

Research profile for applicants

Name of DKFZ research division/group:	<i>Translation and Metabolism in Myeloid Malignancies/FR07</i>
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Group homepage: <i>Visit this website for further information on current research and recent publications.</i>	<i>https://dtkk.dkfz.de/en/research/dtkk-researchers/mayerhofer-group</i>

RESEARCH PROFILE AND PROJECT TOPICS

Our group investigates how acute myeloid leukemia (AML) cells survive and persist under therapeutic stress, and how this chemoresistance can be therapeutically disrupted. We combine ribosome profiling, single-cell analysis, metabolomics, in vivo models and patient-derived xenografts (PDX) to dissect the metabolic and translational programs driving treatment resistance and clonal heterogeneity in AML. The group is embedded in a high-profile collaborative environment spanning the DTKK partner site Freiburg and DKFZ Heidelberg, with additional Emmy Noether funding from the DFG.

A potential postdoctoral project would focus on designing and leading experiments using ribosome and polysome profiling workflows, metabolic profiling, functional cell-based assays, complemented by in vivo work in PDX mouse models. The postdoc would analyze and interpret multi-omic sequencing data in close collaboration with bioinformaticians, working to identify and functionally validate metabolic and translational dependencies underlying AML chemoresistance. Beyond the experimental work, there is substantial scope to shape the direction of this specific project and contribute to manuscript preparation and grant applications.

We are looking for a highly motivated researcher with a strong background in cell and molecular biology, a keen interest in translational cancer research, and experience with cell culture, functional cell-based assays and animal models. The position offers scientific independence combined with close mentorship, the opportunity to co-supervise doctoral students, and a clear pathway for career development.



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