

Research profile for applicants

Name of DKFZ research division/group:	Clinical Cooperation Unit Neuropathology (B300)
Contact person:	Stefan Pusch/Abigail Suwala s.pusch@dkfz-heidelberg.de 116 1473
Group homepage: <i>Visit this website for further information on current research and recent publications.</i>	www.dkfz.de/en/neuropathologie/
Eligibility:	<ul style="list-style-type: none"> • DKFZ Postdoctoral Fellowships • Dr. Rurainski Fellowship at DKFZ

RESEARCH PROFILE AND PROJECT TOPICS

We are interested in the epigenetic mechanisms driving IDH-mutant gliomas. By analyzing changes in chromatin (ATAC-seq, HiC, ChIP, Cut&Run), DNA-methylation, spatial transcriptomics (Xenium) and single cell approaches on patient samples, we want to better understand what is causing progression and treatment failure. Our discoveries in human samples are augmented by organoid and mouse models to get a comprehensive understanding of the disease. We have access to a large database including DNA sequencing, DNA methylation, RNA sequencing and proteomic data of clinically annotated samples and tissue. You will work in a dedicated team consisting of PhDs, MDs and technicians. We are located in the Neuropathology department (university clinic) and the DKFZ main building. The ultimate goal is to shed light to the progression of IDH-mutant gliomas and significantly improve patient outcomes. Working closely with the teams of the Clinical Cooperation Unit Neuropathology and the diagnostic Department of Neuropathology will ensure that our findings are rapidly translated into clinical practice.



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