



# ASFNR21 Program

SUNDAY, SEPTEMBER 19

MONDAY, SEPTEMBER 20

TUESDAY, SEPTEMBER 21

8:00-8:10 Opening Remarks (Greg Zaharchuk, MD, PhD)

**DEMENTIA - 8:10-9:20AM**  
*Moderators: Mariam Aboian, MD, PhD | Anna V. Trofimova, MD, PhD*

- 8:10-8:25 A Biological Definition of Alzheimer Disease: NIA-AA Research Framework  
*Clifford Jack, MD*
- 8:25-8:40 PSP Imaging  
*Jennifer L. Whitwell, PhD*
- 8:40-8:55 Advanced Neuroimaging for Dementia in the Coming Age of Plasma Markers  
*Michael Weiner, MD*
- 8:55-9:10 Machine Learning to Understand Cognitive Decline  
*Ilya Nasrallah, MD, PhD*
- 9:10-9:20 Panel Discussion

**NEW TECHNOLOGIES - 9:20-10:15**  
*Moderators: Neelu Jain, MD | Elizabeth Tong, MD*

- 9:20-9:35 Carbon Nanotube CT Scanners  
*Yueh Z. Lee, MD, PhD*
- 9:35-9:50 Update on MEG and Comparison With Other Brain Mapping Methods  
*Roland R. Lee, MD, FACR*
- 9:50-10:05 EPI-Mix: Clinical Experience With 1 Minute Multicontrast MRI  
*Howard A. Rowley, MD*
- 10:05-10:15 Panel Discussion  
*\*ENTER SPEAKERS\**

10:15-10:30 Coffee with the Editor (feat. Jody Tanabe, MD)

**ORAL ABSTRACTS - 10:30-10:55AM**  
*Moderators: Pamela W. Schaefer, MD, FACR | Kaliopi Petropoulou, MD*

**AI INFORMATICS - 10:55-12:00 PM**  
*Moderators: Sam (Seyedmehdi) Payabvash, MD | Nathaniel Swinburne, MD | Alyssa T. Watanabe, MD*

- 10:55-11:10 Brain Tumors and AI  
*Jayashree Kalpathy-Cramer, PhD*
- 11:10-11:25 AI for Spine Imaging  
*Walter F. Wiggins, MD, PhD*
- 11:25-11:40 AI for Head and Neck Tumors  
*Nancy Pham, MD*
- 11:40-11:50 Emergency Radiology AI  
*Melissa A. Davis, MD, MBA*
- 11:50-12:00 Panel Discussion

**LUNCH & LEARN - 12:00-1:00PM**  
*sponsored by Biogen*

**AWARD LECTURES - 1:00-2:00 PM**  
*Moderators: Tina Young Poussaint, MD, FACR | Greg Zaharchuk, MD, PhD | Max Wintermark, MD*

- 1:00-1:15 Victor M. Houghton Honorary Lecture Quantitative Imaging in PET  
*Satoshi Minoshima, MD, PhD*
- 1:15-1:30 Identification of Somatomotor Network via Comparison of Language Task-Based fMRI (Sentence Completion) with Resting State fMRI in Patients with Brain Lesions  
*Elham Beheshtian, MD*
- 1:30-1:45 Ulmer Winner 2021 Announced (Jeremy Ford, MD)
- 1:45-2:00 Keynote Lecture - Quantitative Imaging in MRI  
*Bruce Rosen, MD, PhD*

**VASCULAR IMAGING - 2:00-3:00 PM**  
*Moderators: Jason W. Allen, MD, PhD | Mahmud Mossa-Basha, MD | Bhagya Sannanjanja, MD*

- 2:00-2:15 Carotid Imaging: Where We Are Now and Where We Are Headed  
*Luca Saba, MD*
- 2:15-2:30 Intracranial Aneurysms: The Value of Vessel Wall Imaging  
*Laura Eisenmenger, MD*
- 2:30-2:45 Intracranial Aneurysms: The Value of 4D Flow MR  
*Kambiz Nael, MD*
- 2:45-3:00 Why Should We Change our Current Vascular Clinical Imaging?  
*Jae W. Song, MD, MS*

3:00-3:15 Break

**HEAD & NECK - 3:15-4:15 PM**  
*Moderators: Suresh K. Mukherji, MD, MBA, FACR | Sohil H. Patel MD | Yi Li, MD*

- 3:15-3:30 DCE-MRI of Head & Neck Cancers  
*Xin (Cynthia) Wu, MD*
- 3:30-3:45 Imaging Oxygenation in Head and Neck Cancer  
*Yoshimi Anzai, MD, MPH*
- 3:45-4:00 Evaluation of the Brainstem and Auditory Pathways  
*Misia M. Yuhasz, MD/MHS*
- 4:00-4:15 Panel Discussion

**POWER POSTER PRESENTATIONS - 4:15-5:00 PM**  
*Moderators: Christopher G. Filippi, MD | Joshua Shimony, M*

**WELCOME RECEPTION & FELLOWS OF THE ASFNR CEREMONY - 5:00-7:00 PM**  
*ElDorado Hotel Poolside (outdoors)*

7:00-8:00 Mentor & Mingle Breakfast

**FMRI COMBINED SESSION - 8:00-9:30 AM**  
*Moderators: Behroze Vachha, MD, PhD | Michael Zeineh, MD, PhD*

- 8:00-8:15 Current and Future Roles of fMRI in Epilepsy  
*Erik H. Middlebrooks, MD*
- 8:15-8:30 fMRI in Pediatrics  
*Rupa Radhakrishnan MBBS, MS*
- 8:30-9:00 Oral Presentations
- 9:00-9:15 rs-fMRI Clinical Applications & Reproducibility  
*Vince Kumar, MD*
- 9:15-9:30 Panel Discussion
- 9:30-10:00 Coffee Break (ASFNR Business Meeting - Members Only)

**PERFUSION IMAGING - 10:00-11:00 AM**  
*Moderators: Sachin K. Gujar, MBBS, MD | Rajan Jain, MD*

- 10:00-10:15 Towards Perfusion Imaging as Quantitative Imaging Biomarkers  
*Ona Wu, PhD FAHA*
- 10:15-10:30 An Overview of ASL and IVIM in Stroke  
*Vivek Yedavalli, MD, MS*
- 10:30-10:45 DSC/DCE Perfusion Imaging  
*Michael Iv, MD*
- 10:45-11:00 Panel Discussion

**DATA SHARING - 11:00-12:00 PM**  
*Moderators: Daniel Barboriak, MD | Jalal B. Andre, MD*

- 11:00-11:15 Federated Learning  
*Spyros Bakas, MD*
- 11:15-11:30 How to use ADNI  
*Jeff Prescott, MD, PhD*
- 11:30-11:45 ENIGMA  
*Paul Thompson, PhD*
- 11:45-12:00 Panel Discussion

**LUNCH & LEARN - 12:00-1:00PM**  
*sponsored by Bracco*

**ASFNR PITCH SESSION - 1:00-2:00 PM**  
*Moderator: Greg Zaharchuk, MD, PhD*

**ORAL ABSTRACTS - 2:00-2:30 PM**  
*Moderators: Fernando E. Boada, PhD | Joseph A. Maldjian, MD*

**LOW FIELD/MID-FIELD/HIGH FIELD: WHERE IS THE FIELD GOING? - 2:30-3:30 PM**  
*Moderators: Timothy M. Shepherd, MD, PhD | Kirk M. Welker, MD, FASFNR | Gloria Chiang, MD*

- 2:30-2:45 Low Field  
*Joel M. Stein, MD, PhD*
- 2:45-3:00 Midfield: fMRI/Diffusion Denoising  
*Els Fieremans, PhD*
- 3:00-3:15 High-Field: 7T  
*Mark S. Shiroishi, MD, MS, FASFNR*
- 3:15-3:30 Panel Discussion  
*Bruce Rosen, MD, PhD*
- 3:30-4:00 Coffee with Future Presidents (feat. Greg Zaharchuk, MD, PhD & Chris Whitlow, MD, PhD)

**STROKE COMBINED - 4:00-5:30 PM**  
*Moderators: Michele Johnson, MD | Seon-Kyu Lee, MD, PhD | Kambiz Nael, MD*

- 4:00-4:15 Ischemic Core Imaging  
*Jeremy J. Heit, MD, PhD*
- 4:15-4:30 Collateral Flow Imaging  
*David S. Liebeskind, MD, FAAN, FAHA, FANA, FSVIN, FWSO*
- 4:30-5:00 Oral Presentations
- 5:00-5:15 Dual Energy Stroke Imaging  
*Rajiv Gupta, PhD, MD*
- 5:15-5:30 Panel Discussion

**STUDY GROUPS - 5:30-6:30 PM**

- Option 1: DTI/Perfusion Study Group  
*Jerrold L. Boxerman, MD, PhD | Rajan Jain, MD | Erik Middlebrooks, MD*
- Option 2: BOLD Study Group  
*Jason T. Little, MD | Kirk M. Welker, MD*
- Option 3: ASFNR/ASNR AI Study Group  
*Peter Chang, Christopher Filippi, MD | Greg Zaharchuk, MD*
- Option 4: Neuropsychiatric Imaging Study Group  
*Jody Tanabe, MD | John-Paul J. Yu, MD, PhD*
- Option 5: Pediatrics  
*Rupa Radhakrishnan, MBBS MS*

**DIVERSITY GALA | 6:30-7:30 PM**  
*ElDorado Hotel Presidential Patio*

7:00-8:00 Continental Breakfast & Technical Exhibits

**JAPAN PRESENTS - 8:00-9:00 AM**  
*Moderators: Toshinori Hirai, MD, PhD | Osamu Abe, MD, PhD | Takashi Yoshiura, MD, PhD*

- 8:00-8:15 Synthetic MRI for Multiple Sclerosis  
*Akifumi Hagiwara, MD*
- 8:15-8:30 Amide Proton Transfer Imaging for Brain Tumor  
*Osamu Togao, MD, PhD*
- 8:30-8:45 Quantitative Susceptibility Mapping for Carotid Plaque  
*Minako Azuma, MD, PhD*
- 8:45-9:00 Panel Discussion

**BRAIN TUMORS COMBINED - 9:00-10:30 AM**  
*Moderators: Javier Villanueva-Meyer, MD | Andrei I. Holodny, MD, PhD (hon), FACR, FASFNR*

- 9:00-9:15 MRS of Brain Tumors  
*Alicia Meng, MD*
- 9:15-9:30 DSC Imaging  
*Jerrold L. Boxerman, MD, PhD, FACR*
- 9:30-10:00 Oral Presentations
- 10:00-10:15 PET in Brain Tumors  
*Derek R. Johnson, MD*
- 10:15-10:30 Panel Discussion
- 10:30-11:00 Coffee with the Editor (feat. Christopher G. Filippi, MD)

**SPINE - 11:00-12:00 PM**  
*Moderators: Mauro Hanaoka, MD | Lawrence N. Tanenbaum MD FACR*

- 11:00-11:15 Perfusion Applications in Spine Oncologic Response  
*Majid Khan, MD*
- 11:15-11:30 DTI Characterization of Spinal Cord Injury  
*Mahmud Mossa-Basha, MD*
- 11:30-11:45 Advanced Methods for Evaluation of the Osseous Spine  
*Wende Gibbs, MD*
- 11:45-12:00 Panel Discussion

**LUNCH ON OWN - 12:00-1:00PM**

**PSYCHIATRIC IMAGING - 1:00-2:00 PM**  
*Moderators: Erin E. O'Connor, MD | Jody Tanabe, MD | John-Paul J. Yu, MD, PhD*

- 1:00-1:15 Anxiety and Alzheimer's Disease Progression  
*Maria V. Spampinato MD*
- 1:15-1:30 Effect of Prenatal Exposure to Substances on Neonatal Brain  
*Rupa Radhakrishnan MBBS, MS*
- 1:30-1:45 Update on the ABCD Study  
*Leo Sugrue, MD, PhD*
- 1:45-2:00 Panel Discussion

**PEDIATRIC IMAGING - 2:00-3:00 PM**  
*Moderators: Jeffrey Berman, PhD | Tim Roberts, PhD, FASFNR | Arastoo Vossough, PhD, MD*

- 2:00-2:15 Challenges of Scanning Children: Patient and Technical Factors  
*Sean Deoni, PhD*
- 2:15-2:30 Patterns and Maturation of Language fMRI in Children  
*Mary Pat McAndrews, PhD, C.Psych.*
- 2:30-2:45 Consideration of Age in Advanced Pediatric Image Processing and Prediction  
*Minhui Ouyang, PhD*
- 2:45-3:00 Panel Discussion

3:00-3:30 Break

**ORAL ABSTRACTS - 3:30-4:00 PM**  
*Moderators: Ian Mark, MD | Christopher T. Whitlow, MD, PhD*

**AI IN REAL LIFE - 4:00-5:00 PM**  
*Moderators: Seena Dehkharghani, MD | Jalal B. Andre, MD | Ona Wu, PhD FAHA*

- 4:00-4:15 Cervical Spine Fracture and Hemorrhage Detection  
*Ichiro Ikuta, MD, MMSc*
- 4:15-4:30 LVO Detection and Triage  
*Robert L. Dodd, MD PhD*
- 4:30-4:45 AI to Accelerate MRI  
*Amish Doshi, MD*
- 4:45-5:00 Panel Discussion

**THE HORIZON - 5:00-6:00 PM**  
*Moderator: Jennifer Soun, MD*

- 5:00-5:15 Glymphatics  
*Donna R. Roberts, MD*
- 5:15-5:30 Advances in Rapid Quantitative MRI  
*Kavin Setsompop, PhD*
- 5:30-5:45 AI for Neuroradiologic Diagnosis  
*Andreas Rauschecker, MD PhD*
- 5:45-6:00 Panel Discussion