



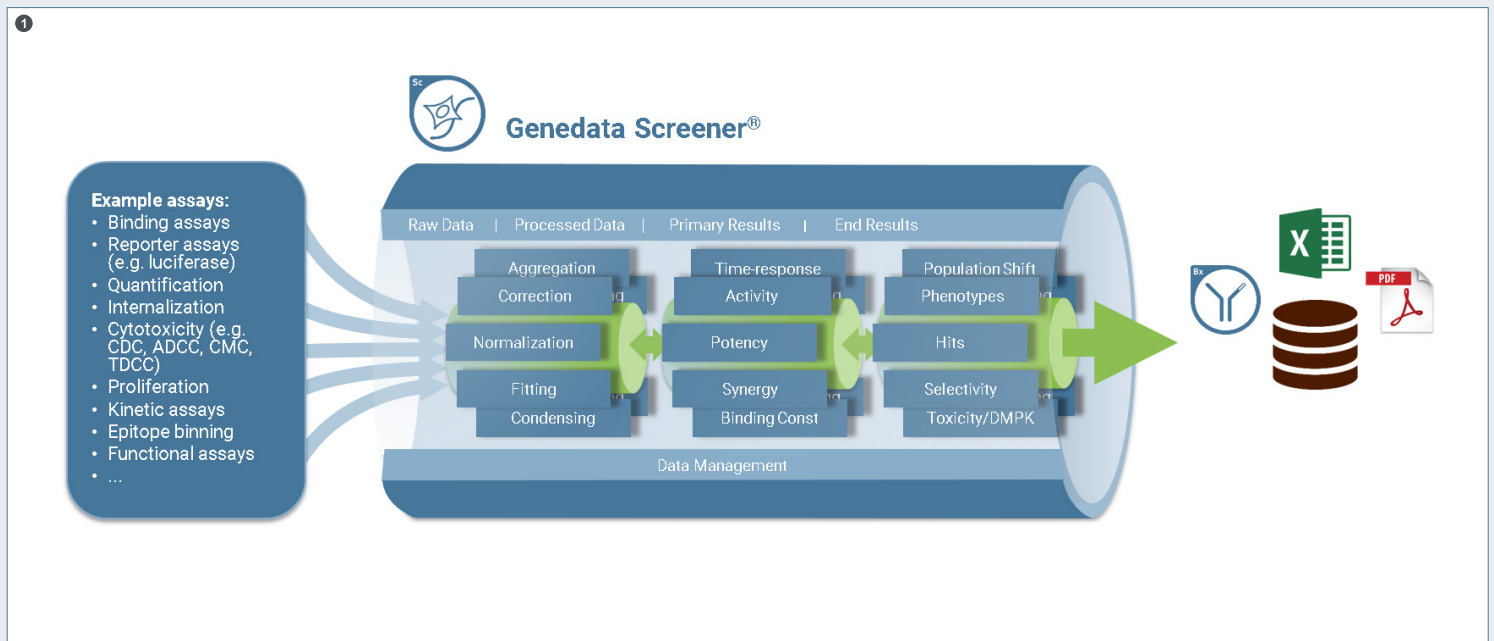
Biopharmaceutical research involves a wide range of cellular, biochemical, and biophysical assay types, and technologies to identify and characterize suitable molecules along the antibody discovery workflow. Genedata Screener® automates the capture of the associated raw data, optimizes the analysis, and makes information readily available for project decisions downstream. The solution generates precise and consistent results with interactive review, dedicated visualizations, and full traceability.

## One Single Platform

Genedata Screener is part of the Genedata Biopharma Platform, combining workflow systems and data analytical systems into a fully integrated solution for Biopharma R&D.

The workflow systems collect data and provide data access across the whole biopharmaceutical R&D process, guaranteeing data integrity. Genedata Screener is the data analytical system for in-vitro assays, harmonizing and automating the analysis of data from technologies and assays such as ELISA, Mirrorball, Flow Cytometry, Biolayer Interferometry (BLI), Surface Plasmon Resonance (SPR), and others.

This brochure outlines the advantages that Genedata Screener brings to the bio-pharmaceutical workflow.



**1** Genedata Screener streamlines biopharmaceutical data analysis

Genedata Screener supports a wide range of assay types from multiple assay technologies, providing the entire data processing workflow from raw data to final results with best-practice workflows, visualizers, and statistics.

## Standardize

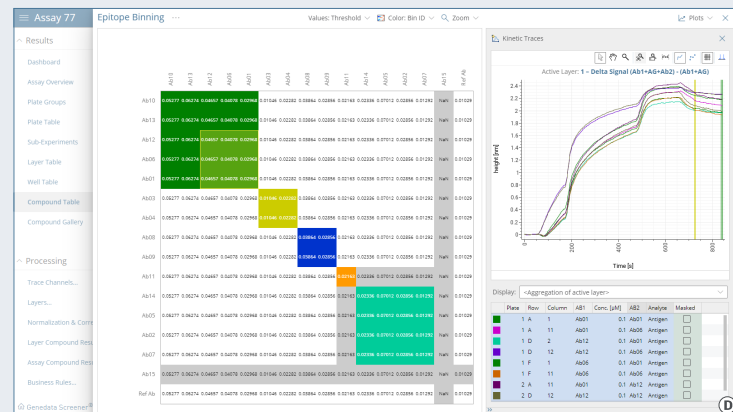
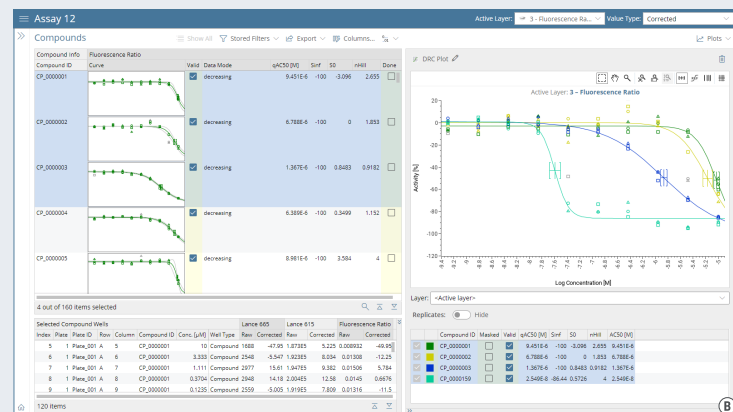
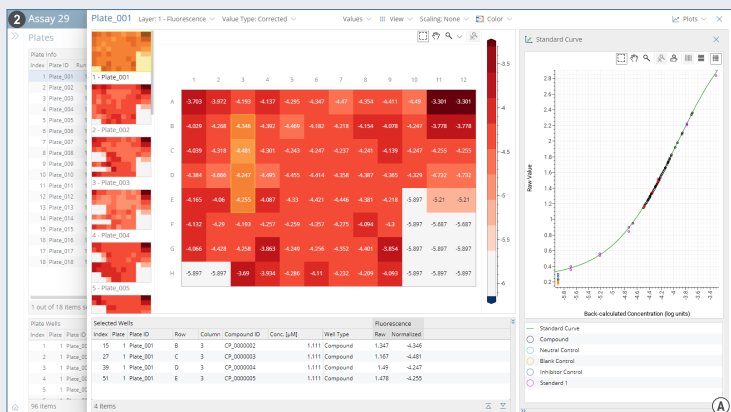
Genedata Screener builds on more than 15 years of expertise in assay data analysis, with interface and processes tailored to each individual type of analysis. Dedicated methods, visualizers, and statistics are all within easy reach, allowing you to quickly set up and run your analysis. For recurring processes, you can save and reuse your setup.

Screener makes sure each analysis is performed according to best-practice and that every deviation from the standard procedure is recorded. This includes analyses from different instruments producing the same type of data – as an example, it is easy to integrate every single one of your SPR instruments into the same workflow and then compare the

results, with confidence that while the instruments or the biology may perform differently, the analysis does not.

## Streamline

After analyses have been standardized, they are ready to be automated. The automation can cover simple analyses performed multiple times per day or week, such as ELISA, or more complex analyses such as SPR and BLI. With Genedata Screener, you can automate the analysis all the way from assay data input to data warehouse or opt to have control steps and interactive analysis if you discover any issues. Customizable business rules allow you to precisely control when data should be reported and when it needs to be reviewed.



### 2 Standardize & Automate Assay Analysis

Immediately review your results after raw-data loading, assess quality, and address issues with interactive visualizations. Examples: **(A)** Titer quantification assay using a standard curve showing an overview of heatmaps along with a drill-down on results from one plate. **(B)** Cytotoxicity assay using dose-response curve fits to generate IC50 results, showing an overlay of the concentration-dependent cytotoxic effect of two antibodies. **(C)** Screening antibody binding towards different ligands with SPR. Asses and compare selectivity in Gallery view. **(D)** Automated epitope binning with flexible bin reassignment. View raw sensorgram traces alongside final results for interactive QC.



Just automation is not enough – you need flexibility to make sure that what you report is reliable and reaches your quality standards. Genedata Screener makes sure you can trust your data at every step of the way.

## Visualize

Calculation software not designed for assay analysis, such as spreadsheets, requires additional software or complex macros to visualize quality artifacts and assess the results. With Genedata Screener, you import your data and directly see the computed results visualized on multiple levels on the screen. For example, dose-response results are available next to heatmaps of the plate level data as soon as you open your analysis session and you can view all relevant information side by side.

The interactive visualizers allow you to directly mask or annotate data, or take a closer look at the underlying information. You can also create overlays for easy comparisons and all plots and tables are easily exportable. With the right visualizations, issues are easy to spot, your analysis is faster, and results quality is higher.

## Focus on Science

With less time spent on copy/paste and moving between calculation and visualization software, you have more time to conduct experiments. When you can trust that your results are valid – receiving warnings when they are not – you can spend your time investigating what they really mean. With all your assay results collected in one place, you can easily compare the biological behavior of a molecule across different assays.

Genedata Screener allows researchers of multiple departments to collaborate by making handovers of data and results transparent. Scientists can focus on their science instead of collating data from multiple sources. Managers can trust that the data quality reaches their required standards and that the results are reliable.

## Solution of Choice

Genedata Screener is an enterprise software solution for assay data management, with high levels of standardization and automation, flexibility, interactivity, and built-in business logic.

Moreover, with Genedata Screener as part of the Genedata Biopharma Platform, you benefit from a complete end-to-end solution for designing, registering, creating, testing, selecting, producing and characterizing your molecules at scale, with end-to-end traceability.

This creates a software solution that realizes the full potential of your biopharmaceutical research.

### GENEDATA SOLUTION



Genedata Screener® captures data from all assays, regardless of therapeutic modality or area. It automates analysis of even the most complex assays, on a single platform and in a harmonized manner, to ensure high result quality and better decision-making. © 2022 Genedata AG. All rights reserved. Genedata Screener is a registered trademark of Genedata AG. All other product and service names mentioned are the trademarks of their respective companies. 05S22

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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](http://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](mailto:screener@genedata.com).