

A Unified Global Platform for Precision Medicine: Bringing Cloud Genomics to China

“By connecting through a compliant cloud everything from CLIA sequencing to drug discovery & development to companion diagnostics, we are empowering clinicians, institutions & life science companies to use genomics to benefit patients globally.”

Ge Li

Chairman and CEO of WuXi AppTec

OVERVIEW

In April 2015, DNAnexus and WuXi NextCODE announced a strategic alliance that will connect WuXi NextCODE's sequence data analysis suite and their parent company WuXi AppTec's global, open access drug discovery and development services through a single global cloud platform. This partnership also expands the DNAnexus genome informatics and data management platform to China. The DNAnexus global network for genomic medicine provides security, scalability, and collaboration for enterprises that are pursuing genomic-based approaches to health in order to accelerate medical discovery.

CREATING A CHINA CLOUD

China currently holds more than 20% of the world's sequencing capacity. With a population approaching 1.4 billion and its ability to test and enhance new ideas, China represents the largest market in the world for next-generation sequencing. DNAnexus, WuXi NextCODE, and WuXi AppTec customers are global in scope and needed a China cloud solution to support their efforts. Pharmaceutical customers using contract research services in China will now have a seamless end-to-end HIPAA compliant platform to expand clinical research with collaborators and datasets and speed the development and delivery of DNA-based diagnostics.

SUMMARY

MISSION

Bringing cloud-based genomics to China & Chinese genomics to the world

COMPANIES

WuXi NextCODE
WuXi AppTec
DNAnexus

WEBSITES

www.wuxinextcode.com
www.wuxiapptec.com
www.dnanexus.com

INDUSTRY

Biopharmaceutical R&D
Clinical Labs / Diagnostics
NGS Sequencing & Data Analysis

CHALLENGE

End-to-end HIPAA compliant solution: from contract research services to sequencing & analysis to development & delivery of diagnostics

RESULTS

- Speeding the development & delivery of sequence-based diagnostics
- Expanding research with collaborations & datasets of unprecedented size & scope
- Streamlining the development of precision medicine & companion diagnostics
- Leveraging WuXi's leading genomics & R&D via DNAnexus' global cloud

GLOBALIZING PRECISION MEDICINE

This strategic alliance provides not just a China solution, but also a global solution. It unites the leading technologies to enable any company or institution to store and interpret their sequence data and collaborate with colleagues around the world through a single platform. For the first time, users will be able to use their genomic data seamlessly in tandem with the open access capability and technology (e.g. diagnostic test validation or FDA submission services) that WuXi NextCODE and WuXi AppTec offer to the global pharmaceutical and medical device industries.

EMPOWERING VIRTUAL DIAGNOSTICS

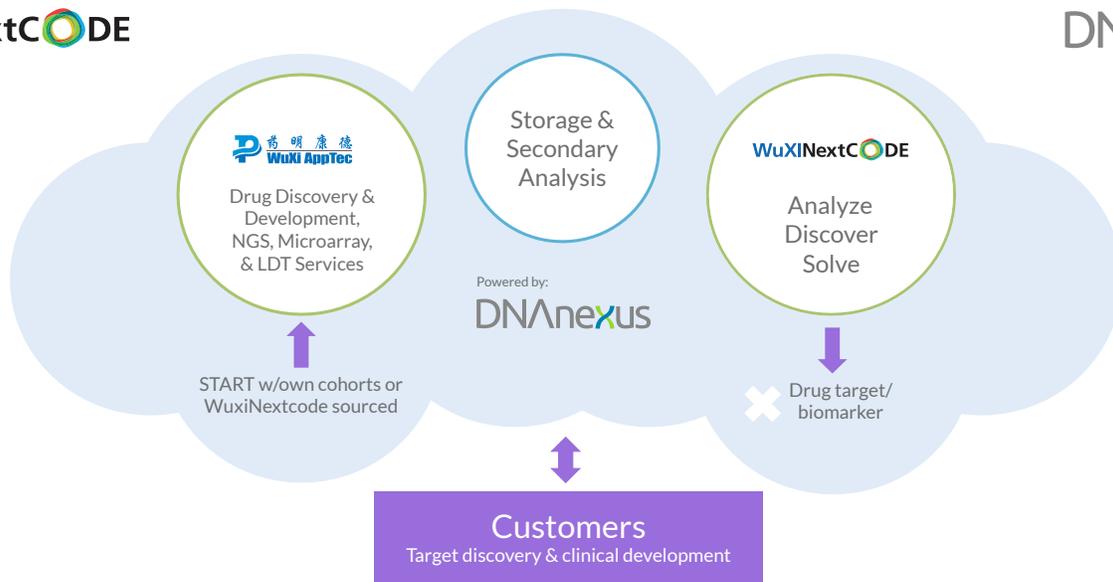
China is just one piece of the puzzle, albeit a big one. We envision this alliance fueling innovation and transforming large-scale sequence data business models, and laying the groundwork for virtual diagnostics enterprises to develop and deploy clinical and companion diagnostics in the cloud. By connecting the DNAnexus compliant cloud-based bioinformatics platform with WuXi NextCODE's leading genomics and R&D services, companies are able to focus on their intellectual property, and the development of algorithms and pipelines. WuXi NextCODE and DNAnexus will facilitate groundbreaking virtual test development and deployment on a global basis, without the need for capital investment in test development and compute infrastructure.

THE WUXI NEXTCODE SYSTEM ON THE DNANEXUS PLATFORM

Global Precision Medicine Cloud - An Integrated Turnkey Pharma Solution

WuXiNextCODE

DNAnexus



DNAnexus

DNAnexus combines expertise in cloud computing and bioinformatics to create the global network for genomic medicine. DNAnexus provides security, scalability, and collaboration for enterprises and organizations that are pursuing genomic-based approaches to health in order to accelerate medical discovery. DNAnexus is supporting customers around the world that are tackling some of the most challenging and exciting opportunities in human health.