



Genedata Screener®

for SPR and BLI



Surface Plasmon Resonance (SPR) and Bio-layer Interferometry (BLI) are powerful methods for obtaining detailed molecular interaction parameters. With increasingly higher throughput and broader application, an array of instruments are used in pharmaceutical research. To simplify and rationalize the data analysis for all these diverse systems across organizations, Genedata Screener® provides consistent and efficient SPR and BLI data capture, result analysis, and storage.

Many Instruments, Everywhere

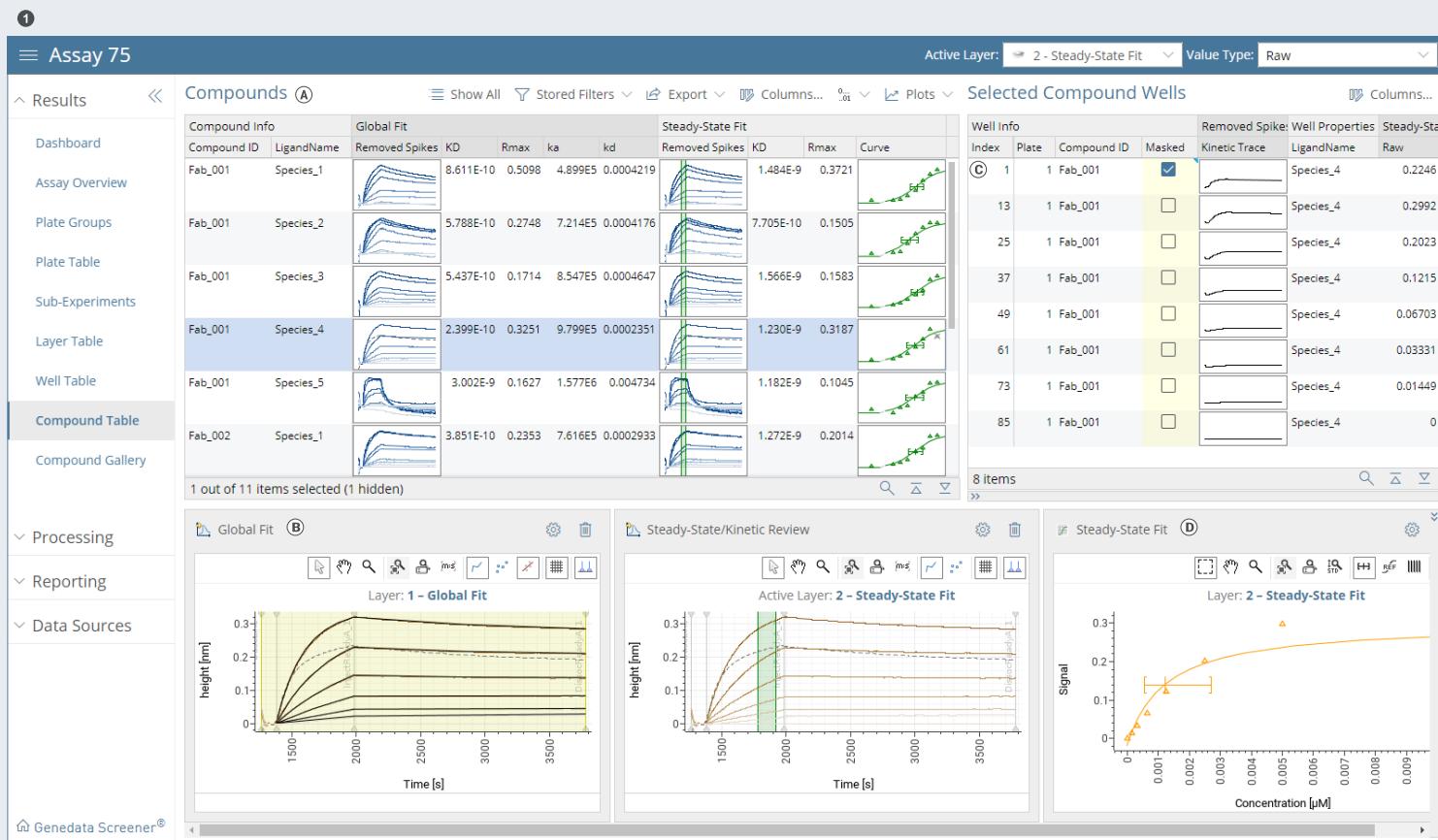
Screener for SPR and BLI is designed to import complete raw data from SPR and BLI instruments. The software allows analysis of binding curves from different instruments in the

same workflow, providing technology-specific methods and easy comparison down to compound level. Store original data and results centrally, automatically propagate them to your corporate data warehouse, and browse through all results from all experiments from any corporate location.

Screener for SPR and BLI fully integrates your data into your research organization and makes all of it, from raw traces to final results, available to all your scientists, everywhere.

Increased Instrument Role

When you do not have to do the analysis directly on the instruments, they can be used to do what they do best: Produce more data. With Screener for SPR and BLI, every



Final Results View

An example screenshot of final results from a multi cycle BLI experiment. **(A)** A 1:1 binding model overview with one compound selected, including traces and results for both Global and Steady-State fits. **(B)** Overlaid sensorgrams from a concentration series of the selected compound. **(C)** Wells corresponding to the different cycles of the selected compound. **(D)** An affinity plot showing concentration against activity.

instrument can be run, every day. Not only can you get more data – you will also spend less time analyzing it. Automate the processing of sensorgrams or binding charts and focus on the results of your experiments instead of on tedious and cumbersome data preparation.

Increasing the hours each instrument is running and decreasing the time required for data analysis ensures that you get the most out of every single instrument.

Consistent Results with Flexible Analysis

Screeener for SPR and BLI automates and standardizes the data analysis process, bringing a number of benefits, including:

- Identical analysis of all data of the same type: Improved results consistency and interpretability across instruments
- Reduction of manual processing errors and diagnosis of experimental issues: Higher results quality
- Combination of results with other biophysical measurements and biological assays: Enhanced understanding
- Optimized workflows: Efficiency gains

Screeener balances automation with flexibility. It provides full automation while still allowing you to adjust your analysis through in-depth diagnostics and re-processing options. View binding curves next to final results and interactively adjust processing steps found to be sub-optimal. Through parallel computation on different models or parameters



② Trellis View

An example screenshot of plots and sensorgrams arranged in a grid or trellis view for visual comparison of multiple analytes. ① Options to change the analysis settings directly from the gallery, if required. ② Options to filter a subset of plots, adjust the layout or display relevant numerical results. ③ Customizable plot legend to review results next to the plot. For example, k_a , k_d , and K_D .

and rigorous sanity checks throughout the process you can quickly find the best model explaining the data.

By providing both automation and flexibility as needed, Genedata Screener ensures you get the most out of your data while staying in control.

Efficient Review of Results

Comparing sensorgrams and affinity plots for different analytes, ligands, or experimental conditions is quick and easy with Screener. Display sensorgrams and/or plots side-by-side with results, using either a table (Figure ①) or gallery view.

With the gallery view, Screener makes it possible rapidly and visually compare multiple plots or sensorgrams for multiple analytes or ligands, by arranging them in a grid or trellis format (Figure 2). Filter or select which analytes and ligands to show, adjust the layout, and choose relevant numerical results to show. You can even change analysis settings directly from the gallery, if required.

Screener allows you to efficiently obtain an overview of your results and immediately share important information—including sensorgrams or binding curves—with your colleagues or for publication.

Built-In Business Logic

Screener for SPR and BLI builds on the proven screening analysis and workflow logic of Genedata Screener. Processing tools and normalization and condensing methods are built in, SPR and BLI-specific analyses for

small and large molecules are available, and customizable calculation methods provide flexibility.

The open infrastructure of Genedata Screener also allows you to implement company-specific processing methods and business rules, so that you can always choose the optimal way to analyze your data.

By providing the same expanded analysis options for any SPR or BLI data set, regardless of origin, Screener ensures that no information is overlooked.

Solution of Choice

There are no throughput limitations for Screener for SPR and BLI. Hundreds or thousands of sensorgrams or binding charts in full-time resolution can be imported and interactively analyzed.

Full integration with your corporate environment, high levels of standardization and automation, flexibility, interactivity, and built-in business logic all create a software solution that will realize the full potential of your instruments.

You can use Screener for SPR and BLI as a dedicated, stand-alone solution fully aligned to your existing screening infrastructure, or added with minimal effort to an existing Genedata Screener installation.

GENEDATA SOLUTION



SCREENER

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.