



## Research Services

### ABOUT VERITAS

**Our mission is to deliver on the promise of the human genome**, empowering people to maximize quality and length of life for themselves and their families. As the first company to introduce whole genome sequencing and interpretation to consumers and their physicians, we lead by relentlessly pushing the boundaries of science and technology while driving down the cost of the genome.

Founded in 2014 by leaders in genomics from Harvard Medical School, we operate globally from offices in the U.S., Europe and China. We have been recognized twice by MIT Technology Review as one of the *50 Smartest Companies* in 2016 and 2017, by Fast Company as one of the world's most innovative health companies in 2018, and by CNBC as one of the *Disruptor 50 Companies* in 2018.

### GLOBAL BIG DATA MANAGEMENT

**We are pioneers in affordable whole genome sequencing**, genomic data management, and integration of machine learning and A.I. into bio-medical data — and we extend those capabilities to researchers. We work with top biopharmas, biotech startups, and research institutions globally. Close to 10 petabytes of genomic data are already managed through our platform, Arvados.

### Here are more details on what we offer our research partners:

#### HIGH THROUGHPUT, HIGH QUALITY SEQUENCING

- CLIA-certified laboratory environment
- Illumina NovaSeq and HiSeq X10 systems
- PCR-free, Whole Genome Sequencing, 30x
- Whole Exome Sequencing, 100x
- Genomic datasets in a secure, HIPAA-compliant cloud
- Data provided as FASTQ, BAM, VCF

#### DATA MANAGEMENT AND ANALYSIS

- Arvados is our open source platform for managing, processing, and sharing genomic & biomedical data
- Built for big data — scale up to thousands of cores and petabytes of data
- 100% traceability and reproducibility for all generated data
- Federation allows access and querying without moving the data
- Fine-grained access controls
- Experienced cloud infrastructure support (Amazon, Google, Microsoft) or on-premise
- Analysis pipeline consulting — industry standard Common Workflow Language (CWL)

#### TRUSTED BROKER TO ENHANCE RESEARCH STUDIES

- Veritas can enable secure access to control data
- Through Veritas partnerships, clients can gain access to samples to augment their studies

**For more info: [www.veritasgenetics.com/researchers](http://www.veritasgenetics.com/researchers) or [sales@veritasgenetics.com](mailto:sales@veritasgenetics.com)**



Arvados

## ABOUT ARVADOS

### The Most Widely Used Genomic Data Platform (close to 20 Petabytes)

Arvados is an open source platform that allows for storing, organizing, processing, and sharing genomic and other biomedical big data. The platform is designed to make it easier for data scientists to develop analyses, developers to create genomic web applications, and IT administrators to manage large-scale compute and storage genomic resources. It can run in the cloud as well as on your own hardware.



#### OPEN-SOURCE

Join an entire community of developers who are constantly improving the platform.



#### CONTENT-ADDRESSABLE STORAGE

Virtualized storage allows painless scaling on both local hardware or across multiple cloud environments.



#### USE DATA WHERE IT ALREADY LIVES

Arvados can be supported on any major cloud provider, local HPC, or a hybrid configuration.



#### SCALE-OUT ARCHITECTURE

Get ahead of your data bloat problems with automatic deduplication and compute resource allocation.



#### MULTI-CLOUD FEDERATION

Arvados moves the analysis to the data allowing you to compute on data from multiple locations without losing any metadata.



#### CONTAINERS

Run your pipeline on any operating system, in any language, efficiently and securely.

For more info: [www.veritasgenetics.com/researchers](http://www.veritasgenetics.com/researchers) or [sales@veritasgenetics.com](mailto:sales@veritasgenetics.com)