



**JOHNS HOPKINS**  
M E D I C I N E

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## 11th Interventional MRI Symposium

October 7-8, 2016

**Baltimore Marriott  
Waterfront Hotel  
Baltimore, Maryland**

This is a one time mailing.  
More details are available at  
[https://HopkinsCME.cloud-cme.com/  
aph.aspx?P=5&EID=1523](https://HopkinsCME.cloud-cme.com/aph.aspx?P=5&EID=1523)





# 11<sup>th</sup> Interventional MRI Symposium

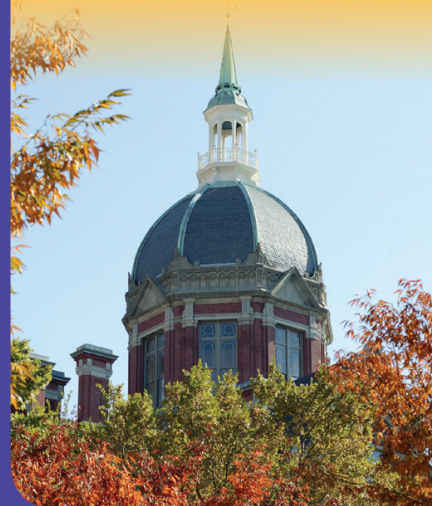
October 7-8, 2016

Baltimore Marriott Waterfront Hotel

700 Aliceanna Street

Baltimore, Maryland 21202

*This activity has been approved for AMA PRA Category 1 Credits™.*



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MEDICINE

## Description

Over the past two decades image-guided therapies have expanded into every organ system and disease state. Interventional MRI has become vital to current multimodality image-guided therapies and also provides an entirely new platform for novel therapies. In light of the rapid developments in the field and due to the success of the 10th Interventional MRI Symposium 2014 in Leipzig, we would like to cordially invite you to attend the 11th Interventional MRI Symposium 2016 in Baltimore, Maryland, USA.

The Interventional MRI Symposium is a cutting-edge platform for researchers, clinicians, and other health-care specialists to present their latest results and interact with international leaders and innovators in the field. The current program will be composed of lectures from both invited speakers and proffered papers. We encourage all professionals working in the field of interventional MRI to submit scientific abstracts to this symposium.

## Who Should Attend

This activity is intended for MRI radiologists, interventional radiologists, MR researchers, cardiologists, minimally-invasive surgeons, neurosurgeons, technologists, and nurses.

## Objectives

After attending this activity, the participant will demonstrate the ability to:

- Integrate safety protocols for interventional MRI into clinical practice.
- Define new clinical applications for interventional MRI.
- Recognize basic systems available for interventional MRI.
- Explore new technologies available for interventional MRI.

## General Information

### Registration

Friday, October 7, 2016 | 7:00 – 8:00 a.m.

### Location

**Baltimore Marriott Waterfront Hotel**  
700 Aliceanna Street, Baltimore, Maryland 21202

### Fees

**Registration Cut-Off Date: October 1, 2016**

**Methods of Payment:** Payment by check or credit card must accompany the registration form prior to the activity. On-site payments by credit card only. Foreign payments must be by credit card or with a U.S. Dollar World Money Order. The registration fee includes instructional materials, continental breakfasts, refreshment breaks and lunches.

	<i>On or before 8/19/16</i>	<i>After 8/19/16</i>
Physicians.....	\$550	\$600
Allied Health Professionals/ Nurses/Scientists.....	\$450	\$500
Residents*/Fellows*/Students*.....	\$250	\$300
*with verification of status		
Printed Syllabus.....	\$50	

You will receive a confirmation by e-mail if you have provided your e-mail address. Otherwise confirmation will be sent by mail. If you have not received it by October 1, 2016, call (410) 502-9634 to confirm that you are registered. A certificate of attendance will be sent by November 22, 2016 to the e-mail address you provide on the registration form.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. In this event, the University will refund the registration fee but is not responsible for travel expenses. Additionally, we reserve the right to change the venue to a comparable venue. Under such circumstances registrants will be notified as soon as possible.

### Late Fee and Refund Policy

A \$50 late fee applies to registrations received after 5:00 p.m. ET on **October 1, 2016**. A handling fee of \$50 will be deducted for cancellation. An additional fee may apply for cancellation of other events, including workshops and social activities. Refund requests must be received by fax or mail by **October 1, 2016**. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins conference in lieu of cancellation is not possible.

### Syllabus

All registrants will receive a flash drive with the slides and paper for note-taking. This is included in the cost of your registration. A link to the syllabus will be provided via email shortly before the activity begins if you prefer to study or print the syllabus. A printed copy may be ordered at the time of registration for an additional fee of \$50. The printed copy will be provided during activity registration. Cancellations or refunds for the printed copy will not be permitted.

### Social Event

A complimentary reception for registrants and faculty will be held on October 7, 2016 at 7:00 p.m. at The Engineers Club at the Garrett-Jacobs Mansion, 11 West Mount Vernon Place, Baltimore, Maryland 21201. Guests are invited to attend at an additional charge of **\$120 per person**. Please indicate your attendance on

## Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Johns Hopkins University School of Medicine and the Universitätsklinikum Leipzig and the Brigham and Women's Hospital. The Johns Hopkins University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

## Credit Designation Statement

The Johns Hopkins University School of Medicine designates this live activity for a maximum of 14.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Other Credits

**American Nurses Credentialing Center (ANCC)** accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME.

The Johns Hopkins University has approved this activity for **14.75 contact hours for non-physicians**.

## Policy on Speaker and Provider Disclosure

It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider disclose real or apparent conflicts of interest relating to the topics of this educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentation(s). The Johns Hopkins University School of Medicine OCME has established policies in place that will identify and resolve all conflicts of interest prior to this educational activity. Detailed disclosure will be made in the activity handout materials.

the registration form. Transportation will be provided. *NOTE: The commercial support received is solely for the educational component of this activity and will not be used to support this social event.*

## Hotel and Travel Arrangements

### Baltimore Marriott Waterfront Hotel

700 Aliceanna Street Phone +1 (410) 385-3000  
Baltimore, Maryland 21202 Fax +1 (410) 895-1900  
Toll Free +1 (800) 228-9290

### Hotel Reservation Cut-Off Date: September 15, 2016

**A limited block of sleeping rooms has been reserved for your convenience and will be available on a first come, first served basis.**

The Baltimore Marriott Waterfront is located directly on the famed Inner Harbor in downtown Baltimore, Harbor East. The hotel offers guests an unsurpassed location from which to explore the vibrant city of Baltimore, Maryland. Please use this specific website, <https://aws.passkey.com/g/53561537>, or call the toll free reservation line, +1 (800) 228-9290, to ensure you receive the special group rate of \$229 plus tax per night. Onsite parking is available at your own expense. Check-in time is 4:00 p.m. Check-out time is 12:00 p.m.

## Evaluation

A form will be available to attendees to evaluate each session and each speaker's presentation, as well as to identify future educational needs.

## Outcomes Survey

A survey will be sent to all physician attendees within three months post activity to assist us in determining what impact this activity had on the attendee's practice.

## Emergency Calls

On **October 7-8, 2016** direct emergency calls to +1 (410)-385-3000 and ask that a message be sent to the Johns Hopkins registration desk. Messages will be posted for participants.

## Americans with Disabilities Act

The Johns Hopkins University School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. *Please notify us if you have any special needs.*

## To Register or For Further Information

Register Online <https://HopkinsCME.cloud-cme.com>  
(credit card and eCheck)

Register by Phone +1 (410) 502-9634  
(credit card only)

Register by Fax +1 (866) 510-7088

Confirmation/Certificates +1 (410) 502-9634

General Information +1 (410) 955-2959

E-mail the Office of CME [cmenet@jhmi.edu](mailto:cmenet@jhmi.edu)

Twitter: <http://twitter.com/HopkinsCME>

Facebook: <http://www.facebook.com/HopkinsCME>

**For general information visit the  
CME web page:**

[https://HopkinsCME.cloud-cme.com/  
aph.aspx?P=5&EID=1523](https://HopkinsCME.cloud-cme.com/aph.aspx?P=5&EID=1523)

Sponsoring Department,  
Radiology and Radiological Science Website:  
<http://www.hopkinsmedicine.org/radiology>

# Program

## Friday, October 7, 2016

- 7:00 - 8:00 Registration and Breakfast Buffet
- 8:00 - 8:15 **Welcome and Symposium Goals**  
*Jonathan Lewin, MD, FACR; Thomas Kahn, MD; Clare Tempany, MD*
- 8:15 - 9:00 **Ferenc A. Jolesz Memorial Lecture – “IMRI in 2030!”**  
*Roderic Pettigrew, MD, PhD*
- 9:00 - 10:00 **As Yet Unseen: Industry Advances in Neuro-Interventions**  
*Moderators: Paul Bottomley, PhD and Alastair Martin, PhD*
- 10:00 - 10:20 Refreshment Break

### Session I – Advances in Neuro-Interventions

*Moderators: William Anderson, MD, PhD and Nathan McDannold, PhD*

- 10:20 - 10:30 **iMRIS in Functional Neurosurgery: Laser Ablation and DBS Lead Placement Techniques**  
*William Anderson, MD, PhD*
- 10:30 - 10:40 **Anterior Cervical Discectomy and Fusion (ACDF) Procedures: The Potential and the Need for Efficient MRI-Guidance**  
*Ehud Schmidt, PhD*
- 10:40 - 10:50 **MR-Guided Neuromodulation**  
*Nathan McDannold, PhD*
- 10:50 - 12:10 **Abstract Presentations**
- 12:10 - 1:00 Lunch Buffet/SIM Center
- 1:00 - 2:00 Poster Review/SIM Center  
*The SIM Center is an opportunity for hands on testing, use, and instruction of recent innovations in interventional MRI technology. SIM Center and Poster Review sessions are not approved for AMA PRA Category 1 Credits™*

### Session II – Cardiac and Vascular Interventions

*Moderators: Robert Lederman, MD and Professor Reza Razavi*

- 2:00 - 2:10 **MR-Imaging Guided Interventional Procedures in Electrophysiology and Congenital Heart Disease Using Active and Passive Catheter Tracking**  
*Matthias Gutberlet, MD, PhD, EBCR*
- 2:10 - 2:20 **Groovy MRI Catheterization Procedures**  
*Robert Lederman, MD*
- 2:20 - 2:30 **MR-Guided Cardiac and Vascular Interventions**  
*Professor Reza Razavi*
- 2:30 - 3:30 **Abstract Presentations**
- 3:30 - 3:50 Refreshment Break

### Session III – “Friendly” IMRI (Robots, Pulse Sequences, Breathing Motion, Navigation and Planning)

*Moderators: Kemal Tuncali, MD and Tamas Ungi, MD, PhD*

- 3:50 - 4:00 **Enabling Technologies for MRI-Guided Percutaneous Interventions**  
*Kemal Tuncali, MD*
- 4:00 - 4:10 **Robotics and Navigation in MRI-Guided Therapies**  
*Nobuhiko Hata, PhD*
- 4:10 - 4:20 **Prototyping of MR/Ultrasound Fusion-Guided Intervention Systems**  
*Tamas Ungi, MD, PhD*
- 4:20 - 4:30 **Visualization and Navigation Techniques**  
*Harald Busse, PhD*
- 4:30 - 5:30 **Abstract Presentations**

### Reception

- 7:00 - 10:00 The Engineers Club at the Garrett-Jacobs Mansion. *Transportation will be provided.*

## Saturday, October 8, 2016

- 7:00 - 8:00 Breakfast Buffet

### Session IV – Bone and Soft Tissue Interventions

*Moderators: Jan Fritz, MD and Roberto Sequeiros, MD, PhD*

- 8:00 - 8:10 **MR-Guided Intervention in the Musculoskeletal System**  
*Kamran Ahrar, MD, MBA*
- 8:10 - 8:20 **Pediatric Musculoskeletal iMRI**  
*Roberto Sequeiros, MD, PhD*
- 8:20 - 8:30 **Interventional MR Neurography**  
*Jan Fritz, MD*

8:30 - 8:40 **Anesthesia for Interventional MRI**

*Michael Phelps, MD*

8:40 - 8:50 **Vascular Malformation**

*Daniel O'Mara, MD*

8:50 - 10:00 **Abstract Presentations**

10:00 - 10:20 Refreshment Break

### **Session V – Fire and Ice (Thermal Therapies)**

*Moderators: Andreas Melzer, MD, DDS and Frank Wacker, MD*

10:20 - 10:30 **MR-Guided Laser and Cryoablation of Low Flow Vascular Malformations**

*David Woodrum, MD, PhD*

10:30 - 10:40 **Clinical Evaluation of UTE-Based Temperature Mapping for MR-Guided Cryoablation**

*Junichi Tokuda, PhD*

10:40 - 10:50 **MR-HIFU Applications in Pediatrics: Early Experience at Children's National Medical Center**

*Karun Sharma, MD, PhD*

10:50 - 11:00 **Respiratory Compensation for MR-Guided Focused Ultrasound Therapy**

*Andreas Melzer, MD, DDS*

11:00 - 11:10 **MRI Controlled Liver Ablation: A Comprehensive Approach**

*Frank Wacker, MD*

11:10 - 12:20 **Abstract Presentations**

12:20 - 1:10 Lunch Buffet

### **Session VI – Creating an iMRI Service**

*Moderators: Dara Kraitchman, VMD, PhD, FACC and Clifford Weiss, MD*

1:10 - 1:20 **Creating an iMRI Service**

*Sherif Nour, MD, FRCR*

1:20 - 1:30 **How to Practice a Routine Cryoablation Under MR Guidance**

*Afshin Gangi, MD, PhD*

1:30 - 1:40 **How to Develop a Veterinary iMRI Service**

*Dara Kraitchman, VMD, PhD, FACC*

1:40 - 2:10 **Round Table Discussion**

*Jan Fritz, MD; Afshin Gangi, MD, PhD; Alastair Martin, PhD; Sherif Nour, MD, FRCR; Professor Reza Razavi; Kemal Tuncali, MD*

### **Session VII – New Biomarkers as Targets for Intervention**

*Moderators: Kim Butts Pauly, PhD and Stefan Schönberg, MD*

2:10 - 2:20 **Closed-loop Concepts for Molecular Diagnosis and Minimally-Invasive Treatment**

*Stefan Schönberg, MD*

2:20 - 2:30 **Development and Validation of Intraoperative Tissue Biomarkers in the AMIGO Suite**

*Alexandra Golby, MD*

2:30 - 2:40 **The Trojan Horse Cancer Treatment: MRI-Assisted Delivery of Oncolytic Viruses to Tumors**

*Munita Muthana, PhD*

2:40 - 3:10 **Abstract Presentations**

3:10 - 3:30 Refreshment Break

### **Session VIII – Enhancement and Monitoring of Therapeutics**

*Moderators: Matej Kranjc, PhD and Alastair Martin, PhD*

3:30 - 3:40 **A Focused Ultrasound-Mediated Noninvasive Focal Version of the Wada Test**

*Raag Airan, MD, PhD*

3:40 - 3:50 **MR Thermometry in the Essential Tremor Application: Skulls, Simulation and Slices**

*Kim Butts Pauly, PhD*

3:50 - 4:00 **MR Electrical Impedance Tomography for the Monitoring of IRE**

*Matej Kranjc, PhD*

4:00 - 4:10 **Targeted Drug Delivery in the Brain: MR-Guided Convection Enhanced Delivery**

*Alastair Martin, PhD*

4:10 - 5:00 **Abstract Presentations**

5:00 - 5:20 **Poster Awards**

*The Poster Awards session is not approved for AMA PRA Category 1 Credits™.*

5:20 - 5:30 **Summary and Adjourn**

*Jonathan Lewin, MD; Thomas Kahn, MD; Clare Tempny, MD*

*The Johns Hopkins University School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity. This schedule is subject to change.*

*\* Please complete and return the Evaluation and Credit Report Forms.  
The Registration Desk will remain open during conference hours.*

**Acknowledgment:** Applications for commercial support from health care related industries are pending. A complete list of contributors will be provided in the syllabus. Please note that commercial support received is solely for the educational component of the activity and will not be used to provide food and beverage. *Please note: The Physician Payments Sunshine Act was enacted by Congress to increase public awareness of financial relationships between drug and medical device manufacturers and physicians. In compliance with the requirements of this Act, the commercial supporter/s of this activity may require the Johns Hopkins University School of Medicine to report certain professional information (such as name, address, National Provider Identifier (NPI), and State License number) of physician attendees who receive complimentary food and beverage in conjunction with a CME activity. The commercial supporter is required to submit the collected data to the Centers for Medicare and Medicaid Services which will then publish the data on its website.*

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**Clare Tempany, MD**  
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Vice Chair of Radiology Research  
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Boston, Massachusetts, USA

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## **LOCAL ORGANIZING COMMITTEE**

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Baltimore, Maryland, USA**

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London, United Kingdom

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Harvard Medical School  
Brigham and Women's Hospital  
Boston, Massachusetts, USA

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Adjunct Assistant Professor  
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Queen's University  
Kingston, Canada

**Frank Wacker, MD**  
Professor and Chairman of Radiology  
Hannover Medical School  
Hannover, Germany

**David Woodrum, MD, PhD**  
Associate Professor of Radiology  
Mayo Clinic College of Medicine  
Rochester, Minnesota, USA

# Registration Form

Course Number 80038447 /1523

## 11th Interventional MRI Symposium • October 7-8, 2016

**To Register: Online** (credit card and eCheck): <https://HopkinsCME.cloud-cme.com>

**By fax:** (866) 510-7088 **By phone:** (credit card only): (410) 502-9634

Or mail this form to the Johns Hopkins University, Office of Continuing Medical Education, P.O. Box 64128, Baltimore, Maryland 21264-4128. Include check payable to **HOPKINS/80038447**, or include credit card information below.

**PAYMENT MUST ACCOMPANY FORM TO CONFIRM YOUR REGISTRATION.**

I am a Johns Hopkins speaker for this activity.

Please type or print clearly:

last name		first name	m.i.	
highest degree	primary specialty		Hopkins faculty/staff only JHED ID	
For Physicians Only: NPI – 10 digits		State License #		State of License
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You will receive a confirmation notice and your attendance certificate by e-mail if you provide your e-mail address.

Check here if you wish to receive e-mail notices about upcoming CME activities.

What do you hope to learn by attending this activity? \_\_\_\_\_

Please notify us if you have any special needs. \_\_\_\_\_

### Social Event:

I plan to attend the social event at The Engineers Club on October 7, 2016 .....Complimentary

I plan to bring a guest to the social event ..... \$120

### Registration Fees:

	<i>On or before 8/19/16</i>	<i>After 8/19/16</i>
<input type="checkbox"/> Physicians .....	\$550	\$600
<input type="checkbox"/> Allied Health Professionals/Nurses/Scientists .....	\$450	\$500
<input type="checkbox"/> Residents*, Fellows*, Students* .....	\$250	\$300
*with verification of status		
<input type="checkbox"/> Printed Syllabus .....	\$50	

The registration fee includes instructional materials and food and beverage. For registrations received after 5:00 p.m. ET on **October 1, 2016**, include a **\$50** late fee. On-site registrations are payable only by credit card.

Total amount enclosed \$ \_\_\_\_\_

### Payment Type:

**JHU Faculty/Staff Only:** If you are using your Tuition Remission Benefit or an ION budget, please complete this registration form and return with appropriate payment processing form to OCME, Turner 20. Forms can be found on-line at <http://www.hopkinscme.edu/Resources/resources.aspx>.

**Check** (See instructions on top of form.)

**Credit Card:**  VISA  MASTERCARD  DISCOVER  AMEX

Card # \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Exp. Date \_\_\_\_\_

Name on Card

Signature and Date