Research profile for applicants

Name of DKFZ research division/group:	*Junior Clinical Cooperation Unit Translational Lymphoma Research*
Contact person:	*Dr. Katharina Clemm,* *k.clemm@dkfz-heidelberg.de*
Group homepage: *Visit this website for further information on current research and recent publications.*	*https://www.dkfz.de/en/signal-transduction-cancer/pages/Katharina_Clemm.html*
Eligibility:	• **DKFZ Postdoctoral Fellowships**

RESEARCH PROFILE AND PROJECT TOPICS

The junior group's research is focused on malignant lymphoma (lymph node and lymphatic cell cancer). In recent years a number of novel therapeutic strategies (kinase inhibitors, inhibitors of the anti-apoptotic molecule BCL2, monoclonal antibodies, CAR T cells, antibody-drug conjugates, and others) have been developed to treat malignant lymphoma. However – despite extensive characterization of the genome and transcriptome of lymphoma cells – predictive biomarkers have not been identified.

We aim at elucidating the signalling pathways that are actually active in the individual lymphoma patient by analyzing proteins and post-translational modifications in patient blood and lymphoma tissue ("liquid biopsy"). This is done by isolation, purification and comprehensive and unbiased, proteome-wide analyses of extracellular vesicles from patient blood and lymphoma tissue. Since the group's PI is also in charge of lymphoma patients at the University Hospital Mannheim, we receive patient material and information first-hand and there is a close collaboration with clinicians and clinical researchers.

We are looking for a highly motivated postdoctoral student with a strong background in molecular biology and protein biochemistry, who would like to contribute to the development of the novel diagnostic method of protein liquid biopsy in lymphoma patients. The prospective postdoctoral student will work at this intersection between translational and basic research, using patient samples as well as cultured cell lines and a broad spectrum of molecular biological, biochemical and biostatistical methods, with a focus on functional proteomics.