

Research profile for applicants

Name of DKFZ research division/group:	<i>Dynamics of Cell-Intrinsic Innate Immunity (AG Binder), Division Virus-Associated Carcinogenesis (D430)</i>
Contact person:	<i>Dr. Marco Binder (m.binder@dkfz.de)</i>
Group homepage: <i>Visit this website for further information on current research and recent publications.</i>	<i>https://www.dkfz.de/en/virus-assozierte-karzinogenese/groups/AGBinder/research.html</i>
Eligibility:	<ul style="list-style-type: none"> <i>DKFZ Postdoctoral Fellowships</i>

RESEARCH PROFILE AND PROJECT TOPICS

Our research group is deeply invested in studying the mechanisms of cell-intrinsic antiviral pathways. One of our main interests is the dynamics of these pathways and how they can be modulated to make cells more or less responsive. Over the past decade, evidence has emerged for the critical involvement of these antiviral pathways in cancer development, tumor immune control, and chemo- or radiotherapy. In our group, we work to unravel the intricate molecular connections between DNA damage responses, virus-sensing pathways, and certain key transcription factors. Together with Stefan Seitz's group in our division, we now aim to explore the involvement of endogenous viral or virus-like elements (e.g., [retro-] transposable elements, endogenous [retro-] viruses, non-coding RNAs) and, in a unique new direction, exogenous commensal viruses and novel virus-like entities recently identified or about to be discovered.



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