

Research profile for applicants

Name of DKFZ research division/group:	<i>Translational Neuroblastoma Research, B087</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/neuroblastoma-genomics

RESEARCH PROFILE AND PROJECT TOPICS

Our goal is to bridge developmental biology and translational oncology to understand why childhood tumors arise so early in life and how they can be detected and treated more effectively. The laboratory leads large international consortia that connect basic science with clinical implementation. Current strategic priorities include mapping the cell of origin and developmental timing of neuroblastoma using single-cell and spatial multi-omics; dissecting how immune maturation and tolerance in early life shape embryonal-tumor evolution; exploiting synthetic-lethal and metabolic vulnerabilities (e.g. ferroptosis and CRC-targeting) for therapy; developing early-detection strategies (Evo-Detect) using archived newborn samples and liquid biopsies; and building computational and data-sharing platforms (ITCC-P4, INFORM, PedCan) to accelerate drug discovery and precision medicine.



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