

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

October 17-18, 2024 The Graduate Hotel Annapolis, Maryland

This activity is endorsed by:

ESMRMB

JDORS

ISMRM

NOORS

Universitätsklinikum Leipzig Medizin ist unsere Berufung.





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

#### DESCRIPTION

Over the past two decades image-guided therapies have expanded into every organ system and disease state. Interventional MRI (iMRI) 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 13th iMRI Symposium 2022 in Leipzig, we would like to cordially invite you to attend the 14th Interventional MRI Symposium 2024 in Annapolis, Maryland, USA. The Interventional MRI Symposium is a cutting-edge platform for researchers, clinicians, and other healthcare 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. The focus of the iMRI Symposium is the use of magnetic resonance imaging for the planning, control, and monitoring of surgical and radiological interventions. In particular, the topics of the 2024 iMRI symposium include interventional MRI systems, hybrid designs, instrumentation, MR pulse sequences, visualization techniques and data processing, navigation techniques, robotics, MR thermometry, thermal ablation techniques, MR guided biopsies, molecular imaging, MR guidance of cellular therapies, and targeted drug delivery.

#### WHO SHOULD ATTEND

The target audience includes: Academic/Research, Cardiology, Diagnostic Radiology, Engineering, Interventional Radiology, MRI, MRI Physics, Nuclear Radiology, Neurosurgery, Radiology, Radiologic Technologist.

#### **OBJECTIVES**

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

- Explain the underlying concepts and related methods in interventional and intraoperative MRI.
- List specific indications and applications for different clinical questions.
- Identify the advantages and limitations of interventional MRI approaches.
- Describe key research areas and clinical findings.
- Evaluate trends and developments within the field.

# POLICY ON PRESENTER AND PROVIDER DISCLOSURE

It is the policy of the Johns Hopkins School of Medicine that the presenter and provider globally disclose conflicts of interest. The Johns Hopkins School of Medicine OCME has established policies in place to identify and mitigate relevant conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

#### **GENERAL INFORMATION**

REGISTRATION October 17, 2024 | 7:15 – 8:00 a.m.

#### FEES

#### **REGISTRATION CUT-OFF DATE: October 11, 2024**

#### Register Online:

https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=46059

	Early Bird Rate by 9/1/2024	<b>Standard Fee</b> After 9/1/2024 and before 10/11/2024	<b>Late Fee</b> After 10/11/2024
Physicians	\$600	\$650	\$700
Nurses/ Scientists/ Other Allied Health Professionals	\$500	\$550	\$600
Students/ Residents/ Fellows	\$300	\$350	\$400

**Methods of Payment:** Learners must register and submit full payment prior to the start of the activity. On-site payments can only be accepted if made by learners via credit card through the online portal by 5:00 p.m. ET on the first day of the activity.

Early bird registration is available for registrations received prior to 5:00 p.m. ET on September 1, 2024.

The registration fee includes instructional materials, continental breakfasts, refreshment breaks and lunches and a dinner.

You will receive a confirmation by e-mail. If you have not received it by **October 11, 2024,** call (410) 502-9636 to confirm that you are registered.

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 11, 2024**. 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 11, 2024. No refunds will be made thereafter. Transfer of registration to another Johns Hopkins activity in lieu of cancellation is not possible.

#### **SOCIAL EVENT**

A complimentary dinner reception for registrants and faculty will be held Thursday evening, October 17, 2024 at 6:30 p.m. Guests are invited to attend at an additional charge of \$100. Please indicate your attendance when registering.

#### **SYLLABUS**

The syllabus will be accessible online and via your mobile device in the CloudCME App prior to the activity.

#### CALL FOR ABSTRACTS

Submission deadline is July 1, 2024.



#### HOTEL AND TRAVEL INFORMATION The Graduate Hotel

126 West Street Annapolis, Maryland 21401 Phone: +1 (410) 263-7777

Website: https://www.graduatehotels.com/annapolis/

Hotel Registration Cut-Off Date: September 24, 2024 Hotel Rate: \$279.00 Hotel Reservation Link: JHUCME at Graduate Annapolis

Step inside Graduate Annapolis and find yourself immersed in local history, legends and Navy traditions, as creative interiors and college nostalgia come together for a stay that's undeniably Annapolis. Located in the city's Arts District, just a short stroll from the U.S. Naval Academy, St. John's College and Chesapeake Bay, our hotel is your perfect home base for exploring this scenic harbor town. Self and valet parking are available for an additional fee. Check in time is 4:00 p.m. Check out time is 11:00 a.m.



#### AROUND TOWN — LEARN MORE TRAVEL INFORMATION

By Air: Annapolis is served by three major airports:

- Baltimore/Washington International Thurgood Marshall Airport (BWI) in Maryland—about 45 minutes away
- Dulles International Airport (IAD) in Northern Virginia— 1.5 hours away
- Ronald Reagan National Airport (DCA) in Northern Virginia— 1 hour away

**Ground Transportation:** If you don't have access to a car, local appbased ride-sharing (UBER/LYFT) and taxi services are available.

Please contact the front desk for assistance in arranging taxi or limo services to the airport.

Super shuttle offers one way or round trip van service for travelers at a reasonable rate.

Reservation can be made online at **www.supershuttle.com** or call +1 (800) 258-3826.

#### **EMERGENCY CALLS**

On October 17 – 18, 2024, direct emergency calls to +1 (410) 263-7777 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 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.

#### **SPONSORSHIP OPPORTUNITIES**

Click **HERE** to download our sponsorship prospectus.

Visit our website https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=46059, or scan this QR code for sponsorship opportunities.



Contact: Laura Friend, CME Lead Coordinator, email: Ifriend1@jhmi.edu

#### ACKNOWLEDGEMENT

We wish to acknowledge the following companies that have provided or pledged an educational grant in support of this activity. Additional sponsors are pending and will be added. Check our website for the most current listing of sponsors.



#### TO REGISTER OR FOR FURTHER INFORMATION

Register online: https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=46059

Register by Phone	(410) 502-9636
Register by Fax	(866) 510-7088
Confirmation/Certificates/Transcripts	(410) 502-9636
General Information	(410) 955-2959
E-mail the Office of CME	.cmenet@jhmi.edu

Follow us on Twitter: twitter.com/HopkinsCME Facebook: facebook.com/HopkinsCME



Check out our mobile app CloudCME. Organization Code: *HopkinsCME* 

For technical assistance with website, CloudCME or credits, please visit our tech support help page: https://hopkinscme.cloud-cme.com/about/help

For general information, please visit the activity webpage at https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=46059

### MEETING CHAIRS AND ORGANIZING COMMITTEE

#### **MEETING CHAIRS:**

#### Thomas Kahn, MD

Professor of Radiology Department of Diagnostic and Interventional Radiology University of Leipzig Leipzig, Germany

#### Jonathan S. Lewin, MD, FACR

Professor of Radiology, Biomedical Engineering, and Neurosurgery Emory School of Medicine Professor of Health Policy and Management Rollins School of Public Health Atlanta, Georgia, USA

#### Clare Tempany, MD

Ferenc Jolesz MD Professor of Radiology Harvard Medical School Center Director National Center for Advanced Technologies Image Guided Therapy Vice-Chair of Radiology Research Brigham & Women's Hospital Boston, Massachusetts, USA

#### CHAIRS ORGANIZING COMMITTEE:

#### Clifford Weiss, MD, FSIR, FCIRSE

Professor of Radiology, Radiological Science and Biomedical Engineering Division of Interventional Radiology Johns Hopkins School of Medicine Baltimore, Maryland, USA cweiss@jhmi.edu

#### Dara Kraitchman, VMD, PhD

Professor of Radiology and Radiological Science and Molecular and Comparative Pathobiology Division of MR Research Johns Hopkins School of Medicine Baltimore, Maryland, USA dkraitc1@jhmi.edu

#### **ORGANIZING COMMITTEE:**

#### Harald Busse, PhD

Senior Lecturer of Experimental Radiology Department of Diagnostic and Interventional Radiology University of Leipzig Leipzig, Germany

#### Jan Fritz, MD

Associate Professor of Radiology Department of Radiology Director of Magnetic Resonance Imaging (MRI) Section Chief Musculoskeletal (MSK) Imaging Section NYU Grossman School of Medicine New York, New York, USA

#### Hata Nobuhiko, PhD

Professor of Radiology Department of Radiology Harvard Medical School Boston, Massachusetts, USA

#### Georg Rose, PhD

Professor of Medical Engineering Chair of Medical Imaging Director of the Research Campus STIMULATE Otto-Von-Guericke-University Magdeburg Magdeburg, Germany

#### Frank K. Wacker, MD

Professor and Chairman Department of Radiology Imaging Unit, Clinical Research Center Hannover Hannover Medical School Hannover, Germany

#### David A. Woodrum, MD, PhD

Associate Professor of Radiology Mayo Clinic Department of Radiology Rochester, Minnesota, USA

## AGENDA AT-A-GLANCE

MORNING

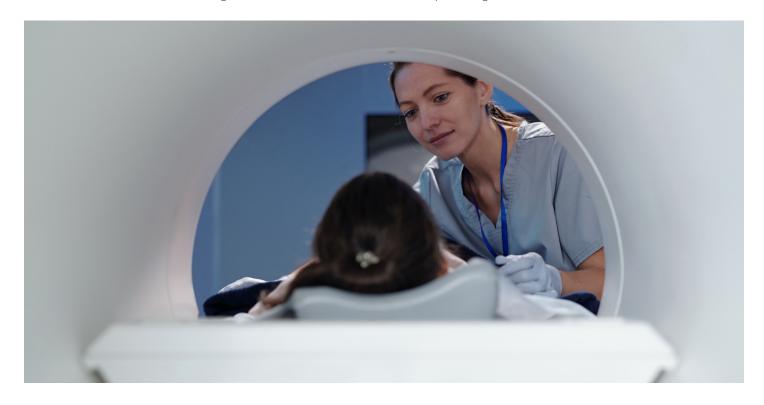
**THURSDAY, OCTOBER 17, 2024** 

FRIDAY, OCTOBER 18, 2024

7:00 a.m 8:00 a.m.	REGISTRATION, BREAKFAST and EXHIBITS	7:15 a.m 8:00 a.m.	REGISTRATION, BREAKFAST and EXHIBITS
8:00 a.m 9:00 a.m.	WELCOME, INTRODUCTION, GOALS, AND KEYNOTE LECTURE	8:00 a.m 8:45 a.m.	INTRODUCTION AND KEYNOTE LECTURE
9:00 a.m 10:05 a.m.	SESSION I: General Issues –	8:45 a.m 10:10 a.m.	SESSION V: Neuro
10:30 a.m 12:20 p.m.	Technology SESSION II: Cardiovascular	10:40 a.m 12:25 p.m.	SESSION VI: MR Thermometry/ Focused Ultrasound/Ablation
AFTERNOON		AFTERNOON	
12:25 p.m 1:45 p.m.	LUNCH SYMPOSIUM: Siemens Healthineers	12:25 p.m 1:45 p.m.	LUNCH SYMPOSIUM: Cook Medical
l:45 p.m 3:00 p.m.	<b>SESSION III: Poster Presentations</b> Presenters expected to remain with their poster throughout the session to engage in discussion.	l:45 p.m 2:40 p.m.	SESSION VII: Musculoskeletal I
		3:15 p.m 4:10 p.m.	SESSION VIII: Musculoskeletal II
		4:10 p.m 5:15 p.m.	SESSION IX: Robotics
3:30 p.m 5:40 p.m.	SESSION IV: Prostate	5:15 p.m 5:30 p.m.	POSTER AWARDS
6:30 p.m 8:30 p.m.	DINNER RECEPTION		CONCLUSION
	Graduate Hotel Trophy Room Restaurant		ADJOURNMENT

MORNING

You will receive an email notification to complete the evaluation form to obtain your certificate of attendance. The registration desk and exhibit hall will remain open during conference hours.



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

## INVITED SPEAKERS

#### Aimee Armstrong, MD

Professor of Pediatrics Director of Cardiac Catheterization & Interventional Therapies Nationwide Children's Hospital Ohio State University College of Medicine Columbus, Ohio, USA

#### Geertruida Petronella Bijvoet, MD, PhD

Cardiologist Maastricht University Medical Center Maastricht, The Netherlands

#### Roberto Blanco-Sequeiros, MD, PhD

Professor of Radiology Chairman of the Department of Radiology Turku University Hospital Turku, Finland

#### Harald Busse, PhD

Senior Lecturer of Experimental Radiology Department of Diagnostic and Interventional Radiology University of Leipzig Leipzig, Germany

#### Jaydev Desai, PhD

Associate Chair for Undergraduate Studies G.P. "Bud" Peterson and Valerie H. Peterson Professor in Pediatric Research Carol Ann and David D. Flanagan Distinguished Faculty Fellow Director, Georgia Center for Medical Robotics Associate Director, Institute for Robotics and Intelligent Machines Emory University Atlanta, Georgia, USA

#### Jan Fritz, MD

Associate Professor Department of Radiology Director of Magnetic Resonance Imaging (MRI) Section Chief Musculoskeletal (MSK) Imaging Section NYU Grossman School of Medicine New York, New York, USA

#### Jurgen Futterer, MD, PhD

Professor of Image-Guided Oncologic Interventions Department of Medical Imaging Radboud University Nijmegen Medical Center Nijmegen, Gelderland, The Netherlands

#### Afshin Gangi, MD, PhD

Chairman of Radiology and Nuclear Medicine Imagerie Interventionnelle University hospital Strasbourg France Interventional Radiology King's College London Guy's and St Thomas's NHS London, United Kingdom

#### Robert Gross, MD, PhD

Chair, Department of Neurosurgery Henry Rutgers Professor of Neurosurgery and Neuroscience and Cell Biology System Chair of Neurological Surgery Robert Wood Johnson School of Medicine and New Jersey Medical School of Rutgers University Senior Vice President for Neurosurgical Services Robert Wood Johnson Barnabus Health System Newark, New Jersey, USA

#### Nobuhiko Hata, PhD

Professor of Radiology Department of Radiology Brigham and Women's Hospital Boston, Massachusetts, USA

#### Amy Jenkins, PhD

Director of the Health Science Futures Mission Office Advanced Research Projects Agency for Health (ARPA-H) Washington, DC, USA

#### Erica Mary Knavel Koepsel, MD

Assistant Professor of Radiology Department of Radiology University of Wisconsin Madison, Wisconsin, USA

#### AV Kolandaivelu, MD

Assistant Professor of Medicine Division of Cardiology Johns Hopkins School of Medicine Baltimore, Maryland, USA

#### Kagayaki Kuroda, MD

Professor Department of Human and Information Science School of Information Science and Technology Tokai University Hiratsuka, Japan

#### Arya Nabavi, PhD

Professor of Neurosurgery Director of the Department of Neurosurgery Klinikum Nordstadt Hannover, Germany

#### Clare Tempany, MD

Ferenc Jolesz MD Professor of Radiology Harvard Medical School Center Director National Center for Advanced Technologies Image Guided Therapy Vice-Chair of Radiology Research Brigham & Women's Hospital Boston, Massachusetts, USA

#### Frank Wacker, MD

Professor and Chairman Department of Radiology Imaging Unit, Clinical Research Center Hannover Hannover Medical School Boston, Massachusetts, USA

#### David Woodrum, MD

Associate Professor of Radiology Department of Radiology Mayo Clinic Rochester, Minnesota, USA

#### Yueyong Xiao, MD, PhD

Professor Department of Radiology and Interventional Radiology First Medical Center Chinese PLA General Hospital Beijing, China