

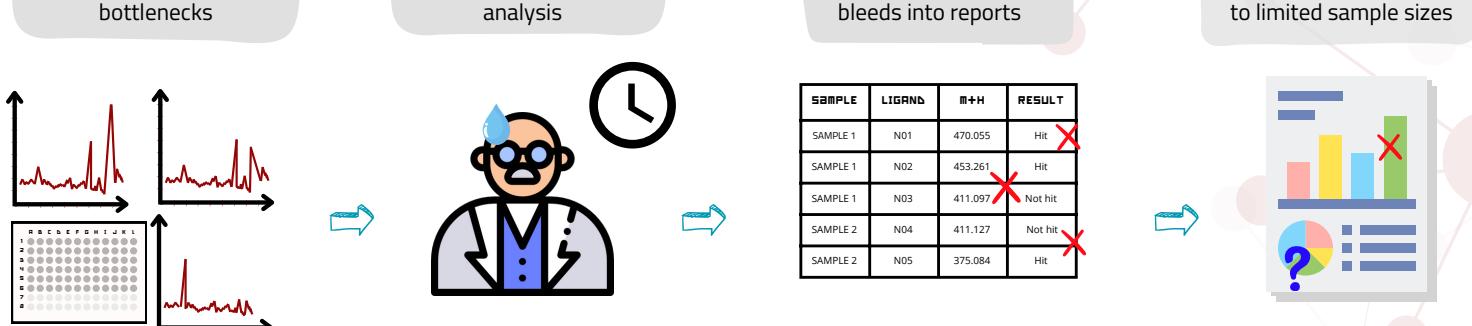
Affinity Screen:

Screening libraries within minutes made possible

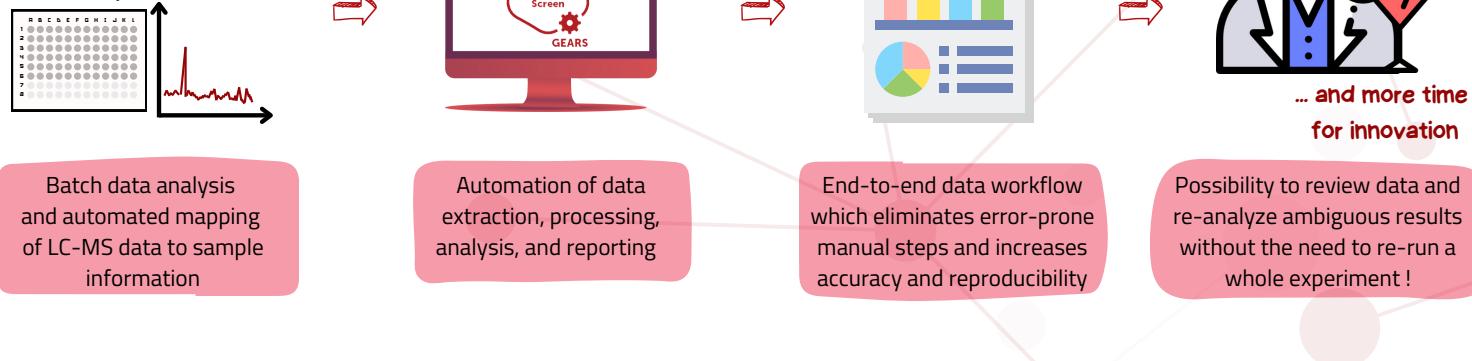


Affinity Selection Mass Spectrometry (AS-MS) has emerged as a powerful technique for elucidating protein-ligand interactions, providing valuable insights into complex biological systems and playing a pivotal role in advancing the development of novel therapeutics and diagnostics. To enhance the efficiency of AS-MS, ligand multiplexing is often employed, enabling researchers to simultaneously screen up to 200 ligands within a single well and thus screen more extensive compound libraries.

However, analyzing high-throughput AS-MS data can be a challenging and time-consuming endeavor, requiring specialized tools and expertise. That's where our software, Affinity Screen, comes in. It automates data analysis, making it easier for researchers to extract meaningful insights from their experiments, accelerating the understanding of protein-ligand interactions and expediting the discovery process.



Affinity Screen has been developed with real customer challenges in mind to simplify and accelerate mass spectrometry analysis process, offering a comprehensive suite of features that ensure precision and efficiency.



Data Detection & Sorting



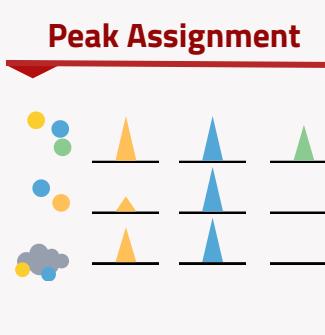
Reference

Unbound

Bound

Easily finds and categorizes input data files, distinguishing between bound, unbound, and reference ligands for each sample

Peak Assignment



Molecular Formula

SMILES

MW

CSV

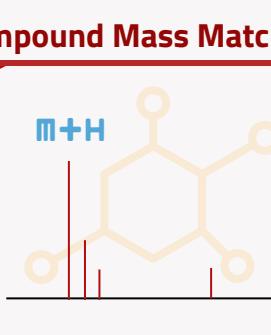
Analitical EICs

for each compound

and reporting

of each compound

Compound Mass Matching



m+H

Peak

Assignment

and reporting

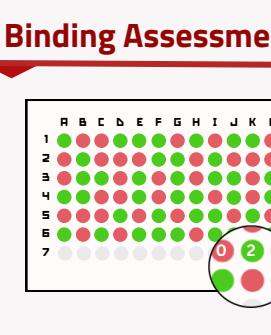
of each compound

and reporting

of each compound

and reporting

Binding Assessment



Score

to determine

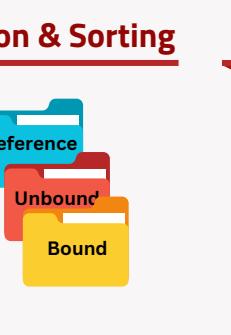
whether a molecule

effectively binds to a target

or not, and

classifies hits by score

Interactive Dashboards



Review

by exception

and provide

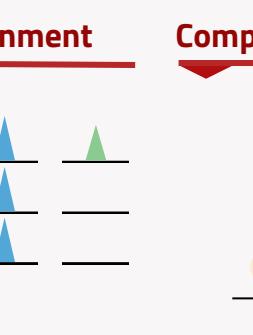
the ability

to override

results when

necessary

Alerts and Warnings



Flags

and warnings

when encountering

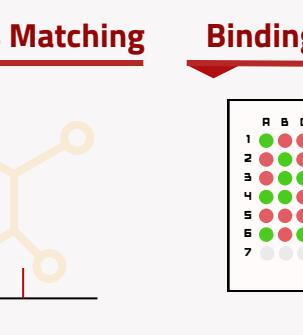
MS overlaps

peak assignment

failures

or missing peaks

Real-time Updates



Automatically

updates all analysis

outputs when changes

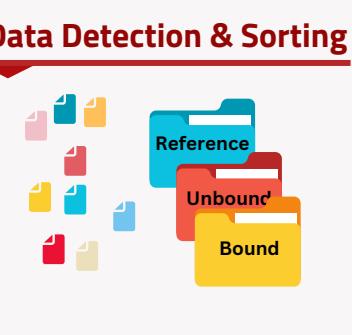
are introduced by the scientist

maintaining consistency

and accuracy throughout the research

process

Unmatched flexibility to adapt to your needs



Affinity Screen operates within Mnova, our vendor neutral software suite which can handle most LCMS data formats, and Mnova Gears, our low code automation engine which seamlessly integrates with your lab and informatics systems. Affinity Screen boasts a comprehensive array of customizable features, offering the freedom to incorporate custom scripts, thereby enabling a heightened degree of personalization to effortlessly meet your distinct workflow needs.

Transform raw data to actionable results

Eliminate the burdensome overhead associated with extensive LC-MS analyses; benefit from faster and more rigorous data workflows to streamline decision making. Our interactive dashboards simplify data exploration and comprehension eliminating the need to sift through irrelevant data and allow better control over result quality. Identify interesting hits within minutes and expedite your transition to hit validation and optimization.

Target

hit validation

and optimization

process

and reporting

of each compound

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