

# THE GLOBAL NETWORK for ACCELERATING SCIENTIFIC DISCOVERY

## OVERVIEW

DNAnexus has built the world's most secure Big Data cloud platform and global network for scientific collaboration and accelerated discovery. As the leader in biomedical informatics and data management, we embrace challenges and partnership to tackle the world's most exciting opportunities across a spectrum of industries – biopharmaceutical, bioagricultural, sequencing services, clinical diagnostics, medical centers, government, and research consortia.

## A POWERFUL PLATFORM

The DNAnexus Platform allows scientists to:

- ✓ **Ingest and analyze** massive volumes of multi-omic and clinical data quickly, securely, and economically.
- ✓ **Extract value** from diverse datasets through data exploration tools and visualization applications in a secure and compliant environment.
- ✓ **Collaborate** seamlessly and safely.
- ✓ **Scale with Velocity.** The infrastructure and user tools deliver extreme scale compute on a multi-cloud global network paced with high velocity science evolution and use cases.

## YOUR PARTNERS IN DISCOVERY

Our **xVantage Group** is an exceptional team of scientists, software engineers, cloud experts, and compliance specialists, ready to help organizations like yours accelerate scientific discovery. We work with you to determine company-specific needs and translate them into tailored solutions.

- › **Pipeline Development**
- › **GxP Compliance**
- › **Custom Portals**
- › **Genome Assembly**
- › **Data Integration**
- › **LIMS Integration**
- › **Platform Training**
- › **Customer Care**

## AT A GLANCE

### COMPANY

**DNAnexus, Inc.**

### HEADQUARTERS

**Mountainview, CA**

### FOUNDED

**2009**

### WEBSITE

**[www.dnanexus.com](http://www.dnanexus.com)**

*“The best thing to do with DNAnexus is give them a problem to solve”*

**William Salerno, PhD**

Director of Genome Informatics  
Human Genome Sequencing Center,  
Baylor College of Medicine

# CASE STUDIES

## Regeneron Genetics Center

### Biopharmaceutical Company



Enabling one of the largest scale integration of next-generation sequencing and patient EHR data. DNAnexus worked closely with Regeneron to bring them online and rapidly scale up to more than 1,000 exomes processed per week and allow seamless and secure interactions with collaborators like Geisinger Health System.

## ENCODE Data Coordination Center (DCC) at Stanford University

### International Consortium



To map all the sequence features of the human and mouse genomes, the ENCODE DCC at Stanford University needed a unified collaborative platform to process thousands of datasets while maintaining transparency, reproducibility, and data provenance. By sharing these pipelines, thousands of scientists globally can generate results consistent with ENCODE data.

## The Garvan Institute

### Sequencing Service Provider



With the acquisition of an Illumina HiSeq X Ten sequencing system, the Garvan Institute set its sights on becoming a global provider of whole genome sequencing services. To manage the massive amount of data that comes with sequencing 18,000 whole genomes a year, Garvan turned to DNAnexus to facilitate data exchange between the sequencer and the customer.

## PacBio

### Sequencing Instrument Manufacturer



Whole genome assembly is data and compute intensive. Pacific Biosciences chose DNAnexus to support its assembly tool, FALCON, offering scientists access to a rapid and cost-effective solution, producing full and accurate de novo human genome assemblies. Working with Cold Spring Harbor Laboratory, DNAnexus assembled a human genome in under 21 hours, the fastest assembly in history.

## KEEPING YOUR DATA SECURE

DNAnexus ensures the highest level of security and compliance.

- ✓ FedRAMP, ISO 27001
- ✓ GDPR, Local Laws & Regulations
- ✓ HIPAA, CLIA, GCP