

Review

- 317 **Effects of Static and Low-Frequency Magnetic Fields on Gene Expression**
Vitalii Zablotskii, Oksana Gorobets, Svitlana Gorobets, and Tatyana Polyakova
- 335 **High Impact Clinical Applications of Cardiac Magnetic Resonance Imaging in Women: A Review**
Alex Diaz, Chelsea Meloche, Mohamed Abdelmotleb, Hamid Chalian, Ana Paula Santos Lima, Luba Frank, and Karen Ordovas
- 346 **Pre-Treatment Breast MRI: Clinical Indications, Outcomes, and Future Directions**
Brian N. Dontchos, Matthew D. Phelps, Habib Rahbar, and Diana L. Lam
- 362 **Magnetic Resonance Imaging for Dental Pulp Assessment: A Comprehensive Review**
Bing Han, Na Chen, Jin Luo, Farzaneh Afkhami, Ove A. Peters, and Xiaoyan Wang

Research Article

Head and Neck

- 389 **Quantitative Analysis of Orbital Soft Tissues Using Three-Dimensional Fast Spin Echo With 2-Point Dixon-Based Fat Suppression Sequence: Its Association With Methylprednisolone Pulse Therapy Treatment Efficacy in Thyroid-Associated Ophthalmopathy**
Yu Chen, Linhan Zhai, Weiqiang Liang, Yangyang Yin, Yali Zhao, Gang Yuan, Ban Luo, Haoyue Shao, Wang Baoyi, Qiuxia Wang, and Jing Zhang

Editorial

- 401 **Editorial on "Quantitative Analysis of Orbital Soft Tissues Using Three-Dimensional Fast Spin Echo With 2-Point Dixon-Based Fat Suppression Sequence: Its Association With Methylprednisolone Pulse Therapy Treatment Efficacy in Thyroid-Associated Ophthalmopathy"**
Sophie C. Queker and Ek T. Tan

Pediatrics

- 403 **MRI Assessment of Geometric Microstructural Changes of White Matter in Infants With Periventricular White Matter Injury and Spastic Cerebral Palsy**
Miaoyan Wang, Hua Zhu, Tingting Huang, Jingjing Qiao, Bo Peng, Ni Shu, Anqi Qiu, Jian Cheng, and Haoxiang Jiang

Editorial

- 415 **Editorial for "MRI Assessment of Geometric Microstructural Changes of White Matter in Infants With Periventricular White Matter Injury and Spastic Cerebral Palsy"**
Ravikanth Balaji, Bejoy Thomas, and Neena Radhakrishnan

Cardiac

- 417 **Evaluation of Real-Time Cardiovascular Flow MRI Using Compressed Sensing in a Phantom and in Patients With Valvular Disease or Arrhythmia**
Tania Lala, Lea Christerson, Petter Frieberg, Daniel Giese, Peter Kellman, Nina Hakacova, Pia Sjöberg, Ellen Ostenfeld, and Johannes Töger
- 430 **Myocardial MRI Cine Radiomics: A Novel Approach to Risk-Stratification for Major Adverse Cardiovascular Events in Patients With ST-Elevation Myocardial Infarction**
Ming-Lei Li, Ruo-Yang Shi, Jin-Yu Zheng, Jin-Yi Xiang, Ward Hedges, Julia Liang, Jiani Hu, Jie Chen, Lei Zhao, and Lian-Ming Wu

Editorial

- 444 **Evolving Myocardial Injury in Chronic Kidney Disease Assessed by Multiparameter Magnetic Resonance in a Rabbit Model**
Shiqi Jin, Fan Wang, Huaibi Huo, Zhaoxin Tian, Shutong Liu, and Ting Liu
- 455 **Editorial for "Evolving Myocardial Injury in Chronic Kidney Disease Assessed by Multiparameter Magnetic Resonance in a Rabbit Model"**
Hazel D. Sara Rovno

Musculoskeletal

- 457 **Multi-Parametric Quantitative MRI in the Early Differential Diagnosis of Ambulatory Children With Duchenne Muscular Dystrophy and Becker Muscular Dystrophy**
Fei Peng, Huayan Xu, Ting Xu, Ke Xu, Xiaotang Cai, Jiaoyang Li, Heng Zhao, Wenhong Liu, Yingkun Guo, and Limin Liu

Neuro	468	Imaging-Based Molecular Characterization of Adult-Type Diffuse Glioma Using Diffusion and Perfusion MRI in Pre- and Post-Treatment Stage Considering Spatial and Temporal Heterogeneity <i>Yun Hwa Roh, E-Nae Cheong, Ji Eun Park, Yangsean Choi, Seung Chai Jung, Sang Woo Song, Young-Hoon Kim, Chang-Ki Hong, Jeong Hoon Kim, and Ho Sung Kim</i>
	480	The Application of Quasi-Steady-State Chemical Exchange Saturation Transfer Imaging in the Visualization of Glioma Infiltration and the Optimal Extent of Resection Establishment <i>Yinwei Ying, Dongdong Wang, Yajing Zhao, Kai Quan, Xuanxuan Li, Yuxi Xie, Nan Mei, Jie Chen, Zhuoying Ruan, Rong Xu, Guoqiang Ren, Ruibin Liu, Yin Wu, Yiping Lu, and Bo Yin</i>
	494	Associations of Postencephalitic Epilepsy Using Multi-Contrast Whole Brain MRI: A Large Self-Supervised Vision Foundation Model Strategy <i>Ronghui Gao, Anjiao Peng, Yifei Duan, Mengyao Chen, Tao Zheng, Meng Zhang, Lei Chen, and Huaiqiang Sun</i>
Editorial	506	Editorial for “Associations of Postencephalitic Epilepsy Using Multi-Contrast Whole Brain MRI: A Large Self-Supervised Vision Foundation Model Strategy” <i>Barbara A. K. Kreilkamp</i>
	508	Preoperative Assessment of Ki-67 Labeling Index in Pituitary Adenomas Using Delta-Radiomics Based on Dynamic Contrast-Enhanced MRI <i>Kaiyang Zhao, Chaoyue Chen, Yang Zhang, Zhouyang Huang, Yanjie Zhao, Qiang Yue, and Jianguo Xu</i>
Editorial	519	Editorial for “Preoperative Assessment of Ki-67 Labeling Index in Pituitary Adenomas Using Delta-Radiomics Based on Dynamic Contrast-Enhanced MRI” <i>Daniel Lewis, Ka-loh Li, and Xiaoping Zhu</i>
Breast	521	Evaluating the Diagnostic Performance of MR Cytometry Imaging in Differentiating Benign and Malignant Breast Tumors <i>Fan Liu, Lei Wu, Xinyi Luo, Sisi Li, Yishi Wang, Wen Zhong, Thorsten Feiweier, Junzhong Xu, Diwei Shi, Haihua Bao, and Hua Guo</i>
Editorial	534	Editorial for “Evaluating the Diagnostic Performance of MR Cytometry Imaging in Differentiating Benign and Malignant Breast Tumors” <i>Lingzhi Hu and Rong Rong</i>
Abdomen	536	Evaluation of Occult Liver Metastases in Pancreatic Adenocarcinoma by Diffusion-Weighted Related Magnetic Resonance Imaging <i>Fangqing Wang, Xinghua Xu, Yinghui Chen, Jianwei Xu, Weiwei Ji, and Dexin Yu</i>
Editorial	549	Editorial for “Evaluation of Occult Liver Metastases in Pancreatic Adenocarcinoma by Diffusion-Weighted Related Magnetic Resonance Imaging” <i>Daniel J. A. Margolis and Andrea Siobhan Kierans</i>
	551	Quantification of the Proton Density Fat Fraction and Iron Content: A Comparative Study Between 3.0 T and 5.0 T MRI <i>Yali Li, Dan Jin, Suwei Liu, Chenyu Jiang, Ming Ni, Limin Feng, Yan Zhang, Yuxin Yang, Guangjin Zhou, Jiajia Xu, Shiwei He, Liqiang Zhou, and Huishu Yuan</i>
Editorial	561	Editorial for “Quantification of the Proton Density Fat Fraction and Iron Content: A Comparative Study Between 3.0 T and 5.0 T MRI” <i>Teresa Lemainque and Alexandra Barabasch</i>
Technical	563	Diagnosis of Sacroiliitis Through Semi-Supervised Segmentation and Radiomics Feature Analysis of MRI Images <i>Lei Liu, Ruotao Zhong, Yuzhen Zhang, Haoyang Wan, Shuju Chen, Nanfeng Zhang, JingJing Liu, Wei Mei, and Ruibin Huang</i>
Editorial	573	Editorial for “Diagnosis of Sacroiliitis Through Semi-Supervised Segmentation and Radiomics Feature Analysis of MRI Images” <i>Eros Montin</i>
Commentary	575	Commentary on the “Effects of Static and Low-Frequency Magnetic Fields on Gene Expression” <i>Dario A. Bencardino and Maxim Zaitsev</i>

Research Article

- Safety** **577** **Evaluation of Software-Optimized Protocols for Acoustic Noise Reduction During Brain MRI at 7 Tesla**
Anton Glans, Linda Wennberg, Jonna Wilén, Lenita Lindgren, Pia C. Sundgren, Johan Mårtensson, Karin Markenroth Bloch, and Boel Hansson
- 588** **Participant Discomfort During 5 T MRI Examinations and Its Contributing Factors**
Suwei Liu, Limin Feng, Yali Li, Ming Ni, Chenyu Jiang, and Huishu Yuan
- Editorial** **598** **Editorial for “Participant Discomfort During 5 T MRI Examinations and Its Contributing Factors”**
Hendrik Mattern
- Vascular** **600** **Functional MRI and Tumor Vasculature Correlation in Ewing Sarcoma Xenografts: A Prospective Study Based on MRI–Pathology Co-Alignment**
Xiaoge Liu, Kai Zhang, Yutong Song, Xiyang Deng, Juan Tao, Yajie Liu, Chengjiang Xu, Guijiao Qin, Yasmin Mushtaq, and Shaowu Wang
- Editorial** **612** **Editorial for “Functional MRI and Tumor Vasculature Correlation in Ewing Sarcoma Xenografts: A Prospective Study Based on MRI–Pathology Co-Alignment”**
Zubkov Mikhail