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[Research Interests](#)

[Projects](#)

[Publications](#)

[CV](#)

### Research Interests

- MR applications for drug evaluations in preclinical and clinical studies

[Back to top](#)

### Projects

- [Magnetic Resonance Development and Application Center](#)

[Back to top](#)

### Publications

#### Journal papers

- McSheehy PM, Weidensteiner C, Cagnet C, Ferretti S, Laurent D, Ruetz S, Stumm M, Allegrini PR Quantified tumor T1 is a generic early-response imaging biomarker for chemotherapy reflecting cell viability Clin Cancer Res 2010;16(1):212-25
- Grueninger F, Bohrmann B, Czech C, Ballard TM, Frey JR, Weidensteiner C, von Kienlin M, Ozmen L Phosphorylation of Tau at S422 is enhanced by Abeta in TauPS2APP triple transgenic mice. Neurobiol Dis 2010;37(2):294-306
- Weidensteiner C, Metzger F, Bruns A, Bohrmann B, Kuennecke B, von Kienlin M Cortical hypoperfusion in the B6.PS2APP mouse model for Alzheimer's disease: comprehensive phenotyping of vascular and tissular parameters by MRI Magn Reson Med 2009;62(1):35-45
- Jászberényi Z, Moriggi L, Schmidt P, Weidensteiner C, Kneuer R, Merbach AE, Helm L, Tóth É Physicochemical and MRI characterization of Gd3+-loaded polyamidoamine and hyperbranched dendrimers J Biol Inorg Chem 2007;12(3):406-20
- Weidensteiner C, Rausch M, McSheehy P, Allegrini PR Quantitative dynamic contrast enhanced MRI in tumor-bearing rats and mice with Inversion Recovery TrueFISP and two contrast agents at 4.7 T J Magn Reson Imaging 2006;24(3):646-656
- Livramento JB, Weidensteiner C, Prata MIM, Allegrini PR, Geraldes CFGC, Helm L, Kneuer R, Merbach AE, Santos AC, Schmidt P, Tóth É First in vivo MRI assessment of a self-assembled metallostear compound endowed with a remarkable high field relaxivity Contrast Med Mol Imaging 2006;1:30-39
- Weidensteiner C, Keroui N, Quesson B, de Senneville BD, Trillaud H, Moonen CT Stability of real-time MR temperature mapping in healthy and diseased human liver J Magn Reson Imaging 2004;19(4):438-46
- Weidensteiner C, Quesson B, Caire-Gana B, Keroui N, Rullier A, Trillaud H, Moonen CT Real-time MR temperature mapping of rabbit liver in vivo during thermal ablation Magn Reson Med 2003;50(2):322-30
- Weidensteiner C, Horn M, Fekete E, Neubauer S, v. Kienlin M Imaging of intracellular sodium with shift reagent aided <sup>23</sup>Na CSI in isolated rat hearts Magn Reson Med 2002;48(1):89-96

- Horn M, Weidensteiner C, Scheffer H, Meininger M, de Groot M, Remkes H, Dienesch C, Przyklenk K, v. Kienlin M, Neubauer S Detection of myocardial viability based on measurement of sodium content – a  $^{23}\text{Na}$ -NMR study *Magn Reson Med* 2001;45(5):756-64
- Weidensteiner C, Lanz T, Horn M, Neubauer S, Haase A, v. Kienlin M Three-dimensional  $^{13}\text{C}$ -spectroscopic imaging in the isolated infarcted rat heart *J Magn Reson* 2000;143(1):17-23

[Back to top](#)

## CV

### Research experience

2008-	Magnetic Resonance Development and Application Center, University of Freiburg, Germany
2006-2007	F. Hoffmann-La Roche AG, Basel, Switzerland MR imaging in models of neurodegenerative diseases and atherosclerosis in vivo
2003-2006	Novartis Pharma AG, Basel, Switzerland MR spectroscopy and MR imaging in experimental tumor models in vivo
2001-2003	CNRS/Université Victor Segalen Bordeaux 2, France temperature MR imaging for the control of thermal ablation of hepatic tumors
1997-2001	PhD thesis in biophysics, University of Würzburg, Germany in vivo $^{13}\text{C}$ and $^{23}\text{Na}$ MR imaging in rat hearts
1996-1997	diploma thesis in biophysics, University of Würzburg, Germany in vivo $^{13}\text{C}$ MR spectroscopy in rat hearts

[Back to top](#)