Curriculum vitae Dr. rer. nat. Karl-Heinz Herrmann

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Academic Education	1989	Studies of Physics, Friedrich-Alexander-University Erlangen-Nürnberg
	1997	Diploma in Physics
	2001	Doctorate research center Jülich/University Bonn, “Noninvasive characterisation of transport properties of porous media: 3D studies using NMR Imaging”
Professional Career	2001–2002	Post-Doc research center Jülich
	2002–2003	Post-Doc Indira Gandhi Center for Atomic Research, Kalpakkam, Tamil Nadu, Indien
	2004–	Post-Doc than staff member at Medical Physics Group, IDIR, University Hospital Jena
	2015–	Labmanager of the small animal MRI

Publications (max. 10 most relevant)

1. B. **Christ**, U. **Dahmen**, K.-H. **Herrmann**, M. **König**, J. R. **Reichenbach**, T. **Ricken**, J. Schleicher, L. O. **Schwen**, S. Vlaic, and N. Waschinsky. “Computational Modeling in Liver Surgery.” In: *Frontiers in Physiology* 8 (2017), p. 906. DOI: 10.3389/fphys.2017.00906
2. A. Joerk, M. Ritter, N. Langguth, R. A. Seidel, D. Freitag, K.-H. **Herrmann**, A. Schaefgen, M. Ritter, M. Günther, C. Sommer, D. Braemer, J. Walter, C. Ewald, R. Kalff, J. R. **Reichenbach**, M. Westerhausen, G. Pohnert, O. W. Witte, and K. Holthoff. “Propentdyopents as Heme Degradation Intermediates Constrict Mouse Cerebral Arterioles and Are Present in the Cerebrospinal Fluid of Patients With Subarachnoid Hemorrhage”. In: *Circulation research* 124.12 (2019), e101–e114. DOI: 10.1161/CIRCRESAHA.118.314160
3. D. Kentrup, P. Bovenkamp, A. Busch, K. Schuette-Nuetgen, H. Pawelski, H. Pavenstädt, E. Schlatter, K.-H. **Herrmann**, J. R. **Reichenbach**, B. Löffler, B. Heitplatz, V. Van Marck, N. N. Yadav, G. Liu, P. C. M. van Zijl, S. Reuter, and V. Hoerr. “GlucoCEST magnetic resonance imaging in vivo may be diagnostic of acute renal allograft rejection.” In: *Kidney International* 92 (3 2017), pp. 757–764. DOI: 10.1016/j.kint.2017.04.015
4. A. Tesch, C. Wenisch, K.-H. **Herrmann**, J. R. **Reichenbach**, P. Warncke, D. Fischer, and F. A. Müller. “Luminomagnetic Eu(3+)- and Dy(3+)-doped hydroxyapatite for multimodal imaging”. In: *Materials Science and Engineering: C* 81 (2017), pp. 422–431. DOI: 10.1016/j.msec.2017.08.032
5. M. Krämer, A. G. Motaal, K. **Herrmann**, B. Löffler, J. **Reichenbach**, G. Strijkers, and V. Hoerr. “Cardiac 4D phase-contrast CMR at 9.4 T using self-gated ultra-short echo time (UTE) imaging”. In: *Journal of Cardiovascular Magnetic Resonance* 19.1 (2017), p. 39
6. K.-H. **Herrmann**, M. Krämer, and J. R. **Reichenbach**. “Time Efficient 3D Radial UTE Sampling with Fully Automatic Delay Compensation on a Clinical 3T MR Scanner.” In: *PloS One* 11 (3 2016), e0150371. DOI: 10.1371/journal.pone.0150371

7. M. Grotheer, K.-H. **Herrmann**, and G. Kovacs. “Neuroimaging Evidence of a Bilateral Representation for Visually Presented Numbers”. In: *Journal of Neuroscience* 36.1 (2016), pp. 88–97. DOI: 10.1523/jneurosci.2129-15.2016
8. M. Krämer, K.-H. **Herrmann**, J. Biermann, S. Freiburger, M. Schwarzer, and J. R. **Reichenbach**. “Self-gated cardiac Cine MRI of the rat on a clinical 3 T MRI system.” In: *NMR in Biomedicine* 28 (2 2015), pp. 162–167. DOI: 10.1002/nbm.3234
9. K.-H. **Herrmann**, C. Gärtner, D. Güllmar, M. Krämer, and J. R. **Reichenbach**. “3D printing of MRI compatible components: Why every MRI research group should have a low-budget 3D printer”. In: *Medical Engineering & Physics* 36.10 (2014), pp. 1373–1380. DOI: 10.1016/j.medengphy.2014.06.008
10. K.-H. **Herrmann**, S. Schmidt, A. Kretz, R. Haenold, I. Krumbein, M. Metzler, C. Gaser, O. W. Witte, and J. R. **Reichenbach**. “Possibilities and limitations for high resolution small animal MRI on a clinical whole-body 3T scanner.” In: *Magma (New York, N.Y.)* 25 (3 2012), pp. 233–244. DOI: 10.1007/s10334-011-0284-5