

DNAexus[®]

Titan[™]

The Trusted Platform for NGS Data Analysis

Powering precision medicine and targeted genome-based therapies.



Pharmaceutical Industry Overview

Pharmaceutical companies are rushing to unlock the power of next-generation sequencing genomics to advance precision medicine. With the size and scope of research initiatives growing rapidly, pharma is experiencing scalability, reliability, and productivity challenges with their internally-built systems. To handle the higher volumes of multi-omics data and to get more strategic value out of analysis pipelines requires a centralized, cloud-based data analysis solution to fuel scientific advancement.

DNAexus Titan eliminates bottlenecks in development and production systems with a unified platform that brings data and pipelines together in one place for streamlined analysis. Titan enables researchers to rapidly scale to meet continually growing demand for genomic and multi-omics data, and simplifies the complexities of secondary genomic analysis infrastructure allowing users to focus on what's important -- scientific discovery.

“DNAexus has been at the forefront of scalable informatics for years and has a deep understanding of the challenges labs face when deploying powerful sequencing technology.”

Jeff Reid

Vice President and Head of Genome Informatics & Data Engineering



Empower Your Team

- ✓ Solves infrastructure challenges to scale future growth
- ✓ Fosters team collaboration leading to new insights
- ✓ Secure & compliant (HIPAA, ISO 27001, FedRAMP Moderate & More)
- ✓ Versioning and traceability
- ✓ Flexible environment for advanced analysis

Scale Without Limits

The high-performance platform eliminates delays with exceptional uptime and powerful compute capacity, including highly parallelizable execution of data analysis. A flexible environment built to scale, **DNAnexus Titan** enables population-level analysis and meets computation and storage demands up to millions of samples per year.

Simplify IT Infrastructure

By eliminating the IT infrastructure complexity of cloud-based genomic analysis, administration efforts are significantly reduced through **DNAnexus Titan's** ability to handle software deployment, monitoring and operations, and continuous service upgrades.

Access the Best Tools

Researchers can create and execute analysis workflows with both industry-standard and custom-developed bioinformatics tools. **DNAnexus Titan's** efficient Smart Reuse feature eliminates long processing delays when testing new pipeline versions.

Collaborate Across Borders & Hallways

DNAnexus Titan brings all your team's data and tools together in one secure location for seamless

collaboration. Leverage an embedded JupyterLab environment, data provenance tracking to ensure uniform reproducibility of pipelines, and fine-grained authentication and access controls.

Reduce Risk

A daily log of activities related to users and projects, including login, upload/download files, run analysis, and data sharing, supports seamless auditability and de-risked audits. DNAnexus is certified compliant with strict security, quality, and regulatory regimes, including ISO27001, NIST 800 framework, HIPAA, GDPR, GxP/ICH regulations, and CAP/CLIA., and maintains compliance with global data transfer requirements.

Expert Professional Services

The **DNAnexus xVantage Group** consists of bioinformatics scientists and computational experts ready to help new clients ramp up quickly and get the most out of **DNAnexus Titan**. Their expertise in industry best practices and emerging techniques guide organizations through data and pipeline migration, optimization, and development.

DNAnexus has built the world's most secure, trusted cloud platform and global network for scientific collaboration and accelerated discovery. We partner with customers to tackle some of the most exciting opportunities in human health and beyond.

Our powerful platform has helped over 100 customers in pharma & biotech companies, clinical & healthcare organizations, and government agencies push the boundaries of genomic & multi-omic science.

Visit dnanexus.com/product-overview/titan to learn more.