

Original Research: ISMRM Young Investigator Award

1585 **Announcement****CME Article**

1587 **Role of MRI to Assess Response to Neoadjuvant Therapy for Breast Cancer**
*Beatriu Reig, Laura Heacock, Alana Lewin, Nariya Cho, and Linda Moy***Review Articles**

1607 **Deep Learning for Lesion Detection, Progression, and Prediction of Musculoskeletal Disease**
*Richard Kijowski, Fang Liu, Francesco Caliva, and Valentina Pedoia*1620 **MR Biomarkers of Degenerative Brain Disorders Derived From Diffusion Imaging**
*Christina Andica, Koji Kamagata, Taku Hatano, Yuya Saito, Kotaro Ogaki, Nobutaka Hattori, and Shigeki Aoki***Original Research**

Chest1637 **2D Ultrashort Echo-Time Functional Lung Imaging**
*Anke Balasch, Patrick Metze, Kilian Stumpf, Meinrad Beer, Susanne M. Büttner, Wolfgang Rottbauer, Tobias Speidel, and Volker Rasche*1645 **Echo Time-Dependence of Observed Lung T₁ in Patients With Cystic Fibrosis and Correlation With Clinical Metrics**
*Simon M.F. Triphan, Mirjam Stahl, Bertram J. Jobst, Olaf Sommerburg, Hans-Ulrich Kauczor, Jens-Peter Schenk, Abdulsattar Alrajab, Monika Eichinger, Marcus A. Mall, and Mark O. Wielpütz***Editorial**1655 **Editorial for "Echo Time-Dependence of Observed Lung T₁ in Patients With Cystic Fibrosis and Correlation With Clinical Metrics"**
*Nicolau Beckmann***Abdomen**1657 **Prediction Model for Intermediate-Stage Hepatocellular Carcinoma Response to Transarterial Chemoembolization**
*Fei Jia, Baolin Wu, Ruifang Yan, Lei Li, Kaiyu Wang, and Dongming Han*1668 **MRI-Based Radiomics Models Developed With Features of the Whole Liver and Right Liver Lobe: Assessment of Hepatic Inflammatory Activity in Chronic Hepatic Disease**
*Junjie Song, Xiangling Yu, Wenlong Song, Dajing Guo, Chuanming Li, Huan Liu, Haiping Zhang, Jun Zhou, and Yangyang Liu*1679 **MRI-Based Radiomics Signature: A Potential Biomarker for Identifying Glypican 3-Positive Hepatocellular Carcinoma**
*Dongsheng Gu, Yongsheng Xie, Jingwei Wei, Wencui Li, Zhaoxiang Ye, Zhongyuan Zhu, Jie Tian, and Xubin Li*1688 **Rosette Trajectories Enable Ungated, Motion-Robust, Simultaneous Cardiac and Liver T₂* Iron Assessment**
*Adam M. Bush, Christopher M. Sandino, Shreya Ramachandran, Frank Ong, Nicholas Dwork, Evan J. Zucker, Ali B. Syed, John M. Pauly, Marcus T. Alley, and Shreyas S. Vasawala***Editorial**1699 **Editorial for "Rosette Trajectories Enable Motion Robust, Simultaneous Cardiac and Liver T₂* Iron Assessment"**
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- Pediatrics** **1701 Resting-State Power and Regional Connectivity After Pediatric Mild Traumatic Brain Injury**
David D. Stephenson, Timothy B. Meier, Sharvani Pabbathi Reddy, Cidney R. Robertson-Benta, Danielle C. Hergert, Andrew B. Dodd, Nicholas A. Shaff, Josef M. Ling, Scott J. Oglesbee, Richard A. Campbell, John P. Phillips, Robert E. Sapien, and Andrew R. Mayer
- Cardiac** **1714 Radiomic Analysis of Native T₁ Mapping Images Discriminates Between MYH7 and MYBPC3-Related Hypertrophic Cardiomyopathy**
Jie Wang, Fuyao Yang, Wentao Liu, Jiayu Sun, Yuchi Han, Dong Li, Georgios V. Gkoutos, Yanjie Zhu, and Yucheng Chen
- 1722 Displacement Encoding With Stimulated Echoes Enables the Identification of Infarct Transmurality Early Postmyocardial Infarction**
Kenneth Mangion, Christopher M. Loughrey, Daniel A. Auger, Christie McComb, Matthew M. Lee, David Corcoran, Margaret McEntegart, Andrew Davie, Richard Good, Mitchell Lindsay, Hany Eteiba, Paul Rocchiccioli, Stuart Watkins, Stuart Hood, Aadil Shaukat, Caroline Haig, Frederick H. Epstein, and Colin Berry
- 1732 Splenic Switch-Off for Determining the Optimal Dosage for Adenosine Stress Cardiac MR in Terms of Stress Effectiveness and Patient Safety**
Sorin Giusca, David Wolf, Nina Hofmann, Saskia Hagstotz, Monika Forschner, Melanie Schueler, Peter Nunninger, Sebastian Kelle, and Grigorios Korosoglou
- Editorial** **1743 Editorial for: "Splenic Switch-Off for Determining the Optimal Dosage for Adenosine Stress Cardiovascular MR in Terms of Stress Effectiveness and Patient Safety"**
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- Musculoskeletal** **1745 Deep Learning Approach for Anterior Cruciate Ligament Lesion Detection: Evaluation of Diagnostic Performance Using Arthroscopy as the Reference Standard**
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- 1753 Effectively Measuring Exercise-Related Variations in T₁ρ and T₂ Relaxation Times of Healthy Articular Cartilage**
Dimitri A. Kessler, James W. MacKay, Scott McDonald, Stephen McDonnell, Andrew J. Grainger, Alexandra R. Roberts, Robert L. Janiczek, Martin J. Graves, Joshua D. Kaggie, and Fiona J. Gilbert
- Editorial** **1765 Editorial for "Effectively Measuring Exercise-Related Variations in T₁ρ and T₂ Relaxation Times of Healthy Articular Cartilage"**
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- Vascular** **1767 Imaging Pulmonary Blood Flow Using Pseudocontinuous Arterial Spin Labeling (PCASL) With Balanced Steady-State Free-Precession (bSSFP) Readout at 1.5T**
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- Neuro** **1783 Cortical Changes in Epilepsy Patients With Focal Cortical Dysplasia: New Insights With T₂ Mapping**
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- 1790 Altered Whole-Brain Functional Networks in Drug-Naïve, First-Episode Adolescents With Major Depression Disorder**
Baolin Wu, Xuekun Li, Jun Zhou, Meng Zhang, and Qingyun Long
- 1799 Aberrant Fiber Coherence of Amygdala–Accumbens–Pallidum Pathway Is Associated With Disorganized Nigrostriatal–Nigropallidal Pathway in Parkinson's Disease**
Tao Guo, Jingjing Wu, Cheng Zhou, Xiaojun Guan, Ting Gao, Xueqin Bai, Zhe Song, Min Xuan, Quanquan Gu, Peiyu Huang, Baorong Zhang, Jiali Pu, Xiaojun Xu, Duan Xu, and Minming Zhang

- Editorial** **1809** **Editorial for "Aberrant Hyperconnectivity of Amygdala-Accumbens-Pallidum Pathway Is Associated With Disorganized Nigrostriatal Pathway in Parkinson's Disease"**
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- 1811** **Preliminary Assessment of Intravoxel Incoherent Motion Diffusion-Weighted MRI (IVIM-DWI) Metrics in Alzheimer's Disease**
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- Editorial** **1827** **Editorial for "Preliminary Assessment of Intravoxel Incoherent Motion Diffusion-Weighted MRI (IVIM-DWI) Metrics in Alzheimer's Disease"**
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- 1829** **Brain Oxygen Extraction Is Differentially Altered by Alzheimer's and Vascular Diseases**
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- Editorial** **1838** **Editorial for "Brain Oxygen Extraction Is Differentially Altered by Alzheimer's and Vascular Diseases"**
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- Breast** **1840** **PET/CT and MRI for Identifying Axillary Lymph Node Metastases in Breast Cancer Patients: Systematic Review and Meta-Analysis** *Xin Zhang, Yuanyuan Liu, Hongbing Luo, and Jianhui Zhang*
- 1852** **High-Resolution Breast MRI Reconstruction Using a Deep Convolutional Generative Adversarial Network**
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- Pelvis** **1859** **Novel T2 Mapping for Evaluating Cervical Cancer Features by Providing Quantitative T2 Maps and Synthetic Morphologic Images: A Preliminary Study**
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- Editorial** **1870** **Editorial for: "Novel T2 Mapping for Evaluating Cervical Cancer Features by Providing Quantitative T2 Maps and Synthetic Morphologic Images: A Preliminary Study"**
Francesco Alessandrino
- 1872** **Preoperative Assessment for High-Risk Endometrial Cancer by Developing an MRI- and Clinical-Based Radiomics Nomogram: A Multicenter Study**
Bi Cong Yan, Ying Li, Feng Hua MA, Feng Feng, Ming Hua Sun, Guang Wu Lin, Guo Fu Zhang, and Jin Wei Qiang
- Editorial** **1883** **Editorial for "Preoperative Assessment for High-Risk Endometrial Cancer by Developing an MRI- and Clinical-Based Radiomics Nomogram: A Multicenter Study"**
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