

Research profile for applicants

Name of DKFZ research division/group:	<i>Molecular Neurogenetics (A240)</i>
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Group homepage: <i>Visit this website for further information on current research and recent publications.</i>	<i><u>https://www.dkfz.de/en/molecular-neurogenetics</u></i>

RESEARCH PROFILE AND PROJECT TOPICS

The Division of Molecular Neurogenetics focuses on stem cell biology and central nervous system cancers. Our primary objective is to decipher the fundamental mechanisms driving brain tumor plasticity and to develop innovative therapies that improve glioblastoma treatment. Our current efforts involve generating sophisticated human brain organoid and brain tumor organoid models that closely replicate the genetic and phenotypic features of brain tumors. Leveraging state-of-the-art single-cell technology, CRISPR/Cas9 genome editing and artificial intelligence, we aim to dissect the molecular and cellular heterogeneity in human glioblastoma, with a strong emphasis on dormant cancer stem cells. The postdoc candidate will pursue one of the drug discovery project to demonstrate the mode of action and push this toward clinical translation of the novel drug we developed in the advanced models.



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