DNAnexus® INDUSTRY-LEADING SECURITY & COMPLIANCE

The Complete PAAS Solution for Multi-Omics & Scientific Data

OVERVIEW

DNAnexus is the global leader in genome informatics and data management, providing the industry's most comprehensive security, quality and privacy framework. Learn why the FDA, top pharmaceutical companies, global diagnostic test providers, genome centers and sequencing service providers have trusted DNAnexus to support their global genomics programs.

SET APART FROM THE REST

- ✓ Layers of platform features & accreditation supporting an exceptionally strong security & compliance profile.
- Continually audited & certified by an independent 3rd party.
- ✓ Compliance with ISO 27001, an internationally recognized Information Security Management System & accompanying controls.
- ✓ Built to address a broad range of global compliance regimes.

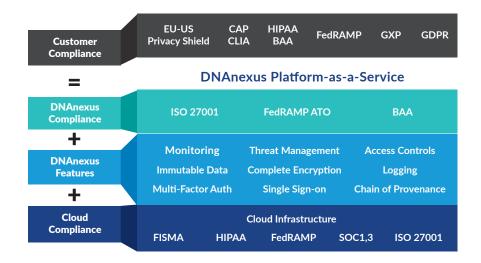


DIAGRAM KEY

BAA: Business Associate Agreements to comply with HIPAA regulations.

CAP: The College of American Pathologists comprehensive set of accreditation guidelines for laboratory quality assurance.

CLIA: 1988 Clinical Laboratory Improvement Amendments established quality standards for all lab testing to ensure validity, reliability & timeliness of lab examinations & procedures, handling of specimens, & reporting of results.

EU-US Privacy Shield: New privacy & data transfers pact which supersedes the former Safe Harbor framework.

FedRAMP: Government-wide program that provides a standardized approach to security assessment, authorization, & continuous monitoring for cloud products & services.

FISMA: Federal Information Security Management Act

GxP: Good Clinical Practices (GCP), Good Laboratory Practices (GLP), and 21 CFR 11 and 820 as required for submitting data for regulatory approval (GxP) to the United States Food & Drug Administration

GDPR: Global Data Protection Regulation covering the EU

HIPAA: U.S. Health Insurance Portability & Accountability Act

ISO 27001: Internationally recognized Information Security Management System that provides a comprehensive framework for security & compliance

SOC 1, 3: Service Organization Controls report

DNAnexus SECURITY ARCHITECTURE

Platform Security Architecture

DNAnexus restricts user data to high-security facilities with SOC2/3, and FISMA Moderate certifications. All data are encrypted when in transit (SSL/TLS) and at rest (AES 256).

Access Control

Administrator controls restrict users and organizations with whom to share information, allowing granular privilege levels to be specified on groups of data and application resources. "Copy Not Allowed" functionality prevents the movement of data to other projects. Twofactor authentication, password complexity and change requirements, and session timeout features also protect against unauthorized access to confidential data.

Consistency of Results

Preconfigured pipelines allow bioinformaticians to preset parameters, thereby ensuring consistent analysis of samples. These pipelines can be packaged as separate apps for "Point and Click" functionality. All data, tools, and workflows are tracked and version controlled in order to ensure auditability and reproducibility. DNAnexus provides runtime consistency enabling all users to work in a common operating environment.

Auditability

DNAnexus provides comprehensive features that provide audit trails necessary to document compliance. All uploads are logged and "hashed" to verify integrity and audit logs are maintained in alignment with industry standard retention policies.

Availability

Consent

Under DNAnexus' Privacy Policy, users are responsible for ensuring patients or donors of genomic samples have provided informed consent. DNAnexus has helped many customers adhere to data compliance in accordance to specific privacy laws and regulations.

Privacy

DNAnexus acts as a data processor to help customers manager their EU data in compliance with GDPR. In addition to the EU and US, DNAnexus' Privacy Policy aligns with the regulations of Australia, Canada, and the principles of the Cross Border Privacy Enforcement Agreement.

Compliance & Assessment

DNAnexus performs regular reviews of security controls and a formal annual assessment of its entire security management system. DNAnexus utilizes independent 3rd parties for vulnerability scanning and network/application penetration testing. External audit by an independent third-party has certified DNAnexus to be ISO 27001 compliant.

DNAnexus CAN HELP

Complying with security standards and privacy regulations is an increasingly complex job. DNAnexus cloud-based platform simplifies security and compliance for critical business operations so your company can focus on what matters, the science. Leverage a team of bioinformatics and cloud computing experts for a Security, Quality and Compliance Strategy that meets your business needs.

For a detailed overview of the DNAnexus approach to security & privacy, email us at info@dnanexus.com