

At-a-Glance

Translation of Ultra-High-Field MRI Innovations into Broadly Applicable Clinical Solutions

Quick Info

- Host: University of North Carolina at Chapel Hill
- Venue: Kirkland Auditorium, Koury Oral Health Sciences Building
- Theme: Translating 7T MRI innovations into clinical solutions
- Includes Scientific Sessions, panel discussion, power pitches, industry forum, facility tour, and dinner

Power Pitches

- **Paul S. Jacobs, PhD — University of Pennsylvania**
Increased GluCEST Contrast in Paramagnetic Rim Lesions in Multiple Sclerosis Patients at 7T
- **Pallab K. Bhattacharyya, PhD — Cleveland Clinic**
Very Preliminary Findings of 2HG MRS in Tumor Using Long-TE sLASER at 7T — A Follow-up to Diagnostic Consensus of GliomaRSNET
- **Doug Kelley, PhD — Stanford University**
Siemens Impulse Head Gradient Coil performance in a 7T System
- **Madison Chiu, PhD — Icahn School of Medicine at Mount Sinai**
Small Cerebral Veins and Microbleeds in Alzheimer's Disease with 7T QSM
- **Xinqiang Yan, PhD — Vanderbilt University Medical Center**
Over-coupled wireless resonators
- **Mualla Yazici, PhD — Icahn School of Medicine at Mount Sinai**
Sodium MRI as a Biomarker of Metabolic Dysfunction in Alzheimer's Disease
- **Aditya Jhajharia, PhD — University of California, San Francisco**
Quantitative Skin Sodium Assessment with ^{23}Na MRI at 7T
- **Eva Martinez Luque, PhD — Georgia Institute of Technology & Emory University**
fMRS During an Overt Verbal Fluency Task at 7T
- **Sithmi Jayasundara — Carle Illinois College of Medicine**
7T MRA for Cerebral Aneurysm Versus Infundibulum
- **Abdul Wahed Kajabi, PhD — University of Minnesota**
Single-Channel and Eight-Channel Transmit Knee Coils for 7T MRI

7T TANA 2026

7T Translational Alliance of North America

Translation of Ultra-High-Field MRI Innovations into Broadly Applicable Clinical Solutions

Monday, July 27, 2026

Kirkland Auditorium • UNC Chapel Hill

385 S. Columbia St., Koury Oral Health Sciences Building, UNC Adams School of Dentistry

Welcome Remarks

Blossom Damania, PhD — UNC School of Medicine

Keynote

Kâmil Uğurbil, PhD — University of Minnesota

Leading the Field: The Transformative Power of UHF MRI

Keynote

Stephen Jones, MD, PhD — Cleveland Clinic

From Ultrahigh Field to Clinical Insight: Advancing Neuroimaging with 7T MRI



Morning Program

- 7:30–8:00 AM** Registration, Continental Breakfast & Networking
8:00–8:10 AM **Welcome — Blossom Damania, PhD — UNC School of Medicine**
8:10–8:30 AM **Keynote — Kâmil Uğurbil, PhD — University of Minnesota**
Leading the Field: The Transformative Power of UHF MRI
8:30–8:50 AM **Keynote — Stephen Jones, MD, PhD — Cleveland Clinic**
From Ultrahigh Field to Clinical Insight: Advancing Neuroimaging with 7T MRI
8:50–9:50 AM **Session I — Clinical Translation of 7T MRI: From Implementation to Patient Care**
 - Mai-Lan Ho, MD — University of Missouri
Clinical 7T: Practical Tips for Implementation and Accreditation
 - Girish Gandikota, MD — University of North Carolina
From 3T Limitations to 7T Opportunities in Musculoskeletal MRI
 - Erik Middlebrooks, MD — Mayo Clinic
From Boutique to Bedside: The Next Era of 7T Brain MRI
 - Doksu Moon, PhD — Cleveland Clinic
*7T QSM and Chi-Separation Maps for VIM Targeting in HiFU and 7T Distal Dural Ring Evaluation***9:50–10:05 AM** **Coffee Break**
10:05–11:05 AM **Session II — Technologies for the Next Generation of Clinical 7T MRI**
 - Bruce M. Damon, PhD — Carle Health and University of Illinois at Urbana-Champaign
Translating Ultrahigh-Field MRI Research into Clinical Practice: Our Approach at CI AIC
 - Ravi Menon, PhD — Western University
EEG-fMRI at 7T. Localizing seizure foci using interictal spike-driven SASS
 - Danny Wang, PhD — University of Southern California
*Applications of 7T ASL Perfusion MRI***11:05–11:20 AM** **Break**
11:20–11:50 AM **Session II continued**
 - Ali Ozen, PhD — University of Freiburg
Light Coils: Fully Optical Data and Power Transmission in MRI
 - Greg Metzger, PhD — University of Minnesota
7T Abdominal Imaging — Opportunities and Translation Pathways
 - Bei Zhang, PhD — UT Southwestern Medical Center
*Multi-site RF coil development for imaging the human cerebellum integrated into the CNS at 7T***11:50 AM–12:45 PM** Networking Lunch



Afternoon & Evening Program

- 12:45–1:15 PM** **Strategic White Paper Panel — Barbara K. Marebwa, PhD — Michael J. Fox Foundation**
Duan Xu, PhD — University of California, San Francisco
Stephen G. Lisberger, PhD — Duke University and Raynor Cerebellum Project
What should the 2026 7T TANA White Paper accomplish?
1:15–2:00 PM **Session III — Clinical Applications & Functional Neuroimaging**
 - Vibhor Krishna, MD — University of North Carolina
Advancing Functional Neurosurgery with MRI-Guided Focused Ultrasound
 - Noam Harel, PhD — University of Minnesota
7T MRI for DBS Planning: Imaging Innovations with Immediate Clinical Relevance
 - Can Ozutemiz, MD — University of Minnesota
*Cerebral Amyloid Angiopathy and ARIA Scoring at 7T MRI***Coffee Break**
2:00–2:10 PM **Session III continued**
 - Ian Shih, PhD — University of North Carolina
SORDINO for Silent, Sensitive, Specific, and Artifact-Resisting fMRI in awake behaving mice
 - Valerie Klein, PhD — Harvard Medical School
Modeling and Mitigating Stimulation Constraints in MRI: Unlocking Speed, Quality, and Safe Translation
 - Anna Roe, PhD — New York University School of Medicine,
*Imaging brainwide columnar networks in vivo reveals alternative strategy for efficient intelligence***2:10–2:45 PM**
2:45–3:30 PM **Session IV — Biomarkers & Quantitative Imaging**
 - Ravinder Reddy, PhD — University of Pennsylvania
7T CEST From Method to Translation
 - Yan Li, PhD — University of California, San Francisco
From 3T to 7T: Clinical Opportunities for Molecular Imaging with UHF MRSI
 - Kawin Setsompop, PhD — Stanford University
*Advancing MRF for Next-Generation 7T: From Technical Breakthrough to Deployable Quantitative Imaging***3:35–3:45 PM** **Break**
3:45–4:45 PM **Session V / Power Pitch**
See Power Pitches panel
4:45–5:45 PM **Session VI / Industry Innovation Forum**
 Siemens Healthineers
 GE Healthcare
 Bruker
 RAPID Biomedical
 NVision Imaging Technologies
 Skope MRI Technologies
5:45–6:20 PM **BRIC Facility Tour**
Human imaging, HIFU/LIFU, small animal imaging, molecular imaging, neuroimaging, translation, and data science infrastructure
6:30 PM Dinner & Networking