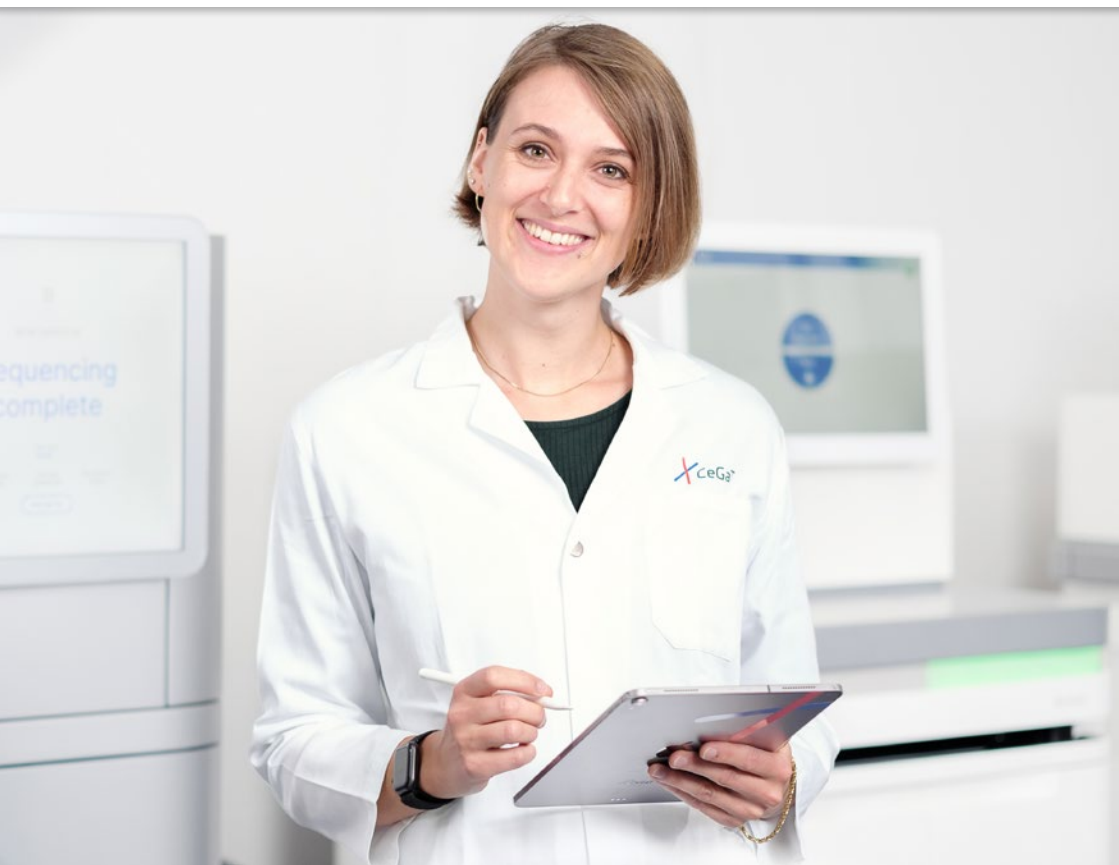


Genome Sequencing

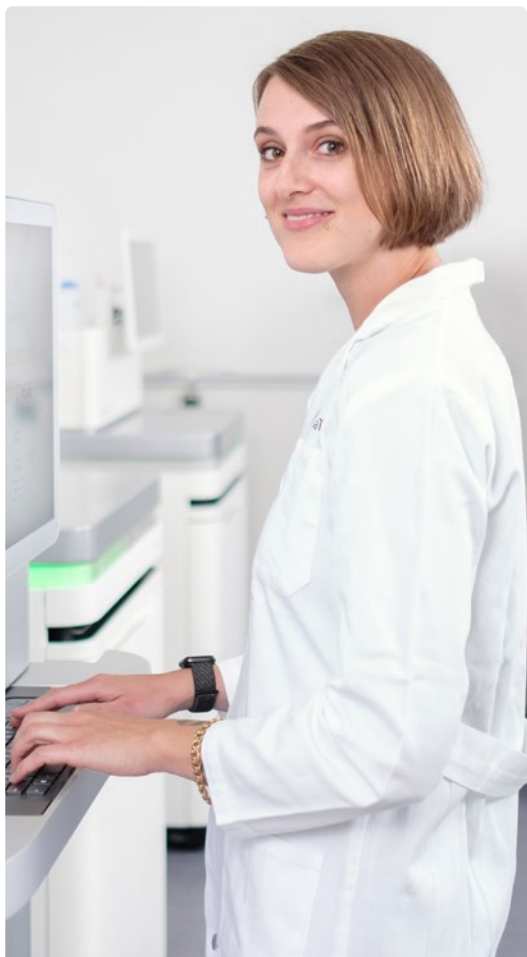


Receive the Most Comprehensive Collection Of an Individual's Genetic Information

The genome represents the entire genetic information of an organism. The most comprehensive collection of an individual's genetic information is provided by analyzing the whole genome using next-generation sequencing (NGS) technology. By comparing the individual's genetic information to a reference genome single nucleotide variants (SNVs), small insertions and deletions (indels), copy number variations (CNVs), and structural variants (SVs) can be studied.

Whole genome sequencing studies contribute to:

- ✦ Cancer studies, personalized medicine approaches, and translational research
- ✦ Discovery of biomarkers and understanding of pharmacogenetics
- ✦ Disease research
- ✦ Plant and animal breeding programs
- ✦ Examination of microorganisms



Explore Our Product Portfolio for Genome Sequencing

	WGS Large Classic	WGS Small Classic	WGS Flex	HiFi WGS
Species	Human, mouse	Microorganisms (genome size smaller than 20 Mb)	Diverse (genome size greater than 20 Mb)	Diverse
DNA quality	High molecular weight DNA		Various quality (e.g., fragmented DNA)	High molecular weight DNA
Protocol	+/- PCR amplification	+ PCR amplification	+/- PCR amplification	- PCR amplification
Read length	2 x 150 bp	2 x 100 bp	2 x 150 or 2 x 100 bp	Up to 18 kb
Sequencing platform	Illumina			PacBio
Output	90 Gb	2 Gb	Flexible	
Included deliverables	Project report & FASTQ files			Project report & clipped BAM files

WGS: Whole Genome Sequencing

Want to Discover More?
We invite you to take a look at our website.
www.cegat.com/genome-sequencing





About Us

CeGaT was founded in 2009 in Tübingen, Germany. Our scientists are specialized in next-generation sequencing (NGS) for genetic diagnostics, and we also provide a variety of sequencing services for research purposes and pharma solutions. Our sequencing service portfolio is complemented by analyses suited for microbiome, immunology, and translational oncology studies.

Our dedicated project management team of scientists and bio-informaticians works closely with you to develop the best strategy to realize your project. Depending on its scope, we select the most suitable library preparation and conditions on our sequencing platforms.

**We would be pleased to provide you with our excellent service.
Contact us today to start planning your next project.**



Accredited by DAKKS according to
DIN EN ISO/IEC 17025:2018



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