

Review

- 401 **Ultrafast Dynamic Contrast-Enhanced MRI of the Breast: From Theory to Practice**
Masako Kataoka, Maya Honda, Hajime Sagawa, Akane Ohashi, Rena Sakaguchi, Hina Hashimoto, Mami Iima, Masahiro Takada, and Yuji Nakamoto
- 417 **Application of Intravoxel Incoherent Motion in Clinical Liver Imaging: A Literature Review**
Qi Wang, Guanghui Yu, Jianfeng Qiu, and Weizhao Lu
- 441 **A Review of the Estimation of Sensitivity and Specificity in the Context of Time-Dependent Outcomes**
Varadan Sevilimedu, Giuseppe Pangan, and Katja Pinker

Research Article

- Pelvis
- 448 **Development and Validation of an MRI-Based Nomogram for Preoperative Detection of Muscle Invasion in VI-RADS 3**
Ruixi Yu, Lingkai Cai, Qiang Cao, Peikun Liu, Yuxi Gong, Kai Li, Qikai Wu, Yudong Zhang, Pengchao Li, Xiao Yang, and Qiang Lu
- 458 **Prostate Age Gap: An MRI Surrogate Marker of Aging for Prostate Cancer Detection**
Alvaro Fernandez-Quilez, Tobias Nordström, Fredrik Jäderling, Svein Reidar Kjosavik, and Martin Eklund
- Editorial
- 469 **Editorial for "Prostate Age Gap: An MRI Surrogate Marker of Aging for Prostate Cancer Detection"**
Xiaodong Zhang and Yu-Dong Zhang
- 471 **MR Diffusion Kurtosis Imaging (DKI) of the Normal Human Uterus in Vivo During the Menstrual Cycle**
Yajie Li, Ye Chen, Caixia Fu, Qing Li, Hanqiu Liu, and Qi Zhang
- Editorial
- 481 **Editorial for "MR Diffusion Kurtosis Imaging (DKI) of the Normal Human Uterus in Vivo During the Menstrual Cycle"**
Masaya Kisohara and Akio Hiwatashi
- Thoracic
- 483 **Assessment of Pulmonary Ventilation Using 3D Ventilation Flow Capacity-Weighted and Ventilation-Weighted Maps From 3D Ultrashort Echo Time (UTE) MRI**
Seokwon Lee, Ho Yun Lee, Jinil Park, Hyeonha Kim, and Jang-Yeon Park
- Editorial
- 495 **Editorial for "Assessment of Pulmonary Ventilation Using 3D Ventilation Flow-Weighted and Ventilation-Weighted Maps From 3D Ultrashort Echo-Time (UTE) MRI"**
Nara S. Higano
- Neuro
- 497 **Total and Regional Brain Volumes in Fetuses With Congenital Heart Disease**
Daniel Cromb, Alena Uus, Milou P.M. Van Poppe, Johannes K. Steinweg, Alexandra F. Bonthrone, Alessandra Maggioni, Paul Cawley, Alexia Egloff, Vanessa Kyriakopolous, Jacqueline Matthew, Anthony Price, Kuberan Pushparajah, John Simpson, Reza Razavi, Maria DePrez, David Edwards, Jo Hajnal, Mary Rutherford, David F.A. Lloyd, and Serena J. Counsell
- 510 **Deep Learning-Driven Transformation: A Novel Approach for Mitigating Batch Effects in Diffusion MRI Beyond Traditional Harmonization**
Akihiko Wada, Toshiaki Akashi, Akifumi Hagiwara, Mitsuo Nishizawa, Keigo Shimoji, Junko Kikuta, Tomoko Maekawa, Katsuhiro Sano, Koji Kamagata, Atsushi Nakanishi, and Shigeki Aoki
- 523 **Development of an MRI-Based Comprehensive Model Fusing Clinical, Radiomics and Deep Learning Models for Preoperative Histological Stratification in Intracranial Solitary Fibrous Tumor**
Xiaohong Liang, Kaiqiang Tang, Xiaoxai Ke, Jian Jiang, Shenglin Li, Caiqiang Xue, Juan Deng, Xianwang Liu, Cheng Yan, Mingzi Gao, Junlin Zhou, and Liqin Zhao

- Editorial**
- 534 **Automatic Segmentation and Quantification of Nigrosome-1 Neuromelanin and Iron in MRI: A Candidate Biomarker for Parkinson's Disease**
Mikel Ariz, Martín Martínez, Ignacio Alvarez, María A. Fernández-Seara, Gabriel Castellanos, The Catalonian Neuroimaging Parkinson's Disease Consortium, Pau Pastor, María A. Pastor, and Carlos Ortiz de Solórzano
- 548 **Editorial for "Automatic Segmentation and Quantification of Nigrosome-1 Neuromelanin and Iron in MRI: A Candidate Biomarker for Parkinson's Disease"**
Susana Creagh Reyes, Tamkin Shahraki, and Salil Soman
- 550 **Mismatch of MRI White Matter Hyperintensities and Gait Function in Patients With Cerebral Small Vessel Disease**
Lingshan Wu, Ziyue Wang, Xirui Zhou, Qianqian Kong, Yi Zhang, Shabei Xu, Hao Huang, and Xiang Luo
- Editorial**
- 559 **Editorial for "Mismatch of MRI White Matter Hyperintensities and Gait Function in Patients With Cerebral Small Vessel Disease"**
Nico Sollmann
- 561 **Handling Missing MRI Data in Brain Tumors Classification Tasks: Usage of Synthetic Images vs. Duplicate Images and Empty Images**
Yael H. Moshe, Yuval Buchsweiler, Mina Teicher, and Moran Artzi
- Editorial**
- 574 **Editorial for "Handling Missing MRI Data in Brain Tumors Classification Tasks: Usage of Synthetic Images vs. Duplicate Images and Empty Images"**
Xiaoxia Qu and Junfang Xian
- 576 **Prediction of H3K27M Alteration Status in Brainstem Glioma Using Multi-Shell Diffusion MRI Metrics**
Xiaolu Xu, Peng Zhang, Zhizheng Zhuo, Yunyun Duan, Liying Qu, Dan Cheng, Ting Sun, Jinli Ding, Cong Xie, Xing Liu, Sven Haller, Frederik Barkhof, Chuyang Ye, Liwei Zhang, and Yaou Liu
- Editorial**
- 586 **Editorial for "Prediction of H3K27M Alteration Status in Brainstem Glioma Using Multi-Shell Diffusion MRI Metrics"**
Kyu Sung Choi
- Breast
- 588 **Intratumoral and Peritumoral Radiomics Based on Preoperative MRI for Evaluation of Programmed Cell Death Ligand-1 Expression in Breast Cancer**
Zengjie Wu, Qing Lin, Haibo Wang, Jingjing Chen, Guanqun Wang, Guangming Fu, Lili Li, and Tiantian Bian
- 600 **A Machine Learning-Based Unenhanced Radiomics Approach to Distinguishing Between Benign and Malignant Breast Lesions Using T2-Weighted and Diffusion-Weighted MRI**
Yulu Liu, Xiaoxuan Jia, Jiaqi Zhao, Yuan Peng, Xun Yao, Xuege Hu, Jingjing Cui, Haoquan Chen, Xiufeng Chen, Jing Wu, Nan Hong, Shu Wang, and Yi Wang
- Editorial**
- 613 **Editorial for "A Machine Learning-Based Unenhanced Radiomics Approach to Distinguishing Between Benign and Malignant Breast Lesions Using T2-Weighted and Diffusion-Weighted MRI"**
Weiguo Li
- Vascular
- 615 **Efficacy of Whole-Blood Model of Gadolinium-Based Contrast Agent Relaxivity in Predicting Vascular MR Signal Intensity *In Vivo***
Evan C. Norris, Guenther Schneider, Toshimasa J. Clark, Miles A. Kirchin, Gregory J. Wilson, and Jeffrey H. Maki
- Cardiac
- 628 **Right-Left Ventricular Interdependence in Repaired Tetralogy of Fallot Patients With Right Ventricular Heart Failure**
Li Jiang, Yuan Li, Shan Huang, Pei-Lun Han, Wei-Feng Yan, Han Fang, and Zhi-Gang Yang
- 640 **Accelerated Cine Cardiac MRI Using Deep Learning-Based Reconstruction: A Systematic Evaluation**
Amol Pednekar, Murat Kocaoglu, Hui Wang, Aki Tanimoto, Jean A. Tkach, Sean Lang, and Michael D. Taylor
- 651 **MRI Deep Learning-Based Automatic Segmentation of Interventricular Septum for Black-Blood Myocardial T2* Measurement in Thalassemia**
Zifeng Lian, Qiqi Lu, Bingquan Lin, Lingjian Chen, Peng Peng, and Yanqiu Feng

- Editorial**
- 662 **The Role of Improved Motion-Sensitized Driven Equilibrium Blood Suppression and Fat Saturation on T_2 Relaxation Time, Using GraSE Sequence in Cardiac Magnetic Resonance Imaging**
Ebtihal Raheem Hammood, Shapoor Shirani, Ali Sadri, Mousa Bahri, and Sadegh Dehghani
- 673 **Editorial for "The Role of Improved Motion-Sensitized Driven Equilibrium Blood Suppression and Fat Saturation on T_2 Relaxation Time, Using GraSE Sequence in Cardiac Magnetic Resonance Imaging"**
Kian Marjani, Amin Polzin, and Mareike Gastl
- 675 **Liver T1 Mapping Derived From Cardiac Magnetic Resonance Imaging: A Potential Prognostic Marker in Idiopathic Dilated Cardiomyopathy**
Jiaqi Wang, Yike Diao, Yuanwei Xu, Jiajun Guo, Weihao Li, Yangjie Li, Ke Wan, Jiayu Sun, Yuchi Han, and Yucheng Chen
- Editorial**
- 686 **Editorial for "Liver T1 Mapping Derived From Cardiac Magnetic Resonance Imaging: A Potential Prognostic Marker in Idiopathic Dilated Cardiomyopathy"**
Jadranka Stojanovska, Li Feng, and Nima Gilani
- Musculoskeletal**
- 688 **Repeatability of Quantitative Knee Cartilage T_1 , T_2 , and $T_{1\rho}$ Mapping With 3D-MRI Fingerprinting**
Xiaoxia Zhang, Hector L. de Moura, Anmol Monga, Marcelo V. W. Zibetti, Richard Kijowski, and Ravinder R. Regatte
- Editorial**
- 700 **Editorial for "Repeatability of Quantitative Knee Cartilage T_1 , T_2 , and $T_{1\rho}$ Mapping with 3D-MRI Fingerprinting"**
Weitian Chen
- 702 **Age and Gender-Dependence of Single-and Bi-Exponential $T_{1\rho}$ MR Parameters in Knee Ligaments**
Hector Lise de Moura, Richard Kijowski, Xiaoxia Zhang, Azadeh Sharafi, Marcelo V. W. Zibetti, and Ravinder Regatte
- Editorial**
- 713 **Editorial for "Age and Gender-Dependence of Single- and Bi-Exponential $T_{1\rho}$ MR Parameters in Knee Ligaments"**
Man Li and Xu Dai
- Abdomen**
- 715 **Association Between MRI Radiomics and Intratumoral Tertiary Lymphoid Structures in Intrahepatic Cholangiocarcinoma and Its Prognostic Significance**
Ying Xu, Zhuo Li, Yi Yang, Yuwei Zhang, Lu Li, Yanzhao Zhou, Jingzhong Ouyang, Zhen Huang, Sicong Wang, Lizhi Xie, Feng Ye, Jinxue Zhou, Jianming Ying, Hong Zhao, and Xinming Zhao
- 729 **MR Assessed Changes of Renal Sinus Fat in Response to Glucose Regulation in West European and South Asian Patients With Type 2 Diabetes**
Ling Lin, Ilona A. Dekkers, Qian Tao, Elisabeth H.M. Paiman, Maurice B. Bizino, Ingrid M. Jazet, and Hildo J. Lamb
- Editorial**
- 739 **Editorial for "MR Assessed Changes of Renal Sinus Fat in Response to Glucose Regulation in West European and South Asian Patients With Type 2 Diabetes"**
Mohammad Shafi Kuchay and José Ignacio Martínez-Montoro
- Editorial**
- 741 **Hyperpolarized ^{13}C Metabolic MRI of Patients with Pancreatic Ductal Adenocarcinoma**
Jeremy W. Gordon, Hsin-Yu Chen, Tanner Nickles, Philip M. Lee, Robert Bok, Michael A. Ohlinger, Kimberly Okamoto, Andrew H. Ko, Peder E.Z. Larson, and Zhen J. Wang
- 750 **Editorial for "Hyperpolarized ^{13}C Metabolic MRI of Patients with Pancreatic Ductal Adenocarcinoma"**
Fraser J.L. Robb and Albert Chen
- Editorial**
- 752 **Value of Non-Contrast-Enhanced Vessel Wall MR Imaging in Assessing Vascular Invasion of Retroperitoneal Tumors**
Ying Cui, Yufei Zhao, Xiaohui Chen, Yang Jiang, Hui Mao, Shenghong Ju, and Xin-Gui Peng
- 765 **Editorial for "Value of Non-Contrast-Enhanced Vessel Wall MR Imaging in Assessing Vascular Invasion of Retroperitoneal Tumors"**
Ling Lin, Di Wu, and Yundan Jiang

- Pediatrics **767 Fetal MRI-Based Body and Adiposity Quantification for Small for Gestational Age Perinatal Risk Stratification**
Aviad Rabinowich, Netanell Avisdris, Bossmat Yehuda, Ayala Zilberman, Tamir Graziani, Bar Neeman, Bella Specktor-Fadida, Dafna Link-Sourani, Yair Wexler, Jacky Herzlich, Karina Krajden Haratz, Leo Joskowicz, Liat Ben Sira, Liran Hiersch, and Dafna Ben Bashat
- Editorial **775 Editorial to "Fetal MRI-Based Body and Adiposity Quantification for Small for Gestational Age Perinatal Risk Stratification"**
Rebecca N. Spencer and Malenka M. Bissell
- Technical **777 The Minimum Admissible Detuning Efficiency of MRI Receive-Only Surface Coils**
Sina Marhabaei, Aimé Labbé, Bruno Quesson, and Marie Poirier-Quinot
- Editorial **789 Dark Blood Contrast-Enhanced Brain MRI Using Echo-uT₁RESS**
Robert R. Edelman, Nondas Leloudas, William J. Ankenbrandt, Matthew T. Walker, George C. Bobustuc, Julian E. Bailes, Aaron A. Pruitt, and Ioannis Koktzoglou
- Editorial **798 Editorial for "Dark Blood Contrast-Enhanced Brain MRI Using Echo-uT₁RESS"**
Vladimír Mlynárik

Letter to the Editor

- 800 **The Neurovascular Coupling Concept Does Not Sufficiently Explain the Pathophysiology of Stroke-Like Lesions**
Josef Finsterer
- 802 **Response to "The Neurovascular Coupling Concept Does Not Sufficiently Explain the Pathophysiology of Stroke-Like Lesions"**
Rong Wang, Jie Lin, and Yuxin Li