Genedata Screener®

Hit Profiler

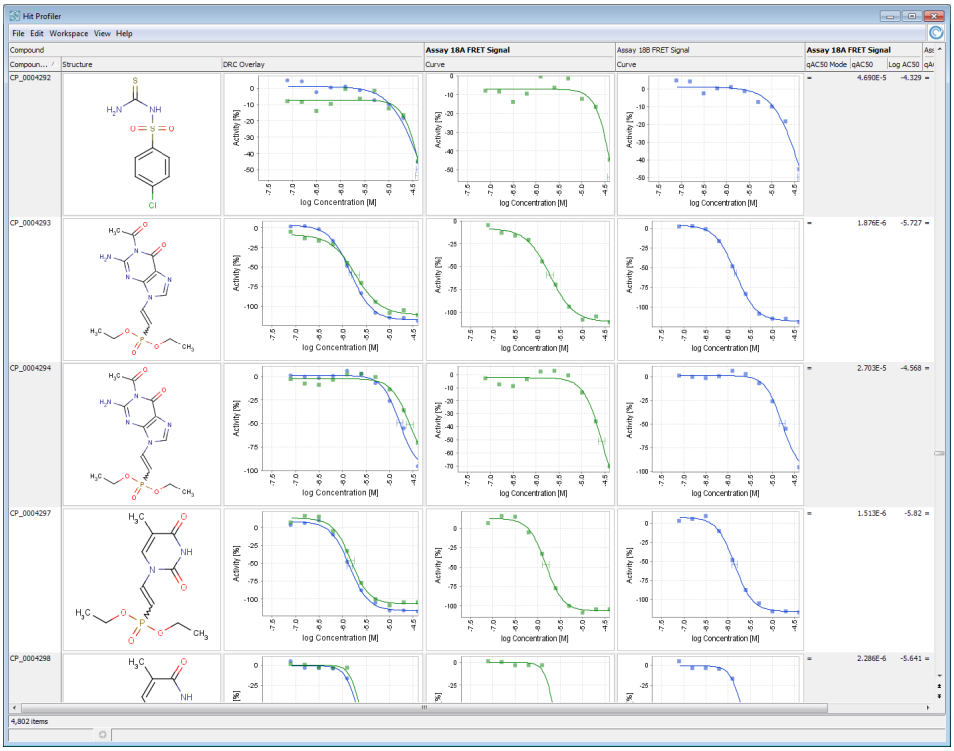
Compound Profiling Within and Across Assays

Hit Profiler effortlessly loads and displays biological results for a defined set of compounds in combination with chemical structures and related information. It accurately assigns information from heterogeneous sources and makes it easy to systematically collect scientific interpretations.

- Biological Results
- Dose-Response Curves
- Compound Information
- Smart Data Loading
- Cross-Assay Comparison
- User Annotations
- Side-by-Side Displays
- Easy Setup

Bringing it Together

Hit Profiler is built on top of well-defined and versatile APIs. These interfaces allow you to instantly select and import results from a biological data source.
Graphical displays of dose-response curves and chemical structures with relevant numerical or categorical results are combined in a unique grid view, supporting intuitive filtering and sorting.
Scientific insight is captured by customer-specific annotations, supporting controlled vocabularies, bulk-editing, and locking.



Hit Profiler

(FIG. 1) *Hit Profiler's information grid aligns biological results and other information (columns) to selected compounds (rows).*

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Automatic Import

Hit Profiler imports compound and experiment-specific data from various data sources with minimal effort. All data are aligned automatically to compounds (rows) and biological results (columns), avoiding any manual and error-prone alignment typically experienced with spreadsheet-based workflows. Therefore, you can quickly explore actual data without error checking.

Supporting multiple data sources, Hit Profiler's script-based interface allows fetching of biological results or chemical information from any central data source.

Chemical structures and dose-response curves are plotted on-the-fly, allowing re-scaling or zooming without any loss of display quality.

Data column assembly can be stored as a workspace and restored in a single operation for repeated analysis.

Fully Interactive

Following data loads, work is done in a spreadsheet-like environment. You can sort compounds based on multiple data categories or filter them based on any combination of biological or chemical information. To support analyses on just groups of compounds, selected compounds can be hidden and restored.

User Annotations

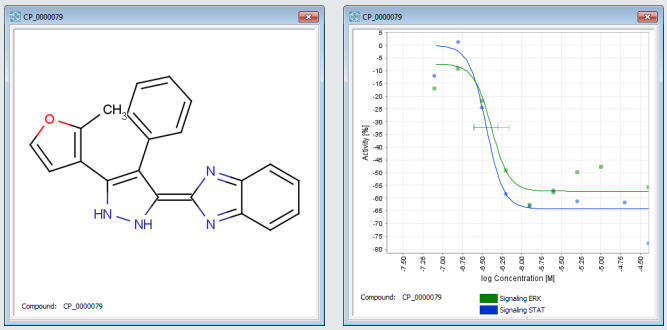
Hit Profiler features a fully customizable annotation mechanism. Annotations can be categorized, free text or based on controlled vocabularies. Annotations, captured individually or in bulk, are written back to a central storage.

Graphical Reports

You can adjust individual column displays with Hit Profiler's drag-and-drop capabilities. With a single command, complete content or selected compounds are exported to PDF or HTML formats, enabling you to easily share data views with colleagues.

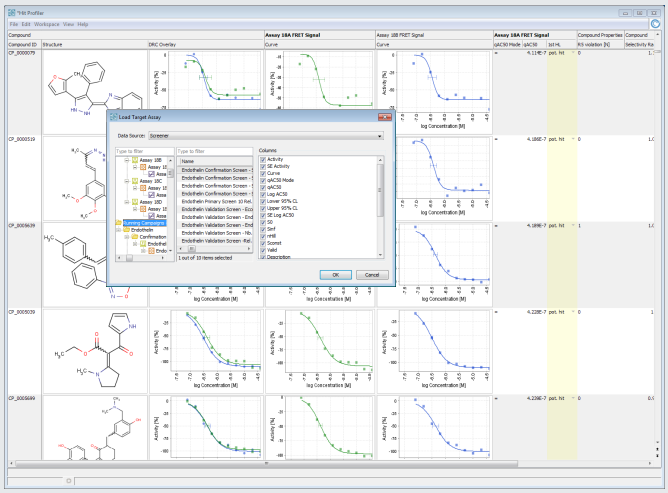
APIs

Hit Profiler APIs are script-based and allow implementation of customized data sources.



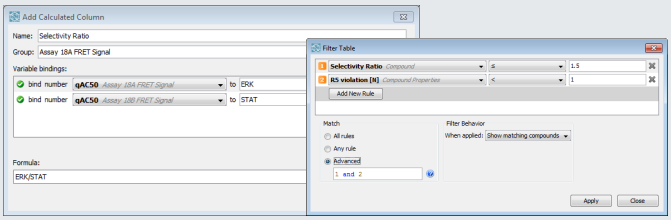
Smart Display

(FIG. 2) *Hit Profiler renders structures and dose-response curves as well as curve overlays on-the-fly, allowing re-scaling without quality loss.*



Central Point of Interaction

(FIG. 3) *Hit Profiler integrates with existing data sources for biological results or chemical information. With specific data sources, all project data is quickly assembled.*



Powerful Filters

(FIG. 4) *Hit Profiler quickly and reliably creates complex filtering rules to identify compounds with specific properties.*

Genedata Screener® is part of the Genedata portfolio of advanced software solutions that serve the evolving needs of drug discovery, industrial biotechnology, and other life sciences.

Basel | Boston | Munich | San Francisco | Tokyo
www.genedata.com | screener@genedata.com

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