

Hosting group information for applicants

Name of DKFZ research division/group:

Division of Biostatistics, C060

Contact person: **Prof. Dr. Annette Kopp-Schneider, kopp@dkfz.de, +49 6221 42 2391**

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

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

RESEARCH PROFILE AND PROJECT TOPICS:

Research in the Division of Biostatistics is triggered by consulting requests from biomedical scientists from the DKFZ and collaborating groups. Often, experimental design and analysis strategies are not available 'off the shelf' but must be developed and tailored to the specific problem. Reflecting the broad range of methods we use, our research topics are diverse. However, we have a focus on predictive modelling where we use molecular data to find associations with clinico-pathological factors, prognosis or response to therapy. We specifically address the situation of event time data. The design and analysis of clinical trials to investigate biomarker-targeted therapies is another important topic for our work. In this context, we develop designs for early phase clinical trials which are based on Bayesian posterior distributions. First findings on the activity of novel targeted agents are available from registry studies or early clinical trials and these are per se non-randomized. We investigate how information can be obtained regarding the causal relationship between treatment and response. Other research topics address non-linear modelling of dose-response relationships to characterize the toxic effects of compounds. In this setting, we derive optimal experimental designs.



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