMS at mutualrecognition@uems.eu.

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The International Society for MR Radiographers & Technologists (ISMRT), A Section of the ISMRM, is recognized by the American Registry of Radiologic Technologists (ARRT) as a Recognized Continuing Education Evaluation Mechanism (RCEEM). This workshop does not offer CE credits.

*preliminary credit designation; subject to change

CLAIMING CREDIT

To obtain your credit for the workshop, log in to the ISMRM membership portal at www.ismrm.org, click the [Session Evaluations for Certificates] menu button, find this workshop in the list that appears, click "Begin Evaluation" and follow the instructions provided.

CERTIFICATE OF PARTICIPATION

To obtain your Certificate of Participation after the workshop has ended, log in to the ISMRM membership portal at www.ismrm.org, click the [Session Evaluations for Certificates] menu button, find this workshop in the list that appears, click "Begin Evaluation" and follow the instructions provided.

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 Alan McMillan, Ph.D.....Grants/Research Support: General Electric
 Philip Robson, Ph.D.....No relevant relationships to disclose
 Paola Scifo, Ph.D.....Honorarium: General Electric
 Devaki Surasi, MBBS.....No relevant relationships to disclose
 Reggie Taylor, Ph.D.....No relationships to disclose
 Patrick Veit-Haibach, M.D.....Grants/Research Support: Siemens; Honorarium: JCA, Siemens, Springer Nature

SPEAKERS

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 Richard LaForest, Ph.D.....No relevant relationships to disclose
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 Bert-Ram Sah, M.D.....No relationships to disclose

Christin Sander, Ph.D.....No relationships to disclose
 Shetal N. Shah, M.D.....No relationships to disclose
 Timothy Shepherd, Ph.D.....No relevant relationships to disclose
 Ida Sonni, M.D.....No relationships to disclose
 Jonathan D. Thiessen, Ph.D.....Grants/Research Support: Cubresa, Siemens
 Patrick Veit-Haibach, M.D.....Grants/Research Support: Siemens; Honoraria: JCA, Siemens, Springer Nature
 Michael Veronesi, M.D., Ph.D.....No relevant relationships to disclose

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Rhiannon Pinson.....No relationships to disclose
 Melissa Simcox.....No relationships to disclose

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Singapore
04-09 MAY **2024**



ABSTRACT DEADLINE: 08 NOVEMBER 2023

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Day 1: THURSDAY, 26 OCTOBER 2023 (NO CME AVAILABLE)

15:00	Pre-Registration & Speaker Upload Available
18:00	Opening Reception

Day 2: FRIDAY, 27 OCTOBER 2023: TECHNICAL BARRIERS & DEVELOPMENT (4.50 CME AVAILABLE)

07:00	Registration & Speaker Upload Available	
08:20	Welcome	Alan McMillan, Ph.D. Patrick Veit-Haibach, M.D.
Session 1: Past, Present & Future of PET/MRI		
<i>Moderators: Timothy Cain, M.B.B.S., FRANZCR, M.B.A. & Yasutaka Fushimi, M.D.</i>		
08:30	<i>PET/MR Instrumentation, Historical Viewpoint & Evolution</i>	Adam Farag, Ph.D. University Health Network Toronto, ON, Canada
08:55	<i>Head & Neck Cancer</i>	Patrick Veit-Haibach, M.D. Toronto General Hospital Toronto, ON, Canada
09:35	<i>Applications of Artificial Intelligence in PET/MR</i>	Chuan Huang, Ph.D. Emory University School of Medicine Atlanta, GA, USA
10:00	Break & Speaker Upload Available Poster Viewing	
Session 2: Translational Research, Clinical Trials & Clinical Development		
<i>Moderators: Chuan Huang, Ph.D. & Paola Scifo, Ph.D.</i>		
10:30	<i>Musculoskeletal Applications</i>	Feliks Kogan, Ph.D. Stanford University Stanford, CA, USA
10:55	<i>Clinical Trials & Harmonization with PET/CT</i>	Richard LaForest, Ph.D. Washington University Medical School St. Louis, MO, USA
11:20	<i>How To Plan & Initiate a PET/MR Service</i>	Delphine Chen, M.D. University of Washington Seattle, WA, USA
Proffered Papers - Oral Session		
11:45	<i>Registration Pipeline of Pre-Surgical DoubleTracer PET/MRI Studies to Histopathology Images in Prostate Cancer Patients</i>	Maria Picchio, M.D. Università Vita-Salute San Raffaele Milan, Italy
11:55	<i>Simplifying Cerebral Aerobic Glycolysis Imaging by Hybrid PET/MRI</i>	Lucas Narciso, Ph.D. Centre for Addiction & Mental Health Toronto, ON, Canada
12:05	Lunch & Speaker Upload Available	
Session 3: Technical Aspects & Scientific Abstracts		
<i>Moderators: Mehdi Khalighi, Ph.D. & Philip Robson, Ph.D.</i>		
13:35	<i>Attenuation Correction in PET/MR</i>	Alan B. McMillan, Ph.D. University of Wisconsin-Madison Madison, WI, USA

Proffered Papers - Oral Session		
14:00	<i>Data-Driven Motion Correction of 11C-Methionine PET Images in a Cohort of Brain Tumor Pediatric Patients</i>	Paola Scifo, Ph.D. Università Vita-Salute San Raffaele Milan, Italy
14:10	<i>Monitoring Bacteria Post-Ingestion: PET/MRI of 89Zr-Labeled Lactobacillus Crispatus</i>	Venketesh Thrithamara Ranganathan, Ph.D. Western University London, ON, Canada
14:20	<i>Motion Robust PET/MR</i>	Hongyu An, Ph.D. Washington University in St. Louis St. Louis, MO, USA
Proffered Papers - Oral Session		
14:45	<i>Studying Rigid Head Motion on PET/MR Brain Exams</i>	Mehdi Khalighi, Ph.D. Stanford University Stanford, CA, USA
14:55	<i>Deep Denoising & Deburring of 4D Dynamic Brain PET Images with a Self-Supervised Spatiotemporal Approach</i>	Hamed Yousefi, Ph.D. Washington University in St. Louis St. Louis, MO, USA
15:05	Poster Session (No CME available)	
16:00	Break & Speaker Upload Available	
Session 4: Vendor Session (No CME Available)		
16:30	Vendor Presentations	
18:30	Adjourn	

Day 3: SATURDAY, 28 OCTOBER 2023: CLINICAL APPLICATIONS I (6.00 CME AVAILABLE)

07:00	Registration & Speaker Upload Available	
Session 5: Neuro Applications		
Moderators: Samuel Hurley, Ph.D. & Reggie Taylor, Ph.D.		
08:00	<i>Neurodegeneration</i>	Michael Veronesi, M.D., Ph.D. University of Wisconsin-Madison Madison, WI, USA
08:25	<i>Neuroncology</i>	Jonathan McConathy, M.D. University of Alabama at Birmingham Birmingham, AL, USA
08:50	<i>Neuroscience & Neurotransmitter Imaging</i>	Christin Sander, Ph.D. Massachusetts General Hospital Boston, MA, USA
09:15	<i>Epilepsy</i>	Timothy Shepherd, Ph.D. New York University Langone Medical Center New York, NY, USA
Proffered Papers - Oral Session		
09:40	<i>Determination of PET Tracer Arrival Time (TAT) in the Brain Using Early-Phase Uptake Dynamics: Comparison to Simultaneous ASL Arterial Transit Time (ATT) [Withdrawn]</i>	Ates Fettahoglu, B.Sc. Stanford University Stanford, CA, USA
09:50	<i>Striatal Dopamine Release & Hemodynamic Response to Fear Conditioning in Humans: A Simultaneous [11C]Raclopride PET & fMRI Study</i>	Rami Hamati, M.Sc. Institute of Mental Health Research Ottawa, ON, Canada
10:00	Break & Speaker Upload Available Poster Viewing	

Session 6: Cardiac & Vascular Applications		
<i>Moderators: Hongyu An, Ph.D. & Michael Kean, (R).(T).</i>		
10:30	<i>Cardiac, Clinical Applications</i>	Joanna Eva Kusmirek, M.D. Mayo Clinic Rochester Rochester, WI, USA
10:55	<i>Joint PET/MR Reconstruction</i>	Fernando Boada, Ph.D. Stanford University Stanford, CA, USA
11:20	<i>Vascular Imaging</i>	Zahi Fayad, Ph.D., FACC, FAHA Icahn School of Medicine at Mount Sinai New York, NY, USA
Proffered Papers - Oral Session		
11:45	<i>Hybrid 18F-FDG PET/MRI Predicts Adverse Clinical Outcomes in Cardiac Sarcoidosis</i>	Philip Robson, Ph.D. Icahn School of Medicine at Mount Sinai New York, NY, USA
11:55	<i>Comparing Voltage Mapping & Hybrid PET/MRI in a Canine Model of Atrial Fibrillation</i>	Benjamin Wilk, Ph.D. Lawson Health Research Institute London, ON, Canada
12:05	Lunch & Speaker Upload Available	
Session 7: Oncology Applications, Part I		
<i>Moderators: Asim Afaq, M.D. & Felipe Godinez, Ph.D.</i>		
13:25	<i>Future of PET/MR</i>	Georges El Fakhri, Ph.D. Massachusetts General Hospital & Harvard Medical School Boston, MA, USA
13:50	<i>GI System Cancer</i>	Nadine Mallak, M.D. Oregon Health & Science University Portland, OR, USA
14:15	<i>Liver & Pancreas</i>	Ryan Brunsing, M.D., Ph.D. Stanford University Stanford, CA, USA
14:50	<i>PET/MRI in Prostate Cancer</i>	Ida Sonni, M.D. University of California, Los Angeles Los Angeles, CA, USA
15:15	Break & Speaker Upload Available	
15:45	<i>Breast Cancer</i>	Bert-Ram Sah, PD M.D. University of Zurich Zurich, Switzerland
16:10	<i>PET/MRI in Gynecological & Pelvic Malignancies</i>	Shetal N. Shah, M.D. Cleveland Clinic Cleveland, OH, USA
Proffered Papers - Oral Session		
16:35	<i>Utility of [89Zr]Trastuzumab-PET/MRI Imaging for Quantitative Assessment of Tumor Heterogeneity in HER2+ Breast Cancer</i>	Ameer Mansur, B.Sc. University of Alabama at Birmingham Birmingham, AL, USA
16:45	<i>Dual-Phase PET for Cerebral Blood Flow Quantification & Amyloid Imaging Using [18F]-Florbetaben: Validation Against a Gold Standard [15O]-Water [Withdrawn]</i>	Ates Fettahoglu, B.Sc. Stanford University Stanford, CA, USA
Session 8: Poster Session (No CME Available)		
16:55	Poster Session (No CME available)	
18:00	Adjourn	

Day 4: SUNDAY, 29 OCTOBER 2023: CLINICAL APPLICATIONS II (2.50 CME AVAILABLE)		
07:00	Registration & Speaker Upload Available	
Session 9: Non-Oncology Applications		
<i>Moderators: Alan McMillan, Ph.D. & Devaki Surasi, MBBS</i>		
08:30	<i>Preclinical PET/MR</i>	Jonathan D. Thiessen, Ph.D. Lawson Health Research Institute London, ON, Canada
08:55	<i>Pain Imaging with PET/MR</i>	Sandip Biswal, M.D. University of Wisconsin School of Medicine & Public Health Madison, WI, USA
09:20	<i>Infection & Inflammation Imaging</i>	Udunna C. Anazodo, Ph.D. McGill University Montreal, QC, Canada
Proffered Papers - Oral Session		
09:45	<i>Investigating Myocardial Inflammation in the Arrhythmic Phenotype of Mitral Valve Prolapse Using 18F-FDG PET/MRI</i>	Philip Robson, Ph.D. Icahn School of Medicine at Mount Sinai New York, NY, USA
09:55	<i>The Effects of Vertebral Bone Attenuation & Resolution on Measured Spinal Cord Activity in PET/MRI</i>	Eve Lennie, M.Sc. University of Sheffield Sheffield, England, UK
10:05	<i>Prognostic Implications of Inflammation & Perfusion Post-Myocardial Infarction: A Hybrid PET/MRI Study</i>	Benjamin Wilk, Ph.D. Lawson Health Research Institute London, ON, Canada
10:15	Break & Speaker Upload Available Poster Viewing	
Session 10: Oncology Applications, Part II		
<i>Moderators: Udunna C. Anazodo, Ph.D. & Patrick Veit-Haibach, M.D.</i>		
10:45	<i>Clinical PET/MRI Improves Management of Children with Cancer</i>	Jing Qi, M.D., Ph.D. Children's Wisconsin Milwaukee, WI, USA
11:10	<i>Theranostics</i>	Peter Conti, M.D., Ph.D. University of Southern California Los Angeles, CA, USA
11:35	<i>Theranostic: Current & Projected Applications</i>	Hossein Jadvar, M.D., Ph.D. University of Southern California Los Angeles, CA, USA
Session 11: Discussion		
<i>Moderators: Alan McMillan, Ph.D. & Patrick Veit-Haibach, M.D.</i>		
12:00	<i>Discussion of Pressing Issues in PET/MR</i>	Alan McMillan, Ph.D. & Patrick Veit-Haibach, M.D.
12:55	<i>Closing Remarks</i>	Alan McMillan, Ph.D. Helen R. Nadel MD FRCPC (Diag Rad) (Nuc Med), ABR (Ped Rad), ABNM, FACNM, FSNMMI & Patrick Veit-Haibach, M.D.
13:00	Boxed Lunch & Adjourn	

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AT TODAY'S WORKSHOP!

Rami Hamati, M.Sc.

Ameer Mansur, B.Sc.

Emilia Palmèr, Ph.D.

Yujie Wang, B.Sc.

Posters

POSTER	TITLE	AUTHOR
1	<i>Ex-Vivo Attenuation Correction for Simultaneous PET/fMRI</i>	Ju-Chieh Kevin Cheng, Ph.D. University of British Columbia Vancouver, BC, Canada
2	<i>A Combined FDG-PET/Resting-State fMRI Study Investigating Disruptions in Effective Connectivity in Behavioural-Variant Frontotemporal Dementia</i>	Praveen Dassanayake, Ph.D. University of Western Ontario London, ON, Canada
3	<i>Non-Invasive Imaging of [18F]FDG Extraction Fraction by PET/MRI: A Potential Glucose Transporter Expression Biomarker</i>	Graham Deller, M.Sc. Western University London, ON, Canada
4	<i>Comparison of MRI Performance & PET Performance Between a 12-Channel & 32-Channel Coil for the Siemens Biograph mMR PET/MRI Scanner</i>	Rami Hamati, M.Sc. Institute of Mental Health Research Ottawa, ON, Canada
5	<i>Feasibility of Positron Emission Tomography/Magnetic Resonance-Simulator for Radiotherapy Planning</i>	Yanqi Huang, Ph.D. Shanghai United Imaging Healthcare Co. Ltd. Shanghai, China
6	<i>Harmonization of SUV Values Between PET/MR & PET/CT Scanners</i>	Paul Kinahan, Ph.D. University of Washington Seattle, WA, USA
7	<i>Kinetic PET Modeling with Convolutional Neural Network Anatomically Guided Reconstruction</i>	Zanetta Kovbasyuk, M.Sc. New York University Langone School of Medicine New York, NY, USA
8	<i>Zero-Dose PET Reconstruction by Mixture-of-Experts-Based TransUNet</i>	Ella Lan, M.Sc. Stanford University Stanford, CA, USA
9	<i>Feasibility of Anatomically Guided PET Reconstruction for Improving Alzheimer's Disease Diagnosis</i>	Xinzhou Li, Ph.D. Siemens Medical Solution, USA St. Louis, MO, USA
10	<i>Hybrid PET/MRI for Respiratory Motion-Corrected, ECG-Gated, Sequential 13N-Ammonia PET Perfusion in Myocardial Infarction Animal Model</i>	Heeseung Lim, Ph.D. Lawson Health Research Institute London, ON, Canada
11	<i>Functional & Structural Effects of Chronic Stress on the Human Brain & Cardiovascular System</i>	David O'Connor, Ph.D. Icahn School of Medicine at Mount Sinai New York, NY, USA
12	<i>PET-MR Whole Tumor Volume Histogram Features of SUV & ADC as a Marker of Post-Surgical Tumor Recurrence & Metastasis Potential in Patients with Rectal Adenocarcinoma: A Pilot Study</i>	Anshuman Panda, Ph.D. Mayo Clinic Phoenix, AZ, USA
13	<i>Evaluation of an MR Anatomically Guided PET Reconstruction in Multiple Sclerosis</i>	Yujie Wang, B.Sc. Washington University in St. Louis St. Louis, MO, USA
14	<i>Availability of A1 Adenosine Receptors & Perfusion in the Human Brain During Acute Normobaric Hypoxia Measured with ASL & [F-18]CPFPX PET/MRI</i>	Dr. Henning Peter Weis, Institute of Aerospace Medicine, German Aerospace Center Cologne, Germany
15	<i>MR-Guided PET Reconstruction Using Parallel Level Sets Improves Small Lesion Detection of Multiple Sclerosis</i>	Qiaoyi Xue, M.Sc. Central Research Institute Shanghai, China

Posters

POSTER	TITLE	AUTHOR
16	<i>Attenuation Correction of fNIRS Optic Fibers for PET Reconstruction on uPMR790 System</i>	Mengyuan Xue, M.Sc. UIH America, Inc. Houston, TX, USA
17	<i>Improving PET Image Quality in Clinical Settings & NEMA-IQ Phantom Studies on PET/MRI Through Deep Learning Approaches</i>	Xinrui Zhan, M.Sc. Subtle Medical Shanghai, China
18	<i>Utilizing a Bridging Registration Approach for Aligning AI-Enhanced CMR Sequences with PET Images in Cardiac PET/MR Examinations</i>	Zheng Zhang, Ph.D. Shanghai Jiao Tong University Shanghai, China
19	<i>MR-Assisted Low-Count PET Image Recovery Without the Need for Training Data</i>	Tianyun Zhao, M.Sc. Emory University Atlanta, GA, USA
20	<i>A Novel CNN-Based Approach for Whole-Body MR-to-CT Synthesis via Cross-Modal Registration</i>	Jiaxu Zheng, M.Sc. Shanghai Jiao Tong University Shanghai, China

Take the 5-minute on-site survey!

See the registration desk for questions.

This survey is not for CME credits.

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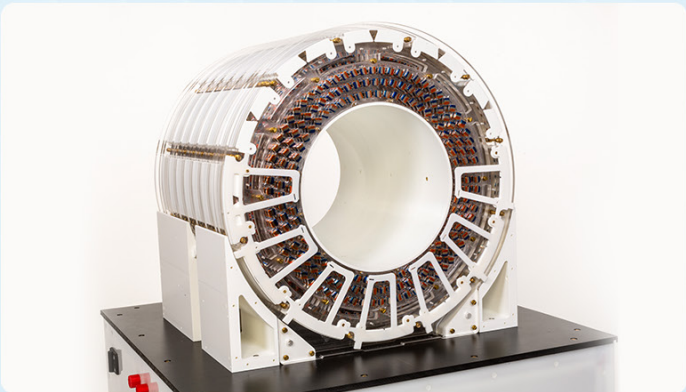
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SCMR-ISMRRM Co-Provided
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Low-Field & High-Field CMR
24-25 January 2024
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The 2nd ISMRRM Workshop
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16-18 February 2024
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ISMRRM Workshop on Moving
Forward with Intravoxel
Incoherent Motion Modeling
for Diffusion-Weighted MRI:
An Attempt at Consensus
26-28 March 2024
Erlangen, Germany

*Dates and locations subject to change.

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The ISMRRM wishes to thank the following supporters for their contributions to the ISMRRM-SNMMI Co-Provided Workshop on PET/MRI:

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