

Publications of the Medical Physics Group
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2018

1. S Hametner, V Endmayr, A Deistung, P Palmrich, M Prihoda, E Haimburger, C Menard, X Feng, T Haider, M Leisser, U Köck, A Kaider, R Höftberger, S Robinson, JR Reichenbach, H Lassmann, H Traxler, S Trattnig, G Grabner (2018). *The influence of brain iron and myelin on magnetic susceptibility and effective transverse relaxation - A biochemical and histological validation study.* *NeuroImage* (179), 117 - 133
2. K Moll, A Gussew, M Nisser, S Derlien, M Krämer, JR Reichenbach (2018). *Comparison of metabolic adaptations between endurance- and sprint-trained athletes after an exhaustive exercise in two different calf muscles using a multi-slice 31P-MR spectroscopic sequence.* *NMR in Biomedicine* (31), e3889
3. M Vaas, A Deistung, JR Reichenbach, A Keller, A Kipar, J Klohs (2018). *Vascular and Tissue Changes of Magnetic Susceptibility in the Mouse Brain After Transient Cerebral Ischemia.* *Translational Stroke Research* (9), 426–435
4. S Smesny, J Große, A Gussew, K Langbein, N Schönfeld, G Wagner, M Valente, JR Reichenbach (2018). *Prefrontal glutamatergic emotion regulation is disturbed in cluster B and C personality disorders – A combined 1H/31P-MR spectroscopic study.* *Journal of Affective Disorders* (227), 688 - 697
5. DM Renz, S Kümpel, J Böttcher, A Pfeil, F Streitparth, M Waginger, JR Reichenbach, UK Teichgräber, H-J Mentzel (2018). *Comparison of Unenhanced T1-Weighted Signal Intensities Within the Dentate Nucleus and the Globus Pallidus After Serial Applications of Gadopentetate Dimeglumine Versus Gadobutrol in a Pediatric Population.* *Investigative Radiology* (53)
6. J Hagemeier, R Zivadinov, MG Dwyer, P Polak, N Bergsland, B Weinstock-Guttman, J Zalis, A Deistung, JR Reichenbach, F Schweser (2018). *Changes of deep gray matter magnetic susceptibility over 2 years in multiple sclerosis and healthy control brain.* *NeuroImage: Clinical* (18), 1007 - 1016

2017

7. A Deistung, F Schweser, JR Reichenbach (2017). *Overview of quantitative susceptibility mapping.* *NMR Biomed* (30), e3569
8. X Feng, A Deistung, MG Dwyer, J Hagemeier, P Polak, J Leibenberg, Féé Frouin, R Zivadinov, JR Reichenbach, F Schweser (2017). *An improved FSL-FIRST pipeline for subcortical gray matter segmentation to study abnormal brain anatomy using quantitative susceptibility mapping (QSM).* *Magn Reson Imaging* (39), 110–122
9. J Hanspach, MG Dwyer, NP Bergsland, X Feng, J Hagemeier, N Bertolino, P Polak, JR Reichenbach, R Zivadinov, F Schweser (2017). *Methods for the computation of templates from quantitative magnetic susceptibility maps (QSM): Toward improved atlas- and voxel-based analyses (VBA).* *Journal of magnetic resonance imaging : JMRI* (46), 1474–1484
10. PS Özbay, A Deistung, X Feng, D Nanz, JR Reichenbach, F Schweser (2017). *A comprehensive numerical analysis of background phase correction with V-SHARP.* *NMR Biomed* (30), e3550
11. CC Schultz, G Wagner, C Schachtzabel, JR Reichenbach, RGM Schlösser, H Sauer, K Koch (2017). *Increased white matter radial diffusivity is associated with prefrontal cortical folding deficits in schizophrenia.* *Psychiatry Res* (261), 91–95
12. CC Schultz, G Wagner, F de la Cruz, S Berger, JR Reichenbach, H Sauer, KJ Bär (2017). *Evidence for alterations of cortical folding in anorexia nervosa.* *Eur Arch Psychiatry Clin Neurosci* (267), 41–49
13. N Stutzig, R Rzanny, K Moll, A Gussew, JR Reichenbach, T Siebert (2017). *Interpretation of pH-heterogeneity in human muscle induced by neuromuscular electrical stimulation.* *Magn Reson Med* (77), 466
14. G Wagner, M Herbsleb, F de la Cruz, A Schumann, S Köhler, C Puta, HW Gabriel, JR Reichenbach, K-J Bär (2017). *Changes in fMRI activation in anterior hippocampus and motor cortex during memory retrieval after an intense exercise intervention.* *Biol Psychol* (124), 65–78
15. M Cleve, M Krämer, A Gussew, JR Reichenbach (2017). *Difference optimization: Automatic correction of relative frequency and phase for mean non-edited and edited GABA (1)H MEGA-PRESS spectra.* *JMR* (279), 16–21

16. K Moll, A Gussew, C Hein, N Stutzig, JR Reichenbach (2017). *Combined spiroergometry and (31) P-MRS of human calf muscle during high-intensity exercise*. *NMR Biomed*, e3723
17. M Krämer, AG Motaal, K-H Herrmann, B Löffler, JR Reichenbach, GJ Strijkers, V Hoerr (2017). *Cardiac 4D phase-contrast CMR at 9.4 T using self-gated ultra-short echo time (UTE) imaging*. *J Cardiovasc Magn Reson* (19), 39
18. X Feng, A Deistung, JR Reichenbach (2017). *Quantitative susceptibility mapping (QSM) and R2(*) in the human brain at 3T: Evaluation of intra-scanner repeatability*. *Z Med Phys*
19. A Tesch, C Wenisch, K-H Herrmann, JR Reichenbach, P Warncke, D Fischer, FA Müller (2017). *Luminomagnetic Eu(3+)- and Dy(3+)-doped hydroxyapatite for multimodal imaging*. *Materials Science & Engineering. C* (81), 422–431
20. M Cleve, A Gussew, G Wagner, K-J Bär, JR Reichenbach (2017). *Assessment of intra- and inter-regional interrelations between GABA+, Glx and BOLD during pain perception in the human brain - A combined (1)H fMRS and fMRI study*. *Neuroscience* (365), 125–136
21. K Langbein, J Hesse, A Gussew, B Milleit, S Lavoie, GP Amminger, C Gaser, G Wagner, JR Reichenbach, U-C Hippler, D Winter, S Smesny (2017). *Disturbed glutathione antioxidative defense is associated with structural brain changes in neuroleptic-naïve first-episode psychosis patients. Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA)*
22. B Christ, U Dahmen, K-H Herrmann, M König, JR Reichenbach, T Ricken, J Schleicher, L Ole Schwen, S Vlaic, N Waschinsky (2017). *Computational Modeling in Liver Surgery*. *Frontiers in Physiology* (8), 906
23. D Kentrup, P Bovenkamp, A Busch, K Schuette-Nuetgen, H Pawelski, H Pavenstädt, E Schlatter, K-H Herrmann, JR Reichenbach, B Löffler, B Heitplatz, VV Marck, NN Yadav, G Liu, PCM Zijl, S Reuter, V Hoerr (2017). *GlucoCEST magnetic resonance imaging in vivo may be diagnostic of acute renal allograft rejection*. *Kidney International* (92), 757 - 764
24. J Steinke, C Gaser, K Langbein, M Dietzek, A Gussew, JR Reichenbach, S Smesny, H Sauer, I Nenadić (2017). *Hippocampal metabolism and prefrontal brain structure: A combined 1H-MR spectroscopy, neuropsychological, and voxel-based morphometry (VBM) study*. *Brain Research* (1677), 14 - 19
25. D Güllmar, T Seeliger, H Gudziol, UKM Teichgräber, JR Reichenbach, O Guntinas-Lichius, T Bitter (2017). *Improvement of olfactory function after sinus surgery correlates with white matter properties measured by diffusion tensor imaging*. *Neuroscience* (360), 190 - 196
26. I Nenadić, A Hoof, M Dietzek, K Langbein, JR Reichenbach, H Sauer, D Güllmar (2017). *Diffusion tensor imaging of cingulum bundle and corpus callosum in schizophrenia vs. bipolar disorder*. *Psychiatry Research: Neuroimaging* (266), 96 - 100

2016

27. B Besteher, G Wagner, K Koch, C Schachtzabel, JR Reichenbach, R Schlösser, H Sauer, CC Schultz (2016). *Pronounced prefronto-temporal cortical thinning in schizophrenia: Neuroanatomical correlate of suicidal behavior?*. *Schizophrenia research* (176), 151–157
28. A Deistung, MR Stefanescu, TM Ernst, M Schlamann, ME Ladd, JR Reichenbach, D Timmann (2016). *Structural and Functional Magnetic Resonance Imaging of the Cerebellum: Considerations for Assessing Cerebellar Ataxias*. *Cerebellum* (15), 21–25
29. TM Doring, V Granado, F Rueda, A Deistung, JR Reichenbach, G Tukamoto, EL Gasparetto, F Schweser (2016). *Quantitative Susceptibility Mapping Indicates a Disturbed Brain Iron Homeostasis in Neuromyelitis Optica - A Pilot Study*. *PloS one* (11), e0155027
30. M Grotheer, K-H Herrmann, G Kovács (2016). *Neuroimaging Evidence of a Bilateral Representation for Visually Presented Numbers*. *J Neurosci* (36), 88–97
31. K-H Herrmann, M Krämer, JR Reichenbach (2016). *Time Efficient 3D Radial UTE Sampling with Fully Automatic Delay Compensation on a Clinical 3T MR Scanner*. *PLoS One* (11), e0150371
32. L Janetzki, A Gussew, R Malessa, U Habenicht, JR Reichenbach, B Strauß, C Borys (2016). *Cerebral metabolic changes and chronic back pain : Study taking into consideration clinical and psychological parameters*. *Schmerz* (30), 134-140
33. A Klepaczko, P Szczypinski, A Deistung, JR Reichenbach, A Materka (2016). *Simulation of MR angiography imaging for validation of cerebral arteries segmentation algorithms*. *Comput Methods Programs Biomed* (137), 293–309
34. J Klohs, A Deistung, GD Ielacqua, A Seuwen, D Kindler, F Schweser, M Vaas, A Kipar, JR Reichenbach, M Rudin (2016). *Quantitative assessment of microvasculopathy in arcAβ mice with*

USPIO-enhanced gradient echo MRI. Journal of cerebral blood flow and metabolism: official journal of the International Society of Cerebral Blood Flow and Metabolism (36), 1614–1624

35. C Langkammer, L Pirpamer, S Seiler, A Deistung, F Schweser, S Franthal, N Homayoon, P Katschnig-Winter, M Koegl-Wallner, T Pendl, EM Stoegerer, K Wenzel, F Fazekas, S Ropele, JR Reichenbach, R Schmidt, P Schwingenschuh (2016). *Quantitative Susceptibility Mapping in Parkinson's Disease*. *PLoS One* (11), e0162460
36. S Lau, D Güllmar, L Flemming, DB Grayden, MJ Cook, CH Wolters, J Haueisen (2016). *Skull Defects in Finite Element Head Models for Source Reconstruction from Magnetoencephalography Signals*. *Front Neurosci* (10), 141
37. TG Lesser, H Schubert, D Güllmar, JR Reichenbach, F Wolfram (2016). *One-lung flooding reduces the ipsilateral diaphragm motion during mechanical ventilation*. *Eur J Med Res* (21), 9
38. R Rzanny, N Stutzig, P Hiepe, A Gussew, H-A Thorhauer, JR Reichenbach (2016). *The reproducibility of different metabolic markers for muscle fiber type distributions investigated by functional (31)P-MRS during dynamic exercise*. *Z Med Phys* (26), 323–338
39. F Schweser, A Deistung, JR Reichenbach (2016). *Foundations of MRI phase imaging and processing for Quantitative Susceptibility Mapping (QSM)*. *Z Med Phys* (26), 6–34
40. N Stutzig, R Rzanny, K Moll, A Gussew, JR Reichenbach, T Siebert (2016). *The pH heterogeneity in human calf muscle during neuromuscular electrical stimulation*. *Magnetic Resonance in Medicine*
41. G Wagner, A Gussew, S Köhler, F de la Cruz, S Smesny, JR Reichenbach, K-J Bär (2016). *Resting state functional connectivity of the hippocampus along the anterior-posterior axis and its association with glutamatergic metabolism*. *Cortex* (81), 104–117

2015

42. M Cleve, A Gussew, JR Reichenbach (2015). *In vivo detection of acute pain-induced changes of GABA+ and Glx in the human brain by using functional (1)H MEGA-PRESS MR spectroscopy*. *Neuroimage* (105), 67–75
43. C Dinh, D Strohmeier, M Luessi, D Güllmar, D Baumgarten, J Haueisen, MS Hämäläinen (2015). *Real-Time MEG Source Localization Using Regional Clustering*. *Brain Topogr*, 1–14
44. J Domey, C Bergemann, S Bremer-Streck, I Krumbein, JR Reichenbach, U Teichgräber, I Hilger (2015). *Long-term prevalence of NIRF-labeled magnetic nanoparticles for the diagnostic and intraoperative imaging of inflammation*. *Nanotoxicology*, 1–12
45. P Hiepe, A Gussew, R Rzanny, E Kurz, C Anders, M Walther, H-C Scholle, JR Reichenbach (2015). *Age-related structural and functional changes of low back muscles*. *Exp Gerontol* (65), 23–34
46. J Klohs, A Deistung, GD Ielacqua, A Seuwen, D Kindler, F Schweser, M Vaas, A Kipar, JR Reichenbach, M Rudin (2015). *Quantitative assessment of microvasculopathy in arcAβ mice with USPIO-enhanced gradient echo MRI*. *J Cereb Blood Flow Metab*
47. M Krämer, J Biermann, JR Reichenbach (2015). *Intrinsic Correction of System Delays for Radial Magnetic Resonance Imaging*. *Magn Reson Imaging* (33), 491–496
48. L Landgraf, C Christner, W Storck, I Schick, I Krumbein, H Dähring, K Haedicke, K Heinz-Herrmann, U Teichgräber, JR Reichenbach, W Tremel, S Tenzer, I Hilger (2015). *A plasma protein corona enhances the biocompatibility of Au@Fe₃O₄ Janus particles*. *Biomaterials* (68), 77–88
49. I Nenadic, R Maitra, K Langbein, M Dietzek, C Lorenz, S Smesny, JR Reichenbach, H Sauer, C Gaser (2015). *Brain structure in schizophrenia vs. psychotic bipolar I disorder: A VBM study*. *Schizophr Res* (165), 212–219
50. I Nenadic, R Maitra, S Basu, M Dietzek, N Schönfeld, C Lorenz, A Gussew, GP Amminger, P McGorry, JR Reichenbach, H Sauer, C Gaser, S Smesny (2015). *Associations of hippocampal metabolism and regional brain grey matter in neuroleptic-naïve ultra-high-risk subjects and first-episode schizophrenia*. *Eur Neuropsychopharmacol*
51. I Nenadic, D Güllmar, M Dietzek, K Langbein, J Steinke, C Gaser (2015). *Brain structure in narcissistic personality disorder: a VBM and DTI pilot study*. *Psychiatry Res* (231), 184–186
52. T Prell, V Hartung, F Tietz, S Penzlin, B Ilse, F Schweser, A Deistung, M Bokemeyer, JR Reichenbach, OW Witte, J Grosskreutz (2015). *Susceptibility-Weighted Imaging Provides Insight into White Matter Damage in Amyotrophic Lateral Sclerosis*. *PLoS One* (10), e0131114
53. JR Reichenbach, F Schweser, B Serres, A Deistung (2015). *Quantitative Susceptibility Mapping: Concepts and Applications*. *Clin Neuroradiol*
54. CC Schultz, G Wagner, F de la Cruz, S Berger, JR Reichenbach, H Sauer, KJ Bär (2015). *Evidence for alterations of cortical folding in anorexia nervosa*. *Eur Arch Psychiatry Clin Neurosci*

55. F Schweser, A Deistung, JR Reichenbach (2015). *Foundations of MRI phase imaging and processing for Quantitative Susceptibility Mapping (QSM)*. *Z Med Phys*
56. S Smesny, A Gussew, NJ Biesel, S Schack, M Walther, R Rzanny, B Milleit, C Gaser, T Sobanski, CC Schultz, P Amminger, U-C Hippler, H Sauer, JR Reichenbach (2015). *Glutamatergic dysfunction linked to energy and membrane lipid metabolism in frontal and anterior cingulate cortices of never treated first-episode schizophrenia patients*. *Schizophr Res*
57. G Wagner, M Herbsleb, F Cruz, A Schumann, F Brünner, C Schachtzabel, A Gussew, C Puta, S Smesny, HW Gabriel, JR Reichenbach, K-J Bär (2015). *Hippocampal structure, metabolism, and inflammatory response after a 6-week intense aerobic exercise in healthy young adults: a controlled trial*. *J Cereb Blood Flow Metab*
58. G Wagner, F De la Cruz, C Schachtzabel, D Güllmar, CC Schultz, RG Schlösser, K-J Bär, K Koch (2015). *Structural and functional dysconnectivity of the fronto-thalamic system in schizophrenia: a DCM-DTI study*. *Cortex* (66), 35–45

2014

59. S Fischer, C Engelmann, K-H Herrmann, JR Reichenbach, OW Witte, F Weih, A Kretz, R Haenold (2014). *In vivo Imaging of Optic Nerve Fiber Integrity by Contrast-Enhanced MRI in Mice*. *J Vis Exp*
60. R Haenold, F Weih, K-H Herrmann, K-F Schmidt, K Krempler, C Engelmann, K-A Nave, JR Reichenbach, S Löwel, OW Witte, A Kretz (2014). *NF- κ B determines axonal re- and degeneration by cell-specific balance of RelA and p50 subunits in the adult CNS*. *J Cell Sci* (127), 3052–3065
61. K-H Herrmann, C Gärtner, D Güllmar, M Krämer, JR Reichenbach (2014). *3D printing of MRI compatible components: Why every MRI research group should have a low-budget 3D printer*. *Med Eng Phys* (36), 1373–1380
62. P Hiepe, A Gussew, R Rzanny, C Anders, M Walther, H-C Scholle, JR Reichenbach (2014). *Interrelations of muscle functional MRI, diffusion-weighted MRI and (31)P-MRS in exercised lower back muscles*. *NMR Biomed* (27), 958–970
63. M Krämer, JR Reichenbach (2014). *High resolution T2(*)-weighted Magnetic Resonance Imaging at 3 Tesla using PROPELLER-EPI*. *Z Med Phys* (24), 164–173
64. M Krämer, K-H Herrmann, J Biermann, S Freiburger, M Schwarzer, JR Reichenbach (2014). *Self-gated cardiac Cine MRI of the rat on a clinical 3T MRI system*. *NMR Biomed* (28), 162–167
65. U Löbel, F Schweser, M Nickel, A Deistung, R Grosse, C Hagel, J Fiehler, A Schulz, M Hartig, JR Reichenbach, A Kohlschütter, J Sedlacik (2014). *Brain iron quantification by MRI in mitochondrial membrane protein-associated neurodegeneration under iron-chelating therapy*. *Ann Clin Transl Neurol* (1), 1041–1046
66. I Nenadic, R Maitra, FB Basmanav, CC Schultz, C Lorenz, C Schachtzabel, S Smesny, MM Nöthen, S Cichon, JR Reichenbach, H Sauer, RGM Schlösser, C Gaser (2014). *ZNF804A genetic variation (rs1344706) affects brain grey but not white matter in schizophrenia and healthy subjects*. *Psychol Med* (45), 143–152
67. I Nenadic, M Dietzek, N Schönfeld, C Lorenz, A Gussew, JR Reichenbach, H Sauer, C Gaser, S Smesny (2014). *Brain structure in people at ultra-high risk of psychosis, patients with first-episode schizophrenia, and healthy controls: a VBM study*. *Schizophr Res* (161), 169–176
68. R Topfer, F Schweser, A Deistung, JR Reichenbach, AH Wilman (2014). *SHARP edges: Recovering cortical phase contrast through harmonic extension*. *Magn Reson Med* (73), 851–856
69. K Tschiesche, M Rothamel, R Rzanny, A Gussew, P Hiepe, JR Reichenbach (2014). *MR-compatible pedal ergometer for reproducible exercising of the human calf muscle*. *Med Eng Phys* (36), 933–937
70. GF Volk, I Karamyan, CM Klingner, JR Reichenbach, O Guntinas-Lichius (2014). *Quantitative magnetic resonance imaging volumetry of facial muscles in healthy patients with facial palsy*. *Plast Reconstr Surg Glob Open* (2), e173
71. F Wolfram, JR Reichenbach, TG Lesser (2014). *An ex Vivo Human Lung Model for Ultrasound-Guided High-Intensity Focused Ultrasound Therapy Using Lung Flooding*. *Ultrasound Med Biol* (40), 496–503

2013

72. A Deistung, A Schäfer, F Schweser, U Biedermann, R Turner, JR Reichenbach (2013). *Toward in vivo histology: a comparison of quantitative susceptibility mapping (QSM) with magnitude-, phase-, and R2*-imaging at ultra-high magnetic field strength*. *Neuroimage* (65), 299–314

73. A Deistung, F Schweser, B Wiestler, M Abello, M Roethke, F Sahm, W Wick, AM Nagel, S Heiland, H-P Schlemmer, M Bendszus, JR Reichenbach, A Radbruch (2013). *Quantitative susceptibility mapping differentiates between blood depositions and calcifications in patients with glioblastoma*. *PLoS One* (8), e57924
74. A Deistung, A Schäfer, F Schweser, U Biedermann, D Güllmar, R Trampel, R Turner, JR Reichenbach (2013). *High-Resolution MR Imaging of the Human Brainstem In vivo at 7 Tesla*. *Front Hum Neurosci* (7), 710
75. J Hagemeier, MG Dwyer, N Bergsland, F Schweser, CR Magnano, M Heininen-Brown, DP Ramasamy, E Carl, C Kennedy, R Melia, P Polak, A Deistung, JJG Geurts, JR Reichenbach, R Zivadinov (2013). *Effect of Age on MRI Phase Behavior in the Subcortical Deep Gray Matter of Healthy Individuals*. *AJNR Am J Neuroradiol*, 2144–2151
76. K-H Herrmann, N Pfeiffer, I Krumbein, L Herrmann, JR Reichenbach (2013). *MRI compatible small animal monitoring and trigger system for whole body scanners*. *Z Med Phys*
77. P Hiepe, K-H Herrmann, D Güllmar, C Ros, T Siebert, R Blickhan, K Hahn, JR Reichenbach (2013). *Fast low-angle shot diffusion tensor imaging with stimulated echo encoding in the muscle of rabbit shank*. *NMR Biomed* (27), 146–157
78. J Klohs, IW Politano, A Deistung, J Grandjean, A Drewek, M Dominietto, R Keist, F Schweser, JR Reichenbach, RM Nitsch, I Knuesel, M Rudin (2013). *Longitudinal Assessment of Amyloid Pathology in Transgenic ArcA β Mice Using Multi-Parametric Magnetic Resonance Imaging*. *PLoS One* (8), e66097
79. K Koch, G Wagner, C Schachtzabel, CC Schultz, D Güllmar, JR Reichenbach, H Sauer, C Zimmer, RGM Schlösser (2013). *Association between white matter fiber structure and reward-related reactivity of the ventral striatum*. *Hum Brain Mapp* (35), 1469–1476
80. M Krämer, K-H Herrmann, J Biermann, JR Reichenbach (2013). *Retrospective reconstruction of cardiac cine images from golden-ratio radial MRI using one-dimensional navigators*. *J Magn Reson Imaging* (40), 413–422
81. A Kretz, K-H Herrmann, S Fischer, C Engelmann, OW Witte, JR Reichenbach, F Weih, R Haenold (2013). *Dysfunctional NF- κ B and brain myelin formation*. *Eur J Hum Genet* (22), 724–725
82. G Mingoia, K Langbein, M Dietzek, G Wagner, S Smesny, S Scherpert, R Maitra, JR Reichenbach, RGM Schlösser, C Gaser, H Sauer, I Nenadic (2013). *Frequency domains of resting state default mode network activity in schizophrenia*. *Psychiatry Res* (214), 80–82
83. I Nenadic, M Dietzek, K Langbein, R Rzanny, A Gussew, JR Reichenbach, H Sauer, S Smesny (2013). *Effects of olanzapine on (31)P MRS metabolic markers in schizophrenia*. *Hum Psychopharmacol* (28), 91–93
84. I Nenadic, M Dietzek, K Langbein, R Rzanny, A Gussew, JR Reichenbach, H Sauer, S Smesny (2013). *Superior temporal metabolic changes related to auditory hallucinations: a (31)P-MR spectroscopy study in antipsychotic-free schizophrenia patients*. *Brain Struct Funct* (219), 1869–1872
85. A Radbruch, J Mucke, F Schweser, A Deistung, PA Ringleb, CH Ziener, M Roethke, H-P Schlemmer, S Heiland, JR Reichenbach, M Bendszus, S Rohde (2013). *Comparison of Susceptibility Weighted Imaging and TOF-Angiography for the Detection of Thrombi in Acute Stroke*. *PLoS One* (8), e63459
86. C Ros, D Güllmar, M Stenzel, H-J Mentzel, JR Reichenbach (2013). *Atlas-guided cluster analysis of large tractography datasets*. *PLoS One* (8), e83847
87. P Schenk, T Siebert, P Hiepe, D Güllmar, JR Reichenbach, C Wick, R Blickhan, M Böl (2013). *Determination of three-dimensional muscle architectures: validation of the DTI-based fiber tractography method by manual digitization*. *J Anat* (223), 61–68
88. CC Schultz, G Wagner, K Koch, C Gaser, M Roebel, C Schachtzabel, I Nenadic, JR Reichenbach, H Sauer, RGM Schlösser (2013). *The visual cortex in schizophrenia: alterations of gyration rather than cortical thickness—a combined cortical shape analysis*. *Brain Struct Funct* (218), 51–58
89. CC Schultz, TW Mühlleisen, I Nenadic, K Koch, G Wagner, C Schachtzabel, F Siedek, MM Nöthen, M Rietschel, T Deufel, M Kiehntopf, S Cichon, JR Reichenbach, H Sauer, RGM Schlösser (2013). *Common variation in NCAN, a risk factor for bipolar disorder and schizophrenia, influences local cortical folding in schizophrenia*. *Psychol Med* (44), 811–820
90. CC Schultz, I Nenadic, B Riley, VI Vladimirov, G Wagner, K Koch, C Schachtzabel, TW Mühlleisen, B Basmanav, MM Nöthen, T Deufel, M Kiehntopf, M Rietschel, JR Reichenbach, S Cichon, RGM Schlösser, H Sauer (2013). *ZNF804A and Cortical Structure in Schizophrenia: In Vivo and Postmortem Studies*. *Schizophr Bull* (40), 532–541
91. Bé Serres, I Zemmoura, Féé Andersson, C Tauber, C Destrieux, G Venturini (2013). *Brain virtual dissection and white matter 3D visualization*. *Stud Health Technol Inform* (184), 392–396

92. G Wagner, K Koch, C Schachtzabel, CC Schultz, C Gaser, JR Reichenbach, H Sauer, K-J Bär, RG Schlösser (2013). *Structural basis of the fronto-thalamic dysconnectivity in schizophrenia: A combined DCM-VBM study*. *Neuroimage Clin* (3), 95–105

2012

93. PAT Baltzer, A Gussew, M Dietzel, R Rzanny, M Gajda, O Camara, JR Reichenbach, WA Kaiser (2012). *Effect of contrast agent on the results of in vivo ¹H MRS of breast tumors - is it clinically significant?* *NMR Biomed* (25), 67–74
94. HP Burmeister, T Bitter, PM Heiler, Andrey Irintchev, R Fröber, M Dietzel, PA Baltzer, LR Schad, JR Reichenbach, H Gudziol, O Guntinas-Lichius, WA Kaiser (2012). *Imaging of lamination patterns of the adult human olfactory bulb and tract: in vitro comparison of standard- and high-resolution 3T MRI, and MR microscopy at 9.4 T*. *Neuroimage* (60), 1662–1670
95. C Gaser, S Schmidt, M Metzler, K-H Herrmann, I Krumbein, JR Reichenbach, OW Witte (2012). *Deformation-based brain morphometry in rats*. *Neuroimage* (63), 47–53
96. D Güllmar, M Hädrich, JR Reichenbach (2012). *Acoustic noise control during auditory fMRI using a DSP system - first initial in vivo results*. *Biomed Tech (Berl)*
97. A Gussew, M Erdtel, P Hiepe, R Rzanny, JR Reichenbach (2012). *Absolute quantitation of brain metabolites with respect to heterogeneous tissue compositions in (1)H-MR spectroscopic volumes*. *MAGMA* (25), 321–333
98. A Gussew, P Hiepe, R Rzanny, JR Reichenbach (2012). *Improved reproducibility of dynamic 31P-MRS in the calf muscle during exercise by self-adjusted muscle activity*. *Biomed Tech (Berl)* (57), 757–760
99. CA Habib, M Liu, N Bawany, J Garbern, I Krumbein, H-J Mentzel, J Reichenbach, C Magnano, R Zivadinov, EM Haacke (2012). *Assessing abnormal iron content in the deep gray matter of patients with multiple sclerosis versus healthy controls*. *AJNR Am J Neuroradiol* (33), 252–258
100. R Haenold, K-H Herrmann, S Schmidt, JR Reichenbach, K-F Schmidt, S Löwel, OW Witte, F Weih, A Kretz (2012). *Magnetic resonance imaging of the mouse visual pathway for in vivo studies of degeneration and regeneration in the CNS*. *Neuroimage* (59), 363–376
101. K-H Herrmann, S Schmidt, A Kretz, Ronny Haenold, I Krumbein, M Metzler, C Gaser, OW Witte, JR Reichenbach (2012). *Possibilities and limitations for high resolution small animal MRI on a clinical whole-body 3T scanner*. *MAGMA* (25), 233–244
102. P Hiepe, R Rzanny, A Gussew, C Anders, HC Scholle, JR Reichenbach (2012). *Functional diffusion weighted MRI for assessment of muscle fatigue in the lower back muscles*. *Biomed Tech (Berl)*
103. K Koch, CC Schultz, G Wagner, Claudia Schachtzabel, JR Reichenbach, H Sauer, RGM Schlösser (2012). *Disrupted white matter connectivity is associated with reduced cortical thickness in the cingulate cortex in schizophrenia*. *Cortex*
104. K Koch, G Wagner, C Schachtzabel, CC Schultz, T Straube, D Güllmar, JR Reichenbach, G Peikert, H Sauer, RGM Schlösser (2012). *White matter structure and symptom dimensions in obsessive-compulsive disorder*. *J Psychiatr Res* (46), 264–270
105. K Koch, G Wagner, C Schachtzabel, CC Schultz, D Güllmar, JR Reichenbach, H Sauer, RGM Schlösser (2012). *Age-dependent visuomotor performance and white matter structure: a DTI study*. *Brain Struct Funct*
106. M Krämer, TH Jochimsen, JR Reichenbach (2012). *Functional magnetic resonance imaging using PROPELLER-EPI*. *Magn Reson Med* (68), 140–151
107. C Langkammer, F Schweser, N Krebs, A Deistung, W Goessler, E Scheurer, K Sommer, G Reishofer, K Yen, F Fazekas, S Ropele, JR Reichenbach (2012). *Quantitative susceptibility mapping (QSM) as a means to measure brain iron? A post mortem validation study*. *Neuroimage* (62), 1593–1599
108. G Mingoia, G Wagner, K Langbein, R Maitra, S Smesny, M Dietzek, HP Burmeister, JR Reichenbach, RGM Schlösser, C Gaser, H Sauer, I Nenadic (2012). *Default mode network activity in schizophrenia studied at resting state using probabilistic ICA*. *Schizophr Res*
109. I Nenadic, K Langbein, M Weisbrod, Raka Maitra, R Rzanny, A Gussew, JR Reichenbach, H Sauer, S Smesny (2012). *31P-MR spectroscopy in monozygotic twins discordant for schizophrenia or schizoaffective disorder*. *Schizophr Res* (134), 296–297
110. I Nenadic, R Maitra, S Scherpert, C Gaser, CC Schultz, C Schachtzabel, S Smesny, JR Reichenbach, J Treutlein, TW Mühleisen, T Deufel, S Cichon, M Rietschel, MM Nöthen, H Sauer, RGM Schlösser (2012). *Glutamate receptor delta 1 (GRID1) genetic variation and brain structure in schizophrenia*. *J Psychiatr Res* (46), 1531–1539

111. A Pfeil, S Drobnik, R Rzanny, Anas Aboud, J Böttcher, P Schmidt, C Ortmann, G Mall, K Hekmat, B Brehm, J Reichenbach, TE Mayer, G Wolf, A Hansch (2012). *Compatibility of temporary pacemaker myocardial pacing leads with magnetic resonance imaging: an ex vivo tissue study*. *Int J Cardiovasc Imaging* (28), 317–326
112. JR Reichenbach (2012). *Multimodal imaging and therapy - technology of the future*. *Z Med Phys* (22), 253–254
113. JR Reichenbach (2012). *The future of susceptibility contrast for assessment of anatomy and function*. *Neuroimage* (62), 1311–1315
114. G Rimkus, C Grüttner, S Bremer-Streck, K-H Herrmann, I Krumbein, JR Reichenbach, M Foerster, WA Kaiser, I Hilger (2012). *mVCAM-1 specific iron oxide nanoparticles based probes for multimodal imaging purposes*. *Biomed Tech (Berl)* (57), 77–80
115. C Ros, D Güllmar, M Stenzel, H-J Mentzel, JR Reichenbach (2012). *Quantitative fiber bundle-based analysis of diffusion-weighted MRI data*. *Biomed Tech (Berl)* (57), 530–533
116. R Rzanny, A Hansch, A Pfeil, S Drobnik, A Gussew, JR Reichenbach (2012). *Ex vivo-investigations of the MR compatibility of temporary pacemaker leads on pig hearts at 1.5 and 3.0 T*. *Biomed Tech (Berl)*
117. R Rzanny, K Sander, P Hiepe, A Gussew, A Roth, RW Kinne, JR Reichenbach (2012). *MRI and MRS investigation of patients with artificial hip joints at 3 T*. *Biomed Tech (Berl)*
118. CC Schultz, K Koch, G Wagner, I Nenadic, C Schachtzabel, D Güllmar, JR Reichenbach, H Sauer, RGM Schlösser (2012). *Reduced anterior cingulate cognitive activation is associated with prefrontal-temporal cortical thinning in schizophrenia*. *Biol Psychiatry* (71), 146–153
119. F Schweser, A Deistung, K Sommer, JR Reichenbach (2012). *Toward online reconstruction of quantitative susceptibility maps: Superfast dipole inversion*. *Magn Reson Med*
120. F Schweser, K Sommer, A Deistung, JR Reichenbach (2012). *Quantitative susceptibility mapping for investigating subtle susceptibility variations in the human brain*. *Neuroimage* (62), 2083–2100
121. S Smesny, K Langbein, R Rzanny, A Gussew, HP Burmeister, JR Reichenbach, H Sauer (2012). *Antipsychotic drug effects on left prefrontal phospholipid metabolism: a follow-up 31P-2D-CSI study of haloperidol and risperidone in acutely ill chronic schizophrenia patients*. *Schizophr Res* (138), 164–170
122. G Wagner, K Koch, C Schachtzabel, G Peikert, CC Schultz, JR Reichenbach, H Sauer, RG Schlösser (2012). *Self-referential processing influences functional activation during cognitive control: an fMRI study*. *Soc Cogn Affect Neurosci*
123. H Wiese, N Kloth, D Güllmar, JR Reichenbach, SR Schweinberger (2012). *Perceiving age and gender in unfamiliar faces: an fMRI study on face categorization*. *Brain Cogn* (78), 163–168

2011

124. R Daniel, G Wagner, K Koch, JR Reichenbach, H Sauer, RGM Schlösser (2011). *Assessing the neural basis of uncertainty in perceptual category learning through varying levels of distortion*. *J Cogn Neurosci* (23), 1781–1793
125. A Gussew, R Rzanny, D Güllmar, Hans-Christoph Scholle, JR Reichenbach (2011). *1H-MR spectroscopic detection of metabolic changes in pain processing brain regions in the presence of non-specific chronic low back pain*. *Neuroimage* (54), 1315–1323
126. K-H Herrmann, PA Baltzer, M Dietzel, I Krumbein, C Geppert, WA Kaiser, JR Reichenbach (2011). *Resolving arterial phase and temporal enhancement characteristics in DCE MRM at high spatial resolution with TWIST acquisition*. *J Magn Reson Imaging* (34), 973–982
127. P Hiepe, K-H Herrmann, C Ros, JR Reichenbach (2011). *Diffusion weighted inner volume imaging of lumbar disks based on turbo-STEAM acquisition*. *Z Med Phys* (21), 216–227
128. T Jochmann, D Güllmar, J Haueisen, JR Reichenbach (2011). *Influence of tissue conductivity changes on the EEG signal in the human brain: a simulation study*. *Z Med Phys* (21), 102–112
129. J Klohs, A Deistung, F Schweser, Joanes Grandjean, M Dominietto, C Waschkies, RM Nitsch, I Knuesel, JR Reichenbach, M Rudin (2011). *Detection of cerebral microbleeds with quantitative susceptibility mapping in the ArcAbeta mouse model of cerebral amyloidosis*. *J Cereb Blood Flow Metab* (31), 2282–2292
130. K Koch, G Wagner, C Schachtzabel, CC Schultz, D Güllmar, JR Reichenbach, Heinrich Sauer, RGM Schlösser (2011). *Neural activation and radial diffusivity in schizophrenia: combined fMRI and diffusion tensor imaging study*. *Br J Psychiatry* (198), 223–229
131. H-J Mentzel, C Ros, D Güllmar (2011). *[Diffusion magnetic resonance tomography of the brain in childhood]*. *Monatsschr Kinderheilkd* (159), 325–332

132. I Nenadic, G Wagner, D Güllmar, C Schachtzabel, K Consbruch, S Köhler, K Koch, Martin Roebel, CC Schultz, JR Reichenbach, Heinrich Sauer, RGM Schlösser (2011). *ADC changes in schizophrenia: a diffusion-weighted imaging study*. *Eur Arch Psychiatry Clin Neurosci* (261), 213–216
133. DM Renz, HK Hahn, P Schmidt, J Rexilius, M Lentschig, A Pfeil, D Sauner, Clemens Fitzek, H-J Mentzel, WA Kaiser, JR Reichenbach, J Böttcher (2011). *Accuracy and reproducibility of a novel semi-automatic segmentation technique for MR volumetry of the pituitary gland*. *Neuroradiology* (53), 233–244
134. M Roßbach, TH Jochimsen, K-H Herrmann, C Ros, D Güllmar, JR Reichenbach (2011). [Comparison of long-axis and short-axis PROPELLER-EPI for diffusion-weighted Magnetic Resonance Imaging]. *Z Med Phys* (21), 33–41
135. CC Schultz, I Nenadic, K Koch, G Wagner, M Roebel, C Schachtzabel, TW Mühleisen, MM Nöthen, S Cichon, T Deufel, Michael Kiehntopf, M Rietschel, JR Reichenbach, Heinrich Sauer, RGM Schlösser (2011). *Reduced cortical thickness is associated with the glutamatergic regulatory gene risk variant DAOA Arg30Lys in schizophrenia*. *Neuropsychopharmacology* (36), 1747–1753
136. F Schweser, A Deistung, BW Lehr, JR Reichenbach (2011). *Quantitative imaging of intrinsic magnetic tissue properties using MRI signal phase: An approach to in vivo brain iron metabolism?* *Neuroimage* (54), 2789–2807
137. T Vag, K Kentouche, I Krumbein, JR Reichenbach, E Lopatta, DM Renz, M Stenzel, J Beck, WA Kaiser, H-J Mentzel (2011). *Noninvasive measurement of liver iron concentration at MRI in children with acute leukemia: initial results*. *Pediatr Radiol* (41), 980–984

2010

138. D Güllmar, J Haueisen, JR Reichenbach (2010). *Influence of anisotropic electrical conductivity in white matter tissue on the EEG/MEG forward and inverse solution. A high-resolution whole head simulation study*. *Neuroimage* (51), 145–163
139. A Gussew, R Rzanny, M Erdtel, HC Scholle, WA Kaiser, HJ Mentzel, JR Reichenbach (2010). *Time-resolved functional 1H MR spectroscopic detection of glutamate concentration changes in the brain during acute heat pain stimulation*. *Neuroimage* (49), 1895–1902
140. TH Jochimsen, D Ivanov, DVM Ott, Wolfgang Heinke, R Turner, HE Möller, JR Reichenbach (2010). *Whole-brain mapping of venous vessel size in humans using the hypercapnia-induced BOLD effect*. *Neuroimage* (51), 765–774
141. K Koch, G Wagner, R Dahnke, C Schachtzabel, D Güllmar, JR Reichenbach, RGM Schlösser (2010). *Structure-function relationships in the context of reinforcement-related learning: a combined diffusion tensor imaging-functional magnetic resonance imaging study*. *Neuroscience* (168), 190–199
142. K Koch, C Schachtzabel, G Wagner, J Schikora, C Schultz, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Altered activation in association with reward-related trial-and-error learning in patients with schizophrenia*. *Neuroimage* (50), 223–232
143. K Koch, G Wagner, R Dahnke, C Schachtzabel, C Schultz, M Roebel, D Güllmar, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Disrupted white matter integrity of corticopontine-cerebellar circuitry in schizophrenia*. *Eur Arch Psychiatry Clin Neurosci* (260), 419–426
144. RGM Schlösser, G Wagner, C Schachtzabel, Gregor Peikert, K Koch, JR Reichenbach, H Sauer (2010). *Fronto-cingulate effective connectivity in obsessive-compulsive disorder: A study with fMRI and dynamic causal modeling*. *Hum Brain Mapp* (31), 1834–1850
145. R Schubert, J Reichenbach, C Koch, Stephan Kloess, U Koehl, K Mueller, P Baer, Christopher Beermann, H Boehles, S Zielen (2010). *Reactive oxygen species abrogate the anticarcinogenic effect of eicosapentaenoic acid in Atm-deficient mice*. *Nutr Cancer* (62), 584–592
146. CC Schultz, K Koch, G Wagner, Martin Roebel, I Nenadic, C Schachtzabel, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Complex pattern of cortical thinning in schizophrenia: results from an automated surface based analysis of cortical thickness*. *Psychiatry Res* (182), 134–140
147. CC Schultz, K Koch, G Wagner, Martin Roebel, C Schachtzabel, C Gaser, I Nenadic, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Reduced cortical thickness in first episode schizophrenia*. *Schizophr Res* (116), 204–209
148. CC Schultz, K Koch, G Wagner, Martin Roebel, C Schachtzabel, I Nenadic, C Albrecht, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Psychopathological correlates of the entorhinal cortical shape in schizophrenia*. *Eur Arch Psychiatry Clin Neurosci* (260), 351–358
149. CC Schultz, K Koch, G Wagner, Martin Roebel, I Nenadic, C Gaser, C Schachtzabel, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Increased parahippocampal and lingual gyration in first-episode*

- schizophrenia.* *Schizophr Res* (123), 137–144
150. F Schweser, A Deistung, BW Lehr, JR Reichenbach (2010). *Differentiation between diamagnetic and paramagnetic cerebral lesions based on magnetic susceptibility mapping.* *Med Phys* (37), 5165–5178
 151. J Sedlacik, JR Reichenbach (2010). *Validation of quantitative estimation of tissue oxygen extraction fraction and deoxygenated blood volume fraction in phantom and in vivo experiments by using MRI.* *Magn Reson Med* (63), 910–921
 152. J Sedlacik, U Löbel, M Kocak, RB Loeffler, JR Reichenbach, A Broniscer, Z Patay, CM Hillenbrand (2010). *Attenuation of cerebral venous contrast in susceptibility-weighted imaging of spontaneously breathing pediatric patients sedated with propofol.* *AJNR Am J Neuroradiol* (31), 901–906
 153. G Wagner, K Koch, C Schachtzabel, Thomas Sobanski, JR Reichenbach, H Sauer, RGM Schlösser (2010). *Differential effects of serotonergic and noradrenergic antidepressants on brain activity during a cognitive control task and neurofunctional prediction of treatment outcome in patients with depression.* *J Psychiatry Neurosci* (35), 247–257

2009

154. H Axer, S Hüge, C Wilhelm, M Axer, A Kunze, JR Reichenbach, M Freesmeyer, J Kohlhase, H Sauer, K-J Bär (2009). *[Hereditary Alzheimer's disease with amyloid angiopathy caused by amyloid precursor protein locus].* *Nervenarzt* (80), 62–67
155. PAT Baltzer, DM Renz, K-H Herrmann, M Dietzel, I Krumbein, M Gajda, O Camara, JR Reichenbach, WA Kaiser (2009). *Diffusion-weighted imaging (DWI) in MR mammography (MRM): clinical comparison of echo planar imaging (EPI) and half-Fourier single-shot turbo spin echo (HASTE) diffusion techniques.* *Eur Radiol* (19), 1612–1620
156. A Deistung, E Dittrich, J Sedlacik, Alexander Rauscher, JR Reichenbach (2009). *ToF-SWI: simultaneous time of flight and fully flow compensated susceptibility weighted imaging.* *J Magn Reson Imaging* (29), 1478–1484
157. D Hemmelmann, M Ungureanu, W Hesse, T Wüstenberg, JR Reichenbach, OW Witte, H Witte, L Leistritz (2009). *Modelling and analysis of time-variant directed interrelations between brain regions based on BOLD-signals.* *Neuroimage* (45), 722–737
158. K Koch, G Wagner, C Schultz, C Schachtzabel, I Nenadic, M Axer, JR Reichenbach, Heinrich Sauer, RGM Schlösser (2009). *Altered error-related activity in patients with schizophrenia.* *Neuropsychologia* (47), 2843–2849
159. U Löbel, J Sedlacik, D Güllmar, WA Kaiser, JR Reichenbach, H-J Mentzel (2009). *Diffusion tensor imaging: the normal evolution of ADC, RA, FA, and eigenvalues studied in multiple anatomical regions of the brain.* *Neuroradiology* (51), 253–263
160. R Schlösser, K Koch, G Wagner, C Schultz, M Röbel, C Schachtzabel, JR Reichenbach, H Sauer (2009). *Intensive practice of a cognitive task is associated with enhanced functional integration in schizophrenia.* *Psychol Med* (39), 1809–1819
161. J Sedlacik, A Rauscher, JR Reichenbach (2009). *Quantification of modulated blood oxygenation levels in single cerebral veins by investigating their MR signal decay.* *Z Med Phys* (19), 48–57
162. H Witte, M Ungureanu, C Ligges, D Hemmelmann, T. Wüstenberg, JR Reichenbach, L Astolfi, F Babiloni, L Leistritz (2009). *Signal informatics as an advanced integrative concept in the framework of medical informatics. New trends demonstrated by examples derived from neuroscience.* *Methods Inf Med* (48), 18–28

2008

163. A Deistung, A Rauscher, J Sedlacik, S Witoszynskyj, JR Reichenbach (2008). *Informatics in Radiology: GUIBOLD: a graphical user interface for image reconstruction and data analysis in susceptibility-weighted MR imaging.* *Radiographics* (28), 639–651
164. A Deistung, A Rauscher, J Sedlacik, Jörg Stadler, S Witoszynskyj, JR Reichenbach (2008). *Susceptibility weighted imaging at ultra high magnetic field strengths: theoretical considerations and experimental results.* *Magn Reson Med* (60), 1155–1168
165. A Gussew, R Rzanny, H-C Scholle, WA Kaiser, JR Reichenbach (2008). *[Quantitation of glutamate in the brain by using MR proton spectroscopy at 1.5 T and 3 T].* *Rofo* (180), 722–732
166. K-H Herrmann, E Wagner, A Deistung, Ingrid Hilger, JR Reichenbach (2008). *A robust optical respiratory trigger for small rodents in clinical whole-body MR systems.* *Biomed Tech (Berl)* (53), 138–144

167. K Koch, G Wagner, I Nenadic, C Schachtzabel, C Schultz, M Roebel, JR Reichenbach, H Sauer, RGM Schlösser (2008). *Fronto-striatal hypoactivation during correct information retrieval in patients with schizophrenia: an fMRI study*. *Neuroscience* (153), 54–62
168. K Koch, C Schachtzabel, G Wagner, JR Reichenbach, H Sauer, R Schlösser (2008). *The neural correlates of reward-related trial-and-error learning: an fMRI study with a probabilistic learning task*. *Learn Mem* (15), 728–732
169. A Rauscher, M Barth, K-H Herrmann, Stephan Witoszynskyj, A Deistung, JR Reichenbach (2008). *Improved elimination of phase effects from background field inhomogeneities for susceptibility weighted imaging at high magnetic field strengths*. *Magn Reson Imaging* (26), 1145–1151
170. RGM Schlösser, K Koch, G Wagner, I Nenadic, M Roebel, C Schachtzabel, M Axer, Christoph Schultz, JR Reichenbach, H Sauer (2008). *Inefficient executive cognitive control in schizophrenia is preceded by altered functional activation during information encoding: an fMRI study*. *Neuropsychologia* (46), 336–347
171. RGM Schlösser, G Wagner, K Koch, R Dahnke, JR Reichenbach, H Sauer (2008). *Fronto-cingulate effective connectivity in major depression: A study with fMRI and dynamic causal modeling*. *Neuroimage* (43), 645–655
172. J Sedlacik, K Helm, A Rauscher, J Stadler, H-J Mentzel, JR Reichenbach (2008). *Investigations on the effect of caffeine on cerebral venous vessel contrast by using susceptibility-weighted imaging (SWI) at 1.5, 3 and 7 T*. *Neuroimage* (40), 11–18
173. J Sedlacik, C Kutschbach, A Rauscher, A Deistung, JR Reichenbach (2008). *Investigation of the influence of carbon dioxide concentrations on cerebral physiology by susceptibility-weighted magnetic resonance imaging (SWI)*. *Neuroimage* (43), 36–43
174. G Wagner, K Koch, C Schachtzabel, JR Reichenbach, H Sauer, RGM Schlösser (2008). *Enhanced rostral anterior cingulate cortex activation during cognitive control is related to orbitofrontal volume reduction in unipolar depression*. *J Psychiatry Neurosci* (33), 199–208
175. S Witoszynskyj, A Rauscher, JR Reichenbach, M Barth (2008). *Phase unwrapping of MR images using PhiUN - A fast and robust region growing algorithm*. *Med Image Anal* (13), 257–268

2007

176. S Böhr, D Güllmar, R Knab, JR Reichenbach, OW Witte, J Haueisen (2007). *Fractional anisotropy correlates with auditory simple reaction time performance*. *Brain Res* (1186), 194–202
177. K-H Herrmann, S Wurdinger, DR Fischer, I Krumbein, M Schmitt, G Hermosillo, K Chaudhuri, A Krishnan, M Salganicoff, WA Kaiser, JR Reichenbach (2007). *Application and assessment of a robust elastic motion correction algorithm to dynamic MRI*. *Eur Radiol* (17), 259–264
178. I Hilger, Ré Trost, JR Reichenbach, W Linß, M-Ré Lisy, A Berndt, WA Kaiser (2007). *MR imaging of Her-2/neu protein using magnetic nanoparticles*. *Nanotechnology* (18), 135103
179. K Koch, G Wagner, I Nenadic, C Schachtzabel, M Roebel, C Schultz, M Axer, JR Reichenbach, H Sauer, RGM Schlösser (2007). *Temporal modeling demonstrates preserved overlearning processes in schizophrenia: an fMRI study*. *Neuroscience* (146), 1474–1483
180. M-Ré Lisy, A Hartung, C Lang, D Schüler, W Richter, JR Reichenbach, WA Kaiser, I Hilger (2007). *Fluorescent bacterial magnetic nanoparticles as bimodal contrast agents*. *Invest Radiol* (42), 235–241
181. RGM Schlösser, I Nenadic, G Wagner, D Güllmar, K Consbruch, S Köhler, CC Schultz, K Koch, C Fitzek, PM Matthews, JR Reichenbach, H Sauer (2007). *White matter abnormalities and brain activation in schizophrenia: a combined DTI and fMRI study*. *Schizophr Res* (89), 1–11
182. J Sedlacik, A Rauscher, JR Reichenbach (2007). *Obtaining blood oxygenation levels from MR signal behavior in the presence of single venous vessels*. *Magn Reson Med* (58), 1035–1044
183. S Smesny, T Rosburg, I Nenadic, KP Fenk, S Kunstmänn, R Rzanny, H-P Volz, H Sauer (2007). *Metabolic mapping using 2D 31P-MR spectroscopy reveals frontal and thalamic metabolic abnormalities in schizophrenia*. *Neuroimage* (35), 729–737

2006

184. A Deistung, H-J Mentzel, A Rauscher, S Witoszynskyj, WA Kaiser, JR Reichenbach (2006). *Demonstration of paramagnetic and diamagnetic cerebral lesions by using susceptibility weighted phase imaging (SWI)*. *Z Med Phys* (16), 261–267
185. D Güllmar, J Haueisen, M Eiselt, F Giessler, L Flemming, A Anwander, TR Knösche, CH Wolters, M Dümpelmann, DS Tuch, JR Reichenbach (2006). *Influence of anisotropic conductivity on EEG source*

- reconstruction: investigations in a rabbit model. IEEE Trans Biomed Eng* (53), 1841–1850
186. J-P Heyne, R Rzanny, A Hansch, U Leder, JR Reichenbach, WA Kaiser (2006). *31P-MR spectroscopic imaging in hypertensive heart disease. Eur Radiol* (16), 1796–1802
 187. L Leistritz, W Hesse, T Wüstenberg, C Fitzek, JR Reichenbach, H Witte (2006). *Time-variant analysis of fast-fMRI and dynamic contrast agent MRI sequences as examples of 4-dimensional image analysis. Methods Inf Med* (45), 643–650
 188. L Leistritz, M Galicki, E Kochs, EB Zwick, C Fitzek, JR Reichenbach, Herbert Witte (2006). *Application of generalized dynamic neural networks to biomedical data. IEEE Trans Biomed Eng* (53), 2289–2299
 189. I-M Noebauer-Huhmann, K Pinker, M Barth, V Mlynarik, A Ba-Salamah, WF Saringer, M Weber, T Benesch, S Witoszynskyj, Alexander Rauscher, JR Reichenbach, S Trattnig (2006). *Contrast-enhanced, high-resolution, susceptibility-weighted magnetic resonance imaging of the brain: dose-dependent optimization at 3 tesla and 1.5 tesla in healthy volunteers. Invest Radiol* (41), 249–255
 190. M Petrou, VA Kovalev, JR Reichenbach (2006). *Three-dimensional nonlinear invisible boundary detection. IEEE Trans Image Process* (15), 3020–3032
 191. A Rauscher, J Sedlacik, A Deistung, Hans-Joachim Mentzel, JR Reichenbach (2006). *Susceptibility weighted imaging: data acquisition, image reconstruction and clinical applications. Z Med Phys* (16), 240–250
 192. R Rzanny, R Grassme, JR Reichenbach, Hans-Christoph Scholle, WA Kaiser (2006). *Investigations of back muscle fatigue by simultaneous 31P MRS and surface EMG measurements. Biomed Tech (Berl)* (51), 305–313
 193. V Sehgal, Z Delpropoto, D Haddar, EM Haacke, AE Sloan, LJ Zamorano, G Barger, J Hu, Y Xu, KP Prabhakaran, IR Elangovan, J Neelavalli, JR Reichenbach (2006). *Susceptibility-weighted imaging to visualize blood products and improve tumor contrast in the study of brain masses. J Magn Reson Imaging* (24), 41–51
 194. G Wagner, K Koch, JR Reichenbach, Heinrich Sauer, RGM Schlösser (2006). *The special involvement of the rostralateral prefrontal cortex in planning abilities: an event-related fMRI study with the Tower of London paradigm. Neuropsychologia* (44), 2337–2347

2005

195. S Banaschak, R Rzanny, JR Reichenbach, WA Kaiser, A Klein (2005). *Estimation of postmortem metabolic changes in porcine brain tissue using 1H-MR spectroscopy—preliminary results. Int J Legal Med* (119), 77–79
196. DR Fischer, JR Reichenbach, A Rauscher, J Sedlacik, WA Kaiser (2005). *Application of an exogenous hyperoxic contrast agent in MR mammography: initial results. Eur Radiol* (15), 829–832
197. A Hansch, R Rzanny, J-P Heyne, U Leder, JR Reichenbach, WA Kaiser (2005). *Noninvasive measurements of cardiac high-energy phosphate metabolites in dilated cardiomyopathy by using 31P spectroscopic chemical shift imaging. Eur Radiol* (15), 319–323
198. J Hopfe, K-H Herrmann, R Lucht, ME Bellemann, WA Kaiser, JR Reichenbach (2005). *[Validation of an entropy-based algorithm for registration of serial 3D MR mammography data]. Z Med Phys* (15), 107–114
199. D Karadag, H-J Mentzel, D Güllmar, T Rating, U Löbel, U Brandl, JR Reichenbach, WA Kaiser (2005). *Diffusion tensor imaging in children and adolescents with tuberous sclerosis. Pediatr Radiol* (35), 980–983
200. H-J Mentzel, A Dieckmann, C Fitzek, Ulrich Brandl, JR Reichenbach, WA Kaiser (2005). *Early diagnosis of cerebral involvement in Sturge-Weber syndrome using high-resolution BOLD MR venography. Pediatr Radiol* (35), 85–90
201. H-J Mentzel, J Seidel, C Fitzek, A Eichhorn, S Vogt, JR Reichenbach, F Zintl, WA Kaiser (2005). *Pediatric brain MRI in neurofibromatosis type I. Eur Radiol* (15), 814–822
202. SOR Pfleiderer, C Marx, J Vagner, Ralf-Peter Franke, JR Reichenbach, WA Kaiser (2005). *Magnetic resonance-guided large-core breast biopsy inside a 1.5-T magnetic resonance scanner using an automatic system: in vitro experiments and preliminary clinical experience in four patients. Invest Radiol* (40), 458–463
203. A Rauscher, J Sedlacik, C Fitzek, B Walter, A Hochstetter, R Kalff, WA Kaiser, JR Reichenbach (2005). *High resolution susceptibility weighted MR-imaging of brain tumors during the application of a gaseous agent. Rofo* (177), 1065–1069

204. A Rauscher, J Sedlacik, M Barth, EM Haacke, JR Reichenbach (2005). *Noninvasive assessment of vascular architecture and function during modulated blood oxygenation using susceptibility weighted magnetic resonance imaging*. *Magn Reson Med* (54), 87–95
205. A Rauscher, J Sedlacik, M Barth, Hans-Joachim Mentzel, JR Reichenbach (2005). *Magnetic susceptibility-weighted MR phase imaging of the human brain*. *AJNR Am J Neuroradiol* (26), 736–742
206. JR Reichenbach, J Hopfe, A Rauscher, Susanne Wurdinger, WA Kaiser (2005). *Subtraction of in-phase and opposed-phase images in dynamic MR mammography*. *J Magn Reson Imaging* (21), 565–575
207. V Sehgal, Z Delproposto, EM Haacke, KA Tong, N Wycliffe, DK Kido, Y Xu, J Neelavalli, D Haddar, JR Reichenbach (2005). *Clinical applications of neuroimaging with susceptibility-weighted imaging*. *J Magn Reson Imaging* (22), 439–450

2004

208. J Böttcher, D Sauner, A Jentsch, H-J Mentzel, H. Becker, JR Reichenbach, WA Kaiser (2004). *[Visualization of symmetric striopallidodentate calcinosis by using high-resolution susceptibility-weighted MR imaging. An account of the impact of different diagnostic methods of M. Fahr]*. *Nervenarzt* (75), 355–361
209. S Fitzek, C Fitzek, R Huonker, JR Reichenbach, H-J Mentzel, OW Witte, WA Kaiser (2004). *Event-related fMRI with painful electrical stimulation of the trigeminal nerve*. *Magn Reson Imaging* (22), 205–209
210. C Fitzek, J Haueisen, R Huonker, JR Reichenbach, SOR Pfleiderer, H-J Mentzel, D Sauner, U Brandl, WA Kaiser (2004). *Effect of routine MR imaging of the brain at 1.5 T on subsequent magnetoencephalography: results in nine volunteers*. *Radiology* (230), 715–719
211. C Grünling, M Ligges, R Huonker, M Klingert, H-J. Mentzel, R Rzanny, WA Kaiser, H Witte, B Blanz (2004). *Dyslexia: the possible benefit of multimodal integration of fMRI- and EEG-data*. *J Neural Transm* (111), 951–969
212. EM Haacke, Y Xu, Y-CN Cheng, JR Reichenbach (2004). *Susceptibility weighted imaging (SWI)*. *Magn Reson Med* (52), 612–618
213. R Rzanny, R Grassme, JR Reichenbach, M Rottenbach, A Petrovitch, WA Kaiser, HC Scholle (2004). *Simultaneous surface electromyography (SEMG) and 31P-MR spectroscopy measurements of the lumbar back muscle during isometric exercise*. *J Neurosci Methods* (133), 143–152

2003

214. M Barth, I-M Nöbauer-Huhmann, JR Reichenbach, V Mlynárik, A Schögl, C Matula, S Trattnig (2003). *High-resolution three-dimensional contrast-enhanced blood oxygenation level-dependent magnetic resonance venography of brain tumors at 3 Tesla: first clinical experience and comparison with 1.5 Tesla*. *Invest Radiol* (38), 409–414
215. S Dilger, T Straube, H-J Mentzel, C Fitzek, JR Reichenbach, H Hecht, S Krieschel, I Gutberlet, WHR Miltner (2003). *Brain activation to phobia-related pictures in spider phobic humans: an event-related functional magnetic resonance imaging study*. *Neurosci Lett* (348), 29–32
216. C Fitzek, H-J Mentzel, S Fitzek, D Sauner, WA Kaiser, JR Reichenbach (2003). *Echoplanar diffusion-weighted MRI with intravenous gadolinium-DTPA*. *Neuroradiology* (45), 592–597
217. H-J Mentzel, J Blume, A Malich, Clemens Fitzek, JR Reichenbach, WA Kaiser (2003). *Cortical blindness after contrast-enhanced CT: complication in a patient with diabetes insipidus*. *AJNR Am J Neuroradiol* (24), 1114–1116
218. H-J Mentzel, T Neumann, C Fitzek, Dieter Sauner, JR Reichenbach, WA Kaiser (2003). *MR Imaging in Wegener granulomatosis of the spinal cord*. *AJNR Am J Neuroradiol* (24), 18–21
219. SO Pfleiderer, JR Reichenbach, S Wurdinger, C Marx, MG Freesmeyer, J Vagner, Harald Fischer, A Schneider, WA Kaiser (2003). *[Interventional MR-mammography: manipulator-assisted large core biopsy and interstitial laser therapy of tumors of the female breast]*. *Z Med Phys* (13), 198–202
220. SOR Pfleiderer, JR Reichenbach, T Azhari, C Marx, A Malich, A Schneider, J Vagner, H Fischer, WA Kaiser (2003). *A manipulator system for 14-gauge large core breast biopsies inside a high-field whole-body MR scanner*. *J Magn Reson Imaging* (17), 493–498
221. SOR Pfleiderer, JR Reichenbach, T Azhari, C Marx, S Wurdinger, WA Kaiser (2003). *Dedicated double breast coil for magnetic resonance mammography imaging, biopsy, and preoperative localization*. *Invest Radiol* (38), 1–8

222. A Rauscher, M Barth, JR Reichenbach, R Stollberger, E Moser (2003). *Automated unwrapping of MR phase images applied to BOLD MR-venography at 3 Tesla*. *J Magn Reson Imaging* (18), 175–180
223. R Rzanny, S Klemm, JR Reichenbach, SOR Pfleiderer, B Schmidt, H-P Volz, B Blanz, WA Kaiser (2003). *31P-MR spectroscopy in children and adolescents with a familial risk of schizophrenia*. *Eur Radiol* (13), 763–770
224. R Rzanny, D Freesmeyer, JR Reichenbach, HJ Mentzel, SOR Pfleiderer, S Klemm, UJ Gerhard, B Blanz, WA Kaiser (2003). [31P-MR spectroscopy of the brain in patients with anorexia nervosa: characteristic differences in the spectra between patients and healthy control subjects]. *Rofo* (175), 75–82

2002

225. T Boehm, A Malich, SN Goldberg, P Hauff, M Reinhardt, JR Reichenbach, W Müller, M Fleck, B Seifert, WA Kaiser (2002). *Radio-frequency ablation of VX2 rabbit tumors: assessment of completeness of treatment by using contrast-enhanced harmonic power Doppler US*. *Radiology* (225), 815–821
226. T Boehm, A Malich, SN Goldberg, JR Reichenbach, I Hilger, P Hauff, M Reinhardt, M Fleck, WA Kaiser (2002). *Radio-frequency tumor ablation: internally cooled electrode versus saline-enhanced technique in an aggressive rabbit tumor model*. *Radiology* (222), 805–813
227. A Felden, J Vagner, A Hinz, H Fischer, SOR Pfleiderer, JR Reichenbach, WA Kaiser (2002). *ROBITOM-robot for biopsy and therapy of the mamma*. *Biomed Tech (Berl)* (47 Suppl 1 Pt 1), 2–5
228. P Georgiewa, R Rzanny, C Gaser, UJ Gerhard, U. Vieweg, D Freesmeyer, H-J Mentzel, WA Kaiser, B. Blanz (2002). *Phonological processing in dyslexic children: a study combining functional imaging and event related potentials*. *Neurosci Lett* (318), 5–8
229. D Güllmar, T Jaap, ME Bellemann, J Haueisen, JR Reichenbach (2002). *DTI measurements of isotropic and anisotropic media*. *Biomed Tech (Berl)* (47 Suppl 1 Pt 1), 420–422
230. F Hamzei, C Dettmers, R Rzanny, Joachim Liepert, C Büchel, C Weiller (2002). *Reduction of excitability ("inhibition") in the ipsilateral primary motor cortex is mirrored by fMRI signal decreases*. *Neuroimage* (17), 490–496
231. I Hilger, F Hofmann, JR Reichenbach, C Bergemann, R Hiergeist, W Andrä, R Herkt, WA Kaiser (2002). [In vitro imaging of magnetite particles]. *Rofo* (174), 101–103
232. JR Reichenbach, J Hopfe, ME Bellemann, WA Kaiser (2002). *Development and validation of an algorithm for registration of serial 3D MR breast data sets*. *MAGMA* (14), 249–257
233. J Röther, R Knab, F Hamzei, J Fiehler, JR Reichenbach, C Büchel, C Weiller (2002). *Negative dip in BOLD fMRI is caused by blood flow–oxygen consumption uncoupling in humans*. *Neuroimage* (15), 98–102
234. A Rott, T Boehm, J Söldner, JR Reichenbach, J Heyne, M Bartel, WA Kaiser (2002). *Computerized modeling based on spiral CT data for noninvasive determination of aortic stent-graft length*. *J Endovasc Ther* (9), 520–528
235. NV Ruiter, TO Müller, R Stotzka, H Gemmeke, JR Reichenbach, WA Kaiser (2002). *Automatic image matching for breast cancer diagnostics by a 3D deformation model of the mamma*. *Biomed Tech (Berl)* (47 Suppl 1 Pt 2), 644–647
236. S Wurdinger, K Humbsch, JR Reichenbach, G Peiker, H-J Seewald, WA Kaiser (2002). *MRI of the pelvic ring joints postpartum: normal and pathological findings*. *J Magn Reson Imaging* (15), 324–329

2001

237. T Boehm, A Hochmuth, A Malich, JR Reichenbach, M Fleck, WA Kaiser (2001). *Contrast-enhanced near-infrared laser mammography with a prototype breast scanner: feasibility study with tissue phantoms and preliminary results of imaging experimental tumors*. *Invest Radiol* (36), 573–581
238. T Boehm, A Malich, SN Goldberg, JR Reichenbach, I Hilger, M Fleck, WA Kaiser (2001). *Vacuum-assisted resection of malignant tumors with and without subsequent radiofrequency ablation: feasibility of complete tumor treatment tested in an animal model*. *J Vasc Interv Radiol* (12), 1086–1093
239. T Boehm, A Malich, JR Reichenbach, M Fleck, WA Kaiser (2001). *Percutaneous radiofrequency (RF) thermal ablation of rabbit tumors embedded in fat: a model for RF ablation of breast tumors*. *Invest Radiol* (36), 480–486

240. C Dettmers, T Adler, R Rzanny, R Schayck, C. Gaser, T Weiss, WH Miltner, L Brückner, C Weiller (2001). *Increased excitability in the primary motor cortex and supplementary motor area in patients with phantom limb pain after upper limb amputation*. *Neurosci Lett* (307), 109–112
241. M Essig, JR Reichenbach, LR Schad, J Debus, WA Kaiser (2001). *High resolution MR-venography of cerebral arteriovenous malformations*. *Radiologe* (41), 288–295
242. J Fiehler, R Knab, JR Reichenbach, C Fitzek, C. Weiller, J Röther (2001). *Apparent diffusion coefficient decreases and magnetic resonance imaging perfusion parameters are associated in ischemic tissue of acute stroke patients*. *J Cereb Blood Flow Metab* (21), 577–584
243. FG Hoogenraad, PJ Pouwels, MB Hofman, JR Reichenbach, M Sprenger, EM Haacke (2001). *Quantitative differentiation between BOLD models in fMRI*. *Magn Reson Med* (45), 233–246
244. S Klemm, R Rzanny, S Riehemann, HP Volz, B Schmidt, UJ Gerhard, C Filz, A Schönberg, HJ Mentzel, WA Kaiser, B Blanz (2001). *Cerebral phosphate metabolism in first-degree relatives of patients with schizophrenia*. *Am J Psychiatry* (158), 958–960
245. JR Reichenbach, EM Haacke (2001). *High-resolution BOLD venographic imaging: a window into brain function*. *NMR Biomed* (14), 453–467
246. JR Reichenbach, L Jonetz-Mentzel, C Fitzek, EM Haacke, DK Kido, BC Lee, WA Kaiser (2001). *High-resolution blood oxygen-level dependent MR venography (HRBV): a new technique*. *Neuroradiology* (43), 364–369

2000

247. T Böhm, I Hilger, W Müller, JR Reichenbach, M. Fleck, WA Kaiser (2000). *Saline-enhanced radiofrequency ablation of breast tissue: an in vitro feasibility study*. *Invest Radiol* (35), 149–157
248. JR Reichenbach, M Barth, EM Haacke, M Klärhöfer, WA Kaiser, E Moser (2000). *High-resolution MR venography at 3.0 Tesla*. *J Comput Assist Tomogr* (24), 949–957
249. JR Reichenbach, S Wurdinger, SO Pfleiderer, WA Kaiser (2000). *Comparison of artifacts produced from carbon fiber and titanium alloy needles at 1.5 T MR imaging*. *J Magn Reson Imaging* (11), 69–74
250. J Röther, L Jonetz-Mentzel, A Fiala, JR Reichenbach, M Herzau, WA Kaiser, C Weiller (2000). *Hemodynamic assessment of acute stroke using dynamic single-slice computed tomographic perfusion imaging*. *Arch Neurol* (57), 1161–1166
251. RA Schubert, S Göckeritz, HJ Mentzel, R Rzanny, J Schubert, WA Kaiser (2000). *Imaging in ureteral complications of renal transplantation: value of static fluid MR urography*. *Eur Radiol* (10), 1152–1157
252. H Sprott, R Rzanny, JR Reichenbach, WA Kaiser, G Hein, G Stein (2000). *³¹P magnetic resonance spectroscopy in fibromyalgic muscle*. *Rheumatology (Oxford)* (39), 1121–1125
253. IL Tan, RA Schijndel, PJ Pouwels, MA Walderveen, JR Reichenbach, RA Manoliu, F Barkhof (2000). *MR venography of multiple sclerosis*. *AJNR Am J Neuroradiol* (21), 1039–1042
254. HR Volz, S Riehemann, I Maurer, S Smesny, M Sommer, R Rzanny, W Holstein, J Czekalla, H Sauer (2000). *Reduced phosphodiesters and high-energy phosphates in the frontal lobe of schizophrenic patients: a ³¹P chemical shift spectroscopic-imaging study*. *Biol Psychiatry* (47), 954–961

1999

255. M Barth, JR Reichenbach, R Venkatesan, E Moser, EM Haacke (1999). *High-resolution, multiple gradient-echo functional MRI at 1.5 T*. *Magn Reson Imaging* (17), 321–329
256. C Dettmers, J Liepert, T Adler, R Rzanny, M Rijntjes, R Schayck, WA Kaiser, L Brückner, C Weiller (1999). *Abnormal motor cortex organization contralateral to early upper limb amputation in humans*. *Neurosci Lett* (263), 41–44
257. M Essig, JR Reichenbach, LR Schad, SO Schoenberg, J Debus, WA Kaiser (1999). *High-resolution MR venography of cerebral arteriovenous malformations*. *Magn Reson Imaging* (17), 1417–1425
258. P Georgiewa, R Rzanny, JM Hopf, R Knab, V Glauche, WA Kaiser, B Blanz (1999). *fMRI during word processing in dyslexic and normal reading children*. *Neuroreport* (10), 3459–3465
259. FG Hoogenraad, MB Hofman, PJ Pouwels, JR Reichenbach, SA Rombouts, EM Haacke (1999). *Sub-millimeter fMRI at 1.5 Tesla: correlation of high resolution with low resolution measurements*. *J Magn Reson Imaging* (9), 475–482
260. JR Reichenbach, J Röther, L Jonetz-Mentzel, M Herzau, A Fiala, C Weiller, WA Kaiser (1999). *Acute stroke evaluated by time-to-peak mapping during initial and early follow-up perfusion CT studies*. *AJNR Am J Neuroradiol* (20), 1842–1850

261. JR Reichenbach, C Przetak, G Klinger, WA Kaiser (1999). *Assessment of breast tissue changes on hormonal replacement therapy using MRI: a pilot study*. *J Comput Assist Tomogr* (23), 407–413
262. S Riehemann, HP Volz, B Wenda, G Hübner, G Rössger, R Rzanny, H Sauer (1999). *Frontal lobe in vivo (31)P-MRS reveals gender differences in healthy controls, not in schizophrenics*. *NMR Biomed* (12), 483–489
263. H Volz, C Gaser, F Häger, R Rzanny, J Pönisch, H Mentzel, WA Kaiser, H Sauer (1999). *Decreased frontal activation in schizophrenics during stimulation with the continuous performance test—a functional magnetic resonance imaging study*. *Eur Psychiatry* (14), 17–24
264. HP Volz, G Rössger, S Riehemann, G Hübner, I Maurer, B Wenda, R Rzanny, WA Kaiser, H Sauer (1999). *Increase of phosphodiesters during neuroleptic treatment of schizophrenics: a longitudinal 31P-magnetic resonance spectroscopic study*. *Biol Psychiatry* (45), 1221–1225

1998

265. KT Baudendistel, JR Reichenbach, R Metzner, J Schroeder, LR Schad (1998). *Comparison of functional MR-venography and EPI-BOLD fMRI at 1.5 T*. *Magn Reson Imaging* (16), 989–991
266. FG Hoogenraad, JR Reichenbach, EM Haacke, S Lai, K Kuppusamy, M Sprenger (1998). *In vivo measurement of changes in venous blood-oxygenation with high resolution functional MRI at 0.95 tesla by measuring changes in susceptibility and velocity*. *Magn Reson Med* (39), 97–107
267. A Klemm, R Rzanny, R Fünfstück, W Werner, J Schubert, WA Kaiser, G Stein (1998). *31P-magnetic resonance spectroscopy (31P-MRS) of human allografts after renal transplantation*. *Nephrol Dial Transplant* (13), 3147–3152
268. HJ Mentzel, C Gaser, HP Volz, R Rzanny, F Häger, H Sauer, WA Kaiser (1998). *Cognitive stimulation with the Wisconsin Card Sorting Test: functional MR imaging at 1.5 T*. *Radiology* (207), 399–404
269. JR Reichenbach, M Essig, EM Haacke, BC Lee, C Przetak, WA Kaiser, LR Schad (1998). *High-resolution venography of the brain using magnetic resonance imaging*. *MAGMA* (6), 62–69
270. JR Reichenbach, R Feiwell, K Kuppusamy, M Bahn, EM Haacke (1998). *Functional magnetic resonance imaging of the basal ganglia and cerebellum using a simple motor paradigm*. *Magn Reson Imaging* (16), 281–287
271. HP Volz, R Rzanny, S Riehemann, S May, H Hegewald, B Preussler, G Hübner, WA Kaiser, H Sauer (1998). *31P magnetic resonance spectroscopy in the frontal lobe of major depressed patients*. *Eur Arch Psychiatry Clin Neurosci* (248), 289–295
272. HP Volz, R Rzanny, G Rössger, G Hübner, I Kreitschmann-Andermahr, WA Kaiser, H Sauer (1998). *31Phosphorus magnetic resonance spectroscopy of the dorsolateral prefrontal region in schizophrenics—a study including 50 patients and 36 controls*. *Biol Psychiatry* (44), 399–404
273. HP Volz, G Hübner, R Rzanny, G Rössger, B Preussler, M Eichhorn, I Kreitschmann-Andermahr, WA Kaiser, H Sauer (1998). *High-energy phosphates in the frontal lobe correlate with Wisconsin Card Sort Test performance in controls, not in schizophrenics: a 31phosphorus magnetic resonance spectroscopic and neuropsychological investigation*. *Schizophr Res* (31), 37–47

1997

274. T Hackländer, JR Reichenbach, U Mödder (1997). *Comparison of cerebral blood volume measurements using the T1 and T2* methods in normal human brains and brain tumors*. *J Comput Assist Tomogr* (21), 857–866
275. T Hackländer, JR Reichenbach, J Weule, U Mödder (1997). *An efficient and robust PC program to calculate MR based regional cerebral blood volume maps*. *Comput Med Imaging Graph* (21), 51–62
276. JR Reichenbach, R Venkatesan, DJ Schillinger, DK Kido, EM Haacke (1997). *Small vessels in the human brain: MR venography with deoxyhemoglobin as an intrinsic contrast agent*. *Radiology* (204), 272–277
277. JR Reichenbach, R Venkatesan, DA Yablonskiy, MR Thompson, S Lai, EM Haacke (1997). *Theory and application of static field inhomogeneity effects in gradient-echo imaging*. *J Magn Reson Imaging* (7), 266–279
278. JR Reichenbach, T Hackländer, T Harth, M Hofer, M Rassek, U Mödder (1997). *IH T1 and T2 measurements of the MR imaging contrast agents Gd-DTPA and Gd-DTPA BMA at 1.5T*. *Eur Radiol* (7), 264–274

1996

279. T Hackländer, M Hofer, JR Reichenbach, K Rascher, G Fürst, U Mödder (1996). *Cerebral blood volume maps with dynamic contrast-enhanced T1-weighted FLASH imaging: normal values and preliminary clinical results.* *J Comput Assist Tomogr* (20), 532–539
280. T Hackländer, JR Reichenbach, M Hofer, U Mödder (1996). *Measurement of cerebral blood volume via the relaxing effect of low-dose gadopentetate dimeglumine during bolus transit.* *AJNR Am J Neuroradiol* (17), 821–830
281. S Lai, JR Reichenbach, EM Haacke (1996). *Commutator filter: a novel technique for the identification of structures producing significant susceptibility inhomogeneities and its application to functional MRI.* *Magn Reson Med* (36), 781–787