**2019 Annual Meeting
Program-at-a-Glance
*Last updated:***

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| **Jump to a Day:** [**Sat 11 May**](https://www.ismrm.org/19/19program.htm#Saturday)[**Sun 12 May**](https://www.ismrm.org/19/19program.htm#Sunday)[**Mon 13 May**](https://www.ismrm.org/19/19program.htm#Monday)[**Tue 14 May**](https://www.ismrm.org/19/19program.htm#Tuesday)[**Wed 15 May**](https://www.ismrm.org/19/19program.htm#Wednesday)[**Thu 16 May**](https://www.ismrm.org/19/19program.htm#Thursday) |

**Color Key:**

**Body**

**Molecular • Spectroscopy**

**Cardiovascular**

**Cross-Cutting & Emerging Tech­nologies**

**Diffusion • Perfusion • fMRI**

**Musculoskeletal**

**Neuro**

**Physics & Engineering**

**Digital Posters**

**Power Pitches**

**Member-Initiated Symposia**

**Plenary Sessions**

**Study Groups**

**Scientific Sessions**

**Corporate Events**

***Search the Program-at-a-Glance:
Coming Spring 2019***

[***Looking for the SMRT Annual Meeting for Technologists & Radiographers? Click here!***](https://www.ismrm.org/smrt/19m)

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| **FRIDAY • 10 May 2019** | **Onsite Registration Opens 14:00-20:00** |
| ***Pick up your meeting materials early & avoid the weekend lines!*** |

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| **Navigation: Back to Meeting HomeNavigation: TopNavigation: Previous DayNavigation: Next DaySATURDAY • 11 May 2019** | **Registration Hours: 06:30-18:30** |
| **Saturday • Morning Sessions** |
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| **Educational Session**[**Diffusion & Microstructure: Fundamentals**](https://www.ismrm.org/19/program_files/WE05.htm) | **Educational Session**[**MR Image-Guided Therapy**](https://www.ismrm.org/19/program_files/WE07.htm) | **Educational Session**[**MRI Systems Engineering**](https://www.ismrm.org/19/program_files/WE02.htm) | **Educational Session**[**Basic MR Spectroscopy**](https://www.ismrm.org/19/program_files/WE06.htm) | **Educational Session**[**Cutting-Edge Techniques in Body MRI**](https://www.ismrm.org/19/program_files/WE03.htm) | **Educational Session**[**Physics for Physicists**](https://www.ismrm.org/19/program_files/WE01.htm) | **Educational Session**[**Humans Learning to Do Machine Learning Right**](https://www.ismrm.org/19/program_files/WE08.htm) | **Educational Session**[**fMRI: Back to Basics**](https://www.ismrm.org/19/program_files/WE04.htm) |
| **08:00-11:30Room 512A-H** | **08:00-11:30Room 513A-C** | **08:00-11:30Room 516AB** | **08:00-11:30Room 516C-E** | **08:00-11:50Room 518A-C** | **08:00-11:30Room 520A-F** | **08:00-12:00Room 710A** | **08:00-11:25Room 710B** |

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| ***LUNCH BREAK: 12:15 – 13:15*** |
| **Saturday • Afternoon Sessions** |
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| **Educational Session**[**Diffusion & Microstructure: Frontiers**](https://www.ismrm.org/19/program_files/WE05.htm) | **Educational Session**[**Hyperpolarized MR Spectroscopic Imaging**](https://www.ismrm.org/19/program_files/WE11.htm) | **Educational Session**[**MRI Systems Engineering**](https://www.ismrm.org/19/program_files/WE02.htm) | **Educational Session**[**Myelin**](https://www.ismrm.org/19/program_files/WE12.htm) | **Educational Session**[**Hepatobiliary&Imaging of Prostate Cancer**](https://www.ismrm.org/19/program_files/WE09.htm) | **Educational Session**[**Physics for Physicists**](https://www.ismrm.org/19/program_files/WE01.htm) | **Educational Session**[**Statistical Analysis for Imaging Studies**](https://www.ismrm.org/19/program_files/WE13.htm) | **Educational Session**[**Physiology & Hemodynamics**](https://www.ismrm.org/19/program_files/WE10.htm) |
| **13:30-17:00Room 512A-H** | **13:30-16:40Room 513A-C** | **13:30-17:00Room 516AB** | **13:30-17:00Room 516C-E** | **13:30-16:55Room 518A-C** | **13:30-17:00Room 520A-F** | **13:30-17:00Room 710A** | **13:30-16:40Room 710B** |

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| **Navigation: Back to Meeting HomeNavigation: TopNavigation: Previous DayNavigation: Next DaySUNDAY • 12 May 2019** | **Registration Hours: 07:00-18:30** |
| **Sunday • Morning Sessions** |
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| **Educational Session**[**Basics of Molecular Dynamic Sensitive MRI; MT, CEST & Rotating Frame Relaxation**](https://www.ismrm.org/19/program_files/WE19.htm) | **Educational Session**[**MSK Disease: Current Status & Potential Applications of Advanced Imaging**](https://www.ismrm.org/19/program_files/WE18.htm) | **Educational Session**[**RF Coils**](https://www.ismrm.org/19/program_files/WE15.htm) | **Educational Session**[**Neurofluids & Brain Lymphatics: From Bench to MRI**](https://www.ismrm.org/19/program_files/WE20.htm) | **Educational Session**[**Vascular Educational**](https://www.ismrm.org/19/program_files/WE16.htm) | **Educational Session**[**MRI Data Acquisition: Pulse Sequences**](https://www.ismrm.org/19/program_files/WE14.htm) | **Educational Session**[**Open-Source Software Tools for MR Pulse Design, Simulation & Reconstruction**](https://www.ismrm.org/19/program_files/WE21.htm) | **Educational Session**[**Basic Perfusion**](https://www.ismrm.org/19/program_files/WE17.htm) |
| **08:00-12:00Room 512A-H** | **08:00-11:50Room 513A-C** | **08:00-11:30Room 516AB** | **08:00-11:50Room 516C-E** | **08:00-12:00Room 518A-C** | **08:00-11:30Room 520A-F** | **08:00-11:50Room 710A** | **08:00-11:50Room 710B** |

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| ***LUNCH BREAK: 12:15 – 13:15*** |
| **Sunday • Afternoon Sessions** |
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| **Educational Session**[**Gynecology&Bowel**](https://www.ismrm.org/19/program_files/WE25.htm) | **Educational Session**[**MSK Disease: Current Status & Potential Applications of Advanced Imaging**](https://www.ismrm.org/19/program_files/WE18.htm) | **Educational Session**[**RF Coils**](https://www.ismrm.org/19/program_files/WE15.htm) | **Educational Session**[**CNS Tumors**](https://www.ismrm.org/19/program_files/WE26.htm) | **Educational Session**[**Cardiac MR: Linking Physiology to Imaging**](https://www.ismrm.org/19/program_files/WE23.htm) | **Educational Session**[**MRI Image Reconstruction: Nyquist & Non-Nyquist Techniques**](https://www.ismrm.org/19/program_files/WE22.htm) | **Educational Session**[**Open-Source Software Tools for MR Pulse Design, Simulation & Reconstruction**](https://www.ismrm.org/19/program_files/WE21.htm) | **Educational Session**[**Brain Connectivity: Structure & Function**](https://www.ismrm.org/19/program_files/WE24.htm) |
| **13:30-16:40Room 512A-H** | **13:30-15:40Room 513A-C** | **13:30-16:00Room 516AB** | **13:30-16:55Room 516C-E** | **13:30-16:30Room 518A-C** | **13:30-16:30Room 520A-F** | **13:30-16:00Room 710A** | **13:30-16:30Room 710B** |

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| **OPENING SESSIONPlenary Hall - Room 517** |
| **17:00** | **Welcome** | **Pia Maly Sundgren, M.D., Ph.D. & John Port, M.D., Ph.D.** |
| **17:30** | **Lauterbur LectureMy Life in Magnetic Resonance: Sense & Serendipity** | **Peter van Zijl, Ph.D.** |
| **18:15** | **Adjournment** |

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|  | **Opening Reception18:30 – 20:00Exhibition Hall** |  |

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| **Navigation: Back to Meeting HomeNavigation: TopNavigation: Previous DayNavigation: Next DayMONDAY • 13 May 2019** | **Registration Hours: 06:30-18:30Exhibition Hall Hours: 10:00-17:00Digital Poster Hall Hours: 07:00-20:30** |
| **MONDAY • SUNRISE EDUCATIONAL SESSIONS07:00 – 08:00** |
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| **Educational Session**[**fMRI in the Clinic**](https://www.ismrm.org/19/program_files/SM04.htm) | **Educational Session**[**Imaging Without Gadolinium: ASL**](https://www.ismrm.org/19/program_files/SM07.htm) | **Educational Session**[**Multinuclear Imaging & Spectroscopy: Electrolytes (Sodium & Beyond)**](https://www.ismrm.org/19/program_files/SM05.htm) | **Educational Session**[**Preclinical MRI: Methods & Applications: Neuroimaging**](https://www.ismrm.org/19/program_files/SM03.htm) | **Educational Session**[**Quantitative MRI: Relaxometry**](https://www.ismrm.org/19/program_files/SM08.htm) | **Educational Session**[**Cardiovascular MR of the Future: Hardware**](https://www.ismrm.org/19/program_files/SM02.htm) | **Educational Session**[**Advanced MSK MRI Acquisition & Post-Processing: Machine Learning**](https://www.ismrm.org/19/program_files/SM06.htm) | **Educational Session**[**Why Do My Body Images Look So Bad?**](https://www.ismrm.org/19/program_files/SM01.htm) |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 513A-C** | **Room 513D-F** | **Room 516AB** | **Room 516C-E** | **Room 518A-C** |

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| ***BREAK: 08:00 – 08:15*** |
| **MONDAY • MORNING SESSIONS08:15 – 10:15** |
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| **Power Pitch Session *(no CME credit)*****Lung Power****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Artificial Intelligence Neuro****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Pediatric: Ain't Misbehaving on Purpose****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Musculoskeletal;MR Engineering****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
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| **Combined Educational & Scientific Session**[**MRS to CEST & What Is In-Between**](https://www.ismrm.org/19/program_files/M03.htm) | **ISMRM-SMRT Joint Forum**[**Chasing Speed & Spatial Resolution: At What Point Is Enough?**](https://www.ismrm.org/19/program_files/M02.htm) | **Combined Educational & Scientific Session**[**Multimodal fMRI: From Animal to Human**](https://www.ismrm.org/19/program_files/M04.htm) | **Member-Initiated Symposium *(no CME credit)*****Frontiers in Magnetic Resonance Imaging Biomarkers of Renal Disease: Where Imaging Sciences, Big Data, Physiology & Medicine Meet** | **Member-Initiated Symposium *(no CME credit)*****STOP Looking: Ultra-High Field Killer Apps Found** |
| **Room 510A-D** | **Room 710A** | **Room 710B** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Microstructure: Approaching Cellular Complexity** | **Scien­tific Session****Freeze It: Managing Motion in MRI** | **Scien­tific Session****Traumatic Brain Injury** | **Scien­tific Session****Advances in Flow Imaging** | **Scien­tific Session****Female Pelvis** | **Scien­tific Session****Young Investigator Awards** |
| **Room 511BCEF** | **Room 512A-H** | **Room 513D-F** | **Room 516C-E** | **Room 518A-C** | **Room 520A-F** |

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| ***BREAK: 10:15 – 10:30*** |
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| **PLENARY SESSIONPlenary Hall - Room 517** |
| **10:30** | **ISMRM Awards:Junior Fellows, Senior Fellows, Gold Medals & Distinguished Service Medals** | **Pia Maly Sundgren, M.D., Ph.D., ISMRM 2018-2019 President** |
| **DisruptorsOrganizers: Elna-Marie Larsson, Daniel Sodickson, Kei Yamada & Xin Yu** |
| **11:15** | **Introduction** | **Daniel K. Sodickson, M.D., Ph.D.** |
| **11:20** | **Disruptors to the Way We Gather Data** | **Andrew G. Webb, Ph.D.**  |
| **11:38** | **Disruptors to the Way We Visualize Data** | **Mark A. Griswold, Ph.D.** |
| **11:57** | **Disruptors to the Way We Interpret Data** | **Hedvig Hricak, M.D., Ph.D., Dr.h.c.** |
| **12:15** | **Adjournment** |

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| ***LUNCH BREAK: 12:15 – 13:45*** |
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|  | **Gold Corporate SymposiumGE Healthcare*(no CME credit)*12:30 – 13:30Plenary Hall - Room 517** |  |

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| **MONDAY • AFTERNOON SESSIONS13:45 – 15:45** |
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| **Power Pitch Session *(no CME credit)*****Myelin Imaging in Sickness & Health****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****MSK****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Cutting Edge CEST****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****BodyYoung Investigator Awards****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **Pediatric MR13:45-14:45** | **MR Safety13:45-14:45** |
|  | **MR Elastography14:45-15:45** |

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| **Combined Educational & Scientific Session****[Mapping the Liver](https://www.ismrm.org/19/program_files/M07.htm)** | **Educational Session**[**Cardiac Microstructure**](https://www.ismrm.org/19/program_files/M05.htm) | **Educational Session****[Idiopathic Normal Pressure Hydrocephalus: The Role of MRI](https://www.ismrm.org/19/program_files/M06.htm)** | **Member-Initiated Symposium *(no CME credit)*****Open Source Initiative for Perfusion Imaging** | **Member-Initiated Symposium *(no CME credit)*****MRI of the Placenta & Fetus: Challenges & Opportunities** |
| **Room 510A-D** | **Room 512A-H** | **Room 516C-E** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Fiber Orientations & Tractography** | **Scien­tific Session****MRS/MRSI: Application** | **Scien­tific Session****Neuropsychiatry & Psychoradiology** | **Scien­tific Session****Cutting-Edge Advances in Cancer Imaging** | **Scien­tific Session****fMRI: Multimodal** | **Scien­tific Session****B0 Field Management & Shimming** |
| **Room 511BCEF** | **Room 513D-F** | **Room 518A-C** | **Room 520A-F** | **Room 710A** | **Room 710B** |

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| ***BREAK: 15:45 – 16:00*** |
| **MONDAY • EVENING SESSIONS16:00 – 18:00** |
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| **Power Pitch Session *(no CME credit)*****Diffusion MRI: Acquisition, Reconstruction & Artefact Correction****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Frontiers of Neuro Techniques****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Molecular & Metabolic Imaging****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Cardiovascular;MR Spectroscopy****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **MR of Cancer16:00-17:00** | **Psychiatric MR Spectroscopy & Imaging16:00-17:00** |
| **Detection & Correction of Motion in MRI & MRS17:00-18:00** |  |

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| **Educational Session****[Diverse Perspectives on Imaging-Based Diagnosis of HCC](https://www.ismrm.org/19/program_files/M08.htm)** | **Educational Session****[Functional & Dynamic MR Imaging of Peripheral Joints & Spine](https://www.ismrm.org/19/program_files/M09.htm)** | **Educational Session****[MR Physics & Techniques for Clinicians](https://www.ismrm.org/19/program_files/M01.htm)** | **Member-Initiated Symposium *(no CME credit)*****Frontiers & Challenges in Rodent Brain Imaging** | **Member-Initiated Symposium *(no CME credit)*****Non-Contrast Cardiac MR Assessment of Ischemic Heart Disease** |
| **Room 516 C-E** | **Room 511BCEF** | **Room 710A** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Novel MR & MR-Compatible Technology** | **Scien­tific Session****Breast** | **Scien­tific Session****Neurovascular** | **Scien­tific Session****What's New in the Spinal Cord?** | **Scien­tific Session****Quantitative Parameter Mapping** | **Scien­tific Session****QSM & ETM** |
| **Room 512A-H** | **Room 513D-F** | **Room 510A-D** | **Room 518A-C** | **Room 520A-F** | **Room 710B** |

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| **Navigation: Back to Meeting HomeNavigation: TopNavigation: Previous DayNavigation: Next DayTUESDAY • 14 May 2019** | **Registration Hours: 06:30-18:00Exhibition Hall Hours: 10:00-17:00Digital Poster Hall Hours: 07:00-20:30** |
| **TUESDAY • SUNRISE EDUCATIONAL SESSIONS07:00 – 08:00** |
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| **Educational Session**[**Connectivity for Clinical Study**](https://www.ismrm.org/19/program_files/STu04.htm) | **Educational Session**[**Imaging Without Gadolinium:CEST**](https://www.ismrm.org/19/program_files/STu07.htm) | **Educational Session****[Multinuclear Imaging & Spectroscopy: Hyperpolarized 13C Use in Clinical Research & Trials](https://www.ismrm.org/19/program_files/STu05.htm)** | **Educational Session****[Preclinical MRI: Methods & Applications: Contrast & Probes](https://www.ismrm.org/19/program_files/STu03.htm)** | **Educational Session****[Quantitative MRI:Diffusion & Flow](https://www.ismrm.org/19/program_files/STu08.htm)** | **Educational Session****[MRI in Liver Transplantation](https://www.ismrm.org/19/program_files/STu01.htm)** | **Educational Session****[Advanced MSK MRI Acquisition & Post-Processing: Rapid Imaging](https://www.ismrm.org/19/program_files/STu06.htm)** | **Educational Session****[Cardiovascular MR of the Future: Software](https://www.ismrm.org/19/program_files/STu02.htm)** |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 513A-C** | **Room 513D-F** | **Room 516AB** | **Room 516C-E** | **Room 518A-C** |

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| ***BREAK: 08:00 – 08:15*** |
| **TUESDAY • MORNING SESSIONS08:15 – 10:15** |
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| **Power Pitch Session *(no CME credit)*****The Aging Brain****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Diffusion: Applications****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Task-Based fMRI & fMRI Acquisition Methods****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Cancer;Acquisition, Reconst. & Analysis;Spectroscopy & Non-Proton MR;Neuro****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **Molecular & Cellular Imaging08:15-09:15** |  |
| **Perfusion09:15-10:15** | **Musculoskeletal MR09:15-10:15** |

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| **Combined Educational & Scientific Session**[**MRS of Lipids & Fatty Acids**](https://www.ismrm.org/19/program_files/Tu02.htm) | **Combined Educational & Scientific Session**[**Prostate MRI: New Acquisition & Post-Processing Techniques**](https://www.ismrm.org/19/program_files/Tu03.htm) | **Member-Initiated Symposium *(no CME credit)*****Advances in MRI-Guided Radiotherapy of Cancer** | **Member-Initiated Symposium *(no CME credit)*****Beyond Space & Time: The Power of Extra Dimensions in MRI** |
| **Room 512A-H** | **Room 516C-E** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Pediatrics: Image Acquisition** | **Scien­tific Session****Brain Tumor Vascular** | **Scien­tific Session****Myocardial Tissue Characterization** | **Scien­tific Session****MRI of Normal Musculoskeletal Physiology, Exercise & Biomechanics** | **Scien­tific Session****Imaging Myelin+** | **Scien­tific Session****RF Arrays & the Elements Within** | **Scien­tific Session****MRI: Overcoming Our Imperfections** |
| **Room 510A-D** | **Room 511BCEF** | **Room 513D-F** | **Room 518A-C** | **Room 520A-F** | **Room 710A** | **Room 710B** |

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| ***BREAK: 10:15 – 10:30*** |
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| **PLENARY SESSIONPlenary Hall - Room 517** |
| **10:30** | **NIBIB New Horizons LectureTranslational Research for MR Application of Nanotechnology: Beyond Imaging** | **Seung Hong Choi, M.D., Ph.D.** |
| **Machine Learning: From Basics to the ClinicOrganizers: Ivana Drobnjak, Jongho Lee, Tim Leiner & Bernd Wintersperger** |
| **11:00** | **Machine Learning in Medical Imaging** | **Jong Chul Ye, Ph.D.** |
| **11:20** | **Machine Learning in Clinical Practice** | **Bradley J. Erickson, M.D., Ph.D.** |
| **11:40** | **How Machine Learning Can Supercharge Scientific Discovery** | **Tal Arbel, Ph.D.** |
| **12:00** | **Adjournment** |

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| ***LUNCH BREAK: 12:00 – 13:30*** |
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|  | **Gold Corporate SymposiumPhilips Healthcare*(no CME credit)*12:15 – 13:15Plenary Hall - Room 517** |  |

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| **TUESDAY • AFTERNOON SESSIONS13:30 – 15:30** |
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| **Power Pitch Session *(no CME credit)*****Flow & Vessel Imaging****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Machine Learning Reconstruction Unleashed****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Other Nuclei MR: Looking at Other Resonances****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Neuro****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **Current Issues in Brain Function13:30-14:30** | **PET/MR13:30-14:30** |
| **Quantitative MR14:30-15:30** |  |

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| **Educational Session****[Motion Correction with External Sensors](https://www.ismrm.org/19/program_files/Tu04.htm)** | **Combined Educational & Scientific Session**[**Muscle Imaging**](https://www.ismrm.org/19/program_files/Tu05.htm) | **Educational Session****[Hands-On: From Ideal World to Real-World Engineering Issues](https://www.ismrm.org/19/program_files/Tu06.htm)** | **Member-Initiated Symposium *(no CME credit)*****Ultrahigh Field MR Safety: Increasing Access and Expanding Applications** | **Member-Initiated Symposium *(no CME credit)*****Mapping the Brain at Multiple Scales: Bridging the Gap Between Microscopic, Mesoscopic & Macroscopic Studies of Brain Structure & Connectivity** |
| **Room 510A-D** | **Room 518A-C** | **Room 710A** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Interrogating the Tumor Microenvironment** | **Scien­tific Session****MRS/MRSI Analysis** | **Scien­tific Session****Demyelination in the Spinal Cord: MS, NMO & ALS** | **Scien­tific Session****fMRI: Physiology** | **Scien­tific Session****Novel CEST & MT Preclinical Investigations** | **Scien­tific Session****Diffusion MRI: Signaling Representation & Modelling** |
| **Room 511BCEF** | **Room 512A-H** | **Room 513D-F** | **Room 516C-E** | **Room 520A-F** | **Room 710B** |

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| ***BREAK: 15:30 – 15:45*** |
| **TUESDAY • EVENING SESSIONS15:45 – 17:45** |
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| **Power Pitch Session *(no CME credit)*****Hot Topics in Engineering****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****New Developments in Cancer Imaging & Spectroscopy****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Breast****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Neuro****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **Hyperpolarized Media MR15:45-16:45** | **MR in Drug Research15:45-16:45** |
| **Cardiac MR16:45-17:45** | **MR Spectroscopy16:45-17:45** |

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| **Combined Educational & Scientific Session**[**Improved Motion Correction & Effective Free-Breathing Approaches**](https://www.ismrm.org/19/program_files/Tu07.htm) | **Educational Session**[**Advanced Imaging of Cartilage-Bone Interactions**](https://www.ismrm.org/19/program_files/Tu08.htm) | **Educational Session****[MR Physics & Techniques for Clinicians](https://www.ismrm.org/19/program_files/Tu01.htm)** | **Member-Initiated Symposium *(no CME credit)*****More than Simply Iron: MRI for Cellular Iron Mapping in the Human Brain** | **Member-Initiated Symposium *(no CME credit)*****Imaging the Biomechanical Properties of Tissue: Pathways to Improving Clinical Value** |
| **Room 513A-C** | **Room 518A-C** | **Room 710A** | **Room 513D-F** | **Room 516AB** |

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| **Scien­tific Session****Laminar & Columnar fMRI** | **Scien­tific Session****Dementia** | **Scien­tific Session****Pediatrics: Fetal & Neonatal** | **Scien­tific Session****Pancreas: Quantitative Tissue Properties & MRCP** | **Scien­tific Session****Microstructure: Validation Using Complementary Methods** | **Scien­tific Session****Machine Learning for Image Reconstruction** |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 516C-E** | **Room 520A-F** | **Room 710B** |

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|  | **Bronze Corporate Evening SymposiumHitachi Medical Systems*(no CME credit)*18:00 – 19:00Room 513 A-C** |  | **Bronze Corporate Evening Symposium[Olea Medical](https://www.ismrm.org/19/files/Olea-adv-CEST-ISMRM-2019.pdf)*(no CME credit)*18:00 – 19:00Room 518 A-C** |  |

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| **Navigation: Back to Meeting HomeNavigation: TopNavigation: Previous DayNavigation: Next DayWEDNESDAY • 15 May 2019** | **Registration Hours: 06:30-18:00Exhibition Hall Hours: 10:00-17:00Digital Poster Hall Hours: 07:00-20:30** |
| **WEDNESDAY • SUNRISE EDUCATIONAL SESSIONS07:00 – 08:00** |
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| **Educational Session**[**Microstructure for Clinical Use**](https://www.ismrm.org/19/program_files/SW04.htm) | **Educational Session**[**Imaging Without Gadolinium:Diffusion MRI**](https://www.ismrm.org/19/program_files/SW07.htm) | **Educational Session****[Multinuclear Imaging & Spectroscopy: Non-Hyperpolarized Energetics 13C, 31P](https://www.ismrm.org/19/program_files/SW05.htm)** | **Educational Session****[Preclinical MRI: Methods & Applications:Other Animal Imaging Modalities](https://www.ismrm.org/19/program_files/SW03.htm)** | **Educational Session****[Quantitative MRI:Quantitative Susceptibility Mapping](https://www.ismrm.org/19/program_files/SW08.htm)** | **Educational Session****[Post-PI-RADS: Prostate MRI in the Post-Treatment Setting](https://www.ismrm.org/19/program_files/SW01.htm)** | **Educational Session****[Advanced MSK MRI Acquisition & Post-Processing: Fat Suppression & Quantification](https://www.ismrm.org/19/program_files/SW06.htm)** | **Educational Session****[Cardiovascular MR of the Future: Data Processing](https://www.ismrm.org/19/program_files/SW02.htm)** |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 513A-C** | **Room 513D-F** | **Room 516AB** | **Room 516C-E** | **Room 518A-C** |

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| ***BREAK: 08:00 – 08:15*** |
| **WEDNESDAY • MORNING SESSIONS08:15 – 10:15** |
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| **Power Pitch Session *(no CME credit)*****Machine Learning Unleashed 2****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Mix All Physical Properties With Water and Shake Well****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Emerging Body Imaging Technologies & Their Translation****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Diffusion;MR Value****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **MR Flow & Motion Quantitation08:15-09:15** | **Reproducible Research08:15-09:15** |
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| **Educational Session**[**CMR in Kidney Failure: Non-Contrast Imaging**](https://www.ismrm.org/19/program_files/W04.htm) | **Combined Educational & Scientific Session**[**Psychoradiology for Neuropsychiatric Disorders**](https://www.ismrm.org/19/program_files/W02.htm) | **Educational Session****[Cutting-Edge MR Spectroscopic Imaging](https://www.ismrm.org/19/program_files/W03.htm)** | **Member-Initiated Symposium *(no CME credit)*****MRI in Breast Cancer: From Bench to Bedside & Beyond** | **Member-Initiated Symposium *(no CME credit)*****Completing the Circle: Moving Multi-Parametric Neuro MRI into Clinical Practice & Trials** |
| **Room 512A-H** | **Room 513D-F** | **Room 520A-F** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Hyperpolarized C13 Imaging** | **Scien­tific Session****MR Safety: PNS & RF Heating** | **Scien­tific Session****Stroke** | **Scien­tific Session****Blood Brain Barrier, Glymphatics & CSF Flow** | **Scien­tific Session****New Pulses & Encoding Schemes** | **Scien­tific Session****Diffusion MRI: Acquisition & Reconstruction** |
| **Room 510A-D** | **Room 511BCEF** | **Room 516C-E** | **Room 518A-C** | **Room 710A** | **Room 710B** |

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| ***BREAK: 10:15 – 10:30*** |
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| **PLENARY SESSIONPlenary Hall - Room 517** |
| **10:30** | **Presidential LectureWhen Stress Rules** | **Håkan Arheden, M.D., Ph.D.** |
| **Connecting MRI to Other Branches of ScienceOrganizers: Nivedita Agarwal & Dmitry Novikov** |
| **11:00** | **Connecting MRI to Neurophysiology: Collective Brain Dynamics** | **Michael Breakspear, Ph.D., M.B.B.S.**  |
| **11:20** | **Connecting MRI to Applied Mathematics: Fluid Dynamics of the Blood & Lymph Flow** | **Eleuterio F. Toro, Ph.D.** |
| **11:40** | **Connecting MRI to Molecular Engineering: Genetically Encoded MR Reporters** | **Mikhail G. Shapiro, Ph.D.** |
| **12:00** | **Adjournment** |

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| ***LUNCH BREAK: 12:00 – 13:30*** |
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|  | **Gold Corporate SymposiumSiemens Healthineers*(no CME credit)*12:15 – 13:15Plenary Hall - Room 517** |  |

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| **WEDNESDAY • AFTERNOON SESSIONS13:30 – 15:30** |
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| **Power Pitch Session *(no CME credit)*****Myocardial Tissue Characterization****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Interventional & RF: Safety & Solutions****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Rapid-Fire Fingerprinting****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****fMRI;Interventional MRI;Contrast Mechanisms****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
|  | **X-Nuclei Imaging13:30-14:30** |
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| **Combined Educational & Scientific Session**[**Cell Tracking & Molecular Imaging Using Exogenous Agents**](https://www.ismrm.org/19/program_files/W07.htm) | **Combined Educational & Scientific Session**[**Stroke: Early Signs & Late Recovery**](https://www.ismrm.org/19/program_files/W05.htm) | **Junior Fellows Symposium****[MR from a Global Perspective: The Underrepresented Part of the MR Spectrum](https://www.ismrm.org/19/program_files/W06.htm)** | **Member-Initiated Symposium *(no CME credit)*****RESONATE: Practical Approaches for Implementing Diversity, Equity & Inclusion in MRI Research** | **Member-Initiated Symposium *(no CME credit)*****The Road to Consensus in Diffusion MRI: How Far Are We?** |
| **Room 516C-E** | **Room 513A-C** | **Room 710A** | **Room 518A-C** | **Room 516AB** |

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| **Scien­tific Session****Image Processing & Analysis** | **Scien­tific Session****Perfusion & Permeability** | **Scien­tific Session****Brain Tumor: CEST, MRS & Diffusion MRI** | **Scien­tific Session****Traumatic, Neoplastic & Degenerative Musculoskeletal Diseases** | **Scien­tific Session****Artificial Intelligence in Body MRI** | **Scien­tific Session****fMRI Functional Connectivity: Applications** |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 513D-F** | **Room 520A-F** | **Room 710B** |

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| ***BREAK: 15:30 – 15:45*** |
| **WEDNESDAY • EVENING SESSIONS15:45 – 17:45** |
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| **Power Pitch Session *(no CME credit)*****Brain Tumor****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****fMRI Analysis: Task & Resting State****Power Pitch Theatre BExhibition Hall** | **Power Pitch Session *(no CME credit)*****Imperfections, Artifacts, Corrections, Oh My!****Power Pitch Theatre CExhibition Hall** | **Digital Poster Session *(no CME credit)*****Body;MR Safety;Spectroscopy & Non-Proton MR;Molecular Imaging****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **High Field Systems & Applications15:45-16:45** | **Hyperpolarization Methods & Equipment15:45-16:45** |
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| **Educational Session**[**MR Physics & Techniques for Clinicians**](https://www.ismrm.org/19/program_files/W01.htm) | **Educational Session**[**Non-Traditional Encoding Methods:To k-Space & Beyond**](https://www.ismrm.org/19/program_files/W08.htm) | **Member-Initiated Symposium *(no CME credit)*****Deep Learning for Mapping of Electromagnetic Tissue Properties** | **Member-Initiated Symposium *(no CME credit)*****IVIM MRI as a Non-Contrast Perfusion Imaging Modality: What to Expect** |
| **Room 710A** | **Room 710B** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Novel Pulse Sequences** | **Scien­tific Session****MRSI Acquisition & Reconstruction** | **Scien­tific Session****Neurodegeneration (Other than AD)** | **Scien­tific Session****MR-Guided Intervention** | **Scien­tific Session****MR Angiography & Vessel-Wall Imaging** | **Scien­tific Session****Prostate MR: Bench to Bedside** | **Scien­tific Session****Diffusion: Applications** |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 513D-F** | **Room 516C-E** | **Room 518A-C** | **Room 520A-F** |

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|  | **ISMRM Business Meeting*(no CME credit)*18:00-19:00Room 516AB** |  |

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|  | **Equity, Diversity & Inclusion (EDI) Forum*(no CME credit)*19:00-21:00Room 518A-C** |  |

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| **Navigation: Back to Meeting HomeNavigation: TopNavigation: Previous DayNavigation: Next DayTHURSDAY • 16 May 2019** | **Registration Hours: 06:30-18:00Exhibition Hall Hours: 10:00-16:30Digital Poster Hall Hours: 07:00-16:30** |
| **THURSDAY • SUNRISE EDUCATIONAL SESSIONS07:00 – 08:00** |
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| **Educational Session**[**Beginner's Guide to Perfusion MRI**](https://www.ismrm.org/19/program_files/STh04.htm) | **Educational Session**[**Imaging Without Gadolinium:Synthetic MRI**](https://www.ismrm.org/19/program_files/STh07.htm) | **Educational Session****[Multinuclear Imaging & Spectroscopy: Exploration of Fluorine-19 & Oxygen-17](https://www.ismrm.org/19/program_files/STh05.htm)** | **Educational Session****[Preclinical MRI: Methods & Applications: Future Challenges & Opportunities](https://www.ismrm.org/19/program_files/STh03.htm)** | **Educational Session****[Quantitative MRI:Electrical Property Mapping](https://www.ismrm.org/19/program_files/STh08.htm)** | **Educational Session****[Lung & PET/MR](https://www.ismrm.org/19/program_files/STh01.htm)** | **Educational Session****[Advanced MSK MRI Acquisition & Post-Processing: Quantitative Imaging](https://www.ismrm.org/19/program_files/STh06.htm)** | **Educational Session****[Cardiovascular MR of the Future: Challenges in the Multimodality Environment](https://www.ismrm.org/19/program_files/STh02.htm)** |
| **Room 510A-D** | **Room 511BCEF** | **Room 512A-H** | **Room 513A-C** | **Room 513D-F** | **Room 516AB** | **Room 516C-E** | **Room 518A-C** |

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| ***BREAK: 08:00 – 08:15*** |
| **THURSDAY • MORNING SESSIONS08:15 – 10:15** |
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| **Power Pitch Session *(no CME credit)*****Microstructure Modelling & Validation****Power Pitch Theatre AExhibition Hall** | **Power Pitch Session *(no CME credit)*****Liver: Brief but Impactful****Power Pitch Theatre BExhibition Hall** | **Digital Poster Session *(no CME credit)*****Acquisition, Reconst. & Analysis****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **Interventional MR08:15-09:15** | **Electro-Magnetic Tissue Properties08:15-09:15** |
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| **Educational Session**[**Stress & the Developing Brain**](https://www.ismrm.org/19/program_files/Th02.htm) | **Combined Educational & Scientific Session**[**Simulations & Modeling: Closed-Form to Discrete**](https://www.ismrm.org/19/program_files/Th03.htm) | **Member-Initiated Symposium *(no CME credit)*****Mapping BBB Permeability: From Contrast- to Noncontrast-Enhanced Imaging** | **Member-Initiated Symposium *(no CME credit)*****Bayesian Inference in MRI** |
| **Room 512A-H** | **Room 710A** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Novel Neuroimaging Techniques** | **Scien­tific Session****fMRI: Preclinical** | **Scien­tific Session****Single-Voxel MRS Techniques** | **Scien­tific Session****Fetal & Placental MRI** | **Scien­tific Session****Myocardial Function & Deformation** | **Scien­tific Session****Deep Learning: Acquisition, Uncertainty & Prediction** | **Scien­tific Session****Advances in MR Fingerprinting** |
| **Room 510A-D** | **Room 511BCEF** | **Room 513D-F** | **Room 516C-E** | **Room 518A-C** | **Room 520A-F** | **Room 710B** |

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| ***BREAK: 10:15 – 10:30*** |
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| **PLENARY SESSIONPlenary Hall - Room 517** |
| **10:30** | **Young Investigators Award Presentation** | **Lawrence L. Wald, Ph.D., 2019-2020 ISMRM President** |
| **Standardization in MRI: Why Is It So Challenging?Organizers: Mustafa Bashir & Qiyong Gong** |
| **10:45** | **Standardization of Machines & Acquisition Schemes** | **Mitchell D. Schnall, M.D., Ph.D.** |
| **11:05** | **Standardization of Data Formats & Post-Processing Methods** | **Vince D. Calhoun, Ph.D.** |
| **11:25** | **Standardization of Clinical Interpretations: Psychoradiology Perspective** | **Liesbeth Reneman, M.D., Ph.D.** |
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| **11:45** | **Special Session: Scientific Highlights of the ISMRM 27th Annual Meeting** |
| **12:15** | **Adjournment** |

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| ***LUNCH BREAK: 12:15 – 13:45*** |
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|  | **Silver Corporate Symposium**[**Canon Medical Systems Corporation**](https://www.ismrm.org/19/files/Canon.pdf)***(no CME credit)*12:30 – 13:30Plenary Hall - Room 517** |  |

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| **THURSDAY • AFTERNOON SESSIONS13:45 – 15:45** |
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| **Digital Poster Session *(no CME credit)*****Acquisition, Reconst. & Analysis;Contrast Mechanisms****Exhibition Hall** | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **MR in Radiation Therapy13:45-14:45** | **Placenta & Fetus13:45-14:45** |
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| **Educational Session**[**Breast MRI: Current Topics & Future Directions**](https://www.ismrm.org/19/program_files/Th04.htm) | **Combined Educational & Scientific Session****[Mapping the Complementary Roles of Myelin & Microstructure in White Matter](https://www.ismrm.org/19/program_files/Th05.htm)** | **Combined Educational & Scientific Session****[Reproducible Research: Quest for the Ground Truth](https://www.ismrm.org/19/program_files/Th06.htm)** | **Member-Initiated Symposium *(no CME credit)*****Combined Diffusion-Relaxometry Microstructure Imaging** | **Member-Initiated Symposium *(no CME credit)*****MRI/S Biomarkers of Toxicity** |
| **Room 512A-H** | **Room 516C-E** | **Room 710A** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Molecular & Metabolic Imaging** | **Scien­tific Session****Machine Learning & Post-Processing in MSK** | **Scien­tific Session****Experimental Models of CNS Disease** | **Scien­tific Session****Liver** | **Scien­tific Session****fMRI Acquisition Methods** | **Scien­tific Session****Multidimentional Signal Encoding & Decoding** |
| **Room 510A-D** | **Room 511BCEF** | **Room 513D-F** | **Room 518A-C** | **Room 520A-F** | **Room 710B** |

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| ***BREAK: 15:45 – 16:00*** |
| **THURSDAY • EVENING SESSIONS16:00 – 18:00** |
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|  | **Study Group Business MeetingsRoom 511A *(no CME credit)*** | **Study Group Business MeetingsRoom 511D *(no CME credit)*** |
| **Diffusion16:00-17:00** | **MR Engineering16:00-17:00** |
| **White Matter17:00-18:00** |  |

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| **Combined Educational & Scientific Session**[**Value of MRI**](https://www.ismrm.org/19/program_files/Th07.htm) | **Educational Session**[**MR Physics & Techniques for Clinicians**](https://www.ismrm.org/19/program_files/Th01.htm) | **Educational Session**[**Artifacts Game Show**](https://www.ismrm.org/19/program_files/Th08.htm) | **Member-Initiated Symposium *(no CME credit)*****Advances in Psychoradiology** | **Member-Initiated Symposium *(no CME credit)*****Targeting Alzheimer's Disease: Multiscale & Multimodal Imaging from Electrons to Neural Systems** |
| **Room 512A-H** | **Room 710A** | **Room 710B** | **Room 513A-C** | **Room 516AB** |

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| **Scien­tific Session****Quantitative Kidney Imaging** | **Scien­tific Session****Relaxometry: Measuring, Understanding & Using** | **Scien­tific Session****Preclinical Exploratory Body Methods** | **Scien­tific Session****Myocardial Perfusion** | **Scien­tific Session****Head & Neck** | **Scien­tific Session****Frontiers of Image Reconstruction** |
| **Room 510A-D** | **Room 511BCEF** | **Room 513D-F** | **Room 516C-E** | **Room 518A-C** | **Room 520A-F** |

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| ***BREAK: 18:00 – 18:15*** |
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| **CLOSING SESSIONPlenary Hall - Room 517** |
| **18:15** | **Closing Remarks** | **Lawrence L. Wald, Ph.D.** |
| **18:30** | **Mansfield LecturePredict – Then Act! Moving Towards Tailored Prevention** | **Christiane K. Kuhl, M.D., Ph.D.** |
| **19:15** | **Adjournment** |

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|  | **Closing Party19:30 – 22:00Level 2, Room 210** |  |

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| ***See you next year in Sydney!*** |