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## **Big Data in Next Generation Sequencing (NGS): Requirements and Challenges**

*Thursday 26 March 2015 10:00 (45 minutes)*

The DKFZ is the leading clinical sequencing center in Europe, equipped with 15 Illumina HiSeq sequencing machines and an actual 10.000 TB data storage capacity. The introduction of the new Illumina X-Ten technology enables the 1000\$ genome even now and at the same time will increase the data throughput by a factor of 10.

Resources and infra-structure required for playing the leading role in clinical sequencing will be highlighted in this presentation. Furthermore the aspects of precision oncology and the relating IT challenges will be discussed.

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