

Announcement

1451 ISMRM Young Investigator Award Winners

CME Article

1453 MRI in Donor Candidates for Living Donor Liver Transplant: Technical and Practical Considerations

Bohyun Kim, So Yeon Kim, Kyoung Won Kim, Hye Young Jang, Jong Keon Jang, Gi Won Song, and Sung Gyu Lee

Review Articles

1468 Emerging Role of MRI in Radiation Therapy

Hersh Chandarana, Hesheng Wang, R.H.N. Tijssen, and Indra J. Das

1479 MRI-Guided Treatment in the Breast

Federica Pediconi, Flaminia Marzocca, Beatrice Cavallo Marincola, and Alessandro Napoli

Original Research

1489 3D Ultrashort Echo Time MRI of the Lung Using Stack-of-Spirals and Spherical *k*-Space Coverages: Evaluation in Healthy Volunteers and Parenchymal Diseases

Gaël Dournes, Joseph Yazbek, Wadie Benhassen, Ilyes Benlala, Elodie Blanchard, Marie-Elise Truchetet, Julie Macey, Patrick Berger, and François Laurent

Physics

1498 Improving Apparent Diffusion Coefficient Accuracy on a Compact 3T MRI Scanner Using Gradient Nonlinearity Correction

Ashley T. Tao, Yunhong Shu, Ek T. Tan, Joshua D. Trzasko, Shengzhen Tao, Robert D. Reid, Paul T. Weavers, John Huston III, and Matt A. Bernstein

Neuro

1508 Impaired Decision-Making and Functional Neuronal Network Activity in Systemic Lupus Erythematosus

Bei-Bei Wu, Ye Ma, Lei Xie, Jin-Zhuang Huang, Zong-Bo Sun, Zhi-Duo Hou, Rui-Wei Guo, Zhi-Rong Lin, Shou-Xing Duan, Shan-Shan Zhao, Yao-Xie, Dan-Miao Sun, Chun-Min Zhu, and Shu-Hua Ma

1518 Radiomics Strategy for Glioma Grading Using Texture Features From Multiparametric MRI

Qiang Tian, Lin-Feng Yan, Xi Zhang, Xin Zhang, Yu-Chuan Hu, Yu Han, Zhi-Cheng Liu, Hai-Yan Nan, Qian Sun, Ying-Zhi Sun, Yang Yang, Ying Yu, Jin Zhang, Bo Hu, Gang Xiao, Ping Chen, Shuai Tian, Jie Xu, Wen Wang, and Guang-Bin Cui

1529 Novel Connectivity Map Normalization Procedure for Improved Quantitative Investigation of Structural Thalamic Connectivity in Temporal Lobe Epilepsy Patients

Brendan G. Santyr, Jonathan C. Lau, Seyed M. Mirsattari, Jorge G. Burneo, Sandrine de Ribaupierre, David A. Steven, Andrew G. Parrent, Keith MacDougall, and Ali R. Khan

1540 Segmentation of Gray Matter, White Matter, and CSF With Fluid and White Matter Suppression Using MP2RAGE

Yishi Wang, Yajie Wang, Zhe Zhang, Yuhui Xiong, Qiang Zhang, Chun Yuan, and Hua Guo

1551 Value of Diffusion Kurtosis Imaging in Assessing Low-Grade Gliomas

Mohammed Z. Goryawala, Deborah O. Heros, Ricardo J. Komotar, Sulaiman Sheriff, Efrat Saraf-Lavi, and Andrew A. Maudsley

- 1559 Reliability of Neurometabolite Detection With Two-Dimensional Localized Correlation Spectroscopy at 3T**
Jameen Arm, Oun Al-iedani, Scott Quadrelli, Karen Ribbons, Rod Lea, Jeannette Lechner-Scott, and Saadallah Ramadan
- Abdomen**
- 1570 Computer-Aided Diagnosis of Prostate Cancer Using a Deep Convolutional Neural Network From Multiparametric MRI**
Yang Song, Yu-Dong Zhang, Xu Yan, Hui Liu, Minxiong Zhou, Bingwen Hu, and Guang Yang
- 1578 Validation of a Motion-Robust 2D Sequential Technique for Quantification of Hepatic Proton Density Fat Fraction During Free Breathing**
B. Dustin Pooler, Diego Hernando, Jeannine A. Ruby, Hiroshi Ishii, Ann Shimakawa, and Scott B. Reeder
- 1586 Assessment of Liver Ischemia Reperfusion Injury in Mice Using Hepatic T₂ Mapping: Comparison With Histopathology**
Katja Hueper, Hannah Lang, Björn Hartleben, Marcel Gutberlet, Thorsten Derlin, Tobias Getzin, Rongjun Chen, Hassan Abou-Rebyeh, Frank Lehner, Martin Meier, Hermann Haller, Frank Wacker, Song Rong, and Faikah Gueler
- Cardiac**
- 1595 Magnetic Resonance Cold Pressor Test to Investigate Potential Endothelial Dysfunction in Patients Suffering From Type 1 Diabetes**
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- 1602 Diagnostic Performance of Intravoxel Incoherent Motion Diffusion-Weighted Imaging in the Assessment of the Dynamic Status of Myocardial Perfusion**
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- Technical**
- 1610 An Ultrasound-Responsive Dual-Modal US/T₁-MRI Contrast Agent for Potential Diagnosis of Prostate Cancer**
Young Il Yoon, Shin-Woo Ha, and Hak Jong Lee
- 1617 Folate Receptor-Targeted ¹⁹F MR Molecular Imaging and Proliferation Evaluation of Lung Cancer**
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- Pelvis**
- 1626 Radiomic Features From Pretreatment Biparametric MRI Predict Prostate Cancer Biochemical Recurrence: Preliminary Findings**
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- 1637 Preoperative Tumor Texture Analysis on MRI Predicts High-Risk Disease and Reduced Survival in Endometrial Cancer**
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Miaomiao Zhang, Yan Chen, Xinying Cong, and Xinming Zhao
- 1657 Quantitative Characterization of Carotid Plaque Components Using MR Apparent Diffusion Coefficients and Longitudinal Relaxation Rates at 3T: A Comparison With Histology**
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- 1678 Role of Dynamic Contrast-Enhanced MRI in Evaluating the Association Between Contralateral Parenchymal Enhancement and Survival Outcome in ER-positive, HER2-Negative, Node-Negative Invasive Breast Cancer**
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- Musculoskeletal**
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- 1700 Delayed Gadolinium-Enhanced MRI of Menisci and Cartilage (dGEMRIM/dGEMRIC) in Obese Patients With Knee Osteoarthritis: Cross-Sectional Study of 85 Obese Patients With Intra-articular Administered Gadolinium Contrast**
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