The 2nd ISMRM Workshop on Accessible MRI

16-18 FEBRUARY 2024

Indian National Science Academy (INSA) | New Delhi, India
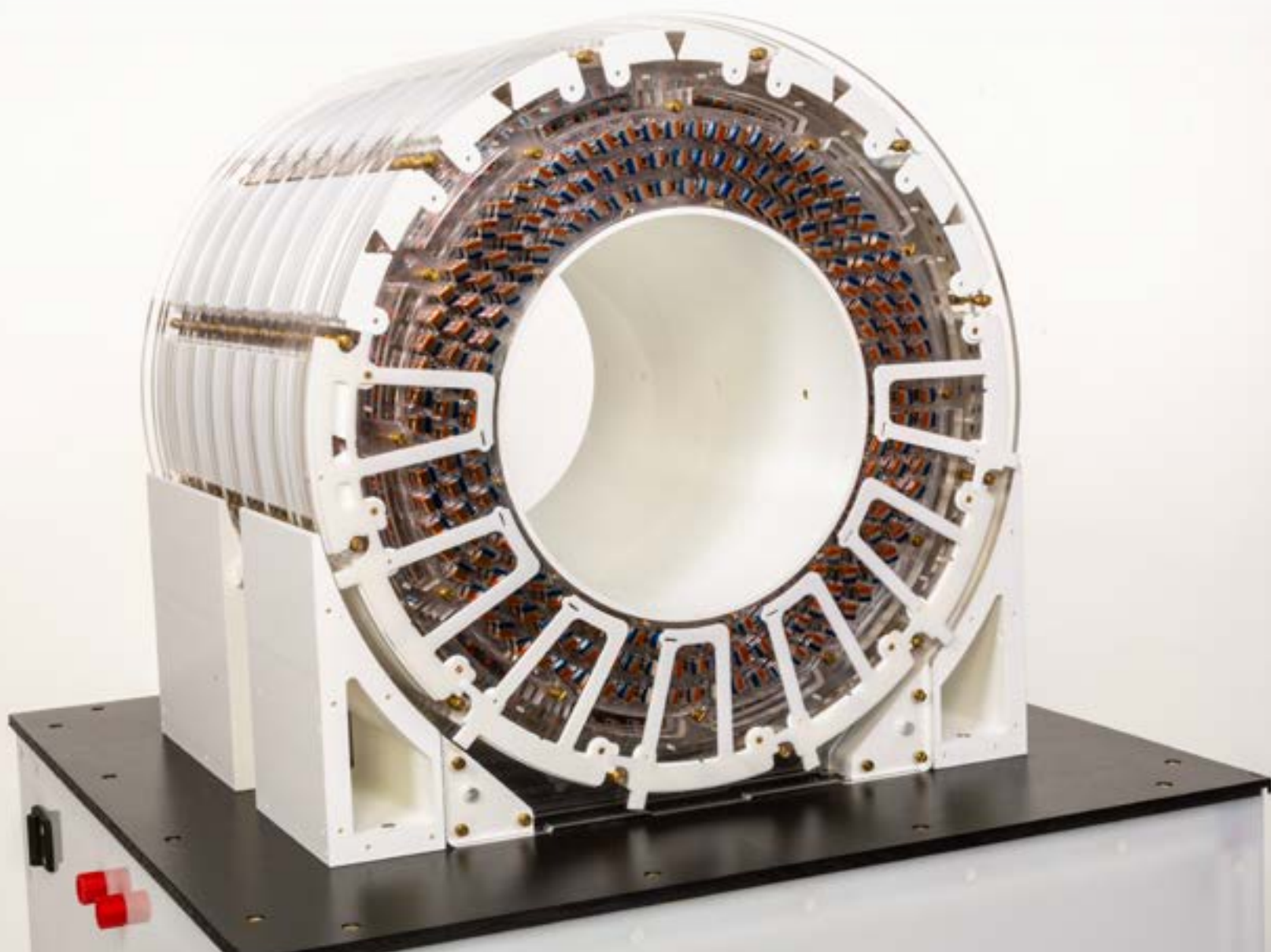
ORGANIZING COMMITTEE

Co-Chairs:

Vikas Gulani, M.D., Ph.D.
University of Michigan
Ann Arbor, MI, USA

Sonal Krishan, M.D.
Medanta Hospital
Gurgaon, India

Committee Members:

Udunna Anazodo, Ph.D.
McGill University
Montreal, QC, Canada

Nicole E. Seiberlich, Ph.D.
University of Michigan
Ann Arbor, MI, USA

S. Senthil Kumaran, Ph.D.
All India Institute of Medical Sciences
New Delhi, India

Raju Sharma, M.D., MAMS, FICR
All India Institute of Medical Sciences
New Delhi, India

Amit Mehndiratta, M.B.B.S., D. Phil.
Indian Institute of Technology Delhi
New Delhi, India

Ramesh Venkatesan, D.Sc.
GE HealthCare SHS
Bangalore, India

Johnes Obungoloch, Ph.D.
Mbarara University of Science & Technology
Mbarara, Uganda

Andrew G. Webb, Ph.D.
Leiden University
Leiden, The Netherlands

OVERVIEW

This workshop is intended as a follow-up to the ISMRM Workshop on Accessible MRI for the World (March 2018) and to the virtual meeting, ISMRM Spotlights Africa: Doing Much with Little (February 2021). In both of these meetings, the groundwork was laid for a dual purpose: (1) to facilitate meaningful discussion about the need to develop, test, and clinically translate technologies designed to make MRI accessible to 90% of the world, which does not currently have access to it, and (2) to move the ISMRM towards a greater international engagement called out in our Society's name, in parts of the world we currently have little presence, especially in low- and middle-income nations in multiple continents.

Magnetic resonance imaging as a field continues to be dominated by investigators and users in high-resource environments, and thus the needs of the field are often defined with patient populations in the same environments in mind. However, this narrative leaves out or underserves the needs of most patients in nations with fewer resources, and even patients in low-resource areas of richer nations. As the healthcare systems around the world evolve, there is an increasing need for all patient populations to be considered in the development and dissemination of our technologies. This movement requires consideration at every step of the MR imaging workflow, including hardware development and engineering, clinical needs assessment, acquisition design and implementation, clinical translation and utilization, education processes, and dissemination systems/operations. In this workshop, we seek to study and interactively discuss all of these areas and move the field a step closer toward a more global and equitable future.

TARGET AUDIENCE

We aim for the content of the workshop to address broad needs of the community as detailed above. The content will be designed to be of broad interest and speakers will be encouraged to build content with general audiences in mind, minimizing jargon and maximizing understandability.

The range of expertise of attendees will likely span all of MR science including (but not limited to) MR physics, biomedical engineering, electrical engineering/computer science, radiologists, safety experts, health policy advisors from government and internationally reputed agencies, experts from abutting technologies such as artificial intelligence and big data. The range of training will also span all of MR: basic and clinical scientists, clinical radiologists, basic and clinical postdoctoral researchers, graduate students, MR enthusiasts, existing and potentially diverse end-users, and MR technologists.

EDUCATIONAL OBJECTIVES

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

- Identify MR clinical and hardware needs of underserved populations in various geographic regions worldwide that have been traditionally underserved in MR technology;
- Identify capabilities, cost, and applicability of portable and ultra-low-cost MR technology for MR access and compare these opportunities with less portable but intermediate or high field technology;
- Identify educational and training gaps for MR technologists, scientists, and physicians in countries which are underserved by MR technology; and
- Identify opportunities and models for collaboration between scientists and clinicians around the world.

SPEAKER UPLOAD INFORMATION (Audiovisual Preview)

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

- Friday, 16 February: 08:00-08:30

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 15.75* *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 Credits™* to UEMS-European Accreditation Council for Continuing Medical Education CME credits (ECMECs) should contact the UEMS at mutualrecognition@uems.eu.

Activities certified for *AMA PRA Category 1 Credit™* that take place within a member country of the UEMS are not eligible for conversion to ECMECs under this agreement.

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 "My Meeting Evaluations" menu option, and follow the instructions provided.

ORGANIZERS

Udunna Anazodo, Ph.D..No relationships to disclose
Vikas Gulani, M.D., Ph.D..Grants/Research Support: Siemens
Sonal Krishan, M.D...No relationships to disclose
S. Senthil Kumaran, Ph.D...No relationships to disclose
Amit Mehndiratta, M.B.B.S., D. Phil...No relationships to disclose
Johnes Obungoloch, Ph.D..No relationships to disclose
Nicole E. Seiberlich, Ph.D..Grants/Research Support, IP & Royalty: Siemens
Raju Sharma, M.D., MAMS, FICR...No relationships to disclose
Ramesh Venkatesan, D.Sc...Employment: General Electric
Andrew G. Webb, Ph.D..No relationships to disclose

MODERATORS

Bharat Aggarwal, M.D...No relevant relationships to disclose
Amit Chaudhari, MBBS, M.D...No relationships to disclose
Kirsten Donald, MBChB, Ph.D...No relationships to disclose
Anubha Gupta, Ph.D...No relationships to disclose
Naranamangalam R. Jagannathan, Ph.D...No relationships to disclose
Rama Jayasundar, Ph.D., B.A.M.S...No relationships to disclose
Patricia Johnson, Ph.D...No relationships to disclose
Derek K. Jones, Ph.D..No relationships to disclose
Soumen Kar, Ph.D...No relationships to disclose
Mayil S. Krishnam, M.D., MRCP, DMRD, FRCR, MBA..No relationships to disclose
Angshul Majumdar, Ph.D..No relationships to disclose
Ernesta Meintjes, Ph.D...No relationships to disclose
Jaladhar Neelavalli, Ph.D..No relationships to disclose
Mark Parsons, M.D...No relationships to disclose
Raju Sharma, M.D., MAMS, FICR...No relationships to disclose
Anup Singh, Ph.D...No relationships to disclose
Paul Taylor, Ph.D..No relationships to disclose

SPEAKERS

Anjali Agrawal, M.D..No relationships to disclose
Udunna Anazodo, Ph.D...No relationships to disclose
Arjun Arunachalam, Ph.D..Employment, Grants/Research Support: Voxelgrids Innovations Pvt Ltd
Farouk Dako, M.D., MPH...No relationships to disclose
Kristen Destigter, M.D..No relevant relationships to disclose
Kirsten Donald, MBChB, Ph.D...No relationships to disclose
Abiodun Fatade, M.B.B.S..No relationships to disclose
Sairam Geethanath, Ph.D...No relationships to disclose
Vikas Gulani, M.D., Ph.D...Grants/Research Support: Siemens
Rajesh Harsh, M.Sc..No relationships to disclose
Patricia Johnson, Ph.D...No relationships to disclose
Derek K. Jones, Ph.D..No relationships to disclose
Sonal Krishan, M.D..No relationships to disclose
S. Senthil Kumaran, Ph.D...No relationships to disclose
Harsh Mahajan, M.B.B.S., M.D...No relationships to disclose
Amit Mehndiratta, M.B.B.S.. D. Phil..No relationships to disclose
Ernesta Meintjes, Ph.D...No relationships to disclose
Linda Moy, M.D..No relevant relationships to disclose
Mark Parsons, M.D...No relationships to disclose
Charlotte Sappo, Ph.D...No relationships to disclose
Nicole E. Seiberlich, Ph.D......................................Grants/Research Support, IP & Royalty: Siemens
Raju Sharma, M.D., MAMS, FICR...No relationships to disclose
Andrew G. Webb, Ph.D..No relationships to disclose
Ed X. Wu, Ph.D...No relationships to disclose

ABSTRACT PRESENTERS

Tisha Abraham, M.Sc...Employment: General Electric
Harsh Kumar Agarwal, Ph.D...Employment: General Electric
Ronald Amodoi, B.Sc...No relationships to disclose
Natnael Anjulo, Ph.D. Candidate...Grants/Research Support: Siemens
Babina Aryal, PG..No relationships to disclose
Esha Baidya Kayal, Ph.D.............................Grants/Research Support: Department of Science and Technology, the Government of India (CRG/2021/005342); Employment: Centre for Biomedical Engineering, IIT Delhi
Krithika Balaji, Ph.D...No relationships to disclose
Rupsa Bhattacharjee, Ph.D..No relationships to disclose
Reid Bolding, B.Sc...Grants/Research Support: Siemens
Francis Botwe, B.Sc...No relationships to disclose
Sudhanya Chatterjee, Ph.D..Employment: General Electric
Suen Chen, B.Sc..No relationships to disclose
Pierre Daudé, Ph.D..No relationships to disclose
Jesus E. Fajardo, Ph.D...No relationships to disclose
Tiago Timoteo Fernandes, M.Sc...Grants/Research Support: FCT
Erwin Fuhrer, Ph.D...No relationships to disclose
Megha Goel, M.Tech...Employment: General Electric
Muller Gomes, Ph.D..Employment: Promaxo
Madeline Hess, B.A...No relationships to disclose
Raufiya Jafari, B.Sc...No relationships to disclose
Suresh Joel, Ph.D..Employment: General Electric
Tejinder Kaur, M.D...No relationships to disclose
Lauren Kelsey, B.Sc..No relationships to disclose
Santosh Kumar, M.Tech...No relationships to disclose
Sandeep Kumar, MBBS...No relationships to disclose
Ashok Kumar Reddy, M.Tech...Employment: General Electric
Sundara Kumaram V, B.Sc...Employment: General Electric
Ganeshkumar M, M.Sc...No relationships to disclose
Raji Susan Mathew, Ph.D..No relationships to disclose
Shounak Nandi, B.Tech..No relationships to disclose
Sara Neves Silva, B.Sc..Grants/Research Support: Siemens
Michael Ohliger, Ph.D..No relationships to disclose
Alex Pang, Undergraduate...No relationships to disclose
Piyush Kumar Prajapati, M.Tech...No relationships to disclose
Yueqi Qiu, B.Sc..No relationships to disclose
Sajith Rajamani, B.Sc..Employment: General Electric
Radhika Rajeev, MBBS, M.D..No relationships to disclose
Anupama Ramachandran, M.D...Grants/Research Support: Siemens
Sudhir Ramanna, M.Sc...Consulting Fee: General Electric
Meredith Sadinski, Ph.D..Employment: Promaxo
Gordon Sarty, Ph.D...Owner: Pelican MRI, Inc.
Preetham Shankpal, Ph.D..Employment: General Electric
Tonny Ssentamu, B.Sc...No relationships to disclose
Rajagopalan Sundaresan, M.Sc..Employment: General Electric
Paul Taylor, Ph.D..No relationships to disclose
Radhika Tibrewala, M.Sc...No relationships to disclose
Andre van der Kouwe, Ph.D....................................Grants/Research Support: NIH R01HD109436, R01AA030014, R01HD110152, R01AG064027, R01HD099846, R01HD093578 and R01HD085813
Maclean Vokhiwa, M.P.H..No relationships to disclose
Andrew Webb, Ph.D...No relationships to disclose

ISMRM STAFF

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

Day 1: FRIDAY, 16 FEBRUARY 2024 *(5.00 CME Available)*	
08:00	Registration & Speaker Upload Available
Session 1: Opening	
Moderators: Kirsten Donald, MBChB, Ph.D. & N.R. Jagannathan, Ph.D.	
08:30	Welcome & Introduction to Workshop	Vikas Gulani, M.D., Ph.D. & Sonal Krishan, M.D.
08:45	*The Meaning of Accessibility to ISMRM*	Derek K. Jones, Ph.D. Cardiff University Cardiff, England, UK
09:10	*Why is MRI Expensive? Does It Have To Be?*	Arjun Arunachalam, Ph.D. Voxelgrids Innovations Private Limited Bangaluru, India
09:35	*Democratization of Use: Experience with Ultrasound*	Kristen Destigter, M.D. University of Vermont Medical Center Burlington, VT, USA
10:00	Discussion Break with Coffee & Tea Speaker Upload Available	
Session 2: Addressing Disparities Around the World	
Moderators: Durgesh Dwivedi, Ph.D. & Derek K. Jones, Ph.D	
10:30	*Building the Business Case for Providing MRI Access in LMICs*	Harsh Mahajan, M.B.B.S., M.D. Mahajan Imaging & Labs New Delhi, India
10:55	*Project SAMEER in India: Building a Homegrown MRI Scanner from the Ground Up in an LMIC Environment*	Rajesh Harsh Sameer Mumbai, India
11:20	Discussion	
11:45	Lunch & Speaker Upload Available Poster Viewing	
12:00	Poster Evaluation Session (until 15:00) *(No CME Available)*	S. Senthil Kumaran, Ph.D. & TBD
13:15-19:30	Institutional Site Visit of Ballabgarh or AIIMS (Optional & Size Limited) *(No CME Available)*	
Session 3: The Indian Experience	
Moderators: Rama Jayasundar, Ph.D. & Raju Sharma, M.D., MAMS, FICR	
15:00	*Keynote Address: Project SAMEER in India (No CME Available)*	Shri S. Krishan Ministry of Electronics & Information Technology New Delhi, India
15:25	*Developing a Scientific Enterprise at IIT Delhi*	Amit Mehndiratta, M.B.B.S.. D. Phil. Indian Institute of Technology Delhi New Delhi, India
15:50	*AI to Decrease the Interpretive Burden*	Anjali Agrawal, M.D. Teleradiology Solutions New Delhi, India
16:15	Discussion	
16:35	MRI Research in India: Informal Discussions with Faculty from India (until 18:00) *(No CME Available)*	
18:00	Adjourn	
19:30	Dinner	

Day 2: SATURDAY, 17 FEBRUARY 2024 *(6.50 CME Available)*

	Session 4: Ultra-Low Field MR	
	Moderators: Soumen Kar, Ph.D. & Jaladhar Neelavali, Ph.D.	
08:30	*Field Strength as a Variable: When To Use What?*	Vikas Gulani, M.D., Ph.D. University of Michigan Ann Arbor, MI, USA
08:55	*Hardware Considerations at Very Low Field*	Ed X. Wu, Ph.D. University of Hong Kong Hong Kong, China
09:20	*Translational Potential: The First 3 Years*	Kirsten Donald, MBChB, Ph.D. University of Cape Town Cape Town, South Africa
09:40	Discussion Break with Coffee & Tea Speaker Upload Available	
	Session 5: Winning Back the Losses: Fighting SNR at Low & Intermediate Fields	
	Moderators: Ernesta Meintjes, Ph.D. & HSD Srinivas, BE, MBA	
10:10	*AI for SNR Gains*	Ed X. Wu, Ph.D. University of Hong Kong Hong Kong, China
10:35	*RF Solutions*	Charlotte Sappo, Ph.D. Vanderbilt University Medical Center Nashville, TN, USA
11:00	*Image Quality in Low Field MR*	Sairam Geethanath, Ph.D. Johns Hopkins University Baltimore, MD, USA
	Session 6: Proffered Papers (Oral Session)	
	Moderators: Amit Chaudhari, MBBS, M.D. & Anup Singh, Ph.D.	
	Proffered Papers - Oral	
11:30	*Improving Access to MRI in Low-Middle Income Countries Through Capacity Building*	Francis Botwe, B.Sc. University of Sussex Brighton, England, UK
11:38	*Accessibility of MRI Services at the Top of the World, Nepal*	Babina Aryal, PG Brainware University West Bengal, India
11:46	*A Case Study of Clinical Accessibility of Ultra-Low-Field MRI in a Low-Resource Referral Hospital in Southern Malawi*	Maclean Vokhiwa, M.P.H. TRUE Malawi Blantyre, Malawi
11:54	*Spatiotemporal Encoding MRI at a Portable Low Field System Without Parallel Imaging*	Yueqi Qiu, B.Sc. Shanghai Jiao Tong University Shanghai, China
12:02	*A Low-Cost, Small-Footprint Gradient Amplifier for Low Field MRI Based on GaN FETs*	Reid Bolding, B.Sc. Case Western Reserve University Cleveland, OH, USA
12:10	*Low-Cost Internet-Connectivity Robust Fluwiz-Based Cloud Computing & Review Service for MR Workflows*	Sundara Kumaram V, B.Sc. GE HealthCare Bangalore, India

12:18	*Clinical Utility of 0.55T MRI System for the Surveillance of Intraductal Papillary Mucinous Neoplasm*	Radhika Rajeev, MBBS, M.D. University of Michigan, Ann Arbor Ann Arbor, MI, USA
12:26	*Accessible MR Using AI on Derated Systems: A Large Clinical Study*	Suresh Joel, Ph.D. GE HealthCare Bangalore, India
12:34	Lunch & Speaker Upload Available Poster Viewing	
Session 7: Mid-Field & Traditional Field MR		
Moderators: Patricia Johnson, Ph.D. & Mayil Krishnam, M.D., MRCP, DMRD, FRCR, MBA		
14:00	*Bringing Low Field MRI to Resource-Constrained Setting: The Journey So Far!*	Raju Sharma, M.D. All India Institute of Medical Sciences New Delhi, India
14:25	*Cost Versus Performance*	Andrew G. Webb, Ph.D. Leiden University Medical Center Leiden, The Netherlands
14:50	*Advanced Imaging for Low-Performance, Low-Cost Clinical Scanners*	Nicole E. Seiberlich, Ph.D. University of Michigan Ann Arbor, MI, USA
15:15	Discussion	
15:30	Break with Coffee & Tea Speaker Upload Available	
16:00	Institutional Site Visit of AIIMS (Optional & Size Limited) *(No CME Available)*	
Session 8: Education & Dissemination of Science		
Moderators: Anubha Gupta, Ph.D., & Uma Sharma, Ph.D.		
16:00	*The CAMERA Experience*	Farouk Dako, M.D., MPH University of Pennsylvania Philadelphia, PA, USA
16:25	*Educating Technologists*	Sonal Krishan, M.D. Medanta Hospital Gurgaon, India
16:50	*Opportunities to Share Experience in Publications*	Linda Moy, M.D. New York University Cancer Institute New York, NY, USA
17:15	Discussion	
17:30	Adjourn	
17:30	ISMRM India Chapter General Business Meeting *(No CME Available)*	
19:00	Dinner	

Day 3: SUNDAY, 18 FEBRUARY 2024 *(4.25 CME Available)*

Session 9: Proffered Papers (Oral Session)		
Moderators: Angshul Majumdar, Ph.D. & Mark Parsons, M.D.		
Proffered Papers - Oral		
08:30	*Current State-of-the-Art on an Open-Source 47 mT Halbach System*	Andrew Webb, Ph.D. Leiden University Medical Center Leiden, The Netherlands

08:38	*Denoising Very Low-Field Magnetic Resonance Images Using Native Noise Modelling & Deep Learning*	Tonny Ssentamu, B.Sc. Makerere University Kampala, Uganda
08:46	*Open-Source Simulator for Spatial Encoding Effects in Highly Variable B0 & Gradient Fields*	Radhika Tibrewala, M.Sc. New York University Grossman School of Medicine New York, NY, USA
08:54	*1.5D TRASE MRI*	Gordon Sarty, Ph.D. University of Saskatchewan Saskatoon, SK, Canada
09:02	*A Comparison Study of Different Eddy Current Measurements at Low Field MRI*	Suen Chen, B.Sc. Shanghai Jiao Tong University Shanghai, China
09:10	*Promoting Accessibility Through the Clinical Application of 0.55T MRI-Guided Robotic & Percutaneous In-Bore Prostate Biopsies*	Tejinder Kaur, M.D. University of Michigan Ann Arbor, MI, USA
09:18	*Interventional Navigation at Portable MRI Systems: A Pilot Study*	Yueqi Qiu, B.Sc. Shanghai Jiao Tong University Shanghai, China
09:26	*Simultaneous Multi-Slice Fast Spin Echo at 0.5T*	Sudhir Ramanna, M.Sc. GE HealthCare Bangalore, India
09:34	Break with Coffee & Tea Speaker Upload Available	
Session 10: Launching & Maintaining Research Amidst Resource Constraints		
Moderators: Paul Taylor, Ph.D. & TBD		
10:05	*Advanced MRI Research in South Africa*	Ernesta Meintjes, Ph.D. University of Cape Town Cape Town, South Africa
10:30	*Advanced MRI Research in Nigeria*	Abiodun Fatade, M.B.B.S. Crestview Radiology Ltd. Lagos, Nigeria
10:55	*Advanced MRI Research in India*	S. Senthil Kumaran, Ph.D. All India Institute of Medical New Delhi, India
Session 11: Proffered Papers (Oral Session)		
Moderators: Bharat Aggarwal, M.D. & Abiodun Fatade, M.B.B.S.		
Proffered Papers - Oral		
11:30	*Halbach Magnet Design for Low-Field MRI Using Higher-Order Halbach Shimming & Layer-Independent Segmentation*	Natnael Anjulo, Ph.D. Candidate Case Western Reserve University Cleveland, OH, USA
11:38	*Conventional Faraday Passive Shielding & Effectiveness Testing, Electromagnetic Interference (Emi) Detection & Cancellation Using a Single RF Coil in 48mT, 2 MHz Point-of-Care Low Field MRI*	Ronald Amodoi, B.Sc. MRI Uganda Mbarara, Uganda
11:46	*3D MR Fingerprinting for Prostate at 0.55 T*	Jesus E. Fajardo, Ph.D. University of Michigan Ann Arbor, MI, USA
11:54	*Deep-Learning Accelerated Free-Breathing Simultaneous Quantification of Fat Fraction, R2* & T1 at 0.55T: Validation in a Clinical Cohort*	Michael Ohliger, Ph.D. University of California, San Francisco San Francisco, CA, USA

12:02	*Technical Feasibility of Knee T2 Mapping at 0.55T: A Deep-Learning & Radial TSE-Enabled Approach*	Rupsa Bhattacharjee, Ph.D. University of California, San Francisco San Francisco, CA, USA
12:10	*Clinical Feasibility of 3D Female Pelvic Floor MRI in a Community Urology with a Portable Low-Field Scanner*	Meredith Sadinski, Ph.D. Promaxo Oakland, CA, USA
12:18	*Fetal-Guided Automatic Acquisition & Analysis of Both Anatomical & Functional Fetal MRI*	Sara Neves Silva, B.Sc. King's College London London, England, UK
12:26	*Comparison of Neonatal Brain Morphometry from Low-Field & High-Field MRI Acquisitions*	Andre van der Kouwe, Ph.D. Massachusetts General Hospital Charlestown, MA, USA
12:34	Lunch & Speaker Upload Available	
	Session 12: Developing Collaborative Networks	
	Moderators: TBD & Prashanth Warrier, MBA, M.Tech.	
13:30	*Data-Sharing & Access/Non-Colonial Collaboration*	Patricia Johnson, Ph.D. New York University New York, NY, USA
13:55	*Building Networks Between LMICs*	Udunna Anazodo, Ph.D. McGill University Montreal, QC, Canada
14:20	*MR for the Outback: Australian Perspective*	Mark Parsons, M.D. UNSW Sydney Sydney, NSW, Australia
14:45	*Welcome Address*	S. Senthil Kumaran, Ph.D. All India Institute of Medical Sciences New Delhi, India
14:55	Summary of Workshop	Vikas Gulani, M.D, Ph.D. & Sonal Krishan, M.D.
15:05	Discussion & Feedback	Organizing Committee
15:30	Awards	Vikas Gulani, M.D, Ph.D.
15:45	Thank You & Adjourn	Vikas Gulani, M.D, Ph.D.
16:00	High Tea	

Take the 5-minute on-site survey!

See the registration desk for questions.

This survey is not for CME credits.

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The **ISMRM Research & Education Fund** was established to support the next generation of specialists in the field of magnetic resonance regardless of scientific discipline, geography, country of origin and resources available.

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— THE NEXT GENERATION OF MR SPECIALISTS —
AT TODAY'S WORKSHOP!

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Natnael Anjulo, Ph.D. Candidate	Sara Neves Silva, B.Sc.
Babina Aryal, PG	Radhika Rajeev, MBBS, M.D.
Krithika Balaji, Ph.D.	Tonny Ssentamu, B.Sc.
Francis Botwe, B.Sc.	Radhika Tibrewala, M.Sc.
Jesus E. Fajardo, Ph.D.	Maclean Vokhiwa, M.P.H.
Tejinder Kaur, M.D.	

Posters

POSTER	TITLE	AUTHOR
1	*Intelligent Scan Plane Prescription in Knee MRI in Subjects with Metal Implants*	Tisha Abraham, M.Sc. GE HealthCare Bangalore, India
2	*Patient Adaptive Intelligent MRI Scanning with Similar Scan Time & Consistent Image Quality*	Harsh Kumar Agarwal, Ph.D. GE HealthCare Bangalore, India
3	*Present Status of Magnetic Resonance Imaging Education Across Nepal*	Babina Aryal, PG Brainware University West Bengal, India
4	*Comparison Between Diagnostic Performance of Apparent Diffusion Coefficient & Quantitative Diffusion Kurtosis Imaging for Characterization of Lymphoma*	Esha Baidya Kayal, Ph.D. Indian Institutre of Technology Delhi New Delhi, India
5	*Dynamic B0 Drift Correction for Rapid Phase-Cycled bSSFP on a 13-Year-Old 3T Scanner*	Krithika Balaji, Ph.D. Imperial College London London, England, UK
6	*Self-Shielded Multi-Turn Surface Coils for Decoupling RF Coil Arrays in Low Field MRI*	Reid Bolding, B.Sc. Case Western Reserve University Cleveland, OH, USA
7	*AI Based Denoising Method for Diffusion Weighted MR Images at 0.5T*	Sudhanya Chatterjee, Ph.D. GE HealthCare Bengaluru, India
8	*Inline Automatic Quality Control of 2D Phase-Contrast Flow MR Imaging for Subject-Specific Scan Time Adaptation*	Pierre Daudé, Ph.D. Laboratory of Imaging Technology (NIH-NHLBI) Bethesda, MD, USA
9	*Can We Optimize Cartilage T2 Mapping Sequence with Open Software?*	Tiago Timoteo Fernandes, M.Sc. Institute for Systems & Robotics - Instituto Superior Técnico, Universidade de Lisboa Lisbon, Portugal
10	*MR Simulation Platform for Hardware Close MR Simulation for Low-Field Device Development*	Erwin Fuhrer, Ph.D. Indian Institute of Technology Mandi Mandi, India
11	*Motion Correction in Multi-Shot Acquisitions by Removal of Motion-Ridden Shots to Fill with Unrolled DL Reconstruction*	Megha Goel, M.Tech. GE Healthcare Bangalore, India
12	*Diffusion Weighted Imaging with a Portable Single Sided Clinic Based MRI Scanner*	Muller Gomes, Ph.D. Promaxo Oakland, CA, USA
13	*Challenges & Opportunities for Clinical Transition of Deep Learning-Based Knee Segmentation Research Models Trained on Mid-Field 3T Images to Low-Field 0.55T Images*	Madeline Hess, B.A. University of California, San Francisco San Francisco, CA, USA
14	*Optimizing Cardiac MRI Segmentation Using Slice Classification for Improved LV Myocardium Assessment*	Raufiya Jafari, B.Sc. Indian Institute of Technology New Delhi, India
15	*Using Deep Learning Reconstruction to Improve Abdominal MR Image Quality at 0.55T: A Comparative Study*	Lauren Kelsey, B.Sc. University of Michigan Ann Arbor, MI, USA
16	*16-Channel Modular Multi-Purpose Flexible Coil for Accessible MRI*	Santosh Kumar, Mtech Delhi University Bangalore, India

Posters

POSTER	TITLE	AUTHOR
17	*Automatic Classification of Cine MRI Slices with Limited Data Using CNN Models*	Sandeep Kumar, MBBS Indian Institute of Technology, Delhi New Delhi, India
18	*Diffusion Image Quality in Constrained System Environment for Accessible MRI*	Ashok Kumar Reddy, M.Tech. GE HealthCare Bangalore, India
19	*Evaluating the Performance of Fat-Water Separation Methods in Low SNR Multi-Echo MRIs*	Ganeshkumar M, M.Sc. Indian Institute of Technology New Delhi, India
20	Withdrawn by author	
21	*Textural Changes are More Sensitive than Volumetry of the Amygdala in Cocaine Use Disorder Patients: Potential for Low-Field MRI Translation*	Shounak Nandi, B.Tech Icahn School of Medicine at Mount Sinai New York, NY, USA
22	*Exploring the Potential of a Score-Based Diffusion Model on 0.3T Low Field MRI Scans for Accelerated MRI*	Alex Pang, Undergraduate The Village School Houston,TX, USA
23	*Denoising DCE-MRI Data Using Nadaraya-Watson Method: A Time-Efficient Approach for Improved Tracer Kinetic Maps*	Piyush Kumar Prajapati, M.Tech. Indian Institute of Technology, Delhi New Delhi, India
24	*Fat Suppressed MRI at Mid-Field with High Field Inhomogeneity Using Fast Spin-Echo Triple-Echo Dixon*	Sajith Rajamani, B.Sc. GE HealthCare Bangalore, India
25	*Multi-Echo SWI at 0.5T: Protocol Considerations & SNR Enhancement by Deep Learning Reconstruction*	Sajith Rajamani, B.Sc. GE HealthCare Bangalore, India
26	*Feasibility of Routine Abdominal MR Imaging in Patients at 0.55T: Comparison with 1.5 and 3T*	Anupama Ramachandran, M.D. Brigham & Women's Hospital Boston, MA, USA
27	*Simultaneous Multi-Slice Diffusion MRI at 0.5T*	Sudhir Ramanna, M.Sc. GE HealthCare Bangalore, India
28	*Simultaneous Multi-Slice Multi-Echo GRE Without Coil Sensitivity*	Sudhir Ramanna, M.Sc. GE HealthCare Bangalore, India
29	*DL Based Denoising of Low SNR MR Images Using High Frequency Priors from High SNR MR Images*	Preetham Shankpal, Ph.D. GE Healthcare Bangalore, India
30	*Deep Learning Reconstruction with Multiband Diffusion Imaging at 0.5T*	Rajagopalan Sundaresan, M.Sc. GE HealthCare Bangalore, India
31	*DWI MUSE with Deep Learning Reconstruction at 0.5T*	Rajagopalan Sundaresan, M.Sc. GE HealthCare Bangalore, India
32	*Lessons from the FMRI Open QC Project: Improving & Sharing Data Assessment Tools*	Paul Taylor, Ph.D. National Institute of Mental Health Bethesda, MD, USA

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