

Reviews

- CME** **1257 Brain Perfusion Imaging: How Does It Work and What Should I Use?**
Blake E. McGehee, Jeffrey M. Pollock, and Joseph A. Maldjian
- CME** **1273 Time-Resolved Angiography: Past, Present, and Future**
Thomas M. Grist, Charles A. Mistretta, Charles M. Strother, and Patrick A. Turski
- CME** **1287 Evaluation of Chondral Repair Using Quantitative MRI**
Mitka T. Nieminen, Mikko J. Nissi, Lauri Mattila, and Ilkka Kiviranta
- 1300 Rapid Gradient-Echo Imaging**
Brian A. Hargreaves

Review: MR Physics for Clinicians

- CME** **1314 Hyperpolarized ¹³C Metabolic Imaging Using Dissolution Dynamic Nuclear Polarization**
Ralph E. Hurd, Yi-Fen Yen, Albert Chen, and Jan Henrik Ardenkjær-Larsen

Original Research

Neuroimaging

- 1329 Assessment of Myelination in Hypomyelinating Disorders by Quantitative MRI**
Steffi F. Dreha-Kulaczewski, Knut Brockmann, Marco Henneke, Peter Dechent, Bernd Wilken, Jutta Gärtner, and G. Helms
- 1339 Evaluation of Pressure-Driven Brain Infusions in Nonhuman Primates by Intra-operative 7 Tesla MRI**
Kathryn H. Rosenbluth, Alastair J. Martin, John Bringas, and Krystof S. Bankiewicz
- 1347 T2'- and PASL-Based Perfusion Mapping at 3 Tesla: Influence of Oxygen-Ventilation on Cerebral Autoregulation**
Marlies Wagner, Jörg Magerkurth, Steffen Volz, Alina Jurcoane, Oliver C. Singer, Tobias Neumann-Haefelin, Friedhelm E. Zanella, Ralf Deichmann, and Elke Hattingen
- 1353 Multilayer Appearance on Contrast-Enhanced Susceptibility-Weighted Images on Patients With Brain Abscesses: Possible Origins and Effects of Postprocessing**
Hing-Chiu Chang, Tzu-Chao Chuang, Hsiao-Wen Chung, Huey-Shyan Lin, Ping-Hong Lai, Mei-Jui Weng, Jui-Hsun Fu, Po-Chin Wang, Shang-Chieh Li, and Huay-Ben Pan

Cardiovascular Imaging

- 1362 Accelerating Three-Dimensional Molecular Cardiovascular MR Imaging Using Compressed Sensing**
Claudia Prieto, Marcelo E. Andia, Christian von Bary, David C. Onthank, Tobias Schaeffter, and Rene M. Botnar
- 1372 Evaluation of Phase-Sensitive Versus Magnitude Reconstructed Inversion Recovery Imaging for the Assessment of Myocardial Infarction in Mice With a Clinical Magnetic Resonance Scanner**
Moritz Wildgruber, Marcus Settles, Katja Kosanke, Isabella Bielicki, Vasilis Ntziachristos, Ernst J. Rummeny, René M. Botnar, and Armin M. Huber

Breast Imaging

- 1383 Breast Imaging: Is the Sonographic Descriptor of Orientation Valid for Magnetic Resonance imaging?**
Tatiane M.G. Oliveira, Tatiana Kelly Brasileiro Sant'Anna, Fernando M. Mauad, and Jorge Elias, Jr., and Valdair F. Muglia

Gastrointestinal Imaging

- 1389 Hepatic Transit Time Analysis Using Contrast Enhanced MRI With Gd-BOPTA: A Prospective Study Comparing Patients With Liver Metastases from Colorectal Cancer and Healthy Volunteers**
Joachim Hohmann, Caroline Newerla, Anja Müller, Christine Reinicke, Jan Skrok, Bernd B. Frericks, and Thomas Albrecht
- 1395 Use of Conventional MR Imaging and Diffusion-Weighted Imaging for Evaluating the Risk Grade of Gastrointestinal Stromal Tumors**
Hai Ying Zhou, Xiao Ming Zhang, Nan Lin Zeng, Shun Hai Jian, and Wei Tang

- Genitourinary Imaging** **1402 Registration of Prostate Histology Images to Ex Vivo MR Images Via Strand-Shaped Fiducials**
Eli Gibson, Cathie Crukley, Mena Gaed, José A. Gómez, Madeleine Moussa, Joseph L. Chin, Glenn S. Bauman, Aaron Fenster, and Aaron D. Ward
- Musculoskeletal Imaging** **1413 Cervical Muscle Area Measurements in Whiplash Patients: Acute, 3, and 6 Months of Follow-up**
Erika J. Ulbrich, Ramon Aeberhard, Sylvia Wetli, Andre Busato, Chris Boesch, Heinz Zimmermann, Juerg Hodler, Suzanne E. Anderson, and Matthias Sturzenegger
- Body Imaging** **1421 Automatic Quantification of Subcutaneous and Visceral Adipose Tissue From Whole-Body Magnetic Resonance Images Suitable for Large Cohort Studies**
Diana Wald, Birgit Teucher, Julien Dinkel, Rudolf Kaaks, Stefan Delorme, Heiner Boeing, Katharina Seidensaal, Hans-Peter Meinzer, and Tobias Heimann
- Vascular Imaging** **1435 Functional Arterial Spin Labeling: Optimal Sequence Duration for Motor Activation Mapping in Clinical Practice**
Hélène Raoult, Jean-Christophe Ferré, Jan Petr, Elise Bannier, Aymeric Stamm, Christian Barillot, and Jean-Yves Gauvrit
- Magnetic Resonance Spectroscopy** **1445 Reproducibility of ¹H MR Spectroscopy of Hip Bone Marrow at 3 Tesla**
Vittorio M. Pansini, Aurélien Monnet, Julia Salleron, Guillaume Penel, Henry Migaud, and Anne Cotten
- Technical Developments** **1450 Variable Velocity Encoding in a Three-Dimensional, Three-Directional Phase Contrast Sequence: Evaluation in Phantom and Volunteers**
Anders Nilsson, Karin Markenroth Bloch, Marcus Carlsson, Einar Heiberg, and Freddy Ståhlberg
- Technical Notes** **1460 Susceptibility Phase Imaging With Improved Image Contrast Using Moving Window Phase Gradient Fitting and Minimal Filtering**
Andrew J. Walsh, Amir Eissa, Gregg Blevins, and Alan H. Wilman
-
- 1470 Evaluation of Sampling Density on the Accuracy of Aortic Pulse Wave Velocity From Velocity-Encoded MRI in Patients With Marfan Syndrome**
Eleanore S.J. Kröner, Rob J. van der Geest, Arthur J.H.A. Scholte, Lucia J.M. Kroft, Pieter J. van den Boogaard, Dennis Hendriksen, Hildo J. Lamb, Hans-Marc J. Siebelink, Barbara J.M. Mulder, Maarten Groenink, Teodora Radonic, Yvonne Hilhorst-Hofstee, Jeroen J. Bax, Ernst E. van der Wall, Albert de Roos, Johan H.C. Reiber, and Jos J.M. Westenberg
- 1477 Real-Time Flow With Fast GPU Reconstruction for Continuous Assessment of Cardiac Output**
Grzegorz Tomasz Kowalik, Jennifer Anne Steeden, Bejal Pandya, Freddy Odille, David Atkinson, Andrew Taylor, and Vivek Muthurangu
- 1483 Assessment of Liver Function in Thioacetamide-Induced Rat Acute Liver Injury Using an Empirical Mathematical Model and Dynamic Contrast-Enhanced MRI With Gd-EOB-DTPA**
Shigeyoshi Saito, Yuki Moriyama, Shuichiro Kobayashi, Ryota Ogihara, Daichi Koto, Akihiro Kitamura, Taro Matsushita, Motoko Nishiura, and Kenya Murase
- 1490 Assessment of the Liver Strain Among Cirrhotic and Normal Livers Using Tagged MRI**
Lorenzo Mannelli, Gregory J. Wilson, Theodore J. Dubinsky, Christopher A. Potter, Puneet Bhargava, Carlos Cuevas, Ken F. Linnau, Orpheus Kolokythas, Martin L. Gunn, and Jeffrey H. Maki

1496 Expression of Appreciation: 2011 JMRI Reviewers