

BACKGROUND

The Human Genome Project (HGP) is considered one of the greatest scientific achievements of the last century. BGI was founded in 1999 in order to participate in this significant research project. Since then, BGI has become a world-leading life science organization.



SERVICES

BGI leads innovative development in genomics and life sciences through its integrated model incorporating industry development, education and research in compliance with international bioethical protocols, and applies frontier multi-omics research findings to areas including medicine, healthcare, resource conservation, forensics and more; and provides

cutting-edge proprietary life science instruments and devices, technical support and solutions to accelerate industry transfer of genomic technologies and revolutionize current healthcare system towards precision medicine and precision healthcare, using "omics" to benefit the mankind.

CORE CAPABILITIES

Research

BGI-Research



22

Innovation Centers
(including 5 national and 1 provincial)



2200+

SCI Publications



1200+

Patent Applications

Sequencing Services

BGI-Genomics



Reproductive Health



Cancer Prevention and Treatment



Infectious Diseases

Advanced Tools in Life Sciences

MGI



Fully automated scale data production

Oct. 2018: launched the ultra-high-throughput sequencer MGISEQ-T7 and the high-throughput automated sample preparation system MGISP-960

Oct. 2017: launched high-throughput genetic sequencers MGISEQ-2000 and MGISEQ-200, MGIFLP modular NGS workstation, and MGI-US-R3 robotic ultrasound system

Nov. 2016: launched the BGISEQ-50 desktop sequencing system

Oct. 2015: launched the BGISEQ-500 high-throughput desktop sequencing system

Jun. 2015: launched the Revocity™ sequencing system

Jul. 2014: launched the BGISEQ-1000 sequencing system

Mar. 2013: successful acquisition of a U.S. company Complete Genomics

MGI



Reading, Writing and Storage of Genetic Resources



• Reading – Digitalization Platform

A world-leading genome reading platform producing petabytes of data per year

• Writing – Synthesis and Editing Platform

A world-leading genome writing platform capable of synthesizing 10 million-plus base pairs per year

• Storage – Biorepository

An automated, low-cost and high-throughput biobank capable of storing 25 million traceable high-quality bio-samples

• Storage – Bioinformatics Data Center

A secure and highly-efficient bioinformatic analysis platform with a storage capacity of 95 petabytes and a computing power of 691 teraflops

• Storage – Biological Resource Center of Plants, Animals and Micro-organisms

A digitalized biodiversity conservation base and biological resource center

• China National GeneBank DataBase (CNGBdb)

A scientific data system for biological data sharing and applications, integrating over 3 billion indexes of a total of 10 terabytes. The system has a total of 119 million visits to date.

QUICK FACTS

1999

BGI was founded in 1999.

6000+

BGI has more than 6000 employees worldwide.

100+

Services and solutions are available in 100+ countries and regions.

Shenzhen

Headquartered in Shenzhen.

31

Services and solutions are available in 31 provinces, autonomous regions and municipalities in Mainland China.

330+

330+ scientific papers published in the world's leading journals such as *Nature*, *Science*, *Cell*, and *New England Journal of Medicine*.

GLOBAL PRESENCE

BGI is headquartered in Shenzhen, with services and solutions available in more than 100 countries and regions around the world.



ORGANIZATIONS

BGI-Research

BGI-Research is one of the top ten basic research institutions in Shenzhen. After years of dedication in genomic research, BGI-Research has become a world-leading research center. Focusing on developing gene reading, writing and storage technologies, and leading international big data and disease prevention mega-science programs, BGI-Research aims to establish a comprehensive scientific research system covering bioinformatics, human genomics, agricultural genomics, microbiology, and marine biology.

BGI-College

Specialized in innovative higher education and training at international standard to foster future talents in life sciences for advancing scientific research and development.

China National GeneBank (Operated by BGI-Research)

As the first integrated national gene bank in China, China National GeneBank (CNGB) is committed to supporting scientific research, innovation, public welfare and industrial infrastructure construction. Based on the abilities to "read, write and store" genetic information, CNGB serves as an open platform that provides access to, and enables exchange and sharing of, genetic data and resources to advance the development of the life sciences and bio-economy.

GigaScience

Launched in July 2012, *GigaScience* aims to revolutionize publishing by promoting reproducibility of scientific research analyses, data dissemination, organization, understanding, and use.

BGI-Genomics (Shenzhen Stock Exchange: 300676)

A world-leading genetic testing and life science research service provider for health services, research institutions, and commercial organizations, to expedite scientific research, reduce birth defect rate, improve cancer and major disease treatment and prevention, and enable precision medicine.

MGI

MGI is committed to enabling effective and affordable healthcare solutions for all. MGI produces sequencing devices, equipment, consumables and reagents to support life science research, medicine and healthcare. MGI's multi-omics platforms include genetic sequencing, mass spectrometry and medical imaging. Its mission is to develop and promote advanced life science tools for future healthcare.

BGI-FGI

FGI is committed to providing world-leading high-accuracy forensic DNA testing to benefit the society. FGI innovates forensic application through integrating industry, education, and research. It has one of the first third-party forensic centers approved by Ministry of Justice of China.

BGI-MED

Focused on clinical transformation and application of genomic technologies with the aim to accelerate precision medicine providing precision diagnosis and treatment for patients.

BGI-Agro

BGI Agro, based on BGI's technical strengths in genomics and bioinformatics, is an innovative organization supporting genomic research and development in agricultural applications.

BGI-Health

BGI Health aims to provide precision health services and solutions by analyzing multi-omic data for BGI employees and their families, including precision prevention, intervention and improvement. It strives to provide full-life-cycle precision health services for more people in future.



To learn more about us, please visit
 Website: www.genomics.cn
 Facebook: BGI Group
 LinkedIn: BGI Group
 Twitter: TheBgiGroup
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