



- **13C-MRI Detects Increased Lactate Flux in HCC Following Hepatic Thermal Ablation and Correlates with PFKFB3 Expression**

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- **20-min Pediatric Cardiovascular Magnetic Resonance without Contrast or Anesthesia: Initial Evaluation in Kids with Congenital Heart Disease**

Lexiaozi Fan, Hassan Haji-Valizadeh, Cynthia K Rigsby, Joshua D. Robinson, Paige Constance Nelson, and Daniel Kim

- **A 13C/31P surface coil to visualize metabolism and energetics in the brain**

Manushka V. Vaidya, Georgios Batsios, Bei Zhang, Ryan Brown, Pavithra Viswanath, Jan Paska, Gerburg Wulf, Aaron K. Grant, Sabrina Ronen, and Peder E.Z. Larson

- **Assessment of the sensitivity of inhomogeneous Magnetization Transfer (ihMT) brain imaging with B1+ variations at 3T**

Lucas Soustelle, Samira Mchinda, Thomas Troalen, Maxime Guye, Jean-Philippe Ranjeva, Gopal Varma, David C Alsop, Guillaume Duhamel, and Olivier M Girard

- **Cardiac Rhythm Impacts Left Atrial Hemodynamics Measured with 4D Flow and Real Time PC MRI in Controls and Patients with Atrial Fibrillation**

Amanda L DiCarlo , Hassan Haji-Valizadeh , Suvai Gunasekaran , Patrick McCarthy , Rod Passman , Philip Greenland , Daniel C Lee , Daniel Kim , and Michael Markl

- **Changes of cortical gray matter myelin and microstructure in multiple sclerosis (MS) assessed with quantitative ihMT and MT**

Fanny Munsch, Gopal Varma, Manuel Taso, Shahamat Tauhid, Olivier M. Girard, Guillaume Duhamel, Rob Bakshi, and David Alsop

- **Connectivity analyses of accelerated 3D resting-state ASL**

Fanny Munsch, Manuel Taso, John A. Detre, and David C. Alsop

- **Consensus-based technical recommendations for clinical translation of renal MRI**

Fabio Nery, Iosif Mendichovszky, Pim Pullens, Ilona Dekkers, Octavia Bane, Andreas Pohlmann, Anneloes de Boer, Alexandra Ljimani, Aghogho Odudu, Charlotte Buchanan, Kanishka Sharma, Christoffer Laustsen, Anita Hartevelde, Xavier Golay, Ivan Pedrosa, David Alsop, Sean Fain, Anna Caroli, Pottumarthi Prasad, Susan Francis, Eric Sigmund, Maria Fernández-Seara, and Steven Sourbron

- **Detection of atrial scar using 3D high-resolution dark-blood phase sensitive inversion recovery imaging**

Dongyue Si, Yanfang Wu, Jie Yin, Rui Guo, Jingjing Xiao, Bowei Liu, Xue Lin, Peng Gao, Deyan Yang, Quan Fang, Jianwen Luo, Daniel A. Herzka, and Haiyan Ding

- **Improved Cerebral Microbleed vs Calcification Discrimination using QSM compared to SWI Phase Maps**

Salil Soman, Kyuwon Lee, Magdy Selim, Aristotelis Filippidis, Ajit Thomas, Pascal Spincemaille, and Yi Wang

- **Longitudinal follow-up of MS active lesions with 3D inhomogeneous Magnetization Transfer (ihMT)**

Lucas Soustelle, Soraya Gherib, Samira Mchinda, Sylviane Confort-Gouny, Arnaud Le Troter^{1,2}, Maxime Guye, Jean-Philippe Ranjeva, Patrick Viout, Lauriane Pini, Claire Costes, Adil Maarouf, Bertrand Audoin, Audrey Rico, Clémence Boutière, Fanelly Pariollaud, Françoise Reuter, Victor Nunes Dourado de Carvalho, Véronique Gimenez, Andreea Hertanu, Gopal Varma, David C Alsop, Jean Pelletier, Guillaume Duhamel, and Olivier M Girard

- **Motion Correction Strategy for Multi-Contrast based 3D parametric imaging: Application to Inhomogeneous Magnetization Transfer (ihMT)**

Lucas Soustelle, Julien Lamy, Arnaud Le Troter, Patrick Viout, Lauriane Pini, Claire Costes, Jean-Philippe Ranjeva, Maxime Guye, Adil Maarouf, Bertrand Audoin, Clémence Boutière, Audrey Rico, Gopal Varma, David C Alsop, Jean Pelletier, Olivier M Girard, and Guillaume Duhamel

(Summa Cum Laude Award)

- **Multi-T1D weighting ihMT imaging in the Cuprizone mouse model**

Andreea Hertanu , Lucas Soustelle , Arnaud Le Troter , Julie Buron, Victor Carvalho , Myriam Cayre , Pascale Durbec , Gopal Varma , David C. Alsop , Olivier M. Girard , and Guillaume Duhamel

- **Neural Basis of Global Resting-state ASL Perfusion Signals**

Shichun Chen, Wenna Duan, Li Zhao, David C. Alsop, Wenming Luh, and Weiyang Dai

- **Off-resonance and flow-velocity immune ASL at low-power using pseudo-continuous saturation labeling**

Manuel Taso and David C. Alsop

- **Quantification of Magnetization Transfer and Inhomogeneous Magnetization Transfer with an MPRAGE sequence and an MTsat Approach**

David C Alsop, Fanny Munsch, Gopal Varma, Olivier Girard, and Guillaume Duhamel

- **Quantitative magnetization transfer (MT) of tissue from subjects with multiple sclerosis using inhomogeneous MT (ihMT) data**

Gopal Varma, Hemant Varma, Cody Callahan, Olivier M Girard, Guillaume Duhamel, Aaron K Grant, and David C Alsop

- **Rapid Dealiasing of Undersampled, Radial First-Pass Cardiac Perfusion MR Images using 3D Residual U-Net**

Lexiaozi Fan , Daming Shen , Hassan Haji-Valizadeh , Nivedita K Naresh , James C. Carr , Benjamin H. Freed , Daniel C. Lee , and Daniel Kim

(Summa Cum Laude Award)

- **Regional and depth dependence of cortical blood-flow assessed with high-resolution Arterial Spin Labeling**

Manuel Taso , Fanny Munsch , Li Zhao , and David C. Alsop

- **Reproducibility of Auditory Functional Magnetic Resonance Spectroscopy at 7T**

Eduardo Coello, Nicolas R. Bolo, Huijun Liao, Angelina Awad, Margaret A. Niznikiewicz, and Alexander Lin

- **Sensitivity of Dynamic ASL and Resting-state BOLD in Patients with Bipolar Disorder**

Zongpai Zhang, Wenna Duan, Nicolas R. Bolo, Carol Tamminga, Brett A. Clementz, Godfrey D. Pearlson, Matcheri Keshavan, David C. Alsop, and Weiyang Dai

- **Variable-density Fast-Spin-Echo (FSE) for volumetric inhomogeneous Magnetization Transfer (ihMT) imaging**

Manuel Taso, Fanny Munsch, Arnaud Guidon, Olivier M. Girard, Guillaume Duhamel, David C. Alsop, and Gopal Varma