

Streamlined, Self-service Access to Scientific Data

D360 enables scientists to easily access, analyze, and visualize chemical and biological data enhancing scientific capabilities

Background

A small biotechnology company dedicated to the research and development of small molecule therapeutics engaged in an initiative to better address access and analysis of chemical and biological data by its scientists.

Challenge

Scientists at this company use IDBS' ActivityBase®, the industry standard biological data capture tool, as its solution for biological data capture and storage. Scientists relied on a few expert users to get access to their data because of the complexities in data querying and reformatting that were required to generate research relevant datasets. This resulted in a bottleneck in data access and analysis, causing scientists to use data views that were often days out of date.

Key project team leaders had considered multiple solutions to address this problem and enable effective merging of data from ActivityBase and their CambridgeSoft® registration system; however, none of the solutions available at the time had the necessary combination of simple query building, data transformation, and display capabilities.

Solution

This biotechnology company chose D360 for a variety of reasons.

Ease of data access

D360 provides all users the capability of accessing up-to-the-minute data at any time, through a Google®-like search interface, thus removing the data access bottleneck.

Support for complex biological data

D360 can transform data from database storage format to a user-desired data view, taking into account the many complexities of the biological assays being employed and allowing the organization to deploy D360 with no changes to their informatics infrastructure.

Challenge

Safety data was stored in multiple sources which were not integrated, making data mining across these sources difficult, if not impossible.

Solution

Researchers used D360 to easily query and analyze data from multiple studies simultaneously.

Benefit

Scientists can access all their data in real time without the need for an informatics expert.

Analysis capabilities

D360 provides a strong and growing set of analysis capabilities that enabled powerful data visualization and manipulation.

Extensibility

D360 can be readily configured to include additional data sources without the need for coding.

Benefit

Scientists can easily retrieve up-to-date data from their ActivityBase database, without requiring an informatics expert to produce weekly data reports. Biological data is merged with chemical data and presented to users in the way that they want, in order to facilitate their research, something that competitive solutions were unable to achieve.

Benefit

D360 allows scientists to access their data any time without requiring manual manipulation or a dedicated staff member to extract the necessary information. This has allowed scientists to access current data in real time, and freed the time of those scientists who were formerly charged with data extraction duties to best make use of their scientific capabilities. Further, all scientists in the company not only have ready access to their own project data, but can also look at data across projects to understand previously inaccessible structure-activity relationships. Additionally, they are able to analyze all of the data visually with D360's analysis tools.

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