

## JMRI-ISMRM Recommendation

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- 1509 Resonate: Reflections and Recommendations on Implicit Biases Within the ISMRM**  
*Esther A.H. Warnert, Krishna Nayak, Ravi Menon, Curt Rice, John Port, Elizabeth A. Morris, Daniel K. Sodickson, Pia Sundgren, Karla L. Miller, and Udunna C. Anazodo*

## Review Articles

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- 1512 MRI of Synovitis and Joint Fluid**  
*Christopher J. Burke, Hamza Alizai, Luis S Beltran, and Ravinder R. Regatte*
- 1528 Low-Field MRI: An MR Physics Perspective**  
*José P. Marques, Frank F.J. Simonis, and Andrew G. Webb*

## Original Research

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### Vascular

- 1543 Test-Retest Multisite Reproducibility of Neurovascular 4D Flow MRI**  
*Baohong Wen, Shuping Tian, Jingliang Cheng, Yinhua Li, Huixia Zhang, Kangkang Xue, Zanzia Zhang, Yang Fan, and Bing Wu*

### Abdomen

- 1553 Evaluation of Effects of TGF- $\beta$ 1 Inhibition on Gastric Cancer in Nude Mice by Diffusion Kurtosis Imaging and In-Line X-ray Phase Contrast Imaging With Sequential Histology**  
*Bowen Shi, Fei Yuan, Fuhua Yan, Huan Zhang, Zilai Pan, WeiBo Chen, Guilong Wang, Jingwen Tan, Yang Zhang, Yuqi Ren, and Lianjun Du*
- 1565 Curved Planar Reformatting and Convolutional Neural Network-Based Segmentation of the Small Bowel for Visualization and Quantitative Assessment of Pediatric Crohn's Disease From MRI**  
*Yechiel Lamash, Sila Kurugol, Moti Freiman, Jeannette M. Perez-Rossello, Michael J. Callahan, Athos Bousvaros, and Simon K. Warfield*
- 1577 Using MRI to Study the Alterations in Liver Blood Flow, Perfusion, and Oxygenation in Response to Physiological Stress Challenges: Meal, Hyperoxia, and Hypercapnia**  
*Eleanor F. Cox, Naaventhana Palaniyappan, Guruprasad P. Aithal, I. Neil Guha, and Susan T. Francis*
- 1587 3D Chemical Shift-Encoded MRI for Volume and Composition Quantification of Abdominal Adipose Tissue During an Overfeeding Protocol in Healthy Volunteers**  
*Angeline Nemeth, Bérénice Segrestin, Benjamin Leporq, Kevin Seyssel, Khuram Faraz, Valérie Sauvinet, Emmanuel Disse, Pierre-Jean Valette, Martine Laville, Hélène Ratiney, and Olivier Beuf*

### Pediatrics

- 1600 Spatiotemporal Variations of Magnetic Susceptibility in the Deep Gray Matter Nuclei From 1 Month to 6 Years: A Quantitative Susceptibility Mapping Study**  
*Ning Ning, Congcong Liu, Peng Wu, Yajie Hu, Weishan Zhang, Lei Zhang, Mengxuan Li, Sung-Min Gho, Dong-Hyun Kim, Hua Guo, Jian Yang, and Chao Jin*

### Breast

- 1610 Feasibility and Diagnostic Performance of Voxelwise Computed Diffusion-Weighted Imaging in Breast Cancer**  
*Jiejie Zhou, Endong Chen, Huazhi Xu, Qiong Ye, Jiance Li, Shuxin Ye, Qinyuan Cheng, Liang Zhao, Min-ying Su, and Meihao Wang*

- 1617 Test–Retest Repeatability and Reproducibility of ADC Measures by Breast DWI: Results from the ACRIN 6698 Trial**  
*David C. Newitt, Zheng Zhang, Jessica E. Gibbs, Savannah C. Partridge, Thomas L. Chenevert, Mark A. Rosen, Patrick J. Bolan, Helga S. Marques, Sheye Aliu, Wen Li, Lisa Cimino, Bonnie N. Joe, Heidi Umphrey, Haydee Ojeda-Fournier, Basak Dogan, Karen Oh, Hiroyuki Abe, Jennifer Drukteinis, Laura J. Esserman, and Nola M. Hylton, for the ACRIN Trial Team and I-SPY 2 TRIAL Investigators*
- Head and Neck**
- 1629 Long-Term Reactions to Pulsatile Tinnitus Are Marked by Weakened Short-Range Functional Connectivity Within a Brain Network in the Right Temporal Lobe**  
*Wang Zheng, Zhang Peng, Zhao Pengfei, Li Jing, Ding Heyu, Yin Hongxia, Liu Yawen, Zhang Zhengyu, Gong Shusheng, Yang Zhenghan, Lv Han, and Wang Zhenchang*
- 1638 Cervical Spine Findings on MRI in People With Neck Pain Compared With Pain-Free Controls: A Systematic Review and Meta-analysis**  
*Scott F. Farrell, Ashley D. Smith, Mark J. Hancock, Alexandra L. Webb, and Michele Sterling*
- Musculoskeletal**
- 1655 Diffusion Tensor Imaging and Diffusion Modeling: Application to Monitoring Changes in the Medial Gastrocnemius in Disuse Atrophy Induced by Unilateral Limb Suspension**  
*Vadim Malis, Usha Sinha, Robert Csapo, Marco Narici, Edward Smitaman, and Shantanu Sinha*
- 1665 Quantitative Susceptibility Mapping of Articular Cartilage in Patients With Osteoarthritis at 3T**  
*Hongjiang Wei, Huimin Lin, Le Qin, Steven Cao, Yuyao Zhang, Naying He, Weibo Chen, Fuhua Yan, and Chunlei Liu*
- 1676 Domain-Specific Data Augmentation for Segmenting MR Images of Fatty Infiltrated Human Thighs With Neural Networks**  
*Michael Gadermayr, Kexin Li, Madlaine Müller, Daniel Truhn, Nils Krämer, Dorit Merhof, and Burkhard Gess*
- Pelvis**
- 1684 Role of Proton MR Spectroscopy in the Differentiation of Borderline from Malignant Epithelial Ovarian Tumors: A Preliminary Study**  
*Feng Hua Ma, Yong Ai Li, Jia Liu, Hai Ming Li, Guo Fu Zhang, and Jin Wei Qiang*
- 1694 Intra- and Interreader Reproducibility of PI-RADSv2: A Multireader Study**  
*Clayton P. Smith, Stephanie A. Harmon, Tristan Barrett, Leonardo K. Bittencourt, Yan Mee Law, Haytham Shebel, Julie Y. An, Marcin Czarniecki, Sherif Mehralivand, Mehmet Coskun, Bradford J. Wood, Peter A. Pinto, Joanna H. Shih, Peter L. Choyke, and Baris Turkbey*
- 1704 Correlation Between Tumor Glucose Metabolism and Multiparametric Functional MRI (IVIM and R2\*) Metrics in Cervical Carcinoma: Evidence From Integrated <sup>18</sup>F-FDG PET/MR**  
*Zhang Li-Ou, Sun Hong-Zan, Bai Xiao-Xi, Chen Zhong-Wei, Lu Zai-Ming, Xin Jun, and Guo Qi-Yong*
- Chest**
- 1713 Rapid Single-Breath Hyperpolarized Noble Gas MRI-Based Biomarkers of Airspace Enlargement**  
*Andrew Westcott, Fumin Guo, Grace Parraga, and Alexei Ouriadov*
- Technical**
- 1723 Prospective Respiratory Triggering Improves High-Resolution Brachial Plexus MRI Quality**  
*Darryl B. Sneag, Parrykumar Mendapara, Jacqui C. Zhu, Susan C. Lee, Bin Lin, Jahnavi Curlin, Eric A. Bogner, and Maggie Fung*
- 1730 Repeatability and Reproducibility of Variable Flip Angle T<sub>1</sub> Quantification in the Prostate at 3 T**  
*Xinran Zhong, Sepideh Shakeri, Dapeng Liu, James Sayre, Steven S. Raman, Holden H. Wu, and Kyunghyun Sung*

## Neuro

- 1736 On the (Non-)Equivalency of Monopolar and Bipolar Settings for Deep Brain Stimulation fMRI Studies of Parkinson's Disease Patients**  
*Ileana Hancu, Alexandre Boutet, Eric Fiveland, Manish Ranjan, Julia Prusik, Marisa Dimarzio, Tanweer Rashid, Jeffrey Ashe, David Xu, Suneil K. Kalia, Mojgan Hodaie, Alfonso Fasano, Walter Kucharczyk, Julie Pilitsis, Andres Lozano, and Radhika Madhavan*
- 1750 Characterizing Structural Changes With Devolving Remyelination Following Experimental Demyelination Using High Angular Resolution Diffusion MRI and Texture Analysis**  
*Tim Luo, Olayinka Oladosu, Khalil S. Rawji, Peng Zhai, Glen Pridham, Shahnewaz Hossain, and Yunyan Zhang*
- 1760 Abnormal Hippocampal Subfields May Be Potential Predictors of Worse Early Response to Antidepressant Treatment in Drug-Naïve Patients With Major Depressive Disorder**  
*Xiaoxiao Hu, Lianqing Zhang, Xinyu Hu, Lu Lu, Shi Tang, Hailong Li, Xuan Bu, Qiyong Gong, and Xiaoqi Huang*
- 1769 Improvement of Reproducibility in Quantitative Susceptibility Mapping (QSM) and Transverse Relaxation Rates ( $R_2'$ ) After Physiological Noise Correction**  
*Joon Yul Choi, Jingu Lee, Yoonho Nam, Jongho Lee, and Se-Hong Oh*
- 1777 Measurement of Magnetization Transfer Ratio (MTR) From Cervical Spinal Cord: Multicenter Reproducibility and Variability**  
*Benoît Combès, Laureline Monteau, Elise Bannier, Virginie Callot, Pierre Labauge, Xavier Ayrignac, Clarisse Carra Dallièrre, Jean Pelletier, Adil Maarouf, Jerome de Seze, Nicolas Collongues, Christian Barillot, Gilles Edan, Jean Christophe Ferré, and Anne Kerbrat, and the EMISEP study group*

## Cardiac

- 1786 Analysis of Cavopulmonary and Cardiac Flow Characteristics in Fontan Patients: Comparison With Healthy Volunteers**  
*David R. Rutkowski, Gregory Barton, Christopher J. François, Heather L. Bartlett, Petros V. Anagnostopoulos, and Alejandro Roldán-Alzate*

## Letter to the Editor

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- 1800 Close Look at the Potts Shunt Flow Hemodynamics in a Patient With Severe Pulmonary Hypertension: 4D-Flow MRI Evaluation**  
*Michal Schäfer, Benjamin S. Frank, D. Dunbar Ivy, Neil Wilson, Gareth J. Morgan, Alex J. Barker, Lorna P. Browne, Max B. Mitchell, and Uyen Truong*