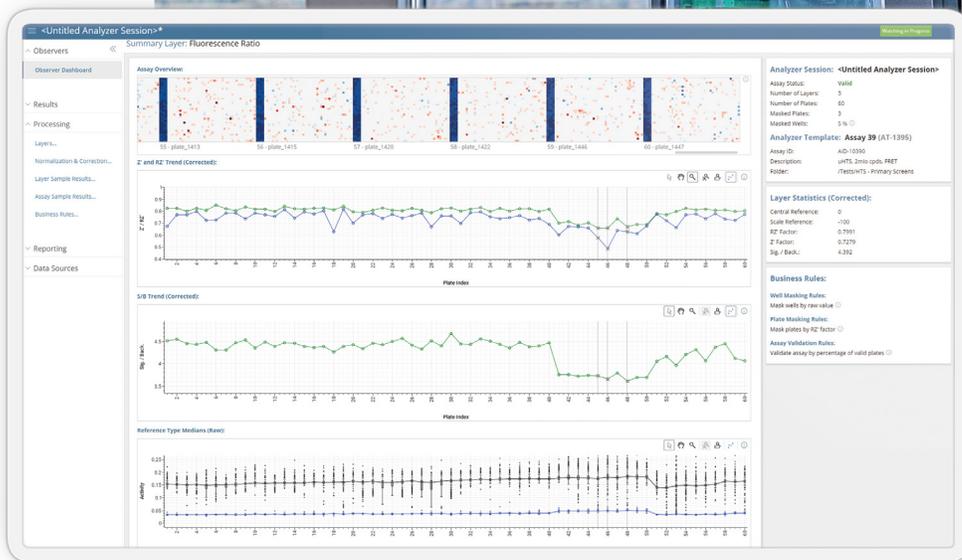


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Digitalization Solutions for the Automated Lab of the Future.



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In the quest to achieve better, faster, and more cost-effective drug discovery, companies are investing heavily in modern lab automation. However, when it comes to processing the data, scientists often revert to manual processing in spreadsheets, stringing together multiple analysis tools, and storing data in disparate locations. This is inefficient, causes errors, and counteracts the purpose of lab automation.

Automation of data workflows is key for avoiding such problems and gaining optimal efficiency. The challenge is to employ the right software to efficiently automate data processes.

Genedata Screener® is the software platform of choice for many top pharma companies to digitalize their research processes. The platform enables autonomous data loading, automated data analysis, real-time monitoring of experiments, and automatic result reporting. The software handles data from all current types of in vitro screening assays.

Do you have to manually transfer raw data for analysis?

How do you process complex data consistently and efficiently?

How long does it take until results are reviewed and reported?

Digitalization solutions for the automated lab of the future:

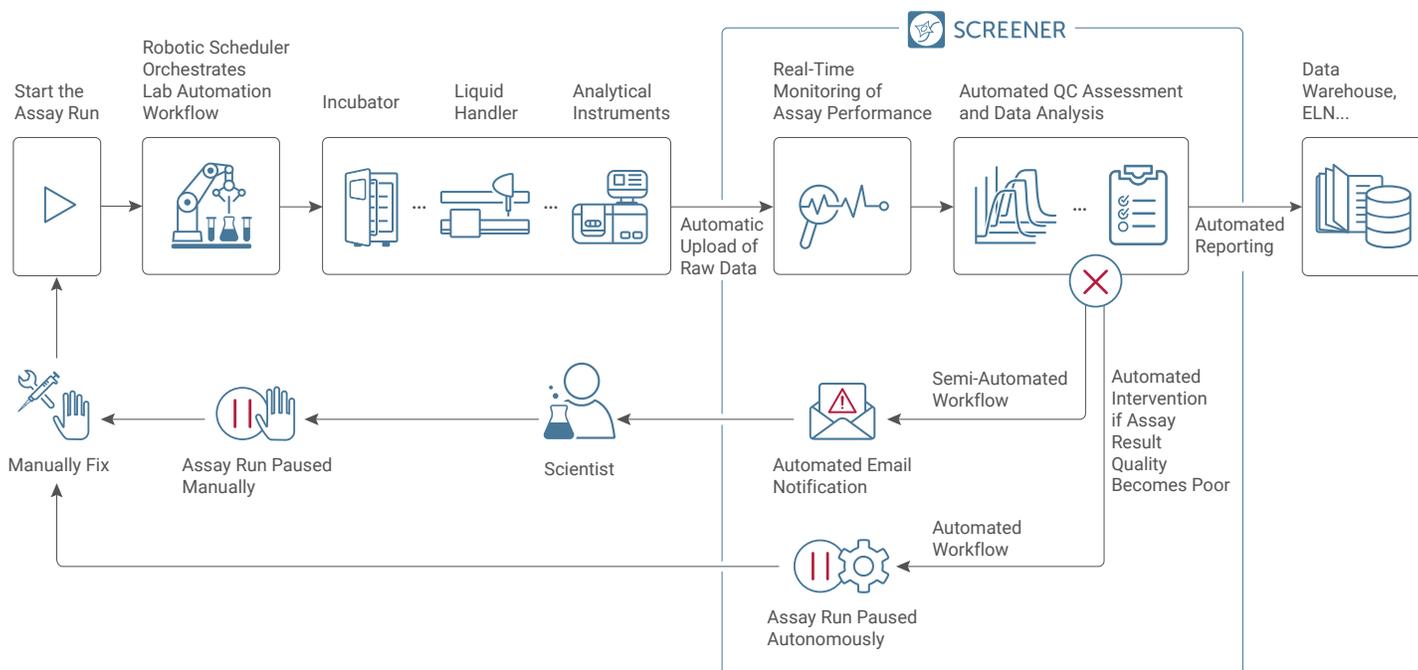
Automated Data Capture

Genedata Screener integrates seamlessly with your analytical instruments and enables automated, hands-free upload of raw data in real time, eliminating delays in data analysis. This speeds up project cycles and ensures data integrity.



WATCH THE VIDEO.

With the Genedata Screener Real-Time Extension functionality you can monitor assay performance in real-time and intervene quickly if there is a quality issue.



Automated Data Processing and Analysis

Genedata Screener enables scaling up of even the most complex assays by providing fully automated data analysis and quality control. Thus, it improves speed and efficiency, and at the same time ensures consistency throughout the global organization. In addition, Genedata Screener produces summaries and visualizations of experimental results that are ready to read, interpret, and act upon.

Quality is monitored in real-time. If quality criteria are not met, Genedata Screener triggers an email notification, so the user can stop the assay run and save expensive reagents and precious samples. Genedata Screener can also control processes based on analyzed data sets - when assay quality drops, it can pause the assay run autonomously.



CHECK IT OUT.

Genedata in collaboration with Amgen incorporated a novel AI-based workflow to automate and accelerate complex SPR data analysis.



READ THE STORY.

Genedata Screener enabled Evotec to automate data loading and analysis, and to monitor assay performance in real time, eliminating time lags and establishing a quality control workflow with minimal human intervention.

Automated Results Reporting and Documentation

Auto-reporting functionality enables unattended reporting to downstream applications (data warehouse, electronic notebooks, Genedata Biologics...), facilitating sharing of the results as well as the documentation of the experimental procedures without delay. Screener will automatically report the results if enabled and only if they meet quality criteria defined by business rules, ensuring that only high-quality results are reported.

Genedata Screener Enables the Automation of Closed-Loop Research Processes

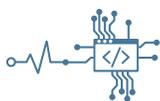
Our ultimate goal is to establish a closed-loop research process, where Genedata Screener autonomously interacts with lab automation devices to conduct the next experiment based on previous results and assay metadata. For example, Genedata Screener could automatically trigger an experimental re-run for outlier samples or automatically start the next step in an assay cascade.

In addition, future functionalities such as a central automation dashboard with information on assay parameters, hardware status, experimental conditions, and hit lists would enable scientists to manage a complete screening cascade.



Autonomous Data Capture

Genedata Screener enables hands-free, real-time upload of raw data from a wide range of analytical instruments. It creates an analysis session, loads the data and kicks off the analysis without human intervention.



Automated Data Processing and Analysis

Genedata Screener automates the analysis of large sets of raw data and meta-data gathered from the simplest to the most complex biological assays.



Automated Data Reporting

Genedata Screener can automate the reporting of results that meet specific quality criteria defined by business rules.



Closed-Loop Research Process

The goal is to achieve a closed loop, where processes are controlled based on analyzed data sets. Genedata Screener integrates with lab automation hardware, triggering an experimental re-run for outlier samples or automatically starting the next step in an assay cascade.

It's Time to Automate Data Processes the Way We Automate Wet Lab Processes



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Genedata Screener® is part of the Genedata portfolio of advanced software solutions, which digitalize and automate data-rich and complex biopharma R&D processes. From early discovery all the way to the clinic, Genedata solutions maximize the ROI in R&D expenditure.