



Saturday July 23			
	4:00 pm		Registration Opens
			Keynote Lecture
Daldrup-Link, Heike	5:00 pm	6:00 pm	Monitoring Cancer Immunotherapy with Molecular MRI
	6:00 pm	8:00 pm	Welcome Reception
Sunday July 24			
Session 1			Responsive Probes #1 Moderators: Janet Morrow, Tian Duo Wang
Meade, Thomas	8:30 am	9:00	<i>Invited talk: In Vivo Validation of Gene Expression and Tumor Resistance by MR Imaging</i>
Ohiendorf, Robert	9:00	9:15	Molecular brain imaging with engineered hemodynamics
Ning, Yingying	9:15	9:30	Molecular MRI for early detection of disease activity in liver fibrosis and response to treatment
Bearer, Elaine	9:30	9:45	Imaging molecular functions in the brain with MR contrast agents
Martins, Andre	9:45	10:00	Manganese-based blood pool T1 contrast-agent from a single pot template reaction
Session 2			Imaging Metabolism Moderators: Mike McMahon, Bonnie Lam
Clavijo-Jordan, Veronica	10:30 am	11:00	<i>Invited talk: Imaging the Tumor Microenvironment by Multi-probe Molecular MRI</i>
Choffart, Anais	11:00	11:15	Hybrid visualization of cancer acidosis by non-invasive shift/acidoCEST MRI: The S2WTP3 vs. ML1B1B1 invasion quest
Hesse, Friederike	11:15	11:30	Imaging response to chemo-radiotherapy in glioblastoma tumour models using deuterium metabolic imaging
Vuozzo, Marta	11:30	11:45	Multiparametric MRI for tissue classification of subcutaneous MC38 colon cancer using oxygen enhanced, dynamic contrast enhancement (DCE) MRI and [18F]FAZA PET
Suh, Eul Hyun	11:45	12:00	Non-invasive Imaging of β -Cell Function in the Rat Pancreas by use of a Zinc-Responsive MRI Contrast Agent
	12:00 pm	1:00 pm	Lunch
Session 3			Hyperpolarized MRI #1 Moderators: Peter Caravan, Marta Vuozzo
Branca, Rosa Tamara	1:00 pm	1:30	<i>Invited talk: Sensing the Heat with Spin Polarized Xe</i>
Chekmenev, Eduard	1:30	1:45	Next-generation Clinical-scale Instrumentation for Parahydrogen-Induced Polarization
Chia, Ming Li	1:45	2:00	Metabolic Signatures in High Grade Serous Ovarian Cancer (HGSOC)
Lumata, Lloyd	2:00	2:15	Feasibility and Challenges of In Vivo Hyperpolarized Imaging of MR Biosensors with Ultra-Low Gamma Nuclei
Session 4			Heteronuclear & CEST Moderators: Eric Ahrens, Jeff Gaudet
McMahon, Mike	2:30 pm	3:00	<i>Invited talk: The Advantages of Exogenous CEST Contrast Agents for Renal Imaging</i>
Kras, Elizabeth	3:00	3:15	Fe(III) TACN-based Macrocycles with Various Pendant Donor Groups as MRI Probes
Sehl, Olivia	3:15	3:30	Imaging immune cells with fluorine-19 MRI
	3:30 pm	5:00	Poster Session #1
	5:00 pm	6:00 pm	Discussion Panel #1

Monday July 25			
Session 5			CEST (responsive probes) Moderators: Christian Farrar, Behnaz Ghaemi
Bar-Shir, Amnon	8:30 am	9:00	<i>Invited talk: Computationally Designed Multicolored-MRI Reporter Genes</i>
Chiapparelli, Remy	9:00	9:15	Extracellular Lactate Imaging with a New Generation of Lanthanide-based Shift Reagents and CEST MRI
Ghaemi, Behnaz	9:15	9:30	Developing CESTheranostics by Enzyme-Mediated Intracellular Self-Assembly of Nanoparticles for Enhanced Imaging and Therapy of Prostate Cancer
Session 6			Nanomaterials #1 Moderators: Eric Gale, Roy Cineus
Kikuchi, Kazuya	10:30 am	11:00	<i>Invited talk: Nano-particle Based 19F MRI Contrast Agent with Tunable Chemical Switches</i>
Barbic, Mladen	11:00	11:15	High-Contrast-Ratio Tunable and Switchable MRI Labels using Magnetocaloric Materials
Wu, Wei	11:15	11:30	Molecular MRI can detect accumulation of CAR T-cells in GBM
Basilion, James	11:30	11:45	Targeted Radiosensitizers for MR-Guided Radiation Therapy of Prostate Cancer
Huang, Ching-Hsin	11:45	12:00	Cathepsin-Responsive Theranostic Nanoparticles for Image-Guided Glioblastoma Inhibition
	12:00 pm	1:00 pm	Lunch
Session 7			Reporter Genes Moderators: Francesca Reineri, Anais Choffart
Mukherjee, Arnab	1:00 pm	1:30	<i>Invited talk: Engineering Diffusion-based MRI Rporters with Low (or no) Background</i>
Farrar, Christian	1:30	1:45	Optimization of CEST reporter genes with a genetic programming Protein Optimization Evolving Tool
McRae, Sean	1:45	2:00	The development of novel OATP1-targeted manganese-based MRI contrast agents
Wang, TianDuo	2:00	2:15	Using synthetic notch to visualize cell-cell communication in vivo with magnetic resonance imaging
Toth, Eva	2:15	2:30	Mn2+-bispidines: a novel platform for Mn2+-based MRI agents
Session 8			Hyperpolarized MRI #2. Moderators: Yingying Ning, Maria Rosario Ruggiero
Theis, Thomas	2:30 pm	3:00	<i>Invited talk: Parahydrogen Induced Polarization for Precision Measurement and Molecular Imaging</i>
Reineri, Francesca	3:00	3:15	Towards fully biocompatible PHIP polarized pyruvate for in-vivo metabolic investigations
Wang, Cuihua	3:15	3:30	Development of an MRI agent to detect CD206 and M2-like macrophages
	3:30 pm	5:00	Poster Session #2
	5:00 pm	6:00 pm	Discussion Panel #2
Tuesday July 26			
Session 9			Responsive Probes #2 Moderators: Aoki Ichio, Laura Huang
Yang, Jenny	8:30	9:00	<i>Invited talk: Key Molecular Determinants for Chronic Diseases</i>
Bonnet, Celia	9:00	9:15	Zinc detection by MRI using a lanthanide complex-zinc finger peptide conjugate
Gale, Eric	9:15	9:30	Precision Magnetic Resonance Imaging of Kidney Inflammation
Goldsmith, Christian	9:30	9:45	The development of highly water-stable MRI contrast agent sensors for hydrogen peroxide
Morrow, Janet	9:45	10:00	Redox-responsive transition metal MRI probes: from liposomes to small molecules
Session 10			Nanomaterials #2 Moderators: Jeff Bulte, Olivia Sehl
Ahrens, Erik	10:30 am	11:00	<i>Invited talk: Multimodal Imaging Using Functionalized Fluorocarbon Nanoemulsions</i>
Shakeri-Zedah, Ali	11:00	11:15	MPI/MRI of cerebral homing of SPIO-labeled stem cells after intra-arterial injection
Sokolow, Gregory	11:15	11:30	Exploring the use of Iron(III) Metal-Organic Polyhedra as Magnetic Resonance Imaging Contrast Agents for Murine Tumor Models
Wang, Chao	11:30	11:45	All-in-one superparamagnetic radiopaque nanocomplex for in vivo MRI, MPI, and CT stem cell tracking
Li, Dongjun	11:45	12:00	Novel Collagen-targeted Protein MRI Contrast Agent for Noninvasive Detection of Fibrosis and Cancer
	12:00 pm	1:00 pm	Lunch

Session 11			Responsive Probes #3 Moderators: <i>Eva Toth, Thomas Price</i>
Bartelle, Benjamin	1:00 pm	1:15	Molecular Tools to Resolve Neuroimmune Signaling with MRI
Ma, Hua	1:15	1:30	Mn(II)-based allysine-targeted molecular MR probes for imaging pulmonary fibrogenesis
Gui, Zongxiang	1:30	1:45	Non-invasive Mapping of molecular determinants for Liver cancer and metastatic aggressiveness by Precision MRI (pMRI)
Kuddanaya, Shreyas	1:45	2:00	Monitoring Scaffolded Glial-Restricted Progenitor Cell Survival and Hydrogel Degradation in the CNS of ALS mice
PANEL DISCUSSION	2:00	3:30	The Future of Molecular MR