DNAnexus®

# Improving Omics Data Exploration and Collaboration Efficiency with DNAnexus Omics Data Catalog

## The Problem:

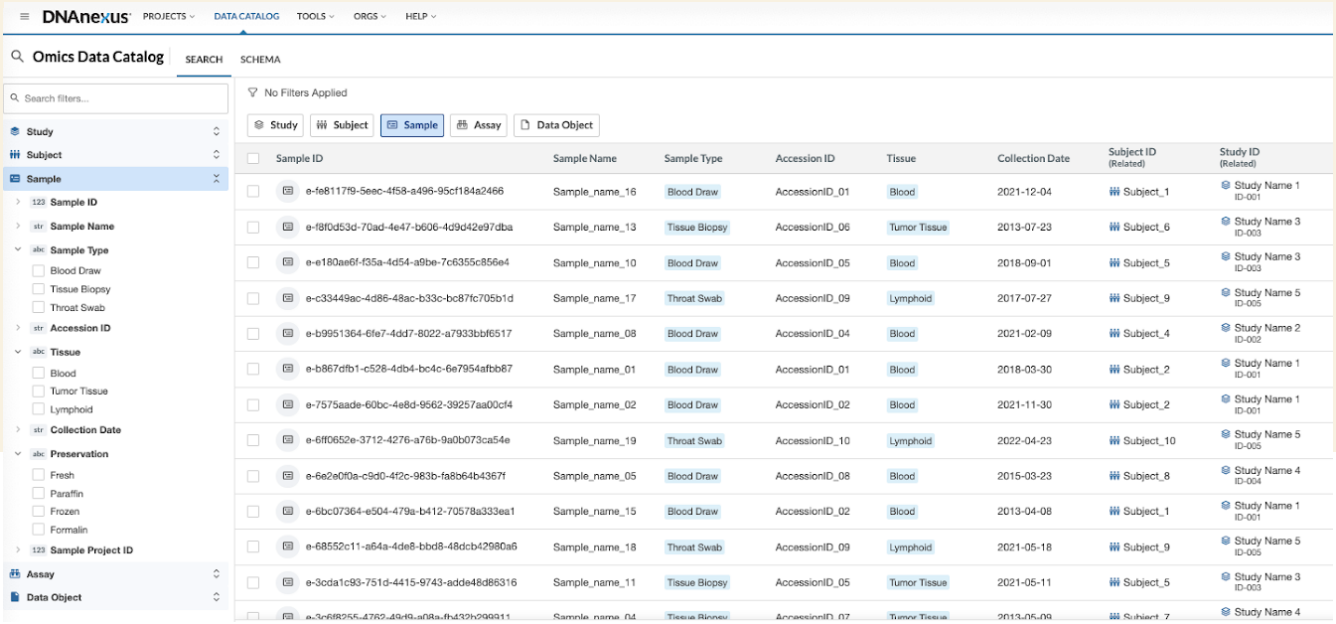
Biopharma companies increasingly depend on multi-modal omics data to drive innovation, discover biomarkers, and accelerate drug development. However, managing extensive datasets generated internally and through external collaborations is complex, expensive, and prone to errors. Metadata is often unstructured, dispersed across systems, and inconsistently standardized, making data discovery cumbersome and hindering collaboration internally and externally. Traditional methods relying on file naming, tags, or manual searches are inefficient, limiting the potential insights derived from valuable datasets.

## The Need:

Biopharma requires a centralized, robust metadata management platform that simplifies the organization of diverse datasets, enables quick data discovery, enhances seamless collaboration internally and externally, and ensures precise compliance controls.

### KEY TAKEAWAYS:

- Rapidly identify and reuse critical omics datasets, saving valuable time in your research workflow.
- Streamline internal and external collaborations by simplifying data sharing and access.
- Ensure compliance and protect sensitive information through robust, precise access controls.
- Improve data consistency and quality, reducing errors through structured and standardized metadata.
- Enhance your research capabilities with seamless integration into the DNAnexus Trusted Research Environment (TRE).




## Our Solution:

The DNAnexus Omics Data Catalog (ODC) is a centralized, intuitive platform enabling structured and scalable management of omics data and metadata. ODC provides:

- A flexible metadata schema that is extensible and supports business-specific concepts.
- A robust, user-friendly interface enabling faceted and keyword searches to quickly locate relevant data across organizational boundaries.
- Simplified metadata ingestion using an intuitive loader application, allowing seamless updates and ensuring data integrity.
- Advanced access controls to govern data visibility and usage, providing granular permissions tied directly to project roles.
- Integration within the DNAnexus Trusted Research Environment, enhancing secure collaboration with internal teams and external research partners.

Advance your therapeutic area research and external innovation capabilities by implementing the DNAnexus Omics Data Catalog. Experience firsthand how structured metadata management and enhanced data discovery can streamline your research processes, drive faster insights, and support secure collaboration within your Trusted Research Environment. Contact DNAnexus to schedule a demonstration or to learn more about getting started with ODC.

## YOUR BENEFITS AND KEY OUTCOMES:

Implementing the Omics Data Catalog empowers biopharma organizations to:

Accelerate research cycles by dramatically reducing the time required to find and reuse high-value omics datasets.

Improve collaboration by providing a standardized, transparent metadata environment accessible to diverse internal teams and/or external collaborators (provided they have proper access).

Minimize redundancies and maximize data utility by avoiding unnecessary data regeneration and ensuring data consistency.

Enhance compliance and security with controlled access aligned precisely with organizational requirements.

Facilitate seamless integration with existing workflows, complementing and extending current bioinformatics and analytical tools.