

XXVIII Annual Symposium & Training

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

Tuesday, 04 June 2024

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| 08:00am | Breakfast |
| 08:30am | Anke Henning, Ph.D., UTSW Welcome & Introduction |
| | <u>PET/MRI</u> |
| 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 |
| | <u>Pre-Clinical MRI</u> |
| 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) |
| | <u>NMR Metabolomics with labelled isotopes</u> |
| 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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Wednesday, 05 June 2024

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| 08:00am | Breakfast |
| | <u>Human Ultra-high field MRI/Neuroimaging</u> |
| 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 |
| | <u>Pre-Clinical fMRI</u> |
| 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 |
| | <u>Hyperpolarized Magnetic Resonance for In-vivo Imaging</u> |
| 02:45pm | Stefan Gloggler, Ph.D., Max Planck Institute New magnetic resonance tools to investigate metabolism |
| 03:20pm | Jae Mo Park, Ph.D., UTSW Imaging OXPHOS and Gluconeogenesis using Dissolution DNP |
| 03:55pm | Poster Awards |
| 04:30pm | Adjourn |