Dr. Daniel Paech, M.D., M.Sc.

Group leader: New MRI contrasts in oncologic imaging

Expertise/ Scientific focus: Chemical Exchange Saturation Transfer (CEST) imaging, ultra-high field (7 Tesla) MRI, neuroradiology, breast MRI, glucose enhanced MRI, molecular imaging, medical education

Biography:

Dr. Daniel Paech, M.D., M.Sc. is a resident physician and researcher in diagnostic radiology at the German Cancer Research Center in Heidelberg (DKFZ). He studied physics (Diploma 2011) and medicine (state examination 2015) at the University of Karlsruhe, Heidelberg and Paris-Sorbonne. He also obtained a European Business Competence License (EBC*L) in the course of economics studies. Dr. Daniel Paech was awarded a scholarship by the German National Academic Foundation (*Studienstiftung des Deutschen Volkes*) and he became a member of the "*Talents in Medicine"* program of the Heidelberg University Hospital.

After finishing his doctoral thesis (*summa cum laude*) at the department of Neuroradiology, Heidelberg University Hospital, dealing with Chemical Exchange Saturation Transfer (CEST) imaging of high grade brain tumors at ultra-high field strength MRI (7 Tesla), his current work is centered on the development and clinical translation of new MRI contrasts in the field of oncologic imaging.

He is leading an interdisciplinary research team focusing on the investigation and translation of molecular MRI contrasts, sensitive to cellular and micro environmental information such as protein concentration and pH, both at ultra-high and clinical field strength. He is also a lecturer in gross anatomy at the University of Heidelberg, where he conducts research studies on the use of radiological imaging modalities in the medical curriculum.

Dr. Daniel Paech has special expertise in brain and breast cancer imaging and has authored or co-authored over 15 scientific publications, two book chapters, over 20 congress abstracts and works as a reviewer for high impact peer-reviewed radiological journals. He received the Magna cum Laude Award (2014) of the *International Society of Magnetic Resonance in Medicine* (ISMRM), became a member of the ISMRM educational stipend program, and was awarded the Trainee Research Award (2016) of the *Radiologic Society of North America* (RSNA).

Publications:

http://www.ncbi.nlm.nih.gov/pubmed/?term=paech+d
https://scholar.google.de/citations?user=vFd0QKAAAAAJ&hl=de&oi=ao