

Reviews

- 1120 **Review of Hyperpolarized Pulmonary Functional ^{129}Xe MR for Long-COVID**
Jim M. Wild, Fergus V. Gleeson, Sarah Svenningsen, James T. Grist, Laura C. Saunders, Guilhem J. Collier, Maksym Sharma, Sam Tchnerer, Ali Mozaffaripour, Alexander M. Matheson, and Grace Parraga
- 1135 **Resting-State fMRI: Emerging Concepts for Future Clinical Application**
Shiori Amemiya, Hidemasa Takao, and Osamu Abe
- 1149 **Environmental Sustainability and MRI: Challenges, Opportunities, and a Call for Action**
Yuri V. Chaban, Jan Vosshenrich, Hayley McKee, Suvai Gunasekaran, Maura J Brown, Michael K. Atalay, Tobias Heye, Michael Markl, Sean A. Woolen, Orlando P. Simonetti, and Kate Hanneman

Commentary

- 1168 **Commentary for "Environmental Sustainability and MRI: Challenges, Opportunities, and a Call for Action"**
Derek K. Jones

Research Articles

Abdomen

- 1170 **Abdominal Diffusion-Weighted MRI With Simultaneous Multi-Slice Acquisition: Agreement and Reproducibility of Apparent Diffusion Coefficients Measurements**
Zheng Ye, Shan Yao, Ting Yang, Qing Li, Zhenlin Li, and Bin Song
- 1179 **A Nomogram of MRI Features to Assess Muscle Invasion in VI-RADS 2 Tumors With Stalk**
Lingkai Cai, Ruixi Yu, Peikun Liu, Juntao Zhuang, Kai Li, Qikai Wu, Xueying Sun, Yang Liu, Ming Zhou, Qiang Cao, Pengchao Li, Xiao Yang, and Qiang Lu

Editorial

- 1191 **Editorial for "A Nomogram of MRI Features to Assess Muscle Invasion in VI-RADS 2 Tumors With Stalk"**
Mitsuru Takeuchi
- 1193 **An Empirical Approach to Derive Water T_1 from Multiparametric MR Images Using an Automated Pipeline and Comparison With Liver Stiffness**
Filippo C. Michelotti, Yuliya Kupriyanova, Tim Mori, Thomas Küstner, Geronimo Heilmann, Maria Bombrich, Clara Möser, Martin Schön, Oliver Kuss, Michael Roden, and Vera B. Schrauwen-Hinderling

Editorial

- 1204 **Editorial for "An Empirical Approach to Derive Water T_1 From Multiparametric MR Images Using an Automated Pipeline and Comparison With Liver Stiffness"**
Pascal Spincemaille and Martin R. Prince

Breast

- 1206 **Analysis of the Correlation and Prognostic Significance of Tertiary Lymphoid Structures in Breast Cancer: A Radiomics-Clinical Integration Approach**
Kezhen Li, Juan Ji, Simin Li, Man Yang, Yurou Che, Zhu Xu, Yiyao Zhang, Mei Wang, Zengyi Fang, Liping Luo, Chuan Wu, Xin Lai, Juan Dong, Xinlan Zhang, Na Zhao, Yang Liu, and Weidong Wang
- 1218 **Problem Solving MRI to Reduce False-Positive Biopsy Related to Breast US: Conductivity vs. DWI vs. Abbreviated Contrast-Enhanced MRI**
Jun-Hyeong Kim, Soo-Yeon Kim, Chuanjiang Cui, Hye Ji, Heera Yoen, Nariya Cho, and Dong-Hyun Kim

Editorial

- 1229 **Editorial for "Problem Solving MRI to Reduce False-Positive Biopsy Related to Breast US: Conductivity vs. DWI vs. Abbreviated Contrast-Enhanced MRI"**
Ulrich Katscher

Cardiac

- 1231 **From Compressed-Sensing to Deep Learning MR: Comparative Biventricular Cardiac Function Analysis in a Patient Cohort**
Xianghu Yan, Yi Luo, Xiao Chen, Eric Z. Chen, Qi Liu, Lixian Zou, Yuwei Bao, Lu Huang, and Liming Xia

- 1242 Remodeling in Aortic Stenosis With Reduced and Preserved Ejection Fraction: Insight on Motion Abnormality Via 3D + Time Personalized LV Modeling in Cardiac MRI**
Shoon Hui Chuah, Li Kuo Tan, Nor Ashikin Md Sari, Bee Ting Chan, Khairunnisa Hasikin, Einly Lim, Ngie Min Ung, Yang Faridah Abdul Aziz, Jeyaraaj Jayabalan, and Yih Miin Liew
- Editorial**
- 1256 Editorial for "Remodeling in Aortic Stenosis With Reduced and Preserved Ejection Fraction: Insight on Motion Abnormality Via 3D+Time Personalized LV Modelling in Cardiac MRI"**
Yin Guo, Ebru Yaman Akcicek, and Chun Yuan
- 1258 Myocardial Blood Flow Determination From Contrast-Free Magnetic Resonance Imaging Quantification of Coronary Sinus Flow**
Jakob Koefoed Tingsgaard, Martin Heyn Sørensen, Annemie Stege Bojer, Robert H. Anderson, David Andrew Broadbent, Sven Plein, Peter Gæde, and Per Lav Madsen
- Editorial**
- 1267 Editorial for "Myocardial Blood Flow Determination from Contrast-Free Magnetic Resonance Imaging Quantification of Coronary Sinus Flow"**
Marko Boban and Marinko Zulj
- Head and Neck**
- 1269 Blood–Brain Barrier Permeability to Water Measured Using Multiple Echo Time Arterial Spin Labeling MRI in the Aging Human Brain**
Amnah Mahroo, Simon Konstandin, and Matthias Günther
- Editorial**
- 1283 Editorial for "Blood–Brain Barrier Permeability to Water Measured Using Multiple Echo Time Arterial Spin Labeling MRI in the Aging Human Brain"**
Ahmet K. Poyraz and Melahat Poyraz
- Musculoskeletal**
- 1285 Assessment of Osteoporosis at the Lumbar Spine Using Ultrashort Echo Time Magnetization Transfer (UTE-MT) MRI**
Yuxuan Li, Xiaoling Liang, Jin Liu, and Yajun Ma
- 1299 Biceps Pulley Lesions: Diagnostic Accuracy of Nonarthrographic Shoulder MRI and the Value of Various Diagnostic Signs**
Mohamad Gamal Nada, Yassir Edrees Almalki, Mohammad Abd Alkhalik Basha, Yasmin Ibrahim Libda, Mohamed M. A. Zaitoun, Ahmed A. El-Hamid M. Abdalla, Rania Mostafa Almolla, Hanan A. Hassan, Tamer Mahmoud Dawoud, Ahmad Hassan Zaki Eissa, Sharifa Khalid Alduraibi, Diaa Bakry Eldib, and Yara Mohammed Ahmad Ali Ziada
- 1312 Characterization of Age-Related and Sex-Related Differences of Relaxation Parameters in the Intervertebral Disc Using MR-Fingerprinting**
Rajiv G. Menon, Anmol Monga, Richard Kijowski, and Ravinder R. Regatte
- Editorial**
- 1325 Editorial for "Characterization of Age-Related and Sex-Related Differences of Relaxation Parameters in the Intervertebral Disc Using MR-Fingerprinting"**
Hanqi Wang and Yong Lu
- Neuro**
- 1327 Harmonizing T1-Weighted Images to Improve Consistency of Brain Morphology Among Different Scanner Manufacturers in Alzheimer's disease**
Shilun Zhao, Tianhao Zhang, Wei Zhang, Tingting Pan, Ge Zhang, Shuang Feng, Xiwan Zhang, Binbin Nie, Hua Liu, and Baoci Shan, For the Alzheimer's Disease Neuroimaging Initiative
- 1341 The Association of Metabolic Brain MRI, Amyloid PET, and Clinical Factors: A Study of Alzheimer's Disease and Normal Controls From the Open Access Series of Imaging Studies Dataset**
Shu Matsushita, Hiroyuki Tatekawa, Daiju Ueda, Hirotaka Takita, Daisuke Horiuchi, Taro Tsukamoto, Taro Shimono, and Yukio Miki
- 1349 Short- and Long-Term MRI Assessed Hemodynamic Changes in Pediatric Moyamoya Patients After Revascularization**
Moss Y. Zhao, Elizabeth Tong, Rui Duarte Armindo, Ates Fettahoglu, Jason Choi, Jacob Bagley, Kristen W. Yeom, Michael Moseley, Gary K. Steinberg, and Greg Zaharchuk
- 1358 Alteration of White Matter Connectivity for MR-Guided Focused Ultrasound in the Treatment of Essential Tremor**
Xiaoyu Wang, Jiayi Lin, Haoxuan Lu, Yongqin Xiong, Caohui Duan, Dong Zhang, Jiayu Huang, Linlin Deng, Chenxi Li, Runze Li, Dekang Zhang, Xiangbing Bian, Jiayou Zhou, Longsheng Pan, and Xin Lou
- Editorial**
- 1371 Editorial for "Alteration of White Matter Connectivity for MR-Guided Focused Ultrasound in the Treatment of Essential Tremor"**
Desmond Teck Beng Yeo

- 1373** **Glutamate Chemical Exchange Saturation Transfer (GluCEST) MRI to Evaluate the Rapid Antidepressant Effects of Ketamine in the Hippocampus of Rat Depression Model**
Hao Li, Xunrong Luo, Kai Qi, Yijie Lv, Junnan Kan, Changfeng Yang, Xiaoqian Lin, Jin Tao, Wei Zhang, Yan Liu, Kang Rong, Ailing Wang, Zhongde Jiang, and Xianglin Li
- Editorial**
- 1382** **Editorial for "Glutamate Chemical Exchange Saturation Transfer (GluCEST) MRI to Evaluate the Rapid Antidepressant Effects of Ketamine in the Hippocampus of Rat Depression Model"**
Erkan Gökçe
- Pediatrics**
- 1384** **Diffusion-Weighted MRI of the Fetal Brain in Fetal Growth Restriction With Maternal Preeclampsia or Gestational Hypertension**
Weizeng Zheng, Guohui Yan, Ying Jiang, Zhongkun Bao, Kui Li, Meixiang Deng, Baohua Li, and Yu Zou
- Pelvis**
- 1394** **Deep Learning Nomogram for the Identification of Deep Stromal Invasion in Patients With Early-Stage Cervical Adenocarcinoma and Adenosquamous Carcinoma: A Multicenter Study**
Mei Ling Xiao, Ting Qian, Le Fu, Yan Wei, Feng Hua Ma, Wei Yong Gu, Hai Ming Li, Yong Ai Li, Zhao Xia Qian, Jie Jun Cheng, Guo Fu Zhang, and Jin Wei Qiang
- Editorial**
- 1407** **Editorial for "Deep Learning Nomogram for the Identification of Deep Stromal Invasion in Patients With Early-Stage Cervical Adenocarcinoma and Adenosquamous Carcinoma: A Multicenter Study"**
Nikolaos-Achilleas Arkoudis and Nikolaos L. Kelekis
- 1409** **Weakly Supervised MRI Slice-Level Deep Learning Classification of Prostate Cancer Approximates Full Voxel- and Slice-Level Annotation: Effect of Increasing Training Set Size**
Cedric Weißer, Nils Netzer, Magdalena Görtz, Viktoria Schütz, Thomas Hielscher, Constantin Schwab, Markus Hohenfellner, Heinz-Peter Schlemmer, Klaus H. Maier-Hein, and David Bonekamp
- Editorial**
- 1423** **Editorial for "Weakly Supervised MRI Slice-Level Deep Learning Classification of Prostate Cancer Approximates Full Voxel- and Slice-Level Annotation: Effect of Increasing Training Set Size"**
Jiancheng Zhuang
- Technical**
- 1425** **A Channel-Dimensional Feature-Reconstructed Deep Learning Model for Predicting Breast Cancer Molecular Subtypes on Overall *b*-Value Diffusion-Weighted MRI**
Xin-Xiang Zhou, Lan Zhang, Quan-Xiang Cui, Hui Li, Xi-Qiao Sang, Hong-Xia Zhang, Yue-Min Zhu, and Zi-Xiang Kuai
- Editorial**
- 1436** **Editorial for "A Channel-Dimensional Feature-Reconstructed Deep Learning Model for Predicting Breast Cancer Molecular Subtypes on Overall *b*-Value Diffusion-Weighted MRI"**
Mojtaba Barzegar and Simone Schiaffino
- 1438** **A Lightweight Convolutional Neural Network Based on Dynamic Level-Set Loss Function for Spine MR Image Segmentation**
Siyuan He, Qi Li, Xianda Li, and Mengchao Zhang
- Editorial**
- 1454** **Editorial for "A Lightweight Convolutional Neural Network Based on Dynamic Level-Set Loss Function for Spine MR Image Segmentation"**
Hayaru Shouno and Tomohisa Okada
- Vascular**
- 1456** **Predictors of Stroke Outcomes in Conservatively Treated Patients With Moyamoya Disease: A Follow-up MRI Study**
Hongtao Zhang, Mingming Lu, Shitong Liu, Dongqing Liu, Xu Liu, Xuxuan Shen, Cong Han, Fugeng Sheng, and Jianming Cai
- Letters to the Editor**
-
- Neuro**
- 1464** **Validity of Quantitative, Multi-Parametric MRI in the Diagnosis of Polyneuropathies**
Josef Finsterer
- 1465** **Response to "Validity of Quantitative, Multi-Parametric MRI in the Diagnosis of Polyneuropathies"**
Yongsheng Chen, Richard D. Dortch, and Jun Li

Errata

- 1467 Erratum to "Advanced MR Techniques for Preoperative Glioma Characterization: Part 1"
- 1468 Erratum to "Advanced MR Techniques for Preoperative Glioma Characterization: Part 2"