

Genomics & Proteomics Core Facility

Genomics & Proteomics Core Facility (GPCF)

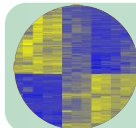
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The GPCF offers access to state-of-the-art technologies that cannot be established in the scientific units due to cost and/or demanding technology constraints, advice for experiment planning as well as data analysis resulting from the following applications:

State-of-the-Art-Technologies

Microarrays

Microarray-based analysis of nucleic acids: chip based mRNA and miRNA expression profiling, SNP genotyping and CNV analysis, methylation profiling. Peptide-based kinase activity profiling of protein lysates ...



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High-Throughput Sequencing

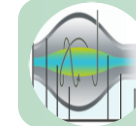
High-throughput sequencing: whole genome sequencing, stranded RNA-seq, exome seq, ChIP-seq, whole genome bisulfite-seq ...



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MS based Protein Analysis

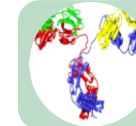
Mass spectrometry based protein analysis: qualitative and quantitative Proteomics service, PTM analysis, protein interaction analysis ...



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Antibodies

Production of monoclonal antibodies (e.g. for diagnostic applications) and polyclonal antibodies ...

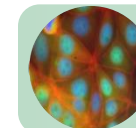


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Cellular Tools and Vector & Clone Repository

Generation of custom cellular models: virus transduced, targeted integration in safe harbor locus, luminescence or fluorescence labeled cell lines, immortalized primary cell lines for either constitutive or inducible expression

Access to cloned human open reading frames (>70%) in Gateway recombination format, >80 recombination adapted expression vectors for different species + shuttle service for ORF-transfer in suitable expression vectors ...



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... and more - visit the GPCF webpage for other services

www.dkfz.de/gpcf

Access Mode

The majority of technologies are offered as full service, i.e., sample in - data out. We additionally maintain costly and frequently requested instruments (e.g., qRT-PCR, ddPCR) and user-operated software and tools for data analysis (Chipster, Ingenuity Pathway Analysis, Galaxy) in an assisted access mode.

Training and Teaching

We offer courses and individual training particularly for predocs (credit points!) and postdocs, but also to other staff.

Web Access

On the weblink you will find links to on-line submission of samples, booking of instruments, details on courses and education as well as contact details:

