

Innovate your scientific research process and beat information overload

Searching through a mountain of information for relevant data is time-consuming; interpreting it accurately is hard; and there's always the risk of missing something vital. **The answer is Dimensions.**

Dimensions is the next-generation in research discovery, advancing your scientific research process.

With a view of the whole research landscape, Dimensions supports your discovery and development of future drugs and delivers the insights you need.

It's the only service that discovers data across the full research lifecycle, with more linked-up data than any other provider.



AI-powered technology

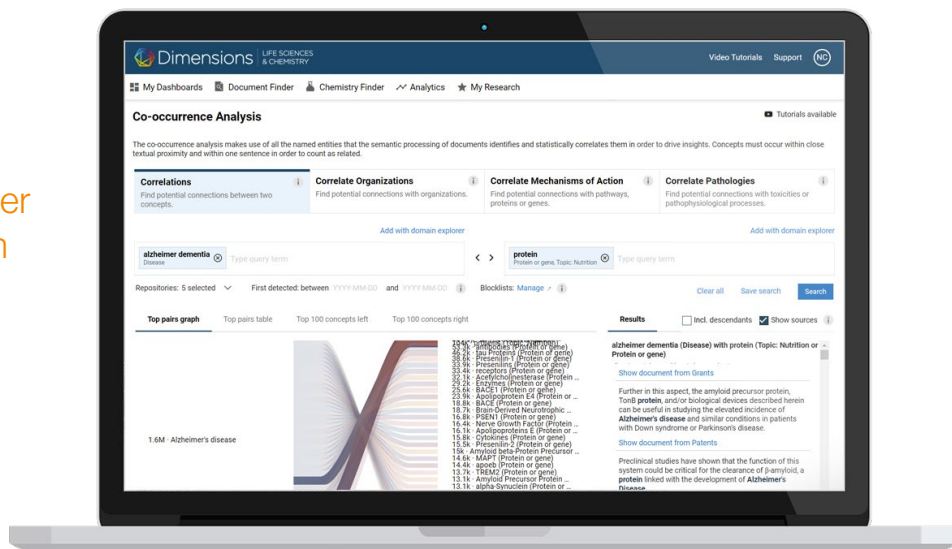
Accelerate your research process and generate more accurate insights than ever before.

Dimensions' AI-powered **semantic search** incorporates **ontologies of 40 million concepts with 100 million synonyms.**

This is a breadth and depth of data that you can't find anywhere else – making sure that you don't miss a thing.

"Dimensions takes scientific knowledge discovery and insight generation to the next level."

Boehringer
Ingelheim



Speed up your drug discovery and development

Dimensions supports you to:

- Explore and analyze the global research landscape
- Understand disease mechanisms and identify drug targets
- Identify and validate biomarkers
- Prioritise indications for your targets / mechanism of action

Game-changing advantages

Miss nothing

Uncover information you weren't aware of and can't afford not to know with **semantic analysis and ontologies that find data overlooked by other tools.**

Dimensions finds up to **10 times more full text indexed publications than PubMed.**

Generate unexpected insights faster

Rapidly discover new insights on potential drug targets, make connections to diseases, drugs, biological and pathological processes, and their commercial potential in real time.

Increase innovation

Predict patterns and trends easily to innovate at speed.

Explore drug, target and disease landscapes and easily spot gaps for development.

Find what you need fast

Even complex queries deliver results in seconds. Quickly search over 120 million publications, of which more than 70% have full text indexing, and over 11 million datasets, 6 million grants, 600 thousand clinical trials, 144 million patents and 700 thousand policy documents to deliver insight at speed.

Minimize error

Reduce the risk of failure at clinical trial and increase efficacy, as you make accurate, evidence-based decisions with confidence.

4 ways to access Dimensions data:

Dimensions Analytics

The complete and connected data set that supports complex data analysis across the full research ecosystem.

Dimensions L&C

Powered with semantic and chemistry search capabilities, for deeper and more precise knowledge discovery in just a few seconds.

Dimensions GBQ

The fastest way to deliver complex queries via plugging Dimensions into Google.

Dimensions bespoke implementations

Personalized to your needs with custom-built applications that can integrate your data, link to your systems and deliver made-to-order tools and powerful visualizations for complex insight at a glance.

Do you want to learn how Dimensions can benefit your organization?

Schedule a consultation now:

www.dimensions.ai/request-a-consultation/

www.dimensions.ai

Applying AI to automate biomarker identification

Cancer biomarkers have many potential applications, including risk assessment, screening, differential diagnosis, determination of prognosis, prediction of response to treatment and monitoring of progression of disease. Much of what we know about cancer biomarkers has been published in the scientific literature. However, identifying these markers is very challenging, due to both the volume of published information and the limitations of standard keyword-based searching.

Mining Scientific Literature

The Dimensions platform can search through huge amounts of full-text information very quickly and identify information that manual processes are likely to miss.

To automate the process of biomarker identification, Dimensions custom dashboards can be used to build out and implement an AI-based literature interrogation tool to help researchers identify biomarkers of emerging scientific interest in oncology. The goal of this is to help researchers detect and select oncology biomarkers of emerging interest for their own research by searching the full-text of an enormous volume of scientific literature.

By combining Dimensions data with an AI based literature interrogation method, you can identify biomarkers and biomarker panels, which may be otherwise missed through traditional search methods.

Bringing data to life

Dimensions data scientists can use their expertise to analyze the literature to answer very specific clinical questions and represent these insights in a modern, visual and interactive way.

An example of this is the interactive biomarkers visualization tool that Dimensions built with Pfizer. This tool contains a dashboard that allows the data to be visualized in different ways, incorporating a variety of elements representing the number of biomarkers as nodes, publication slope, type of biomarker and where it appears in the cluster, etc. Researchers then have the ability to manipulate the various elements and choose to see either a visualization or a data table.

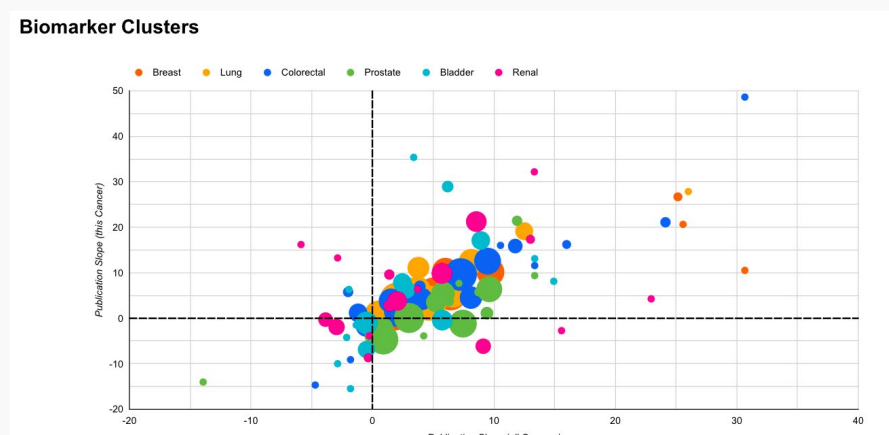


Figure 1: Biomarker Clusters visualization available in the interactive tool

