

STUDY GROUP SESSION

Title: Interventional MR

Day: Tuesday, 10 May 2016

Time: 13:30-15:30

Room #: Hall 406 D

Study Group Chair, Ergin Atalar, Ph.D.; Vice Chair, David A. Woodrum, M.D., Ph.D.; Secretary, Eugene Kholmovski, Ph.D.;

Committee: Trainee Representative, Andrew D. Nicholson, M.D.; Past Chair, Clifford R. Weiss, M.D.

2016-2017 Incoming Committee: Secretary, Clare Tempny-Afdhal, M.D.; Trainee Representative, Thiele Kobus, Ph.D.

13:30	Introduction - Welcome & Business Meeting	Interventional MR Committee
13:35	Student Abstract Oral Presentations	
	<i>In Vivo Monitoring of Percutaneous Thermal Ablation by Simultaneous MR Elastography & Thermometry</i>	Nadège Corbin, Ph.D. ICube, CNRS-University of Strasbourg, France
	<i>Simultaneous Acquisition of Acoustic Radiation Force Imaging & Proton Resonance Frequency Shift Thermometry Using Interleaved Acquisition with Temporally Constrained Reconstruction for Increased Temporal Resolution</i>	Joshua T. de Bever, Ph.D. Stanford University, USA
	<i>Efficient Volumetric Thermometry for MR-Guided FUS Brain Treatment Monitoring, Using Multiple-Echo Spirals and Mixed Update Rates</i>	Michael E. Marx, Ph.D. Stanford University, USA
	<i>Motion Compensation using Principal Component Analysis & Projection onto Dipole Fields for Abdominal Magnetic Resonance Thermometry During High-Intensity Focused Ultrasound</i>	Jeremy Tan, B.Sc. University of Toronto, Canada
	<i>In-Vivo Echo-Navigated MR Thermometry for Real-Time Monitoring of Cardiac Radiofrequency Ablation</i>	Solenn Toupin, M.Sc. IHU-LIRYC-PTIB Hospital X. Arnozan, France
	<i>Dual Echo Z-Shimmed Sequence for PRF-Shift MR Thermometry Near Metallic Ablation Probes</i>	Yuxin Zhang Tsinghua University, China
14:35	Traditional & Electronic Poster Session	
15:20	Award Ceremony & Closing Remarks	Ergin Atalar, Ph.D. Bilkent University UMRAM, Turkey
15:30	Adjournment	
	Electronic Poster Presenters	
	<i>Magnetic Resonance-Guided Focused Ultrasound Treatment of Extra-Abdominal Desmoid Tumors: A Retrospective Multicenter Study</i>	Pejman Ghanouni, M.D., Ph.D. Stanford University, USA
	<i>Treatment of Small Vascular Malformations using MR Guided High Intensity Focused Ultrasound: Preliminary Results After Four Patients</i>	Pejman Ghanouni, M.D., Ph.D. Stanford University, USA
	<i>Preclinical Study of MRgFUS Ablation of the Lumbar Medial Branch Nerve: Functional Outcomes & Histology</i>	Elena A. Kaye, Ph.D. Memorial Sloan Kettering Cancer Center, USA
	<i>Multi-Contrast Late Enhancement Out-Performs Conventional Late Gadolinium Enhancement for Myocardial RFA Lesion Characterization</i>	Philippa Krahn, M.Sc. Sunnybrook Health Sciences Centre, Canada
	<i>Preliminary Evaluation of R₂*-Based Temperature Mapping for Predicting the Kill Zone in MRI-Guided Renal Cryoablation</i>	Junichi Tokuda, Ph.D. Brigham and Women's Hospital, USA
	<i>Accurate MR Thermometry by Hyperpolarized ¹²⁹Xe</i>	Le Zhang, B.Sc. University of North Carolina, USA
	Traditional Poster Presenters	
	<i>Evaluation of the Effect of Trajectory Correction with Radial Sampling on Temperature Imaging</i>	Tongxin Chen, B.A. Tsinghua University, China
	<i>A Hybrid Model Integrated with Correction of Susceptibility Induced Phase Error in Magnetic Resonance Thermometry</i>	Kexin Deng, B.A. Tsinghua University, China
	<i>Rapid HIFU Refocusing Based on MR-ARFI</i>	Steven Engler Thunder Bay Regional Research Institute. Canada
	<i>3D UTE MR thermometry of Frozen Tissue: Feasibility & Accuracy During Cryoablation at 3T</i>	Christiaan G. Overduin, M.Sc. Radboud University, The Netherlands
	<i>MR-Shear Wave Elasticity Imaging (SWEI) with Bipolar Motion-Encoding Gradients</i>	Yuan Zheng, Ph.D. Stanford University, USA