

# Globus Genomics for Researchers

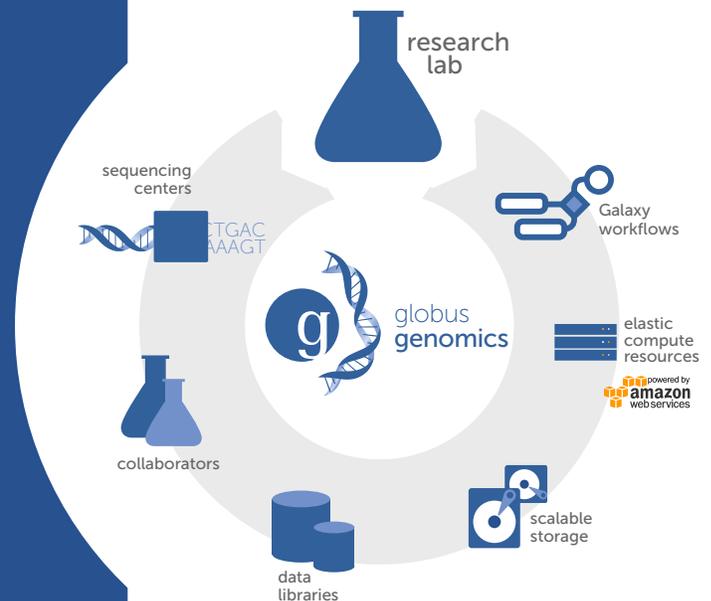
End-to-end sequencing analysis. Flexible, scalable, simplified.



Globus Genomics addresses the challenges that researchers face when dealing with NGS analysis on a large scale. It delivers a solution that combines state-of-the-art algorithms with sophisticated data management tools, a powerful graphical workflow environment, and a cloud-based elastic computational infrastructure.

## Focus on research, not IT.

- ✓ Eliminate data transfer, sharing, and management challenges
- ✓ Leverage best-practice analysis pipelines (RNA-Seq, Exome-Seq, ChIP-Seq, etc.)
- ✓ Develop custom pipelines with full control over algorithms, applications, and parameters
- ✓ Dramatically reduce sequencing analysis turnaround time
- ✓ Institutionalize bioinformatics expertise



"We needed a solution that would give us flexibility to extend our analysis pipelines and apply them to very large data sets. Globus Genomics has provided us with a key set of tools and scalable infrastructure to support our research needs."

*Dr. Nancy J. Cox, Ph.D., Professor, Section Chief - Genetic Medicine  
Department of Medicine, University of Chicago*



Learn more at [globus.org/genomics](http://globus.org/genomics)

## Data Management

Globus Genomics provides advanced data transfer, sharing, and management, powered by Globus. It is designed to deliver NGS data from sequencing centers to the integrated analysis platform quickly, securely, and reliably. Globus is used to move hundreds of terabytes of data each month, and is the preferred file transfer capability at dozens of research campuses and sequencing centers worldwide.



## Workflow

Globus Genomics offers an extensible analysis environment, powered by the Galaxy workflow platform. It enables construction of custom pipelines, drawing from a workbench with hundreds of applications and algorithms. Additional tools may be rapidly integrated to extend the scope of your pipelines.

## Computation

Globus Genomics leverages scalable, elastic computational infrastructure, powered by Amazon Web Services. It provides virtually unlimited capacity that dynamically adjusts to varying workload and data storage requirements, and allows you to take advantage of tools that run more efficiently on different platforms (e.g. GPU, mapReduce, MPI).

