

STUDY GROUP SESSION

Title: Hyperpolarisation Methods & Equipment

Day: Monday, 24 April 2017

Time: 08:15-10:15

Room #: Rm 323ABC

Study Group Chair, Pratip K. Bhattacharya, Ph.D.; Vice-Chair, Jan-Bernd Hövener, Ph.D.; Secretary, Thomas Theis, Ph.D.;

Committee: Past Chair, Shawn R. Wagner, Ph.D.; Trainee Representative, James T. Grist, B.Sc.

2017-2018 Incoming Committee : Secretary, Leif Schröder, Dr. rer. nat.; Trainee Representative, Peter Shin, Ph.D.

Overview: The program this year will focus on providing education in advancements made in hyperpolarization methods by trainee members. Presentations will provide an insight into emerging techniques as well as applications of hyperpolarized Magnetic Resonance to detect and characterize disease.

8:15	Introduction - Welcome	Pratip K. Bhattacharya, Ph.D. UT MD Anderson Cancer Center, USA
8:18	Business Meeting	Thomas Theis, Ph.D. Duke University, USA
8:21	SABRE & PHIP Hyperpolarization of Contrast Agents for Molecular Imaging	Eduard Y. Chekmenev, Ph.D. Vanderbilt University, USA
8:42	Introduction of Student Talks	Jan-Bernd Hövener, Ph.D. University Medical Center of Freiburg, Germany
Invited Student Presenters		
8:45	<i>Long-Lasting, Liquid-State ^{13}C Hyperpolarization Generated in an MRI System Within Seconds Enables Fast ^{13}C Imaging</i>	Andreas B. Schmidt, Dipl.Phys. University Medical Center, Germany
8:53	<i>Large-Scale Production of Highly-Polarized ^{129}Xe</i>	Graham Norquay, Ph.D. University of Sheffield, UK
9:01	<i>Chemical Shift Imaging of pH with Hyperpolarized [$^{2-13}\text{C},\text{D}10$] Diethylmalonic Acid</i>	David E. Korenchan, B.Sc. University of California at San Francisco, USA
9:09	<i>Unique Molecular Signatures to Distinguish Immunotherapy Responding & Resistant Cell Lines in Melanoma by NMR Spectroscopy & MR Hyperpolarization</i>	Shivanand Pudukalakatti, Ph.D. UT MD Anderson Cancer Center, USA
9:17	<i>Towards Quantitative Cardiac First-Pass Perfusion Imaging Using Hyperpolarized [^{13}C]-Urea</i>	Maximilian Fuetterer, Dipl. Ing. University & ETH Zurich, Switzerland
9:25	Break	
11:20	Poster Walk: E-poster & Traditional Poster Presentations <i>Moderator: Jan-Bernd Hövener, Ph.D.</i>	
11:50	Announcement of Award for Electronic & Traditional Posters	Pratip K. Bhattacharya, Ph.D. UT MD Anderson Cancer Center, USA
12:00	Adjournment	