

Research profile for applicants

Name of DKFZ research division/group:	<i>Translational Molecular Imaging (E280)</i>
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Group homepage: <i>Visit this website for further information on current research and recent publications.</i>	https://www.dkfz.de/en/translational-molecular-imaging

RESEARCH PROFILE AND PROJECT TOPICS

The research of the Division of Translational Molecular Imaging focuses on the development and characterization of targeted contrast agents in the context of novel detection techniques for diagnostic applications in oncology. We aim to visualize important molecular changes in the occurrence and progression of cancer at an early stage.

Potential topics include synthesis and characterization of novel (CEST-based) MRI contrast agents as well as advanced MRI acquisition techniques for hyperpolarized spin systems. We have exclusive access to a state-of-the art 9.4 T microimaging systems and an in-house developed setup for the production of hyperpolarized Xe. Experience in either chemical synthesis or MRI sequence programming would be appreciated.



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