

XXVIII Annual Symposium & Training

Venue: T. Boone Pickens Biomedical Building Auditorium,
NG 3.112, 6001 Forest Park Rd, Dallas, TX 75235

UTSouthwestern
Medical Center

Advanced Imaging Research Center

Tuesday, 04 June 2024

- 08:00am **Breakfast**
- 08:30am Anke Henning, Ph.D., UTSW
Welcome & Introduction
- PET/MRI
- 08:45am Georges El Fakhri, Ph.D., Yale University
PET/MR Molecular Imaging: From Technology to Pathophysiology
- 09:20am Fernando Boada, Ph.D., Stanford University
MR/PET Opportunities for Improving Workflow, Accuracy and Sensitivity
- 09:55am Greg Zaharchuk, M.D., Ph.D., Stanford University
PET/MRI > PET + MRI: How to Use Both Modalities to Improve Patient Care
- 10:30am **Break**
- 10:45am Martin Pomper, M.D., Ph.D., UTSW
Theranostics: Journey and Outlook
- 11:20am **Proffered Oral Presentations (1-4)**
- 12:10pm **Lunch and Facility Tour**
- Pre-Clinical MRI
- 01:40pm Nian Wang, Ph.D., UTSW
Brain Connectivity and Microstructure by High-resolution MRI
- 02:15pm Natalie Serkova, Ph.D., University of Colorado
High-Resolution MRI and Cell Size Imaging for Treatment Planning in Pediatric Brain Tumor Models
- 02:50pm **Break**
- 03:05pm **Power pitches (1-3)**
- NMR Metabolomics with labelled isotopes
- 03:20pm Shawn Burgess, Ph.D., UTSW
Bioalchemy and a Tax Collector's Approach to Metabolism
- 03:55pm Eunsook Jin, Ph.D., UTSW
Exploring Metabolic Dysregulation using ¹³C NMR in Clinical Research
- 04:30pm **Poster Session and Reception**



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- 08:00am **Breakfast**
- Human Ultra-High Field MRI/Neuroimaging
- 08:30am Danny Wang, Ph.D., University of Southern California
High Resolution Neurovascular Imaging at 7T
- 09:05am Hanzhang Lu, Ph.D., Johns Hopkins University
Non-Contrast MR Imaging of Blood-Brain Barrier Permeability to Water
- 09:40am Anke Henning, Ph.D., UTSW
Ultra-High Field Structural and Metabolic MRI of the Human Brain at 7T and 9.4T
- 10:15am **Break**
- 10:30am Luca Vizioli, Ph.D., University of Minnesota
What Can We Learn About the Human Brain Using High Field fMRI?
- 11:05am **Power pitches (4-6)**
- 11:20am **Proffered Oral Presentations (5-8)**
- 12:10pm **Lunch**
- Pre-Clinical fMRI
- 01:10pm Shella Keilholz, Ph.D., Emory University and Georgia Institute of Technology
The Organization of Intrinsic Brain Activity
- 01:45pm Nan Li, Ph.D., UTSW
Genetically Targeted MRI by Manipulating Hemodynamics
- 02:30pm **Break**
- Hyperpolarized Magnetic Resonance for In-vivo Imaging
- 02:45pm Stefan Gloeggler, Ph.D., Max Planck Institute
New Magnetic Resonance Tools to Investigate Metabolism
- 03:20pm Jae Mo Park, Ph.D., UTSW
Unveiling Aberrant Enzyme Activities in Patients Within a Minute – Focus on Cardiac and Liver Metabolism
- 03:55pm **Poster Awards**
- 04:30pm **Adjourn**

