

## Hosting group information for applicants

Name of DKFZ research division/group:  
**Digital Biomarkers for Oncology (C140)**

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Group homepage: <https://www.dkfz.de/en/digitale-biomarker/index.php>

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

### RESEARCH PROFILE AND PROJECT TOPICS:

Our newly established research group focusses on image analysis based on Artificial Intelligence (AI) to identify and characterize cancer. One of our main areas of interest is the development of digital biomarkers by AI-mediated analysis of tumor tissue on histological slides to predict tumor behavior e.g. scattering behavior or therapy response. Furthermore, we develop and optimize CNN-based classifiers for skin cancer early detection. In the very competitive field of CNN-based cancer diagnostics, we have already generated and successfully published various algorithms that were able to classify melanoma and other skin lesions with an accuracy similar to that of experts in the field. As an interdisciplinary team of data scientists and biomedical researchers, our goal is to lay the groundwork for the implementation of AI-based diagnostic assistance systems in routine clinical care. To achieve this goal, we also develop methods to improve the explainability and robustness of the models.

To extend our team and enhance its knowledge and scientific output, we are looking for outstanding scientists (m/f/d) for scientific planning of practical use of artificial intelligence in the diagnostic and therapeutic management of cancer patients.

The job profile includes independent scientific work in a supportive team, including the writing of own scientific publications and pursuing research questions - with the goal to detect diseases quickly in order to spare patients avoidable suffering and to improve oncological care as a whole.

Joining us, you would be supported to publish many first-authorships in a short time period to fast-track your own route to professorship.



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