

Genedata Screener®

One System for All Assay Analysis



Genedata Screener is a comprehensive enterprise solution that analyzes, visualizes, and manages all types of in-vitro screening data on a single software platform. Leading pharmaceutical companies, contract research organizations (CROs), and academic research institutions rely on Genedata Screener to streamline and automate workflows, standardize research processes and results, empower scientists with high-quality data, facilitate collaboration within and across organizations, and lower customization and maintenance efforts. Genedata Screener is the one single analysis system for all current and future screening technologies.

One System

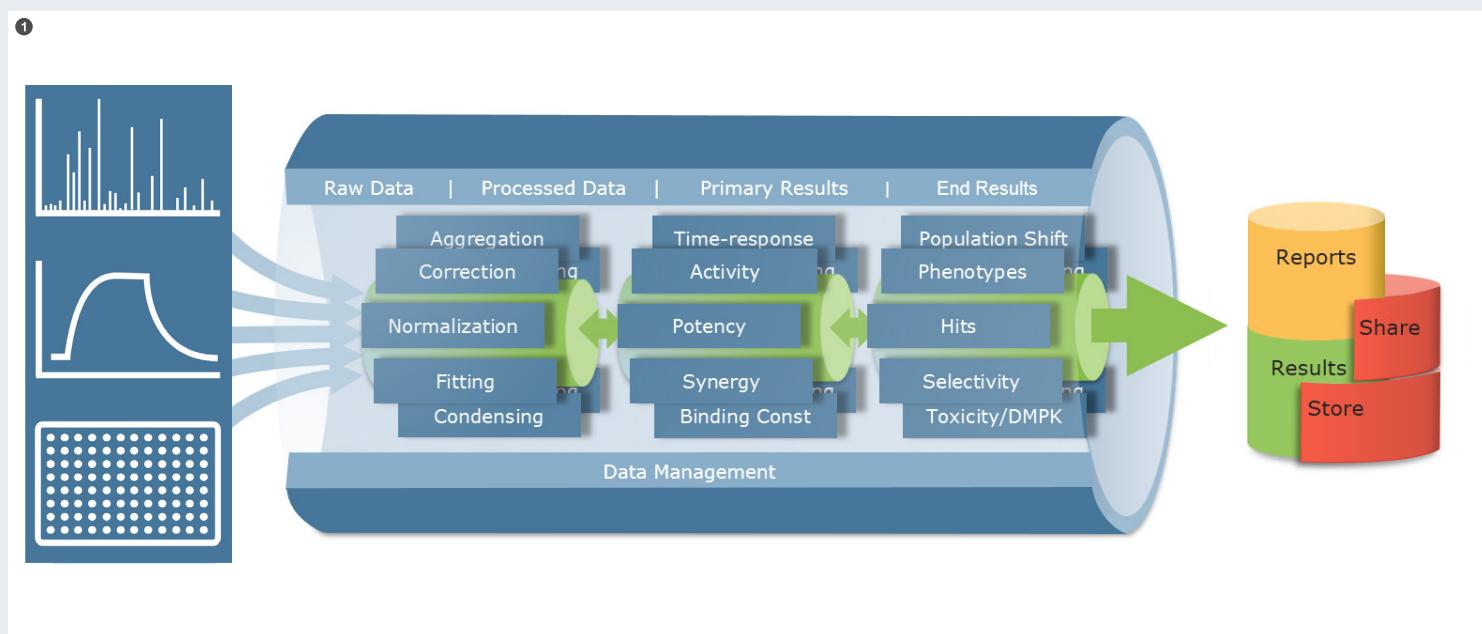
Genedata Screener is the one software solution designed for handling all screening technologies – regardless of data output type, volume, and complexity. A true enterprise system, it simultaneously serves all screening scientists in the organization, wherever they are located. It enables standardized yet flexibly customizable workflows and provides a single user interface across all laboratories and technologies. It flexibly integrates with corporate infrastructures via stable, well-documented APIs, captures all screening data, enables result annotation and querying, and funnels all results into downstream corporate systems.

Using one single analysis software that covers all screening workflows simplifies customization and reduces maintenance.

Instrument Data Source

Genedata Screener

Teams, Collaborators, Data Warehouse



① One System for All Plate-Based Screening

Genedata Screener is designed to integrate with and handle data at any throughput from screening technologies such as high content, compound combination, ion channel, HT-flow, and biophysical screening, and many other technologies and applications. The software quickly imports data, integrates it into a pre-defined and automated QC and processing workflow, displaying results within minutes. From there, hit lists can be directly exported or, if needed, review and interactive adjustment of results, calculations, QC, or raw data can be performed (Figure ②). The final results contain information about all actions undertaken, automatic as well as manual, and are directly exported to the corporate data warehouse or shared within the organization or with collaboration partners.

Complete Workflows

Scaling from the smallest data sets to thousands of 1536-well plates at full kinetic resolution and covering the workflow from raw data to activity, potency, selectivity, and toxicity results, Genedata Screener serves both start-up labs and global research organizations alike.

Experiments are quality controlled and analyzed with full interactivity and simultaneous access to all workflow steps throughout the process. Reports can be produced at any point, from pre-processing steps to QC analysis and final results, and all automated steps and manual adjustments are meticulously tracked.

Genedata Screener analyzes and manages all screening experiments from raw data to end results.

Out of the Box

Genedata Screener is designed to smoothly and quickly integrate with your screening environment. The platform provides low installation and maintenance effort through centralized setup, configuration, and management of items such as:

- Custom analysis methods, workflows, and quality criteria
- Algorithms, including documentation, versioning, and deprecation
- Raw data and results storage, including annotation with biological context and programmatic queries
- Own server or private cloud, or on-premise or cloud hosting

With Genedata Screener, the analysis operation is quickly up and running, and then effortlessly stays that way.

Immediate Technology-Specific Result Overview



② A Versatile Workflow

Genedata Screener imports and processes data according to settings that are either set up before data loading or saved from a previous session ③. The results are immediately shown on the screen in a technology-appropriate overview ④, and if data quality is high and the settings appropriate to the data, the final results, including raw data, visualizations, and annotations, can be directly and automatically reported and exported to the data warehouse ⑤. However, if quality issues or process errors are found in the overview, any process step or calculation can be reviewed and adjusted, and quality problems can be addressed ⑥. This way, only as much time as is necessary is spent on data manipulation, and more can be spent on understanding and interpreting the results.

Faster Answers

Genedata Screener comes with years of screening knowledge built in. Screening concepts such as data normalization, plate quality metrics, and dose-response models are standard. Fast proprietary algorithms and application-specific analyses and data displays are readily available, allowing processing of enormous data sets in very short time. Best-practice workflows can be used out of the box or customized, automation saves time and minimizes errors, smart algorithms reduce the need for user intervention, and complete campaigns with millions of compounds are processed in a single session.

By reducing manual work, errors, and interpretation mistakes, Genedata Screener cuts analysis time and minimizes hassle, leading to better results faster.

Better Science

Genedata Screener provides comprehensive overviews of complete experiments regardless of size, enabling a new level of quality assurance and understanding. Independent experiments on different instruments and technologies can be analyzed in the same workflow, with calculation and correlation of multiple metrics side by side. This way, results can easily be compared and understood.

By displaying raw data next to results, by providing interactive adjustment and automatic result update, by using the same methods and quality criteria throughout the organization, and by giving inhouse and external scientists secure access to all results worldwide, Genedata Screener increases the relevance of screening results and deepens organizational knowledge.

Solution of Choice

Used by the majority of pharmaceutical companies, and at CROs and academic research institutes worldwide, Genedata Screener is recognized as the de-facto screening standard, because it:

- Covers the complete screening workflow
 - Creates a central hub for all in-vitro screening data
 - Captures a full audit trail
 - Guarantees high quality service and support

A continuous development process focused on software quality and scientific capability regularly updates Screener for current and future screening technologies, providing a solution that works for today's data and for tomorrow's.

GENEDATA SOLUTION



Genedata Screener® is part of the Genedata portfolio of advanced software solutions that serve the evolving needs of Biopharma R&D.
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GENEDATA

Genedata transforms data into intelligence with innovative software solutions incorporating extensive domain knowledge. Leading biopharmaceutical organizations rely on Genedata to digitalize and automate R&D processes. From discovery to clinic, Genedata solutions help maximize the ROI in R&D. Founded in 1997, Genedata is headquartered in Switzerland with offices around the world.

EXPERIENCED PARTNER

With more than a decade of experience in industrial screening data analysis and global enterprise deployments of Genedata solutions, Genedata is an ideal collaboration partner for companies wanting to advance their operations. In addition to the steadily evolving solution platforms, Genedata offers extensive opportunities for custom or co-development of specific new functionalities, procedures, or methodologies to support your current and future needs.

SERVICES AND SUPPORT

Genedata offers a range of services and support, from installation and customization to global rollout support, training, data analysis, application consulting and IT consulting services, all tailored to the specific needs of your organization. Our services team consists of highly skilled professionals with extensive domain knowledge in screening and software technology, bringing specialized know-how and experience to your organization.

NEXT STEPS

To find out more about Genedata Screener
please visit www.genedata.com/screener.

For a conversation about your screening analysis needs or to schedule a live demonstration, please contact us at screener@genedata.com.