

Hosting group information for applicants

Name of DKFZ research division/group:

Division of Clinical Epidemiology and Aging Research (C070)

Contact person: **Hermann Brenner**

(<https://www.dkfz.de/de/klinepi/mitarbeiter/Brenner.html>) , **Michael Hoffmeister**

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Group homepage: <https://www.dkfz.de/en/klinepi/index.php>

Please visit our website for further information on our research and recent publications.

RESEARCH PROFILE AND PROJECT TOPICS:

The Clinical Epidemiology and Aging Research Division's main areas of research include novel approaches to clinical cancer epidemiology, cancer prevention and early detection, epidemiology of chronic age-related diseases and epidemiological methods. In the field of clinical cancer epidemiology, the group conducts large-scale epidemiological studies focusing on new avenues of more effective cancer prevention and early detection, and on issues of the quality of medical care, prognosis and quality of life of cancer patients. Further large-scale epidemiological studies focus on detection of risk factors, risk markers and prognostic factors of cardiovascular disease, diabetes mellitus and arthritis, thereby aiming to explore new avenues of enhanced prevention and management of these common and strongly age-related diseases. Most of the Division's studies are conducted in interdisciplinary, oftentimes international collaborations with cancer registries, clinical partners and partners from basic research. Apart from the application of the highest methodological standards in these studies, a major area of research conducted in the Division is devoted to further development and enhancement of methods in epidemiological research.

Potential projects of postdoctoral fellows working in our group include (references to recent related work in parentheses)

- Development and validation of nomograms for enhanced outcome and therapy response prediction for colorectal cancer patients based on patient and tumor characteristics and novel molecular markers and algorithms

(<https://www.ncbi.nlm.nih.gov/pubmed/29101262>,

<https://www.ncbi.nlm.nih.gov/pubmed/30677016>,

<https://www.ncbi.nlm.nih.gov/pubmed/28303888>)

- Development and validation of enhanced risk stratification and personalized screening strategies for common cancers based on combination of high dimensional genetic, epigenetic and risk factor data (<https://www.ncbi.nlm.nih.gov/pubmed/29574091>, <https://www.ncbi.nlm.nih.gov/pubmed/30868574>)



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- Development and validation of novel approaches for enhanced noninvasive or minimally invasive cancer early detection
(<https://www.ncbi.nlm.nih.gov/pubmed/31063574>,
<https://www.ncbi.nlm.nih.gov/pubmed/28958859>)



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