



## GENEGO SERVICES GROUP

DRIVING ROI OF A TOP 10 PHARMACEUTICAL COMPANY  
BY IMPROVING DATA MANAGEMENT SYSTEMS



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# HARMONIZATION OF REGISTRATION AND STORAGE COMPOUND SCREENING DATA

## CLIENT

A top 10 global pharmaceutical company.

## CHALLENGE

This company decided to improve research ROI by increasing the re-use of compound screening data-rate. Their challenge lay in historically limited access to assay results, due in part to data type diversity, but also to the complexity of the company's R&D logistics, with multiple sites and departments that developed their own data registration and storage systems. A lack of common nomenclature between screening groups made it difficult to manage the company's assets, share results, answer interdisciplinary questions, or track a compound's progression through the pipeline.

The client saw an opportunity to address these issues, and contacted GeneGo, a Thomson Reuters business, to help design and build a new assay registration system. This new system would unify the curation of assay data within the entire company.

## CONSULTING COURSE OF ACTION

GeneGo set up a series of interviews with the company's scientists to specify and rank the requirements for the new system. Following this, the GeneGo team designed an assay registration interface – a set of entry fields for data curation – and developed ontologies, to provide controlled vocabulary for every field.

They included:

- Assay Technique
- Assay Detection
- Assay Format
- Assay Purpose
- Target Ontology
- Cell Line Dictionary
- Other vocabularies including general and company specific terms.

After the assay registration system had been created by the client's developers, GeneGo performed constant Q&C and support for all aspects of the assay registration. GeneGo remained onsite with the client to help conduct curation of the company's current and historical assay data, and to assist the company's scientists in setting up the annotation process in their labs.

## OUTCOMES

In collaboration with GeneGo, the company was able to create a database with harmonized, easily-accessible compound screening data that is appreciated by the users, who have identified it as a key instrument in their work. This database saves the company time, search and re-use of assay results, and saves money by improving efficiency and eliminating costs such as unnecessarily repeated experiments.



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