5,000 Genome project



Material

RNA-Seq

&

WGS

Aims



Our vision is to understand the genetic and molecular basis of the various leukemias in all their complexity and to use the acquired knowledge to further refine diagnostics in order to ensure the best possible therapy for each patient.

Our biobank enables us to include rare leukemias and lymphomas and thus cover a very broad spectrum of different entities. The DNA or RNA required for the analysis is obtained from bone marrow or blood samples.



At MLL, the data from the sequencers are transferred directly to the Amazon Cloud in Frankfurt. The WGS and RNA-Seq data of the 5K project are stored completely anonymized in a private AWS domain of the Amazon Cloud in Frankfurt.

Data processing

Data pre-processing is performed in Illumina's BaseSpace Sequencing Hub and includes alignment, variant calling and, in the case of transcriptome analysis, count estimation. Further filtering and processing is performed using in-house analysis pipelines.

Contact

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