

Symphony Genomics Workflow Management System

Managing, Integrating, and Delivering Your NGS Data and Results





Simplifying genomics and bioinformatics operations

Genomics laboratories mainly rely on manual review and updates of their laboratory information management systems (LIMS) and other independent systems to track samples, workflows, and pipeline versions. These data silos and fragmented processes can result in delays and data quality issues. What if there was a way to monitor and manage all of these tasks from a single software system?

The Symphony Genomics Workflow Management System, developed by Personalis, is a flexible, scalable system designed to manage the unique complexity and challenges of genomic laboratories. Symphony integrates LIMS and bioinformatics systems, to connect lab operations with downstream data analysis. Symphony orchestrates all operational activities from the lab, to pipeline runs, to reporting and data delivery.



Customized workflows and reports



Precision visibility and control



Locks down all components, including pipeline versions



Provides full traceability for compliance

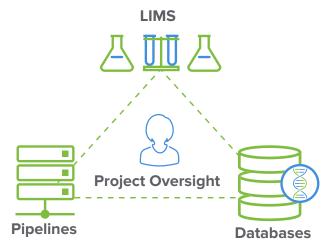


Scales to massive volumes

Personalis, Inc.

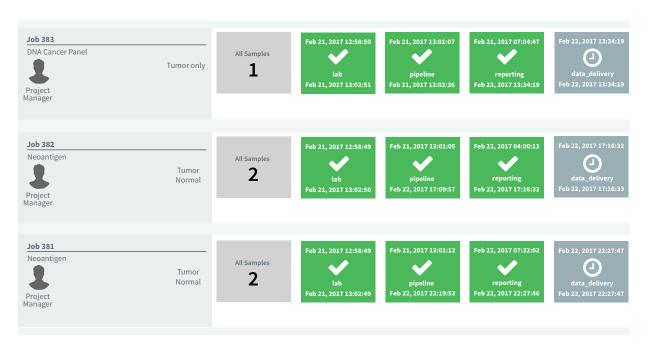
Improved project performance

Symphony is an enterprise-grade unified platform that connects LIMS, pipelines, databases, and other software systems in one place so your Personalis project manager can monitor every aspect of your project from a single system.



Monitoring and execution

In the Jobs dashboard below, intuitive color-coding makes it easy to identify the job status, and to quickly troubleshoot and resolve any issues such as pipeline run failure.



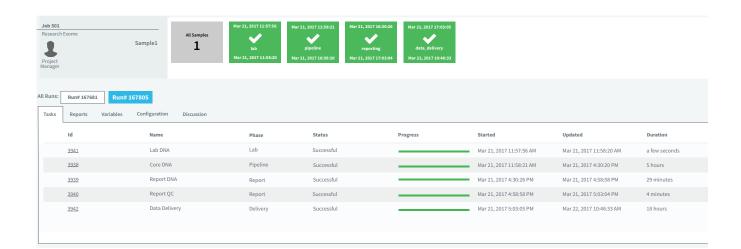
The Jobs dashboard allows for easy visualization of all jobs at a glance. Color coding makes it easy to monitor job status. In the example above, the samples have all completed sequencing, pipeline runs, and reporting successfully. When in progress, the boxes appear orange, and if failure occurs the boxes appear red. This color coded visualization makes it easy for project managers to prioritize and resolve issues correctly to keep all jobs on track.

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Sample-level drill down

From the Jobs dashboard, project managers can click through jobs to view task progress down to the sample level

- Monitor progress at each phase
- View status across all tasks
- Track duration and dates by task



Project management features



Workflow automation

Eliminates typical time lags and quality issues introduced by manual processes, allowing us to deliver projects within the rapid turnaround required for clinical trials



Real time view of lab operations

Allows our project team to quickly provide you with reliable status updates as well as assistance with ad hoc requests



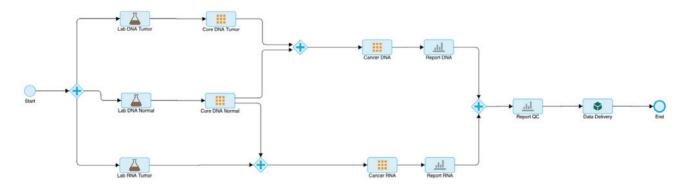
Scale to massive volumes

With a system that ensures predictable, repeatable, and consistent execution

Managing pipeline and reporting requirements

Genomic data is unique in its size and complexity, even at the patient-level. When scaled to the program-level, this complexity grows exponentially: running different clinical trials simultaneously, each with different NGS assays, different informatics pipeline needs, and different reporting needs—all of which need to be locked down for the life of each trial—exceeds the capabilities of most systems on the market today.

Symphony was developed with this complexity in mind. Symphony manages multiple data and reporting streams with transparent versioning and traceability. This infrastructure allows us to provide every customer with product definitions that are designed to meet their project and research needs.



In the Symphony product workflow pictured above, DNA and RNA sequencing is performed on paired tumor and normal samples. Sequencing data is analyzed on pre-built pipelines (Core DNA Tumor, Core DNA Normal, Cancer DNA, and Cancer RNA). The resulting reports are then QC'd, after which both data and reports are returned to the customer.

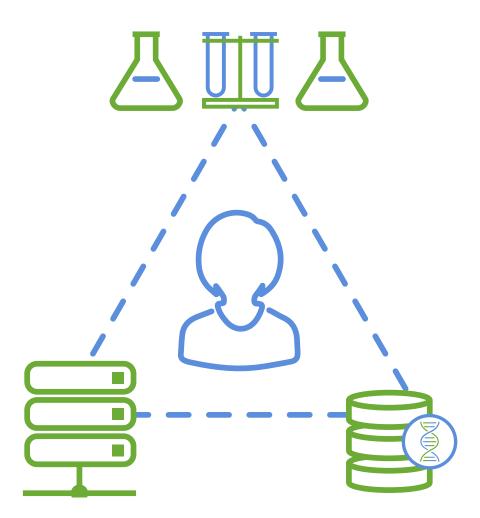
Data analysis features

- **Customizable:** Product workflow, definition, and design, as well as outputs and files, are customized to meet your unique protocol requirements
- Traceable: Database edits are captured by application. Assay and pipeline versions are logged on our audit-ready system to ensure compliance
- **Transparent:** Symphony locks down and versions custom workflows, assays and pipelines for the life of a trial, while also giving you the flexibility to accommodate reanalysis of data with pipeline upgrades
- Secure: Data is encrypted at rest and at transfer



Symphony At-a-Glance

- Customizable product workflow definition and design
- Notifications and reports configured for your study requirements
- Packaging of custom outputs and files based on your unique protocol requirements
- Automated product execution, error notification, recovery and reporting
- Application integration with laboratory information management systems (LIMS)
- Common user interface, workflow, security and logging



Get in Touch

To learn more about how the Symphony Genomics Workflow Management System streamlines research and clinical development programs, contact us at info@personalis.com.

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