STUDY GROUP SESSION

Renal MRI at Ultrahigh Fields

Contrast Deposition Within the Dentate Nucleus After Repetitive Administration:

Comparison of Linear versus Macrocyclic Gadolinium Contrast Agents

Title: High Field Systems & Applications and MR Safety Joint Session

Day: Monday, 24 April 2017

Time: 13:45 - 15:45 **Room #:** Rm 323ABC

High Field Chair, Peter R. Luijten, Ph.D.; Vice Chair, Thoralf Niendorf, Ph.D.; Secretary, Anke Henning, Ph.D.; Past-Chair, Mark E. Ladd, Ph.D.;

Study Group Trainee Representative, Katharina Paul, Ph. D.; SMRT Representative, Wendy Strugnell, B.App.Sc.(MIT)

Committee: 2017-2018 Incoming Committee: Secretary, Gregory J. Metzger, Ph.D.; Trainee Representative, Aurelien Massire, Ph.D.;

SMRT Representative, Titti Owman, (R)(CT)(MR)FSMRT

MR Safety Chair, Lawrence L. Wald, Ph.D.; Vice Chair, Cornelius A. T. van den Berg, Ph.D.; Secretary, Ross D. Venook, Ph.D.;

Study Group Past-Chair, Devashish Shrivastava, Ph.D.; Trainee Representative, Oliver Kraff, Ph.D.; SMRT Representative, Titti Owman, (R)(CT)(MR), FSMRT

Committee: 2017-2018 Incoming Committee: Secretary, Christopher M. Collins, Ph.D.; Trainee Representative, Wyger M. Brink, Ph.D.

13:45	Business Meeting: High Field Study Group	Peter R. Luijten, Ph.D. University Medical Center Utrecht, The Netherlands
13:50	Business Meeting: MR Safety Study Group	Lawrence L. Wald, Ph.D. A.A. Martinos Center MGH, USA
	In Memoriam	, t., t. Martinos center Mari, os, t
13:55	In Memoriam Graham Wiggins	Daniel K. Sodickson, M.D., Ph.D. New York University School of Medicine, USA
	Plenary Session	,
14:05	UHF & Biological Hazards	Oliver Speck, Ph.D. Otto-von-Guericke-University Magdeburg, Germany
14:20	How To Get An UHF Project Up & Running	Gregory J. Metzger, Ph.D. University of Minnesota, USA
	Rapid-Fire Poster Presentations	
14:35	Towards Opto-fMRS: Ultra High Field MRS Measurement of T2* Changes Due to Optogenetic Stimulation	Jamie P. Near, Ph.D. McGill University, Canada
	Longitudinal Study of MS lesions using Multi-contrast Ultra-High Field (7Tesla) MRI	Sanjeev Chawla, Ph.D. University of Pennsylvania, USA
	From Medulla to Lower Cervical Levels, a Multi-Parametric Quantitative MR Investigation Dedicated to the Diffuse Alterations of the Spinal Cord at 7T: First Insights into Amyotrophic Lateral Sclerosis	Aurélien Massire, Ph.D. CRMBM UMR 7339 CNRS, France
	Unified Proton & Fluorine Imaging of Small & Low Spin Density Samples at a Human Whole-Body 7 T MRI	Christian Bruns, Dipl. Phys. Otto-von-Guericke University, Germany
	Utilization of Slotted Antennas for Capturing Ideal Current Patterns at Ultra High Field	Leeor Alon, Ph.D. New York University School of Medicine, USA
	Human Brain Tissue Equivalent MRI Phantom for Well Defined T $_1$ & T $_2$ Times At 3 & 7 Tesla	Michael Woletz, M.Sc. Medical University Vienna, Austria
	Ultra High Field Regional Quantitative Susceptibility Mapping in Patients with Relapsing-Remitting Multiple Sclerosis: A Pilot Study	Jon O. Cleary, M.D., Ph.D. University of Melbourne, Australia
	Flexible & Compact Hybrid Metasurfaces for Enhanced Ultra High Field In Vivo Magnetic Resonance Imaging	Rita Schmidt, Ph.D. Leiden University Medical Center (LUMC), The Netherlands
	Diffusion-Weighted Split-Echo RARE Imaging Free of Geometric Distortion for	Joao dos Santos Periquito, M.Sc.

Max Delbrueck Center for Molecular Medicine, Germany

University of California at San Francisco, USA

Eugene Huo, M.D.

In Vivo Measurements of Gadolinium Accumulation in Bone of Healthy Individuals Michelle Lord, B.Sc. Following Administration of Gadolinium-Based Contrast agents: A Pilot Study McMaster University, Canada Comparison of Gd-DTPA-BMA versus Gd-DOTA of Gadolinium Retention in Human Takaki Maeda, M.D. Bone Tissue with Renal Function Kobe University Hospital, Japan Real-Time Measuring of Active Medical Devices Malfunction, Rectification & Thérèse Barbier, M.Sc. Induced Gradient Voltages During MRI Exam: Low-Frequency Voltage Sensor for IADI, U947, INSERM, Université de Lorraine, France MRI Safety Test A Personalized SAR Model for Subject-Specific RF Safety Hongbae Jeong, M.Sc. FMRIB Centre, University of Oxford, UK The Ultimate Local SAR in Realistic Body Models: Preliminary Convergence Bastien Guerin, Ph.D. Results Massachusetts General Hospital, USA Morphing & Posing of Computational Anatomical Models: Enhanced Patient-Manuel Murbach, Ph.D. Specific MRI RF Exposure Prediction IT'IS Foundation, Switzerland Assessment of Specific Absorption Rate & Energy Deposition in Over 14,000 Amir Ali Rahsepar, M.D. Clinical MRI Examination at 1.5 & 3 Tesla Scanners Northwestern University, USA RF Safety Assessment of a 32-Channel Integrated Body Coil for 7 Tesla: Thermal Thomas M. Fiedler, M.Sc. Dose Evaluation at High SAR Level German Cancer Research Center (DKFZ), Germany Low Heating B₁ Mapping in Parallel Transmit for Deep Brain Stimulators Clare E. McElcheran, Ph.D. Sunnybrook Health Sciences Centre 15:15 Cap On/Cap Off: What Do You Know about UHF and/or Safety Cornelis A.T. van den Berg, Ph.D. University Medical Center Utrecht, The Netherlands 15:45 Adjournment