

The CENTOGENE Biodatabank: Powering Precision Medicine

1M+ Individuals
in the CENTOGENE
Biodatabank

Since our founding in 2006, CENTOGENE has been offering rapid and reliable diagnosis. Our Biodatabank combines Phenomic, Genomic, Transcriptomic, Epigenomic, Proteomic, and Metabolomic datasets from over 1 million individuals, submitted by more than 30,000 physicians across 120+ countries.

The datasets reflect a diverse geographic and ethnic sample base and include a large share of rare diseases involving cases from all specialties, and ultra-rare diseases, as well as pediatric cases, with data modalities including clinical and socio-demographic data. This data is captured in our CENTOGENE Biodatabank, with over 1 million patients represented from over 120 highly diverse countries, over 70% of whom are of non-European descent. To date, the CENTOGENE Biodatabank has contributed to generating novel insights for more than 350 peer-reviewed publications.



What Is a Biodatabank?

A Biodatabank is a curated repository of genetic, clinical, and multiomic data collected from patients worldwide.

It serves as a powerful resource for identifying disease pathways, improving diagnostics, and enabling precision medicine.

What Makes the CENTOGENE Biodatabank Unique?

CENTOGENE's Biodatabank is the largest real-world repository for rare and neurodegenerative diseases. With over 1M individuals represented, it combines global diversity, deep phenotypic data, and advanced analytics to transform complex biological data into actionable insights for better prevention, diagnosis, and treatment.

Key Features of the CENTOGENE Biodatabank



Comprehensive Data Collection

The CENTOGENE Biodatabank integrates multiomic data, including genomics, transcriptomics, proteomics, and metabolomics, providing a holistic view of diseases.



Global Diversity

With a diverse geographic and ethnic sample base, the Biodatabank includes a significant share of rare and ultra-rare diseases, as well as pediatric cases, ensuring broad applicability of findings.



Advanced Analytical Tools

Utilizing artificial intelligence and machine learning, CENTOGENE mines its datasets to uncover novel disease pathways and insights, accelerating research and development.

Unique Advantages of the CENTOGENE Biodatabank

Accelerated Drug Development

Access to high-quality, curated data expedites target identification and validation, reducing the time and cost associated with drug discovery.

Enhanced Clinical Trials

The Biodatabank facilitates precise patient stratification and identification, optimizing clinical trial design and recruitment.

Data-Driven Insights

Tailored data analysis reports and licenses provide partners with actionable intelligence, supporting informed decision-making throughout the drug development process.

Why Partner with CENTOGENE?

Proven Expertise: With nearly two decades of experience, CENTOGENE has contributed to over 350 peer-reviewed publications, demonstrating a strong track record in rare disease research.

Regulatory Compliance: Operating under ISO, CAP, and CLIA certifications, CENTOGENE ensures the highest standards of data quality and integrity.

Collaborative Approach: CENTOGENE offers flexible partnering models, including insight reports and biodata licenses, tailored to meet the specific needs of pharmaceutical and biotech companies.

Collaborative Approach: CENTOGENE offers data platform capabilities with analytical tools that can allow a partner to access large data sets and perform their own analysis and/or insight reports, tailored to meet the specific needs of pharmaceutical and biotech companies by answering to a specific scientific or research question.

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