JMRI
Journal of Magnetic Resonance Imaging

## Reviews

11 **Magnetic Resonance Imaging Versus Computed Tomography for Three-Dimensional Bone Imaging of Musculoskeletal Pathologies: A Review**
*Mateusz C. Florkow, Koen Willemsen, Vasco V. Mascarenhas, Edwin H.G. Oei, Marijn van Stralen, and Peter R. Seevinck*

35 **Target Selection for Magnetic Resonance-Guided Focused Ultrasound in the Treatment of Parkinson's Disease**
*Xiaoyu Wang, Yongqin Xiong, Jiaji Lin, and Xin Lou*

45 **Golden-Angle Radial MRI: Basics, Advances, and Applications**
*Li Feng*

## Research Articles

Thoracic

63 **Application of Simultaneous $^{18}$F-FDG PET With Monoexponential, Biexponential, and Stretched Exponential Model-Based Diffusion-Weighted MR Imaging in Assessing the Proliferation Status of Lung Adenocarcinoma**
*Zhun Huang, Xiaochen Li, Zhixue Wang, Nan Meng, Fangfang Fu, Hui Han, Dujuan Li, Yan Bai, Wei Wei, Ting Fang, Pengyang Feng, Jianmin Yuan, Yang Yang, and Meiyun Wang*

*Editorial* 75 **Editorial for "Application of Simultaneous 18F-FDG PET With Monoexponential, Biexponential, and Stretched Exponential Model-Based Diffusion-Weighted MR Imaging in Assessing the Proliferation Status of Lung Adenocarcinoma"**
*Munenobu Nogami*

Musculoskeletal

77 **Natural Changes in Radiological and Radiomics Features on MRIs of Soft-Tissue Sarcomas Naïve of Treatment: Correlations With Histology and Patients' Outcomes**
*David Fadli, Michèle Kind, Audrey Michot, François Le Loarer, and Amandine Crombé*

*Editorial* 97 **Editorial for "Natural Changes in Radiological and Radiomics Features on MRIs of Soft-Tissue Sarcomas Naïve of Treatment: Correlations With Histology and Patients' Outcome"**
*Paolo Spinnato*

99 **Deep Learning Assisted Diagnosis of Musculoskeletal Tumors Based on Contrast-Enhanced Magnetic Resonance Imaging**
*Keyang Zhao, Mingzi Zhang, Zhaozhi Xie, Xu Yan, Shenghui Wu, Peng Liao, Hongtao Lu, Wei Shen, Chicheng Fu, Haoyang Cui, Qu Fang, and Jiong Mei*

*Editorial* 108 **Editorial for "Deep Learning Assisted Diagnosis of Musculoskeletal Tumors Based Upon Contrast-Enhanced Magnetic Resonance Imaging"**
*Stephan Ellmann and Tobias Bäuerle*

Breast

110 **Diffusion Kurtosis MR Imaging of Invasive Breast Cancer: Correlations With Prognostic Factors and Molecular Subtypes**
*Han Sol Kang, Jin You Kim, Jin Joo Kim, Suk Kim, Nam Kyung Lee, Ji Won Lee, Hie Bum Suh, Lee Hwangbo, Yohan Son, and Robert Grimm*

Technical

121 **In Vivo Absolute Metabolite Quantification Using a Multiplexed ERETIC-RX Array Coil for Whole-Brain MR Spectroscopic Imaging**
*Bijaya Thapa, Azma Mareyam, Jason Stockmann, Bernhard Strasser, Boris Keil, Philipp Hoecht, Stefan A. Carp, Xianqi Li, Zhe Wang, Yulin V. Chang, Jorg Dietrich, Erik Uhlmann, Daniel P. Cahill, Tracy Batchelor, Lawrence Wald, and Ovidiu C. Andronesi*

134 ***Ex-Vivo* MRI of the Normal Human Placenta: Structural–Functional Interplay and the Association With Birth Weight**
*Daphna Link-Sourani, Netanell Avisdris, Shaul Harel, Liat Ben-Sira, Tuvia Ganot, Zoya Gordon, Ariel Many, and Dafna Ben Bashat*

*Editorial* 145 **Editorial on "Ex vivo MRI of the Normal Human Placenta: Structural-Functional Interplay and the Association With Birth Weight"**
*Joel R. Garbow and Jeffrey J. Neil*

Pediatrics

147 **Meta-Analysis of Apparent Diffusion Coefficient in Pediatric Medulloblastoma, Ependymoma, and Pilocytic Astrocytoma**
*Richard J. Dury, Anbarasu Lourdusamy, Donald C. Macarthur, Andrew C. Peet, Dorothee P. Auer, Richard G. Grundy, and Robert A. Dineen*

Pelvis

158 **Added Value of Quantitative Analysis of Diffusion-Weighted Imaging in Ovarian-Adnexal Reporting and Data System Magnetic Resonance Imaging**
*Nathalie A. Hottat, Dominique A. Badr, Catherine Van Pachterbeke, Katherina Vanden Houte, Vincent Denolin, Jacques C. Jani, and Mieke M. Cannie*

| | | |
|---|---|---|
| *Editorial* | 171 | **Editorial for "Added-Value of Quantitative Analysis of Diffusion-Weighted Imaging in Ovarian-Adnexal Reporting and Data System Magnetic Resonance Imaging (O-RADS MRI): A Prospective Cohort Study"**<br>*Hui Xu, Lei Ye, and Yuntian Chen* |
| | 173 | **MRI-Based Multiple Instance Convolutional Neural Network for Increased Accuracy in the Differentiation of Borderline and Malignant Epithelial Ovarian Tumors**<br>*Junming Jian, Yong'ai Li, Wei Xia, Zhang He, Rui Zhang, Haiming Li, Xingyu Zhao, Shuhui Zhao, Jiayi Zhang, Songqi Cai, Xiaodong Wu, Xin Gao, and Jinwei Qiang* |
| *Editorial* | 182 | **Editorial for "MRI-Based Multiple Instance Convolutional Neural Network (MICNN) for Increased Accuracy in the Differentiation of Borderline and Malignant Epithelial Ovarian Tumors"**<br>*Constantinos Loukas and Nikolaos L. Kelekis* |
| **Abdomen** | 184 | **Deep Learning Reconstruction Enables Highly Accelerated Biparametric MR Imaging of the Prostate**<br>*Patricia M. Johnson, Angela Tong, Awani Donthireddy, Kira Melamud, Robert Petrocelli, Paul Smereka, Kun Qian, Mahesh B. Keerthivasan, Hersh Chandarana, and Florian Knoll* |
| **Head and Neck** | 196 | **Magnetic Resonance Imaging-Based Radiomics Features Associated with Depth of Invasion Predicted Lymph Node Metastasis and Prognosis in Tongue Cancer**<br>*Fei Wang, Rukeng Tan, Kun Feng, Jing Hu, Zehang Zhuang, Cheng Wang, Jinsong Hou, and Xiqiang Liu* |
| | 210 | **Early-Onset Micromorphological Changes of Neuronal Fiber Bundles During Radiotherapy**<br>*Jin Liu, Wenjuan Wang, Yanfei Zhou, Chen Gan, Tengfei Wang, Zongtao Hu, Jianjun Lou, Hongzhi Wang, Li-Zhuang Yang, Stephen T.C. Wong, and Hai Li* |
| *Editorial* | 219 | **Editorial for "Early-Onset Micromorphological Changes of Neuronal Fiber Bundles During Radiotherapy"**<br>*Lauren J. O'Donnell* |
| *Editorial* | 221 | **Editorial for "Differences in Radiomics Signatures Between Patients with Early and Advanced T-Stage Nasopharyngeal Carcinoma Facilitate Prognostication"**<br>*Ramesh Paudyal, Joseph O. Deasy, and Amita Shukla-Dave* |
| *Cardiac* | 223 | **Super-Resolution Cine Image Enhancement for Fetal Cardiac Magnetic Resonance Imaging**<br>*Klas Berggren, Daniel Ryd, Einar Heiberg, Anthony H. Aletras, and Erik Hedström* |
| *Editorial* | 232 | **Editorial for "Super-Resolution Cine Image Enhancement for Fetal Cardiovascular Magnetic Resonance Imaging"**<br>*Remus Gaga* |
| | 234 | **Evaluation of Pulmonary Hypertension Using 4D Flow MRI**<br>*John W. Cerne, Ashitha Pathrose, Daniel Z. Gordon, Roberto Sarnari, Manik Veer, Julie Blaisdell, Bradley D. Allen, Ryan Avery, Michael Markl, Ann Ragin, and James C. Carr* |
| *Editorial* | 246 | **Editorial for "Evaluation of Pulmonary Hypertension Using 4D Flow MRI"**<br>*Yuxiang Zhou, Anshuman Panda, and Clinton E. Jokerst* |
| | 248 | **Association Between Heart Failure With Preserved Left Ventricular Ejection Fraction and Impaired Left Atrial Phasic Function in Hypertrophic Cardiomyopathy: Evaluation by Cardiac MRI Feature Tracking**<br>*Rui Shi, Ke Shi, Shan Huang, Xiang Li, Chun-Chao Xia, Yuan Li, Sen He, Zhen-Lin Li, Yong He, Ying-Kun Guo, and Zhi-Gang Yang* |
| *Editorial* | 260 | **Editorial for "Association Between Heart Failure with Preserved Left Ventricular Ejection Fraction and Impaired Left Atrial Phasic Function in Hypertrophic Cardiomyopathy: Evaluation by CMR Feature Tracking"**<br>*Yasuo Amano* |
| *Editorial* | 262 | **Editorial for "Diagnostic and Prognostic Value of Cardiac Magnetic Resonance Strain in Suspected Myocarditis With Preserved LV-EF: A Comparison Between Patients With Negative and Positive Late Gadolinium Enhancement Findings"**<br>*Osamu Manabe and Noriko Oyama-Manabe* |
| **Neuro** | 264 | **Severity of Intracranial Large Artery Disease Correlates With Cerebral Small Vessel Disease**<br>*Xue-yang Wang, Jin-hao Lyu, Sen-hao Zhang, Cao-hui Duan, Qi Duan, Xiao-xiao Ma, Ting-yang Zhang, Jing Zhang, Cheng-lin Tian, and Xin Lou* |

273 **Atrophy of Ipsilesional Hippocampal Subfields Vary Over First Year After Ischemic Stroke**
*Mohamed Salah Khlif, Emilio Werden, Laura J. Bird, Natalia Egorova-Brumley, and Amy Brodtmann*

282 **An Investigation into the Association Between Dopamine Receptor D1 Multilocus Genetic Variation, Multiparametric Magnetic Resonance Imaging, and Antidepressant Treatment**
*Yurong Sun, Xinyi Wang, Shui Tian, Zhilu Chen, Huan Wang, Li Xue, Rui Yan, Zhijian Yao, and Qing Lu*

291 **Altered Resting-State Intranetwork and Internetwork Functional Connectivity in Patients With Chronic Unilateral Vestibulopathy**
*Lihong Si, Bin Cui, Zheyuan Li, Xiang Li, Kangzhi Li, Xia Ling, Bo Shen, and Xu Yang*

301 **Amide Proton Transfer MRI Could Be Used to Evaluate the Pathophysiological Status of White Matter Hyperintensities**
*Zixuan Guo, Zhuoni Meng, Ronghua Mu, Xiaoyan Qin, Zeyu Zhuang, Wei Zheng, Fuzhen Liu, and Xiqi Zhu*

*Editorial*

310 **Editorial for "Amide Proton Transfer MRI Could Be Used to Evaluate the Pathophysiological Status of White Matter Hyperintensities"**
*Raffaello Bonacchi, Maria A. Rocca, and Massimo Filippi*

**Letter to the Editor**

312 **Gray Matter-Restricted Whole Spinal Cord Involvement in a Young Woman with SARS-CoV-2 Infection**
*Dumitru Ciolac, Igor Crivorucica, Eremei Zota, Diana Manea, Daniela Efremova, Ludmila Guşanu, Veaceslav Crivorucica, Mihail Ciocanu, and Stanislav A. Groppa*

Volume 56, Number 1 was mailed the week of 6 June 2022.