

37TH INTERNATIONAL MEETING



Society for MR Angiography

2025

*MRA Innovations Flowing
Through Time*



Budapest, Hungary

AUGUST 21-24, 2025

SMRA 2025 Scientific Chair:
Judit Csőre

SMRA President:
Jeremy Collins



SEMMELWEIS
UNIVERSITY 1769

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PROGRAM AT A GLANCE

1

Thursday, August 21

Registration 8:00 – 9:00

Opening Plenary: MRA in Clinical Practice Today: Where We Stand 9:00 – 10:30

Moderators: **Csaba Csobay-Novák** (Semmelweis University, Hungary) and **Philippe Douek** (Université Claude Bernard Lyon, France)

Coffee Break: 10:30 – 10:50

Scientific Session I: Evolving Techniques in Contrast Enhanced and Non-Contrast MRA
10:50 – 12:35

Moderators: **Akos Varga-Szemes** (Medical University of South Carolina, USA) and **Jeffrey Maki** (University of Colorado Anschutz Medical Campus, USA) | **Paul Finn** (University of California, Los Angeles, USA) and **Ioannis Koktzoglou** (Endeavor Health, USA)

Lunch: 12:35 – 14:00

Scientific Session II: Cardiac and Quantitative Imaging 14:00 – 15:45

Moderators: **Debiao Li** (Cedars-Sinai Medical Center, USA) and **Dana Peters** (Yale School of Medicine, USA) | **Attila Tóth** (Semmelweis University, Hungary) and **Aleksandra Radjenovic** (University of Glasgow, Scotland)

Coffee Break: 15:45 – 16:15

Scientific Session III: Advances in Vessel Wall Imaging 16:15 – 18:00

Moderators: **J. Scott McNally** (University of Utah, USA) and **Bing Tian** (Changhai Hospital of Shanghai, China) | **Chun Yuan** (University of Utah, USA) and **Eline Kooi** (Cardiovascular Research Institute Maastricht, The Netherlands)

Welcome Reception 18:00 – 21:00

Basic Medical Science Center



PROGRAM AT A GLANCE

2

Friday, August 22

Plenary Session II: Envisioning the Future of Cardiac MRI (Joint Session with SCMR)

9:00 – 10:30

Moderators: **René Botnar** (Pontificia Universidad Católica de Chile, Chile) and **James Carr** (Northwestern University, USA)

Coffee Break: 10:30 – 10:50 AM

Scientific Session IV: Coronary MRA and Plaque Imaging **10:50 – 12:35**

Moderators: **Yibin Xie** (Cedars Sinai Medical Center, USA) and **Anthony Christodoulou** (University of California, Los Angeles, USA) | **Ruud B. van Heeswijk** (Lausanne University Hospital (CHUV), Switzerland) and **Matthias Stuber** (CIBM/CHUV/UNIL, Switzerland)

Lunch: 12:35 – 14:00

Scientific Session V: Flow, Modeling, and Processing **14:00 – 15:45**

Moderators: **Pim van Ooij** (Amsterdam UMC, The Netherlands) and **Patrick Winter** (University of Greifswald, Germany) | **Ethan Johnson** (Northwestern University, USA) and **Hildo Lamb** (University of Leiden, The Netherlands)

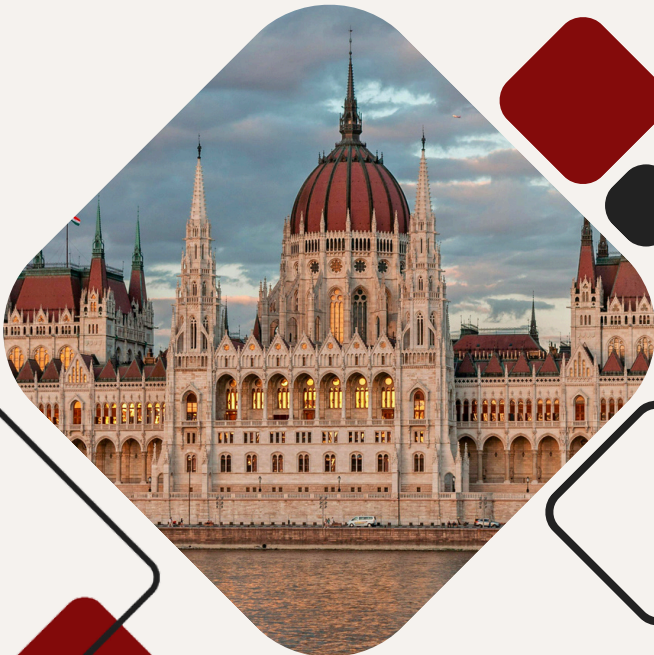
Coffee Break: 15:45 – 16:15

Scientific Session VI: Abdominal, Thoracic, and Peripheral MRA **16:15 – 18:00**

Moderators: **Manuela Aschauer** (Medical University of Graz, Austria) and **Ferenc Imre Suhai** (Semmelweis University, Hungary) | **Stephen Riederer** (Mayo Clinic, USA) and **Trisha Roy** (Houston Methodist Hospital, USA)

Evening Event: Cruise Networking Dinner on the Danube **18:45 – 22:00**

Tickets must be purchased in advance



PROGRAM AT A GLANCE

3

Saturday, August 23

Plenary Session III: ECC – Early Career Development

9:00 – 10:30

Moderators: **Tarun Naren** (University of Wisconsin-Madison, USA) and **Emőke Csernus** (Semmelweis University, Hungary) | **Pauline Gut** (University of Lausanne, Switzerland) and **Ahmed Safwat** (University of Washington, USA)

Coffee Break: 10:30 – 10:50 (and ECC Mentoring Sessions)

Scientific Session VII: Head and Neck MRA

10:50 – 12:35

Moderators: **Chengcheng Zhu** (University of Washington, USA) and **David Saloner** (University of California, San Francisco, USA) | **Mahmud Mossa-Basha** (University of Washington, USA) and **Rui Li** (Tsinghua University, China)

Lunch: 12:35 – 14:00

Plenary Session IV: MRA & Beyond: Interdisciplinary Perspectives and Innovations and

MRA/SMRA Quiz

14:00 – 15:45

Moderators: **Hideki Ota** (Mie University, Japan) and **Oliver Wieben** (University of Wisconsin-Madison, USA)

Coffee Break: 15:45 – 16:15

Scientific Session VIII: New Technologies and AI in MRA

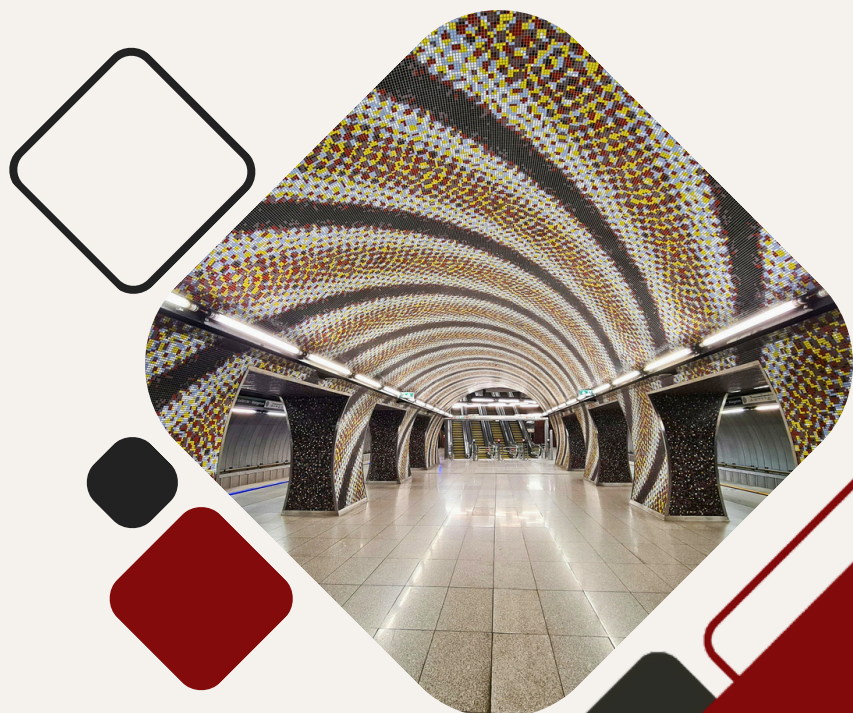
16:15 – 18:00

Moderators: **Jeremy Collins** (Mayo Clinic, USA) and **Susanne Schnell** (University of Greifswald, Germany) | **Hua Guo** (Tsinghua University, China) and **Graham Wright** (Sunnybrook Research Institute, Canada)

Evening Event: Networking Dinner at Millennium Café

19:00 – 21:00

Tickets must be purchased in advance



PROGRAM AT A GLANCE

4

Sunday, August 24

Plenary Session V: Interventional MRI 9:00 – 10:30

Moderators: **Charles Dumoulin** (Cincinnati Children's Hospital Medical Center, USA) and **Robert Edelman** (NorthShore University Health System, USA)

Coffee Break: 10:30 – 10:50

Closing Plenary and Sadamoto Lecture: MRA—Future Directions 10:50 – 12:30

Moderators: **Mitsue Miyazaki** (University of California – San Diego) and **Judit Csőre** (Semmelweis University, Hungary)

Award Presentations & Announcement of 2026 Meeting

- Award presentations & Summary of SMRA 2025: **Jeremy Collins** (Mayo Clinic, USA), **Judit Csőre** (Semmelweis University, Hungary), and **Oliver Wieben** (University of Wisconsin-Madison, USA)
- Presentation of SMRA 2026 and Closing Remarks: **Jeremy Collins** (Mayo Clinic, USA), **Aleksandra Radjenovic** (University of Glasgow, Scotland), and **Huijun Chen** (Tsinghua University, China)

Optional Post-conference Activity: Lázár Equestrian Park, Domonylvölgy 12:30 – 18:00

Tickets must be purchased in advance



Semmelweis University

Semmelweis University, established in 1769, is Hungary's oldest medical institution and a leading center for medical and health sciences education in Central Europe. Situated in Budapest, the university integrates education, research, and healthcare, offering programs in Hungarian, English, and German. With nearly 16,000 students from over 100 countries, it fosters a diverse and international academic community. The university comprises six faculties, including Medicine, Dentistry, Pharmaceutical Sciences, Health Sciences, Health and Public Administration, and the András Pető Faculty. As Hungary's largest healthcare provider, Semmelweis University combines clinical practice with cutting-edge research. Its commitment to excellence is reflected in its consistent ranking among the world's top universities.

Address: H – 1085 Budapest, Üllői út 26.

Phone: +36-1-459-1500

Website: <https://semmelweis.hu/english>



Basic Medical Science Center (Semmelweis University)

The Basic Medical Science Center (Elméleti Orvostudományi Központ, EOK) of Semmelweis University is a modern building with unique architecture, designed to support learning and research. The building has won multiple architecture awards, including the Pro Architectura Award and the Construction Excellence Award. It features large and small lecture rooms, a library, administrative offices, and research spaces, seamlessly blending education and science. Its spacious lecture halls, glass walls, and open areas create a bright and welcoming atmosphere. Located in the heart of Budapest, EOK is easily accessible and well-connected to the city.

Address: H-1094 Budapest, Tűzoltó street 37-47

Phone: +36-1-459-1500, ext. 60000

Website: <https://semmelweis.hu/eok/en>

Getting there with public transport:

- **Metro:** Take Metro Line 3 (blue line) to Semmelweis Klinikák station; EOK is a 3-minute walk from there
- **Tram:** Tram 4 and 6 stops nearby at Corvin Negyed station
- **Bus:** Several bus lines, including 9, have stops within walking distance



Welcome to SMRA 2025 from the Program Chair

Dear Friends, Colleagues, and Members of the SMRA Community,

It is a true pleasure to welcome you to the 37th Annual Meeting of the Society for Magnetic Resonance in Angiography, held for the very first time in Central Europe - in the heart of Budapest, at Semmelweis University.

This year marks a meaningful milestone for our society. Hosting SMRA in this region reflects how far we've come and how widely our community continues to grow. Semmelweis University, a leader in cardiovascular science, is proud to provide a home for this important gathering, and we're excited to open our doors to colleagues from around the world.

The 2025 meeting is guided by the motto "MRA Innovations Flowing Through Time," a tribute to the ongoing evolution of MR angiography - from its history and foundational breakthroughs to the cutting-edge technologies and challenges shaping its future. This year's program brings together the latest scientific advances, emerging voices, and bold discussions around key themes including technical developments, AI, accessibility, interdisciplinary science, and career development.

We are especially honored to welcome Nobel Laureate Ferenc Krausz as the Martin Prince Lecturer, and look forward to the Sadamoto Lecture and contributions from renowned experts across clinical and research domains. With over 40 plenary talks and almost 100 abstract presentations, the meeting offers something for everyone - from technical innovation to translational impact.

Our early-career sessions, educational lectures, and fireside chats are designed to support the next generation of leaders in vascular imaging. Whether you are presenting your first abstract or attending your first SMRA, we are especially glad you are here. Your energy, curiosity, and fresh perspectives are vital to our community, and we hope this experience will be inspiring, rewarding, and full of opportunity.

Outside the lecture halls, Budapest awaits. Set along the Danube and glowing with late-summer light, the city offers a perfect setting to learn, reflect, and connect. If you arrive early, you'll experience the atmosphere of Hungary's national State Foundation holiday on August 20th, with fireworks and celebrations that light up the sky. Our optional evening networking events will showcase the rich cultural, historical, and culinary traditions of Hungary - and post-conference activities will invite you to explore even more of what this beautiful country has to offer.

WELCOME LETTERS

With the local organizing team, we are deeply thankful to the SMRA Board and the 2025 Program Committee and our colleagues at Semmelweis University, and we are grateful for Professor Béla Merkely, Rector of the Semmelweis University, whose support made this meeting possible. We also want to extend sincere gratitude to our corporate sponsors and industry partners. Your continued support and presence are vital - not only to this meeting's success, but to the advancement of the field at large.

On behalf of the entire organizing team, I warmly welcome you to Budapest. I hope you leave SMRA 2025 with new knowledge, new connections, and renewed inspiration for the work we all care so deeply about.

With warm regards,

Judit Csőre
Semmelweis University
Budapest, Hungary



Welcome to SMRA 2025 – from our President



It is my great pleasure to welcome you to the 37th Annual meeting of the Society for Magnetic Resonance Angiography! This is the first year that the meeting has been hosted in Budapest, Hungary and the farthest east it has been in Europe.

The last year was another successful period in the SMRA's history. Last year's meeting in Santiago, Chile was particularly noteworthy as it was the 1st meeting of the society held in Latin America. In addition, Santiago was the 2nd southernmost location the meeting has been held. The Santiago, Chile meeting once again drew a high global attendance including scientists, clinicians, and industry sponsors and trainees. As is typical of SMRA meetings, there were a large number of trainees attending from around the world presenting their research, participating in multiple networking

dinners, as well as the mentorship reception. Over the last year the Education Committee under the leadership of Dr. Mahmud Mossa-Basha hosted 2 webinars and continued contributions to SMRA position and white papers in MR angiography. The Early Career Committee (ECC) under the leadership of Calder Sheagren and Tarun Naren harness the enthusiasm of our early career members reminding me that the future of our society and specialty are in good hands. The ECC organized sessions at last year's meeting, organized a webinar, and was instrumental in establishing the Junior fellowship awards in 2024 which were continued in 2025. Additionally, over the last year the SMRA worked closely with the SCMR to finalize details to make the Journal of Cardiovascular Magnetic Resonance the official journal of the SMRA, jointly with the SCMR. Finally I would like to thank the SCMR admin team – Janette, Johanne, Anna, and Jessica for their tireless work in support of the society over the last year. The SMRA admin team has indicated their intention to move into retirement over the next two years, shifting responsibility of running the meeting to DEKON, a close partner running The Medical Image Computing and Computer Assisted Intervention Society (MICCAI). The Board is reviewing a final proposal at this years' annual meeting to finalize an administrative team a transition plan through 2027. The board is also thrilled to announce that the SMRA has finalized locations for the 38th and 39th annual meetings!

I would like to express my sincerest thanks and deepest gratitude to Dr. Judit Csőre for her continuous hard work bringing the meeting to Budapest, Hungary. Planning for this year's meeting was condensed given that

the 2025 meeting was held in November. I joined Judit and the admin team for a site visit in March 2025; it was clear that we were going to be in good hands! Judit as pulled together an excellent meeting, welcoming colleagues from Semmelweis University and nearby countries in Europe in addition to SMRA attendees from around the globe. In addition to the excellent scientific sessions, I am looking forward to the evening networking dinners and post-conference cultural experience at the Lazar Equestrian Center! Congratulations to Judit and the organizing committee for putting together an excellent scientific program.

The SMRA holds a special place in my heart as my first oral presentation was given at the meeting held in 2001 in Madison, Wisconsin. My experience at that meeting was unique as a trainee – I had the opportunity to meet and interact with many world-renown clinicians and scientists, both at the sessions and, informally during the networking dinners. The interactions with sponsors, some of whom I knew through collaborations at Northwestern University solidified a sense of teamwork advancing MR angiography across disciplines. This sense of community and openness is what makes our society and our annual meeting unique. To this day the vibrant energy of our attendees – recognized leaders, established and early career scientists and clinicians, trainees as well as industry partners – creates an inspiring atmosphere. Our community is united by a shared commitment to educate and advance the field of MR angiography.

This year's meeting will again follow a single-track format, starting on Thursday morning and concluding mid-day on Sunday. Enjoy the celebrations around Budapest for their national St. Stephen's Day celebrations concluding with fireworks over the Danube River on Wednesday night. I encourage you to interact with sponsors as well as attendees at the breaks. New this year is a visit all of the sponsor challenges to be entered into a drawing for a new watch (smart or traditional). In addition to our research and innovation partners, our sponsors are essential to the financial success of our annual meeting. Please visit with our sponsors and good luck with the watch challenge – I know which of the three I would choose as an Apple iPhone user!

I encourage you to both connect with friends and meet new people attending the meeting. Please find me if you would like to get more involved with the SMRA, including committee membership, rotating positions on the board in 2026, and the Insight Forum (former Advisory Committee).

Introduction of our Incoming President – Aleksandra (Sasha) Radjenovic

I am pleased to introduce our incoming President, Sasha Radjenovic, from the University of Glasgow, UK. Sasha has been a dedicated member of the society for many years. She was instrumental in organizing the Annual meeting held in Glasgow, Scotland in 2018. Most recently Sasha served as the Secretary on the SMRA Executive Board.

A few words from Sasha: It is a great pleasure and an honour to welcome you to Budapest for the 37th Annual Meeting of the SMRA. I would like to express my deep appreciation to our colleague, Judit Csőre, and her dedicated team for preparing such an exceptional programme of lectures and discussions.



I hope that here, on the banks of the majestic River Danube, in the historic city of Budapest, we will take meaningful steps towards our society's overarching aim: to forge and strengthen connections across the many disciplines of science and technology, and to discover new solutions that can help reduce the global burden of cardiovascular disease.

Magnetic Resonance Angiography is far more than a specialised branch of MRI. Over the past four decades, it has occupied a central position in the field, inspiring a wealth of creative ideas and innovative solutions that have enriched all aspects of MRI, extending well beyond the realm of angiography.

In my new role, I am committed to working with you to ensure that the SMRA continues to thrive, while fostering and supporting the next generation of talent from across the world. I am grateful to Huijun Chen, Jim Meaney and our support team for preparing excellent bids for hosting our 38th and 39th annual meetings, and I am delighted to announce that we will meet again in Xi'an, China in 2026, and in Dublin, Ireland in 2027.

I look forward to meeting you all there - to share knowledge, strengthen collaborations, and advance our field together.

Warm regards,

Jeremy Collins, President, SMRA

Sasha Radjenovic, Incoming President

The Society for Magnetic Resonance Angiography (SMRA) was founded in 1989 as the MR Angio Club to bring together scientists, clinicians and industry with a common interest in MR Angiography (MRA). The MR Angio Club formally Incorporated as the nonprofit Society for Magnetic Resonance Angiography (SMRA) in 2015. The society's annual conference is widely recognized as the sole international conference exclusively devoted to MR angiography. Each year, prominent researchers and clinicians come from all over the world to attend this event, present their most up to date research results, exchange ideas, and educate each other and trainees in a diverse and inclusive environment to further develop MRA technology and translate it into clinical practice. MR-related vendors also showcase their state-of-the-art products, technical advances, and clinical applications in an engaging environment intended to foster new connections and collaborations.

Executive Committee

President	Jeremy Collins , MD (Mayo Clinic, USA)
President Elect	Aleksandra Radjenovic , PhD (University of Glasgow, Scotland)
Past President	Oliver Wieben , PhD (University of Wisconsin – Madison, USA)
Past Past President	Xihai Zhao , MD, PhD (Tsinghua University, China)
Secretary	Susanne Schnell , PhD (University of Greifswald, Germany)
Treasurer	Anthony Christodoulou , PhD (University of California – Los Angeles, USA)
Members	Hideki Ota , MD, PhD (Tohoku University Hospital, Japan) Claudia Prieto , PhD (Pontificia Universidad Católica de Chile, Chile)

Early Career Committee (ECC)

Chair	Tarun Naren , PhD Candidate (University of Wisconsin – Madison, USA)
Past Chair	Calder Sheagren , PhD (University of Michigan, USA)
Faculty Advisors	Susanne Schnell , PhD (University of Greifswald, Germany) Xihai Zhao , MD, PhD (Tsinghua University, China) Mahmud Mossa-Basha , MD (University of Washington, USA)
Committee Liaisons	<i>Social Media:</i> Rigel Xiang , PhD Candidate (Yale University, USA)

Members

Nicolás Garrido, PhD (Pontificia Universidad Católica de Chile, Chile)
Carlos Castillo Passi, PhD (Pontificia Universidad Católica de Chile, Chile
& King's College London, UK)
Diego Pedraza, PhD Candidate (Pontificia Universidad Católica de Chile, Chile)
Moujan Saderi, PhD Candidate (NYU Langone Health, USA)
Beibei Sun, PhD Candidate (University of Washington, USA)
Ahmed Safwat, MD (Neuroesptalia, Egypt)
Dan Cheng (University of Washington, USA)
Emőke Csernus, MD (Semmelweis University, Hungary)
Haoran Li, PhD Candidate (Cedars-Sinai Medical Center, USA)
Judit Csőre, MD, PhD (Semmelweis University, Hungary)
Javid Azadbakht, MD (University of Washington, USA)
Jianing Tang, PhD Candidate (Northwestern University, USA)
Justin Baraboo, PhD Candidate (Northwestern University, USA)
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Mingyue Zhao (Northwestern University, USA)
Mo Dawood, MD (University of Washington, USA)
Patrick Winter, PhD (University of Greifswald, Germany)
Pauline Gut, PhD Candidate (University of Lausanne, Switzerland)
Xi Chen, PhD (University of California – Los Angeles, USA)

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Chair

Mahmud Mossa-Basha, MD (University of Washington, USA)

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Chengcheng Zhu, PhD (University of Washington, USA)
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Susanne Schnell, PhD (University of Greifswald, Germany)
Calder Sheagren, PhD (University of Michigan, USA)
Xihai Zhao, MD, PhD (Tsinghua University, China)

SMRA 2025 Committee

Scientific Chair

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Ferenc Suhai, MD, PhD (Semmelweis University, Hungary)

György Balázs, MD (Semmelweis University, Hungary)

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Pauline Gut, PhD Candidate (University Hospital (CHUV) & University of Lausanne (UNIL), Switzerland)

René Botnar, PhD (Pontificia Universidad Católica de Chile, Chile & King's College London, UK)

Susanne Schnell, PhD (University of Greifswald, Germany)

Tarun Naren, PhD Candidate (University of Wisconsin-Madison, USA)

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Xihai Zhao, MD, PhD (Tsinghua University, China)

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Dániel Csokonai, Head of IT Department (Basic Medical Science Center, Semmelweis University, Hungary)

Technical Background (Registration & Payments)

DEKON Group, Congress & Tourism

Mehmet Eldegez, CEO

Basak Erel, Senior Registration and Accommodation Executive



Volunteers

Míra Gergely

Orsolya Váradi

Fruzsina Simon

Kristóf Birgés

Odett Fodor

Péter Osztrogonác

The scientific program was made possible with the help of our team of abstract reviewers and their rigorous selection.

Aleksandra Radjenovic, University of Glasgow, Scotland

Binbin Sui, Beijing Tiantan Hospital, China

Calder Sheagren, University of Toronto, Canada

Carlos Castillo Passi, Pontificia Universidad Católica de Chile, Chile

Catherine Ludman, National Health Service, UK

Chengcheng Zhu, University of Washington, USA

Chun Yuan, University of Utah, USA

Claudia Prieto, Pontificia Universidad Católica de Chile, Chile

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Huiyu Qiao, Tsinghua University, China

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Jie Xiang, Yale University, USA

Jing Liu, University of California, USA

Judit Csőre, Semmelweis University, Hungary

Justin Baraboo, Northwestern University, USA

Kim Lien Nguyen, University of California – Los Angeles, USA



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Lexiaozi Fan, Northwestern University, USA
Liliana Szabo, Semmelweis University, USA
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Xiaodong Ma, University of Utah, USA
Xinyi Leng, The Chinese University of Hong Kong, China
Ye Qiao, Johns Hopkins University
Yibin Xie, Cedars Sinai Medical Center, USA
Zhaoyang Fan, University of Southern California, USA
Zhehao Hu, University of California, USA



Thursday, August 21

Opening Plenary: MRA in Clinical Practice Today: Where We Stand

Time: 9:00 – 10:30

Moderators: *Csaba Csobay-Novák* (Semmelweis University, Hungary) and *Philippe Douek* (Université Claude Bernard Lyon, France)

Time	Topic
9:00 – 9:15	Opening Remarks: Judit Csőre (Semmelweis University, Hungary), Béla Merkely (Rector of Semmelweis University, Hungary), and Jeremy Collins (Mayo Clinic, USA)
9:15 – 9:30	<u>Martin Prince Lecture:</u> Speeding Up Magnetic Resonance Spectroscopy: Infrared Fingerprinting for Probing Human Health: Ferenc Krausz (Max Planck Institute of Quantum Optics, Ludwig Maximilian University of Munich, Germany; Center for Molecular Fingerprinting (CMF), Hungary)
9:30 – 9:45	The Evolution of Angiography: Photon-Counting CT and MRA Compared — Future of Cardiac Imaging: Pál Maurovich-Horvat (Semmelweis University, Hungary)
9:45 – 10:00	Quo Vadis MRA? A portrait of Magnetic Resonance Angiography in 2050: Aleksandra Radjenovic (University of Glasgow, Scotland)
10:00 – 10:15	<i>Industry Talk:</i> A Brief History of CE-MRA: Reviewing Key Publications to Inform Future Directions: Giles Roditi (Bayer, NHS Greater Glasgow & Clyde)
10:15 – 10:30	Discussion

10:30 – 10:50 **Coffee Break**

Scientific Session I: Evolving Techniques in Contrast Enhanced and Non-Contrast MRA

Time: 10:50 – 12:35

Moderators: *Akos Varga-Szemes* (Medical University of South Carolina, USA) and *Jeffrey Maki* (University of Colorado Anschutz Medical Campus, USA)

Time	Topic
10:51 – 11:04	Lighting Up the Vessels: Advantages and Challenges in CE-MRA: David Saloner (University of California – San Francisco, USA)
11:05 – 11:18	Vessels Unveiled: Imaging Without a Drop of Contrast: Robert Edelman (NorthShore University Health System, USA)
11:19 – 11:32	Theranostic Applications of Iron-Oxide Nanoparticles in Vascular Disease: Yasemin Tanyildizi (EUC School of Medicine, Frankfurt Branch, Germany)

SCIENTIFIC PROGRAM

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Thursday, August 21 (Continued)

11:33 – 12:35

Proffered Abstracts: **Scientific Presentations I**

Moderators: *Paul Finn* (University of California – Los Angeles, USA) and *Ioannis Koktzoglou* (Endeavor Health, USA)

Orals

1. Free-breathing 3D high-resolution simultaneous grey-blood late gadolinium enhancement and MR angiography at 3T: **Dongyue Si** (King's College London, UK)
2. Dynamic Ferumoxytol-enhanced Imaging with 3D Whole-Ventricle Coverage using MR Multitasking: **Xi Chen** (David Geffen School of Medicine at UCLA, USA)
3. Saturated multi-delay renal arterial spin labeling technique at 5T ultrahigh-field MR: A comparative study with 3T MR: **Xinyu Tong** (School of Biomedical Engineering, Tsinghua University, China)
4. Deep learning accelerated reconstruction of radial whole-heart Ferumoxytol-enhanced free-running ultra-short echo time cardiac MRI: **Kevin Borsos** (Lausanne University Hospital, Switzerland)

Power Pitches

1. Application of a Tailored Bolus Injection to 3D CE-MRA of the Carotid Arteries; a Crossover Study: **Jeffrey Maki** (University of Colorado Anschutz Medical Campus, USA)
2. Hibernating vessels: Non contrast magnetic resonance angiography outperforms DSA in detecting below-the-knee arteries in CLTI: **Enikő Pomozi** (Houston Methodist Research Institute, USA)
3. Perfusion Quantification in Human Feet with Multi-PLD Time-SLIP MR Imaging: **Vadim Malis** (UC San Diego, USA)
4. Comparison of Vessel Length among T1-Mapping GOAL-SNAP MRA, SNAP MRA and TOF MRA: **Haokun Li** (Center for Biomedical Imaging Research, Tsinghua University, China)
5. Gadoquatane at a 60% reduced gadolinium dose for MR-Angiography of intracranial vessels: **Giles Roditi** (NHS Greater Glasgow & Clyde, UK)
6. MRI-histology identifies impenetrable plaques not seen in conventional imaging: an amputated limb model and protocol to cross impenetrable lesions: **Enikő Pomozi** (Houston Methodist Research Institute, USA)

12:35 – 14:00 **Lunch**

Scientific Session II: Cardiac and Quantitative Imaging

Time: 14:00 – 15:45

Moderators: *Debiao Li* (Cedars-Sinai Medical Center, USA) and *Dana Peters* (Yale School of Medicine, USA)

Time	Topic
14:01 – 14:14	Advances in Sportcardiology: Hajnalka Vágó (Semmelweis University, Hungary)
14:15 – 14:28	Examples of added clinical value of Cardiac and Quantitative Imaging in Congenital Heart Disease: Pim van Ooij (Amsterdam UMC, The Netherlands)
14:29 – 14:42	Advances in Cardiovascular and Quantitative MRI: Paving the Road to Clinical Translation: Anthony Christodoulou (University of California – Los Angeles, USA)

SCIENTIFIC PROGRAM

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Thursday, August 21 (Continued)

14:43 – 15:44

Proffered Abstracts: **Scientific Presentations II**

Moderators: *Attila Tóth* (Semmelweis University, Hungary) and *Aleksandra Radjenovic* (University of Glasgow, Scotland)

Orals

1. Generative MR Multitasking: Method and application to non-ECG, free-breathing, simultaneous multislice (SMS) cardiovascular T1-T2 mapping: **Xinguo Fang** (David Geffen School Of Medicine, USA)
2. Free-breathing, ECG-free, IR-prepped Golden Angle Radial Imaging Technique for Myocardial T1 Mapping: **Orhan Unal** (University of Wisconsin – Madison, USA)
3. Clinical Evaluation of a 3D Ultrafast Single Breath-Hold Sequence for Cardiac Functional Assessment at 1.5T: **Abdulhamid Haj Khalil** (CREATIS, University Claude Bernard Lyon, France)
4. Quantitative Myocardial Perfusion Using In-Line Cardiac MRI: Feasibility, Clinical Insights, and Comparison to PET Imaging: **Maya Gabbour** (Mayo Clinic, USA)
5. Wideband joint myocardial bright- and black-blood imaging for patients with implantable cardiac devices at 1.5T: **Pauline Gut** (University of Lausanne, Switzerland)

Power Pitches

1. In-vivo contrast enhanced T1 mapping for quantitative evaluation of intracranial atherosclerotic plaques: **Xiaoqi Lin** (Tsinghua University, China)
2. Cardiac T1/T1p Multitasking: Initial Evaluation in Porcine Myocardial Infarction Model: **Haoran Li** (Cedars-Sinai Department of Biomedical Sciences, Biomedical Imaging Research Institute, USA)
3. Myocardial oxygenation is compromised only in severe fibrotic regions in patients with ischemic heart failure: **Jie Zheng** (Washington University in St. Louis, USA)
4. Multi-echo Propeller Sampling for T1-T2-T2*-FF Cardiac MR Multitasking: **Lingceng Ma** (University of California – Los Angeles, USA)
5. High accuracy cardiac MR images acquired with autonavigator software in patients with implantable cardiac devices: **Hadas Shiran** (Palo Alto Medical Foundation, USA)
6. RV diastolic function evaluated by CMR-derived metrics: **Dana Peters** (Yale University, USA)
7. A free-breathing CEST MRI Sequence for Myocardial Metabolic assessment: **Rui Guo** (Tsinghua University, China)

15:45 – 16:15

Coffee Break

Scientific Session III: Advances in Vessel Wall Imaging

Time: 16:15 – 18:00

Moderators: *J. Scott McNally* (University of Utah, USA) and *Bing Tian* (Changhai Hospital of Shanghai, China)

Time	Topic
16:16 – 16:29	Joint Carotid and Intracranial Artery vessel Wall Imaging: Techniques and Application: Xihai Zhao (Tsinghua University, China)
16:30 – 16:43	Comprehensive Vessel Wall Imaging in Clinical Stroke Assessment: Mahmud Mossa-Basha (University of Washington, USA)
16:44 – 16:57	Quantitative MR Vessel Wall Imaging: Huijun Chen (Tsinghua University, China)

SCIENTIFIC PROGRAM

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Thursday, August 21 (Continued)

16:58 – 17:59

Proffered Abstracts: **Scientific Presentations III**

Moderators: *Chun Yuan* (University of Utah, USA) and *Eline Kooi* (Cardiovascular Research Institute Maastricht, The Netherlands)

Orals

1. Simultaneous magnetic resonance imaging technique of carotid artery perivascular adipose tissue and vessel wall: A feasibility and repeatability study: **Shuwan Yu** (Tsinghua University, China)
2. Aspirin Use is Associated with Reduced Aneurysm Wall Enhancement in Intracranial Saccular Aneurysms: a Large-scale Multi-center Study: **Chengcheng Zhu** (University of Washington, USA)
3. A 3D steady-state CEST sequence for non-invasive measurement of cerebral blood components at 3T: **Chuyu Liu** (Center for Biomedical Imaging Research, Tsinghua University, China)
4. Reduced perivascular cerebrospinal fluid pulsation in patients with ischemic stroke: **Qiuting Wen** (Indiana University, School of Medicine, USA)
5. Motion-Robust Quantitative Multi-contrast Atherosclerosis Characterization: **Meng Lu** (Cedars-Sinai Medical Center, USA)

Power Pitches

1. Carotid MRA using Centric ky-kz 3D FFE and Black Blood Imaging with T2 Prep before BB pulses: **Vadim Malis** (UC San Diego, USA)
2. High-resolution 3D carotid vessel wall MRI without a custom-designed coil using deep-learning denoising: **Xiangjian Hou** (University of Utah, USA)
3. Simultaneous High-Spatial-Resolution Quantitative Brain T1 Mapping and MR Angiography Using 3D Golden-Angle Radial k-Space Sampling in 5T: **Haozhong Sun** (Center for Biomedical Imaging Research, Tsinghua University, China)
4. Application of Mask-guided Hybrid Decoupled Fourier Block in Carotid Artery Wall Segmentation: **Haoding Meng** (Tsinghua University, China)
5. Surface Coil-Informed Deep Learning Denoiser for Carotid Vessel Wall Imaging: **Lisha Zeng** (UCLA|BIRI Cedars-Sinai Medical Center, USA)
6. Evaluation of AI-assisted Compressed Sensing in intra- and extra-cranial MR vessel wall imaging: **Ran Huo** (Peking University Third Hospital, China)
7. A Carotid Artery ROI Localization Pipeline in Head and Neck MRI Based on Slice Classification and Iterative Non-Maximum Suppression: **Haoding Meng** (Tsinghua University, China)

18:00 – 20:00

Welcome Reception, Basic Medical Science Center



Friday, August 22

Plenary Session II: Envisioning the Future of Cardiac MRI

Joint Session with SCMR

Time: 9:00 – 10:30

Moderators: *René Botnar* (Pontificia Universidad Católica de Chile, Chile) and *James Carr* (Northwestern University, USA)

Time	Topic
9:00 – 9:15	Harnessing the Potential of Low-Field Cardiac MRI: Key Technical Developments Needed: Matthias Stuber (CIBM/CHUV/UNIL, Switzerland)
9:15 – 9:30	Bridging Modalities: Unlocking the Combined Power of Cardiac MRI and CT: Jeremy Collins (Mayo Clinic, USA)
9:30 – 9:45	Contrast-Free CMR: Can We Reduce or Replace Contrast Agents in Cardiac MRI?: Vanessa Ferreira (University of Oxford, UK)
9:45 – 10:00	The clinical potential of fluorine-19 molecular MRI for the imaging of cardiovascular inflammation: Ruud B. van Heeswijk (Lausanne University Hospital (CHUV), Switzerland)
10:00 – 10:15	<i>Industry Talk:</i> Recent Innovations in MRA: A Regional Perspective on Global Progress: Máté Kiss , (Siemens Healthineers)
10:15 – 10:30	Discussion

10:30 – 10:50 **Coffee Break**

Scientific Session IV: Coronary MRA and Plaque Imaging

Time: 10:50 – 12:35

Moderators: *Yibin Xie* (Cedars Sinai Medical Center, USA) and *Anthony Christodoulou* (University of California, Los Angeles, USA)

Time	Topic
10:51 – 11:03	Coronary MRI in the Big Picture: Integrating MRA and Plaque Imaging into Comprehensive Cardiac Assessment: René Botnar (Pontificia Universidad Católica de Chile, Chile)
11:04 – 11:16	Metabolic MRI of the Heart: Debiao Li (Cedars-Sinai Medical Center, USA)
11:17 – 11:29	MRI of Endothelial Dysfunction: A Window into Early Vascular Disease: Allison Hays (Johns Hopkins University, USA)

SCIENTIFIC PROGRAM

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Friday, August 22 (Continued)

11:30 – 12:34

Proffered Abstracts: **Scientific Presentations IV**

Moderators: *Ruud B. van Heeswijk* (Lausanne University Hospital (CHUV), Switzerland) and *Hideki Ota* (Mie University, Japan)

Orals

1. A Nomogram Model for Predicting Subsequent Vascular Events in Patients with Acute Ischemic Cerebrovascular Disease Based on Plaque Characteristics: **Jiayuan Hu** (Beijing Hospital, China)
2. Spatial Feature Extraction of Calcification from MRI and Its Correlation with Fibrous Cap Rupture of Carotid Plaque: **Qinxin Wang** (Center for Biomedical Imaging Research, School of Biomedical Engineering, Tsinghua University, China)
3. 3D Whole Heart Coronary Angiography at Low-Field: A Clinical Feasibility Study: **Simon Littlewood** (King's College London, UK)
4. Risk Factors for Co-existing Extracranial Carotid and Intracranial Artery High-Risk Atherosclerotic Plaques: An MR Imaging Study: **Xiaoyi Chen** (Beijing Tsinghua Changgung Hospital, School of Clinical Medicine, Tsinghua University, China)

Power Pitches

1. Longitudinal Study of Intracranial Atherosclerosis and Stroke Risk in Brain Tumor Patients: Preliminary Results: **Beibei Sun** (University of Washington, USA)
2. Characterizing Dynamic Changes of Carotid Morphology in Patients with Carotid Atherosclerosis by Black-Blood MR Cine Imaging: **Huiyu Qiao** (Capital Medical University, China)
3. Association between the amount of carotid perivascular adipose tissue measured by MR imaging and carotid atherosclerotic plaque vulnerability: **Shuwan Yu** (Tsinghua University, China)
4. Free-breathing rapid T1 mapping for coronary blood supply quantification through dynamic response of contrast-enhanced whole-heart myocardium: **Bowei Liu** (Tsinghua University, China)
5. Exploring the Link: Atrial Fibrillation and Atherosclerotic Intraplaque Hemorrhage in the setting of Cerebral Acute Infarct: **Ahmed Safwat** (University of Washington, USA)
6. Advancing Endovascular PAD Treatment: Overcoming Critical Knowledge Gaps with MRI-Histology: an NIH funded study: **Trisha Roy** (Houston Methodist Hospital, USA)
7. Preoperative White Matter Lesions on Fazekas Scale Predict Postoperative Ischemia: The Role of MRI in Risk Stratification for Carotid Endarterectomy: **Mark Matus** (Heart and Vascular Center, Semmelweis University, Hungary)

12:35 – 14:00 **Lunch**

Scientific Session V: Flow, Modeling, and Processing

Time: 14:00 – 15:45

Moderators: *Pim van Ooij* (Amsterdam UMC, The Netherlands) and *Patrick Winter* (University of Greifswald, Germany)

Time	Topic
14:01 – 14:13	MRI Encoding and Decoding of Flow Across Scales: Sebastian Kozerke (ETH Zurich & University Zurich, Switzerland)
14:14 – 14:26	4D flow MRI post-processing and automation: Susanne Schnell (University of Greifswald, Germany)
14:27 – 14:39	Go with the Flow: The Clinical Power of Flow Imaging: Thekla Oechtering (University of Wisconsin – Madison, USA)

Friday, August 22 (Continued)

14:40 – 15:44

Proffered Abstracts: **Scientific Presentations V**

Moderators: *Ethan Johnson* (Northwestern University, USA) and *Hildo Lamb* (University of Leiden, The Netherlands)

Orals

1. 4D flow using bSSFP at 3T for improved diastolic function evaluation: **Jie Xiang** (Yale University, USA)
2. Improved 5D flow MRI with 3D RING gradient delay correction: **Thara Nallamothu** (Northwestern University, USA)
3. A comparison between MRI based pulmonary flow measurement: 2D phase-contrast, 4D flow and lung perfusion with matrix pencil decomposition: **Stefan Gherca** (University Hospital Basel, Switzerland)
4. High-Temporal-Resolution Pulse-Gated Single-Venc vs. ECG-Gated Dual-Venc 4D Flow MRI for Intracranial Hemodynamic Assessment: **Anahita Najafi** (Northwestern University, USA)
5. Quantitative evaluation of temperature-induced vessel changes using 3D PC MRA: A 5T MRI study: **Jiachen Liu** (Tsinghua University, China)

Power Pitches

1. Hemodynamics Assessment of lenticulostriate arteries in patient with patent foramen ovale using 7T high-resolution 2D PC imaging: **Binbin Sui** (Beijing Hospital, China)
2. Interaction of aortic hemodynamics with myocardial and vascular remodeling in symptomatic and asymptomatic aortic stenosis examined by 4D Flow CMR: **Ralf Felix Trauzeddel** (Charité - Universitätsmedizin Berlin, Germany)
3. Foramen Ovale Shunt Visualization and Quantification using Particle Tracking and 4D Flow MRI in Normal Fetal Hearts: **Reagan Tompkins** (Amsterdam University Medical Center, The Netherlands)
4. Convolutional variations for computationally efficient training of spatiotemporal super-resolution 4D Flow MRI: **Jessica Schmidt** (Karolinska Institutet, Sweden)
5. Evaluating the Clinical Suitability of 4D Flow MRI in Paediatric Cardiac Imaging: Insights and Experiences: **Pauline Hall Barrientos** (NHS Greater Glasgow & Clyde, UK)
6. Assessment of Pulmonary Artery Pressure Gradients in Pulmonary Arterial Hypertension Patients Derived from MRI 4D Flow: **Pauline Hall Barrientos** (NHS Greater Glasgow & Clyde, UK)
7. Impact of Sequence Types and Field Strengths on 4D Flow CMR Measurements: A Multi-Center Study at 3T and 7T: **Ralf Felix Trauzeddel** (Charité – Universitätsmedizin Berlin, Germany)

15:45 – 16:15 **Coffee Break**

Scientific Session VI: Abdominal, Thoracic, and Peripheral MRA

Time: 16:15 – 18:00

Moderators: *Manuela Aschauer* (Medical University of Graz, Austria) and *Ferenc Imre Suhai* (Semmelweis University, Hungary)

Time	Topic
16:16 – 16:28	Ferumoxitol-enhanced MRI of the Placenta: Oliver Wieben (University of Wisconsin – Madison, USA)
16:29 – 16:41	Technical development of body and peripheral non-contrast MRA: Mitsue Miyazaki (University of California – San Diego, USA)
16:42 – 16:54	Abdominal: DWI-based micro-angiography and macro-angiography: Yixiang Wang (Chinese University of Hong Kong, Hong Kong SAR, China)

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Friday, August 22 (Continued)

16:55 – 17:59

Proffered Abstracts: **Scientific Presentations VI**

Moderators: *Stephen Riederer* (Mayo Clinic, USA) and *Trisha Roy* (Houston Methodist Hospital, USA)

Orals

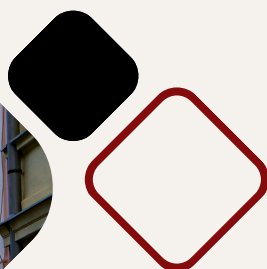
1. Highly Efficient, Free-Breathing Whole-Chest Equilibrium Phase bT1RESS MR Angiography: Initial Clinical Experience: **Robert Edelman** (NorthShore University Health System, USA)
2. Detecting abnormal aortic motion in Marfan syndrome: **Pim van Ooij** (Amsterdam UMC, The Netherlands)
3. Adverse Outcome Prediction in BAV Patients with Machine-Learned Hemodynamic Estimates from MRA or Full Velocity Measurements from 4D Flow MRI: **Ethan Johnson** (Northwestern University, USA)
4. Selective Hepatic artery and portal vein non-contrast Liver MR perfusion: **Yoshiki Kuwatsuru** (University of California – San Diego, USA)
5. Aortic Pulse Wave Velocity Measurements with a Simultaneous Multi-Slice Acquisition During Free Breathing and Valsalva: **Tarun Naren** (University of Wisconsin – Madison, USA)

Power Pitches

1. Aortic wall enhancement using ultrasmall superparamagnetic particles of iron oxide on magnetic resonance imaging and fluorine-18 sodium fluoride uptake: **Giles Roditi** (NHS Greater Glasgow & Clyde, UK)
2. Portal Vein Flow Measurements in Patients to Evaluate for Vascular Mesenteric Insufficiency: **Pauline Hall Barrientos** (NHS Greater Glasgow & Clyde, UK)
3. Cardiac MRI-Derived Pulmonary Arterial Stiffness Markers in Pre- and Post-Capillary Pulmonary Hypertension: A Comparison with Invasive Hemodynamics: **Dana Peters** (Yale University, USA)
4. Image quality of QISS MRI with different stent types - preliminary results: **Georgina Juhász** (Semmelweis University, Hungary)
5. HiPath – A Multimodal deep learning tool for vessel segmentation and precision PAD diagnosis: **Enikő Pomozi** (Houston Methodist Research Institute, USA)
6. Dynamic Glucose-Enhanced MRI of the Liver in a Mouse Model of Metabolic Associated Fatty Liver Disease at 3.0 T: **Yuling Yang** (Beijing Tsinghua Changgung Hospital, China)
7. Analysis of Follow-ups of Dissections with MRI/MRA: **Manuela Aschauer** (Medical University of Graz, Austria)

19:00 – 22:00

Optional Conference Networking Dinner, River Diva Cruise Dinner (Extra Cost)



Saturday, August 23

Plenary Session III: Early Career Development

Joint Session with Early Career Committee

Time: 9:00 – 10:30

Moderators: *Tarun Naren* (University of Wisconsin, USA) and *Emoke Csernus* (Semmelweis University, Hungary)

Time	Topic
9:00 – 9:05	Introduction to ECC and Junior Fellow Awards: Tarun Naren (University of Wisconsin, USA), Jeremy Collins (Mayo Clinic, USA)
9:05 – 9:15	Junior Fellow Clinical Award Talk 1: Thekla Oechtering (University of Wisconsin – Madison, USA)
9:15 – 9:25	Junior Fellow Clinical Award Talk 2: Lexiaozi Fan (Northwestern University, USA)
9:25 – 9:35	Q&A (Junior Fellows)
9:35 – 9:45	ECC Plenary Talk I: Leveraging an Outsider's Perspective: Kim-Lien Nguyen (University of California – Los Angeles, USA)
9:45 – 9:55	ECC Plenary Talk II: Inventing Contrast-Enhanced MRA: Lessons for early career success: Martin Prince (Weill Cornell Medicine and Columbia College of Physicians and Surgeons, USA)
9:55 – 10:00	Q&A (Plenary Speakers)
10:00 – 10:30	Fireside Chat Moderators: Pauline Gut (University of Lausanne, Switzerland) and Ahmed Safwat (University of Washington, USA) Panelists: Jagat Narula (University of Texas Health, Houston, USA), Hideki Ota (Mie University, Japan), and Dana Peters (Yale University, USA)

10:30 – 10:50 **Coffee Break & ECC Mentoring Sessions**

<u>Mentors:</u>	Aleksandra Radjenovic , PhD (University of Glasgow, Scotland) Anthony Christodoulou , PhD (University of California – Los Angeles, USA) Chun Yuan , PhD (University of Utah, USA) Dana Peters , PhD (Yale University, USA) Hideki Ota , MD, PhD (Tohoku University Hospital, Japan) Jagat Narula , MD, PhD (University of Texas Health, USA) James Carr , MD (Northwestern University, USA) Martin Prince , MD (Weill Cornell Medicine and Columbia University, USA) Mahmud Mossa-Basha , MD (University of Washington, USA) Mitsue Miyazaki , PhD (University of California – San Diego, USA) Oliver Wieben , PhD (University of Wisconsin – Madison, USA) René Botnar , PhD (Pontificia Universidad Católica de Chile, Chile) Trisha Roy , MD, PhD (Houston Methodist DeBakey Heart and Vascular Center, USA) Xihai Zhao , MD, PhD (Tsinghua University, China)
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SCIENTIFIC PROGRAM

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Saturday, August 23 (Continued)

Scientific Session VII: Head and Neck MRA

Time: 10:50 – 12:35

Moderators: *Chengcheng Zhu* (University of Washington, USA) and *David Saloner* (University of California – San Francisco, USA)

Time	Topic
10:51 – 11:04	USPIO-enhanced cerebrovascular imaging: Yulin Ge (NYU Langone Medical Center, USA)
11:05 – 11:18	Non-contrast Intracranial Dynamic MRA using ASL: Yuriko Suzuki (University of Oxford, UK)
11:19 – 11:32	Atherosclerotic Disease and Its Association with Future Stroke Events: Eline Kooi (Maastricht University Medical Center, The Netherlands)

11:33 – 12:34 Proffered Abstracts: **Scientific Presentations VII**

Moderators: *Mahmud Mossa-Basha* (University of Washington, USA) and *Rui Li* (Tsinghua University, China)

Orals

1. Imaging and Clinical Impact of Cerebral Vascular Tortuosity: From Large to Small Arteries: **Yulin Ge** (NYU Langone Medical Center, USA)
2. Quantitative Time-of-Flight MRA Improves Morphologic Agreement of the Intracranial Arteries with Respect to Dark-Blood Intracranial Vessel Wall MRI: **Ioannis Koktzoglou** (Endeavor Health, USA)
3. Correlation between characteristics of carotid vulnerable plaque and lacunar infarction: **Decheng Meng** (Peking University Third Hospital, China)
4. Utility of Vessel Wall Imaging in Clinical Practice at a Stroke Center: **Cristina Sanchez-Vizcaino** (University of Washington, USA)
5. Dynamic Velocity-Selective MRA (dynVSMRA): **Dan Zhu** (Kennedy Krieger Institute, USA)

Power Pitches

1. Comparison of DANTE Blood Suppressed and Conventional T1-Weighted Post-Contrast SPACE Intracranial Vessel Wall MRI in Moyamoya Vasculopathy Patients: **Mahmud Mossa-Basha** (University of Washington, USA)
2. Evaluation of the process of aneurysm embolization after the bioabsorbable coil: A comparative study of high-resolution vessel wall imaging and pathology: **Bing Tian** (Changhai Hospital of Shanghai, China)
3. Baseline Wall Permeability Derived from DCE-MRI Correlates with Growth of Non-Saccular Intracranial Aneurysms: **Yan Li** (Center for Biomedical Imaging Research, Tsinghua University, China)
4. Multiparametric MRI Biomarkers for Early Diagnosis of Cognitive Impairment in Cerebral Small Vessel Disease: **Dan Zhou** (Nanjing Medical University, China)
5. DANTE Module Optimization for 7T T1W SPACE with 0.5mm isotropic Resolution: **Xiangzhi Zhou** (Mayo Clinic Florida, USA)
6. Comparative Accuracy of BOOST MRA and CTA: A Novel Approach to Carotid Stenosis Assessment: **Ferenc Imre Suhai** (Semmelweis University, Heart and Vascular Centre, Hungary)
7. High resolution vessel wall imaging of intracranial arterial pathologies with multi-modal imaging correlation: **Yih Yian Sitoh** (National Neuroscience Institute, Singapore)

12:35 – 14:00 **Lunch**

SCIENTIFIC PROGRAM

Saturday, August 23 (Continued)

Plenary Session IV: MRA & Beyond: Interdisciplinary Perspectives and Innovations

Time: 14:00 – 15:45

Moderators: *Hideki Ota* (Mie University, Japan) and *Oliver Wieben* (University of Wisconsin – Madison, USA)

Time	Topic
14:00 – 14:15	What Lies Beneath: The Pathologic Foundations of Potential MRA Findings: Navneet Narula (University of Texas Health, Houston, USA)
14:15 – 14:30	MRA applications in vascular surgery: Trisha Roy (Houston Methodist DeBakey Heart and Vascular Center, USA)
14:30 – 14:45	Small Vessels, Big Insights: MRA in Pediatric Care: Vivek Muthurangu (Institute of Cardiovascular Science, University College London, UK)
14:45 – 15:00	<i>Industry Talk:</i> Free-breathing non-contrast isotropic cardiovascular 3D cine MRI: Hildo Lamb (Philips, University of Leiden, The Netherlands)
15:00 – 15:15	Discussion
15:15 – 15:45	MRA Flowing Through Time — Past, Present, and Future of MRA and SMRA Quiz: Local Organizing Team

15:45 – 16:15 **Coffee Break**

Scientific Session VIII: New Technologies and AI in MRA

Time: 16:15 – 18:00

Moderators: *Jeremy Collins* (Mayo Clinic, USA) and *Susanne Schnell* (University of Greifswald, Germany)

Time	Topic
16:16 – 16:29	Recent advancement in vessel wall imaging techniques: Chun Yuan (University of Utah, USA)
16:30 – 16:43	Super-resolution and AI in Cardiovascular MRI: David Marlevi (Karolinska Institutet, Sweden & Massachusetts Institute of Technology, USA)
16:44 – 16:57	Streamlining workflows using AI: From planning and reconstruction to analysis: Mehmet Akçakaya (University of Minnesota, USA)

16:58 – 17:59 Proffered Abstracts: **Scientific Presentations VIII**

Moderators: *Hua Guo* (Tsinghua University, China) and *Graham Wright* (Sunnybrook Research Institute, Canada)

Orals

1. Evaluating CSF Outflow Using Time-SLIP MRI and Bi-Component Modeling: **Vadim Malis** (UC San Diego, USA)
2. Automatic segmentation and wall shear stress quantification of intracranial aneurysms from 4D flow using Convolutional Neural Networks: **Patrick Winter** (University of Greifswald, Germany)
3. Quantitative MRI relaxation time analysis of ex-vivo thrombus samples: Implications for mechanical thrombectomy and clot characterization: **Enikő Pomozi** (Houston Methodist Research Institute, USA)
4. Assessment of wide-coverage intracranial and extracranial vessel wall MRI at 5T: **Xiancong Liu** (Tsinghua University, China)
5. Quantitative Intracranial Vessel Wall Imaging Features in Differentiating Intracranial Vasculopathies: **Mona Kharaji** (University of Washington, USA)

SCIENTIFIC PROGRAM

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Saturday, August 23 (Continued)

Power Pitches

1. Deep-Learning based Reconstruction of Highly Accelerated 4D Flow MRI using >1000 Datasets: **Haben Berhane** (Northwestern University, USA)
2. Imaging relative pressure fields through turbulent flow domains - combining ICOSA6 4D Flow MRI and physics-based full-field pressure estimators: **Vincent Lechnet** (Karolinska Institutet, Sweden)
3. Deep Learning Image-to-Image Translation from CEMRA to CTA via Conditioned Diffusion: **Sebastian Cohn** (Northwestern University, USA)
4. Susceptibility-Enhanced Vascular Imaging at 5T: A feasible Approach to Decode Cerebral Small Vein Networks and Cerebral microbleeds (CMBs): **Shao Wushi** (Tsinghua University, China)
5. Development of a Clinical Tool for LSA Segmentation: Leveraging 3T Data for 7T LSA Segmentation with nnU-Net and SwinUNETR: **Diantong Xie** (Center for Biomedical Imaging Research, Tsinghua University, China)
6. Automated Cardiovascular MRI Protocols for Common Cardiac Indications using Natural Language Processing: **Melika Shafeghat** (Northwestern University, USA)

19:00 – 21:00 **Optional Conference Networking Dinner**, Millenium Cafe (Extra Cost)



Sunday, August 24

Plenary Session V: Interventional MRI

Time: 9:00 – 10:30

Moderators: *Charles Dumoulin* (Cincinnati Children's Hospital Medical Center, USA) and *Robert Edelman* (NorthShore University Health System, USA)

Time	Topic
9:00 – 9:15	MRA in Pre-procedural Planning for Endovascular Interventions: Christof Karmonik (Houston Methodist Research Institute, USA)
9:15 – 9:30	MRI (iMRI) Guided Arrhythmia Ablation, Where are we now?: Aravindan Kalandaivelu (Johns Hopkins University School of Medicine, USA)
9:30 – 9:45	MRI for Assessment of Cardiac Arrhythmia Ablations: Graham Wright (Sunnybrook Research Institute, Canada)
9:45 – 10:00	MR Lymphangiography: Techniques, Indications, and Emerging Frontiers: Claus Christian Pieper (University Hospital Bonn, Germany)
10:00 – 10:15	<i>Industry Talk:</i> Cardiovascular Techniques and Applications on uMR systems: Yongquan Ye (United Imaging)
10:15 – 10:30	Discussion

10:30 – 10:50 **Coffee Break**

Closing Plenary and Sadamoto Lecture: Burning Questions in the Future of MRA

Time: 10:50 – 12:35

Moderators: *Mitsue Miyazaki* (University of California – San Diego, USA) and *Judit Csőre* (Semmelweis University, Hungary)

Time	Topic
10:50 – 11:05	Sadamoto Lecture: The Evolving Landscape of Contrast Enhanced MRA: Paul Finn (University of California – Los Angeles, USA)
11:05 – 11:20	Neonatal MRI: past, present, and future: Charles Dumoulin (Cincinnati Children's Hospital Medical Center, USA)
11:20 – 11:35	Linking MRA Across Borders and Modalities – Global Interdisciplinary Collaborations to Meet Clinical Demands: Giles Roditi (NHS Greater Glasgow & Clyde, UK)
11:35 – 11:50	Discussion
11:50 – 12:05	Award Presentations and Summary of SMRA 2025: Jeremy Collins (Mayo Clinic, USA), Judit Csőre (Semmelweis University, Hungary), and Oliver Wieben (University of Wisconsin – Madison, USA)
12:05 – 12:20	Presentation of SMRA 2026 and Closing Remarks: Jeremy Collins (Mayo Clinic, USA), Aleksandra Radjenovic (University of Glasgow, Scotland), and Huijun Chen (Tsinghua University, China)

12:30 – 18:00 **Optional Post-conference Activity, Lázár Equestrian Show and Lunch (Extra Cost)**

JUNIOR FELLOWSHIP AWARD WINNERS

Suvai Gunasekaran, PhD (Cedars-Sinai Medical Center, USA)



Dr. Suvai Gunasekaran is an Assistant Professor in the Department of Biomedical Sciences at Cedars-Sinai Medical Center. She holds a Ph.D. in Biomedical Engineering from Northwestern University and A.B. and S.M. degrees from Harvard University. Her research focuses on quantitative fibrosis CMR and is supported by a NIH K99/R00 Pathway to Independence Award. She has been an active member of the SMRA since 2019 including serving as Co-Chair of the SMRA Early Career Committee during the 2023 conference in Sendai, Japan.

Thekla Oechtering, MD (University of Wisconsin – Madison, USA)



Dr. Thekla H. Oechtering, MD, PD Dr med, is an assistant professor of Radiology at the University of Wisconsin-Madison, where she serves as director of 4D flow MRI and co-director of the 3D postprocessing lab Radius. Originally from Leipzig, Germany, she earned her medical degree and completed her residency at the University of Lübeck, where she led a cardiac MRI research lab and received her Habilitation in 2024. Dr. Oechtering is internationally recognized for her contributions to cardiovascular 4D flow MRI and is dedicated to advancing its clinical implementation to improve the diagnosis and management of cardiovascular diseases. She is a Junior Fellow of the International Society for Magnetic Resonance in Medicine (ISMRM), where she currently serves as past chair of the Flow and Motion Study Group. She is deeply honored to be named a Junior Fellow of SMRA and looks forward to an inspiring and unforgettable meeting in Budapest.

Junior Fellowship Award Committee

Oliver Wieben, PhD (University of Wisconsin – Madison, USA)

Anastasia Fotaki, MD, PhD (King's College, UK)

Aleksandra Radjenovic, PhD (University of Glasgow, Scotland)

Susanne Schnell, PhD (University of Greifswald, Germany)

Calder Sheagren, PhD (University of Michigan, USA)

Xihai Zhao, MD, PhD (Tsinghua University, China)

Thursday, August 21 to Sunday, August 24

Enhance your SMRA 2025 experience by joining our evening networking events! These optional dinners are designed to offer a perfect blend of Budapest's charm, culinary delights, and meaningful connections with fellow professionals.

Welcome Reception: Thursday, August 21

Our Welcome Reception at the Basic Medical Science Center of Semmelweis University, the main venue of SMRA 2025, provides an opportunity to meet fellow participants, engage with distinguished speakers, and set the stage for insightful discussions in the days to come.

Additional details:

- *Location:* Basic Medical Center, Semmelweis University, Tűzoltó street 37-47., 1094 Budapest
- *Time:* 18:00 – 21:00
- *Cost:* Free with registration
- *Includes:* Finger food, drinks

Cruise Networking Dinner on the Danube: Friday, August 22

Sail through the heart of Budapest aboard the elegant River Diva Boat and enjoy breathtaking panoramic views of the city's most iconic landmarks—Parliament, Buda Castle, Chain Bridge, and Gellért Hill—illuminated against the night sky. Enjoy a unique dining experience featuring local cuisine, complemented by an atmosphere perfect for networking and conversation.

The networking dinner includes:

- Welcome drink and snacks on board
- Full-course dinner with local specialties
- A selection of Hungarian wines, beer and non-alcoholic drinks
- Open-air deck with grill and stunning views

Additional details:

- *Location:* River Diva Event Boat, Danube River
- *Time:* Event starts at 18:45 | Boarding starts at 19:00 and cruise departs at **19:15 sharp**
- *Duration:* 19:15 – 21:45
- *Website:* <https://riverdiva.hu/en/>
- *Cost:* Ticketed event, \$35.00 each (***tickets must be purchased in advance***)
- *Attire:* Business casual
- ***Delegates to meet in front of the Parliament Building on the Danube side (exact address will be on your ticket)***

Please note: this networking cruise is not sponsored directly or indirectly by the MedTech Europe or EFPIA members



Thursday, August 21 to Sunday, August 24

Networking dinner at Millennium Café: Saturday, August 23

Step into the grandeur of Budapest's past at the Millennium Háza, also known as the House of the Hungarian Millennium. Being the oldest building located in the scenic City Park (Városliget), this beautifully restored Neo-Renaissance building is a cultural gem, originally designed in 1885 by architect Ferenc Pfaff. With its ornate Zsolnay ceramic décor, elegant interiors, and a surrounding rose garden, the venue offers a perfect blend of history and sophistication.

You can enjoy an exquisite multi-course dinner in this iconic setting, with a focus on Hungarian cuisine, making it an unforgettable night of networking and cultural immersion.

The networking dinner includes:

- Welcome drink and snacks
- Full-course dinner with local specialties
- A selection of Hungarian wines, beer and non-alcoholic drinks

Additional details:

- *Location:* Millennium Háza, Olof Palme stny. 1, 1146 Budapest (City Park)
- *Time:* 19:00
- *Website:* <https://www.millenniumkavehaz.hu/english>
- *Cost:* Tickets event, \$35.00 each (***tickets must be purchased in advance***)
- *Attire:* Business Casual



Optional Post-conference Program — Lázár Equestrian Park, Domonyvölgy: Sunday, August 24

Conclude your SMRA 2025 experience with an unforgettable visit to the renowned Lázár Equestrian Park, located just outside Budapest in the beautiful Domonyvölgy countryside. Founded by the legendary Lázár brothers—world champions in carriage driving—the park showcases Hungary's rich equestrian heritage with a spectacular live horse show featuring traditional horsemanship, carriage driving, and horseback archery. Following the show, guests will be treated to a traditional Hungarian lunch, accompanied by live folk music and dance performance, celebrating the rich cultural heritage of Hungary.

The program includes:

- Welcome snacks and drinks
- Traditional Hungarian equestrian show
- Guided tour of the park and stables
- Authentic Hungarian lunch with drinks
- Live folk music and dance performance

Additional details:

- *Location:* Fenyő utca 47, Domony 2182 Hungary
- *Time:* Bus will depart from Hotel Vision at **14:00 sharp**
- *Website:* <https://lazarlovaspark.hu/en/>
- *Cost:* Ticketed event, \$85.00 each (***tickets must be purchased in advance***)
- *Attire:* Casual



As always, families, friends, and partners are warmly welcome! We're excited to offer a memorable **Guest Day Program** for those traveling with SMRA attendees. While delegates participate in the scientific program, guests are invited to explore Budapest's rich culture, history, and charm together as a group.

We've curated a special experience that includes iconic landmarks, panoramic views, and authentic Hungarian cuisine. A WhatsApp group will be created to ensure smooth communication. We've outlined the details below to the best of our ability, but please note plans are subject to change.

Please note that, according to Hungarian insurance providers, the risks arising from our guiding activity are typically covered by the guests' **own travel insurance**. This agenda is subject to change and may be impacted by the national holiday taking place on August 20, 2025. Your host will be able to support your questions and make you aware of any changes.

Cost of 3-Day program: 190 USD per person

Organizer: *Behind Budapest alongside Eva Toth*



Day 1: Thursday, August 21

Castle District (Buda Side)

9:30 AM: Departure from Hotel Vision, walking and using public transport (BKK) to the Buda Castle District.

10:30 AM: Visit to the Fisherman's Bastion (only the parts where no ticket is required).

11:00 AM: Visit to Matthias Church with a private organ concert (tickets paid in advance).

Guided walking tour in the northern part of the Buda Castle including the Mária Tower, National Archive, etc. (only exterior visit)

12:00 PM: Lunch on your own at one of the following recommended restaurants:

- 21 Bistro – Address: 21 Fő utca, 1011 Budapest (Modern bistro with Hungarian and international cuisine)
- Fehér Holló – Address: 5 Szentháromság tér, 1014 Budapest (Traditional Hungarian food with a cozy atmosphere)
- Spíler Beergarten – Address: 1-3 Szentháromság utca, 1014 Budapest (Casual beer garden offering craft beers and hearty pub food)

Please note: Lunch is self-funded, and there are no reservations at the mentioned restaurants

1:30 PM: Meeting at Szentháromság Square.

Guided walking tour of the southern part of the Buda Castle District, including the Royal Palace, Royal Stables, Riding Hall, Csikós Courtyard, Castle Garden Bazaar and more.

3:30 PM: Return to Hotel Vision.



Day 2: Friday, August 22

Hero's Square Area (Pest Side)

9:30 AM: Departure from Hotel Vision by private coach to explore the City Park.

Scenic drive along Andrásy Avenue, passing the Opera House, the House of Terror Museum, and the old Music Academy.

Guided walking tour in the City Park (Heroes' Square, Széchenyi Bath, and the Zoo).

11:00 AM: Visit to the Museum of Fine Arts with a guided tour (entrance fees are included in the price).

12:00 PM: Discover the area around the City Park — Vajdahunyad Castle, Lugosi and George W. Bush statues, House of Hungarian Music, and the 1956 Memorial.

1:00 PM: Lunch on your own at one of the following recommended restaurants:

- ETNO Bistro – Address: Dózsa György út 35, 1146 Budapest (Modern and trendy café serving international dishes).
- Trilla Bistro – Address: Olof Palme stny. 3, 1146 Budapest (Traditional Hungarian cuisine with a modern twist).
- Zöld Küllő – Address: Paál László út, 1146 Budapest (Vegetarian and vegan dishes with a focus on sustainability).

Please note: Lunch is self-funded, and there are no reservations at the mentioned restaurants

2:30 PM: Visit to the Museum of Ethnography with a guided tour (entrance fees are included in the price).

3:45 PM: Return to Hotel Vision by coach, passing notable landmarks like St. Stephen's Basilica and the Dohány Street Synagogue. Expected arrival at the hotel by 4:30 PM.



Day 3: Saturday, August 23

Walking Tour to Parliament, St. Stephen's Basilica, and Grand Market (Pest Side)

9:30 AM: Departure from Hotel Vision, walking to Váci Street and Deák Ferenc Square, Erzsébet / Elizabeth square.

Visit to St. Stephen's Basilica (entrance tickets included).

Walking tour towards the Szabadság Square and the Hungarian Parliament Building.

12:30 PM: Lunch on your own at one of the following recommended restaurants (please note that this is subject to change if the Central Market Hall will be visited in the morning):

- Szamos Gourmet House – Address: 2 Kossuth Lajos tér, 1055 Budapest (Elegant restaurant offering Hungarian and international dishes, daily menu, plus a variety of cakes and pastries).
- Retro Lángos – Address: 4 Kossuth Lajos tér, 1055 Budapest (Traditional Hungarian lángos in a retro-style setting, perfect for a quick and tasty snack).
- Smúz Café – Address: 10 Kossuth Lajos tér, 1055 Budapest (Casual café offering a variety of Hungarian and international dishes, with a relaxed atmosphere).
- Séf Asztala – Address: 3 Kossuth Lajos utca, 1053 Budapest (Modern Hungarian dishes in a cozy setting).

Please note: Lunch is self-funded, and there are no reservations at the mentioned restaurants

2:00 PM: Walk to the Shoes on the Danube Memorial and continue along up to the Chain Bridge. Take tram number 2 to Fővám Square.

4:00 PM: After a refreshments at 1000 Tea House, walk back to Hotel Vision (tickets are included in the price).



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The Society for Magnetic Resonance Angiography would like to express its sincere gratitude to all 2025 sponsors, without whom this year's event would genuinely not have been possible.

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SMRA Code of Conduct and Ethics Policy

Safeguarding Diversity and Inclusion Policy

The Society of Magnetic Resonance for Angiography (SMRA) embraces and values the diversity of our global community, including differences in age, race, ethnicity, nationality, culture, gender, gender identity, sexual orientation, physical or mental ability, religion, and socioeconomic status. We believe our differences make us stronger and that diversity drives innovation in education, research, and patient care.

We are committed to providing a safe, respectful, and inclusive environment where scientists and clinicians have fair and equal opportunities to contribute to the field of MR Angiography. We value equity, inclusion, and dignity for all.

We do not tolerate harassment, discrimination, or bullying in any form. All members and participants in SMRA activities — including conferences, workshops, committees, and digital forums — are expected to treat each other with courtesy and respect.

We encourage the civil and respectful expression of ideas and support freedom of speech within a framework of professional behavior. We also encourage individuals to speak up, without fear of retaliation, if they witness or experience behavior that goes against these values. Bystanders are likewise encouraged to support affected individuals and report concerns when appropriate.

Reporting Concerns

If you experience or witness a violation of this Code of Conduct, or have any concerns, please contact our Code of Conduct support:

- **Anna Van Vliet** – vanvliet0709@gmail.com

All reports will be handled with care and confidentiality. When needed, appropriate action will be taken to mediate or address the issue.

Ethics and Plagiarism in Submissions

We expect all abstract and manuscript submissions to reflect original work. Plagiarism — including the unattributed use of data, text, or ideas from others, or self-plagiarism — undermines the integrity of scientific discourse and will not be tolerated.

All authors submitting to SMRA-organized meetings are responsible for ensuring their work properly acknowledges the contributions of others. If concerns about potential plagiarism arise, the SMRA program committee or board may review the case and take appropriate actions. These may include requests for clarification or correction, withdrawal of the submission, or, in serious cases, restriction from future participation.

We encourage a culture of academic honesty, transparency, and mutual respect in all forms of scholarly exchange.

Announcement of 2026 Meeting: Xi'an, China



SMRA 2026



HUIJUN CHEN

SMRA 2026
Organizer

XI'AN, CHINA

OCTOBER 20-23, 2026

The Society for Magnetic Resonance Angiography (SMRA) looks forward to heading to Xi'an, China for SMRA 2026!