CAS SciFinder Discovery Platform™

BETWEEN IDEAS AND ANSWERS ARE CONNECTIONS THAT MATTER

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CAS accelerates breakthroughs

At CAS, our passion is advancing scientific progress. As a leader in scientific information solutions, we curate, connect, and analyze the world's published science to accelerate discovery.

We are proud to partner with innovators and educators across academia, providing the hindsight, insight, and foresight they need to build upon the past and discover a better future.

> **BETWEEN IDEAS AND ANSWERS**
> **ARE CONNECTIONS THAT MATTER**

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CAS connects you to the world's published science for better insights

Over
50K
scientific journals and documents

Over
250
million substances

Over
50
languages translated

109
patent offices worldwide

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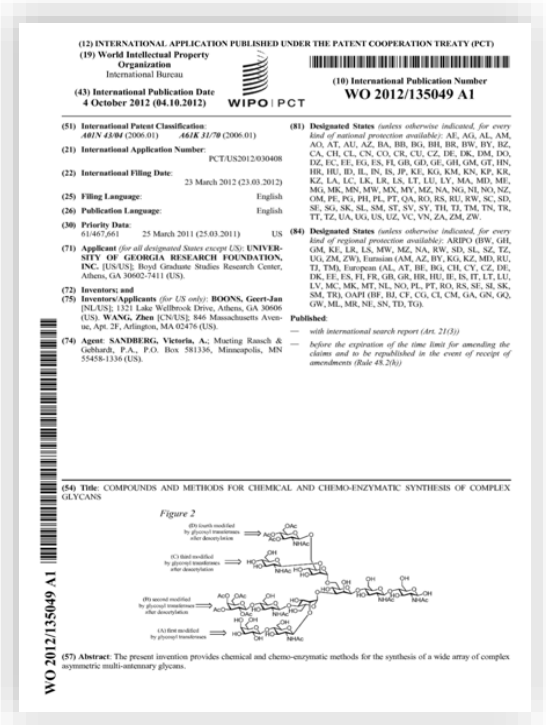
CAS curation extracts knowledge

Current patent example



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
4 October 2012 (04.10.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/135049 A1

(54) Title: COMPOUNDS AND METHODS FOR CHEMICAL AND CHEMO-ENZYMATIC SYNTHESIS OF COMPLEX GLYCANS

Figure 2

(57) Abstract: The present invention provides chemical and chemo-enzymatic methods for the synthesis of a wide array of complex asymmetric multi-antennary glycans.

WO 2012/135049 A1

Click document to view on CAS SciFinder^{n}

WO 2012135049

Compounds and methods for chemical and chemo-enzymatic synthesis of complex glycans

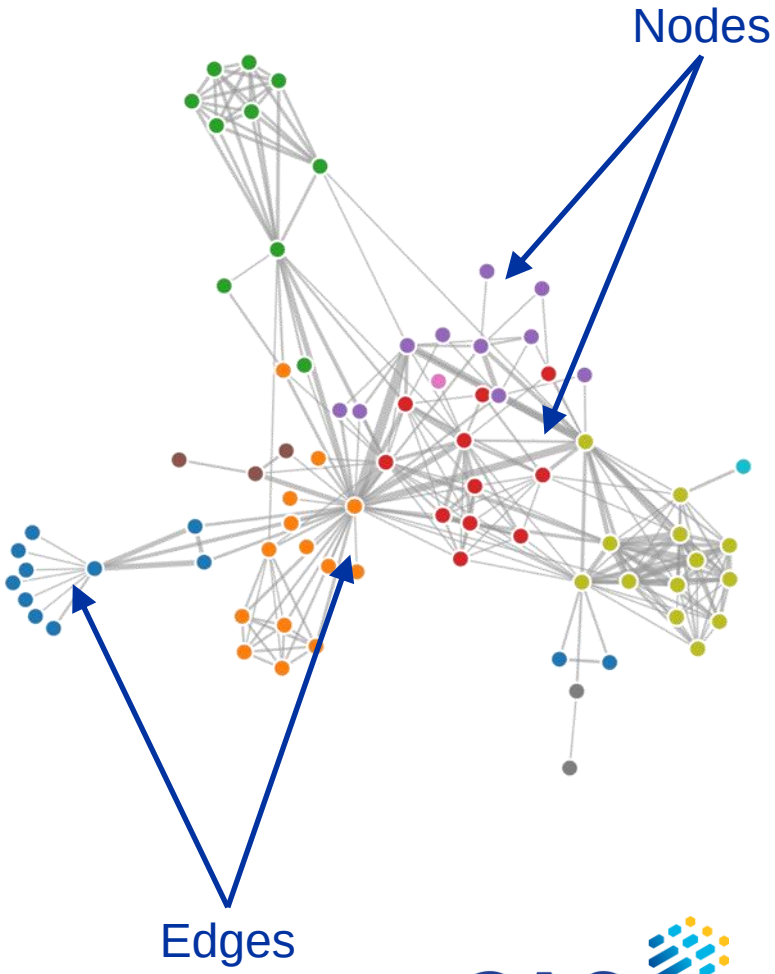
7 concepts

138 substances

4,614 reactions

4 patent family members

3 cited documents



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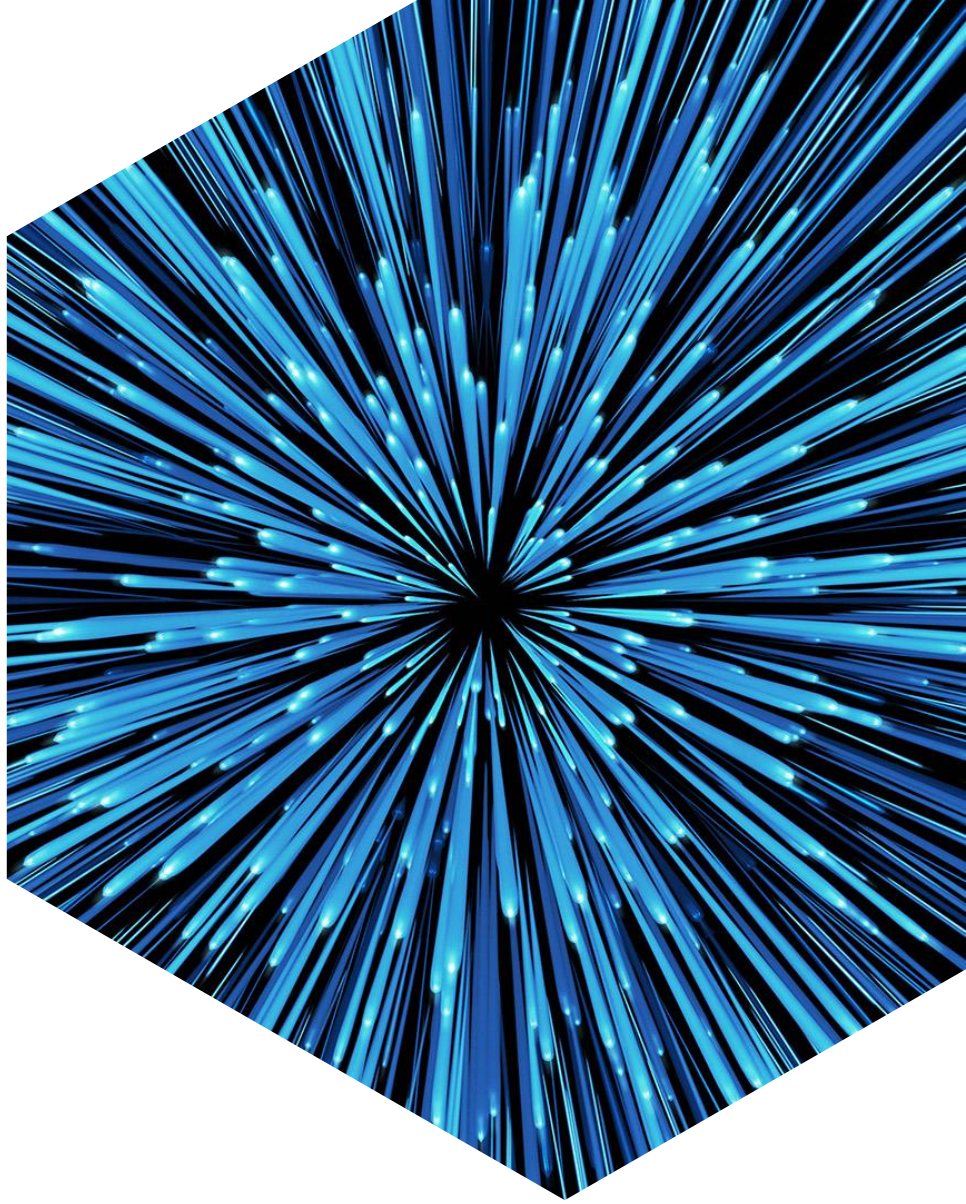

As the volume of scientific information continues to grow, finding exactly what you need – the connections amid the chaos – can be challenging.

Researchers need best-in-class scientific information solutions to help them bring new ideas to life faster.

Whether you're reviewing the literature for funding applications and manuscripts, developing experimental plans for new projects, or searching for collaborators to help you advance the research in your field, CAS SciFinder Discovery Platform speeds your connection to relevant insights.

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CAS SciFinder Discovery Platform for Academics

Informing and enhancing the foundational scientific pursuits in Academia

CAS SciFinder Discovery Platform is designed to support multiple stages and types of scientific research and combines task-specific information solutions, including **CAS SciFinder^{n}**, **CAS Formulus®,** and **CAS Analytical Methods™** with **ChemZent®** and the **CAS Content Collection™**, the most complete source of scientific information in the world.

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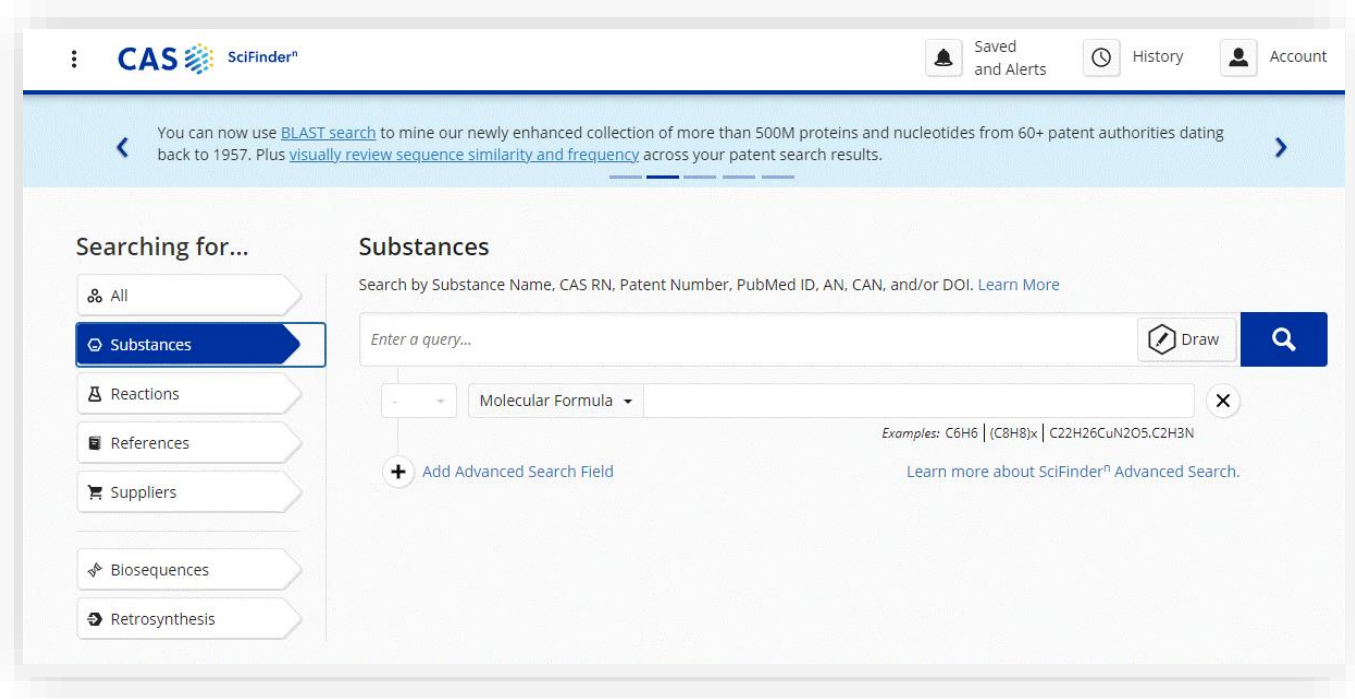
Directly access to the most comprehensive collection of chemical reactions, substances, patents, and scientific literature.

Specialized technology

Tap into the smartest, most powerful science-aware search engine.

Human expertise

Our scientists work in tandem with technology to identify concepts and relationships beyond keywords.



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Comprehensive bioactivity data to study how molecules interact with biological systems

Extensive collection

More than 45 million bioactivity measurements and 90,000 defined targets across more than 10 million unique substances relevant to Medicinal Chemists

Critical information

The data required for running analyses of SAR, ADME, and toxicology to understand the effect of a molecule on a target

Intuitive search

Extensive filtering options and a tabular display with overview of ligand structure, pharmacological parameters, and assay details

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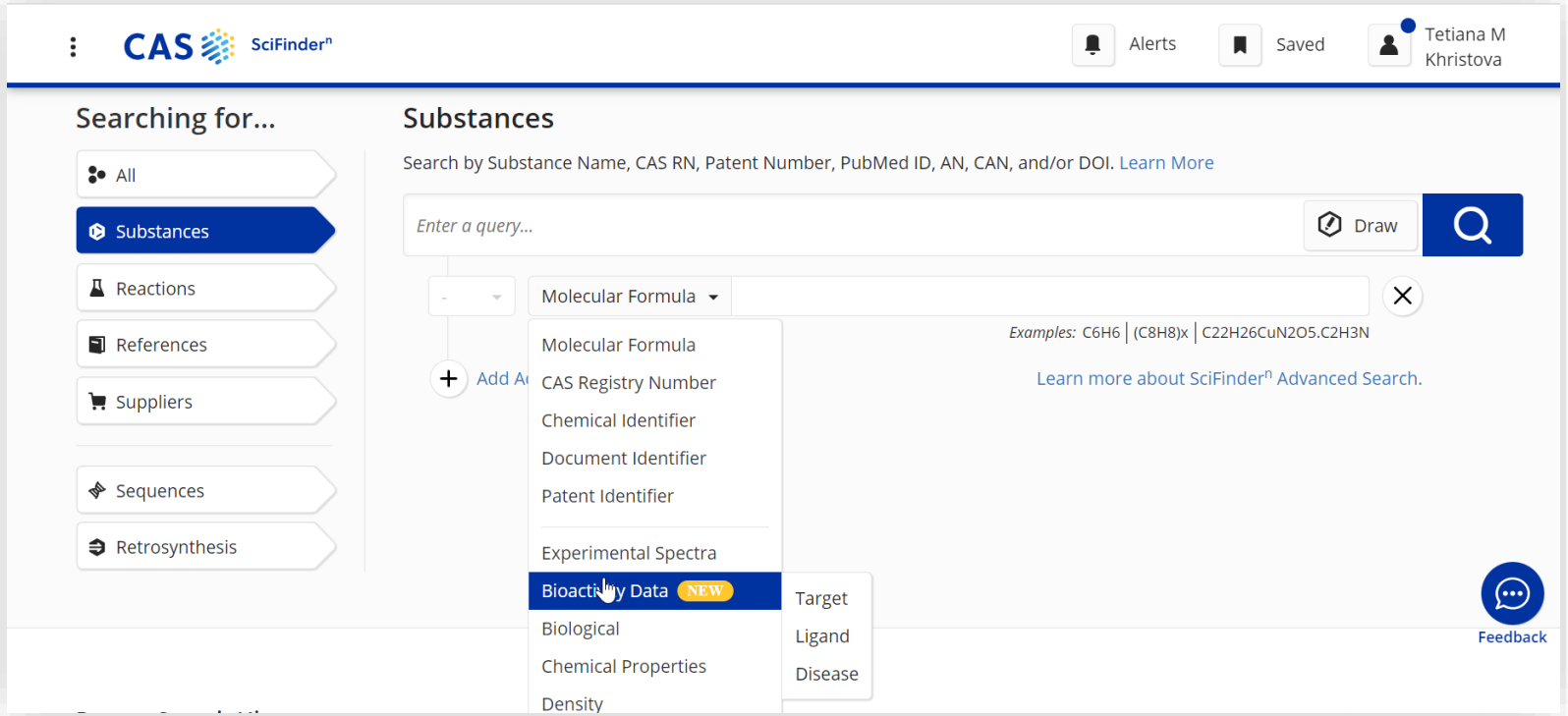
Improved information to accelerate drug discovery research with CAS Scifinder^n



Searching for SAR Data

Content that specifically targets a ligand, target, and/or disease can be searched through advanced search.

Content answers can be highlighted in detail records.

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Enhancing biological research with new biosequence search in CAS SciFinder^{n}

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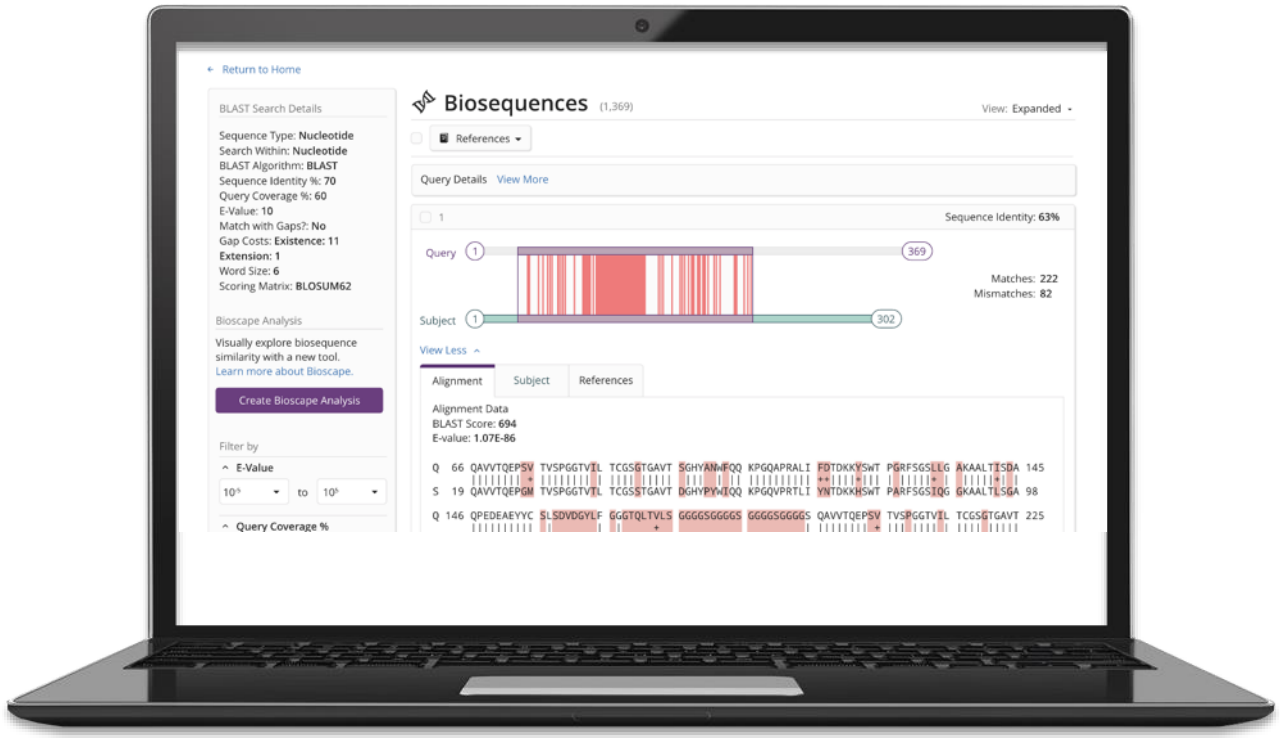
Newly enhanced collection of more than 500 million proteins and nucleotides from 60+ patent authorities dating back to 1957

Specialized technology

Multiple search options to support your sequence search needs, including BLAST, CDR, and Motif search

Human expertise

Both human and machine-curated biosequence collection including curated sequences not found in electronic sequence listing and other databases



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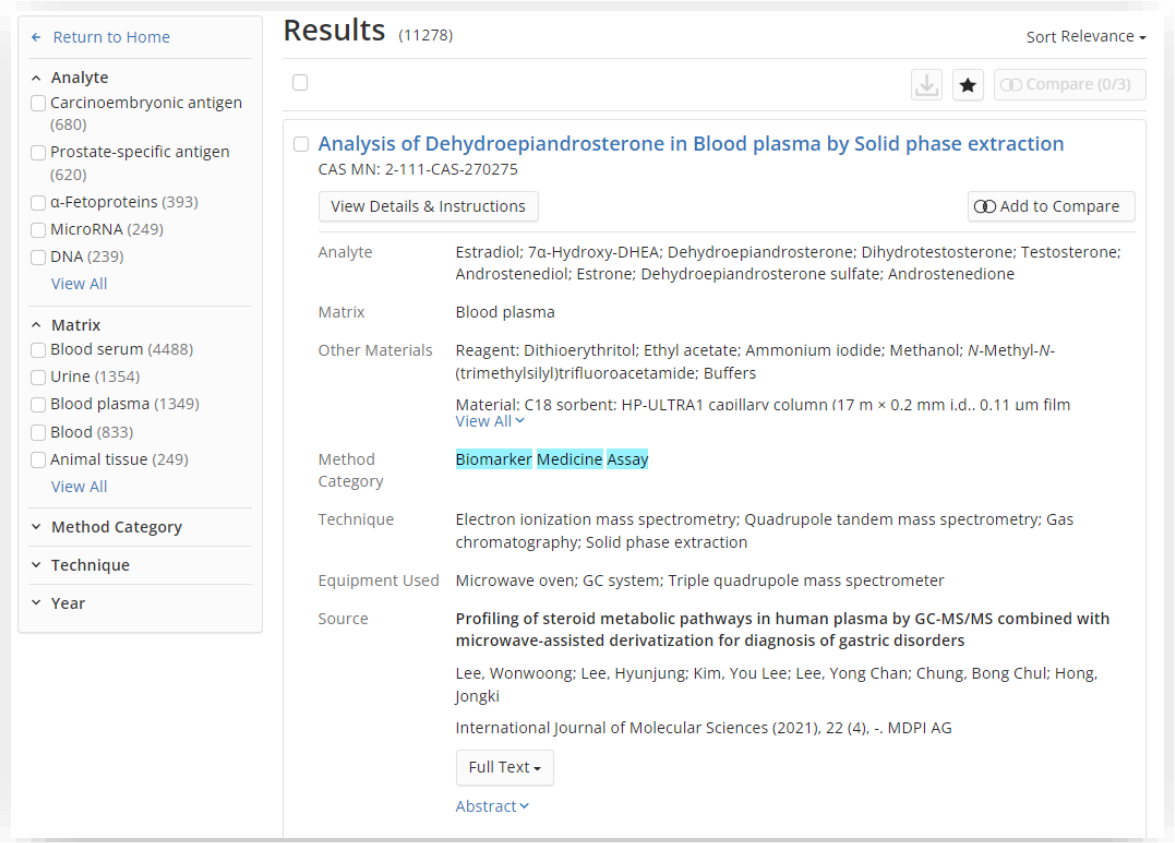
A single-source discovery platform for in-depth, multi-disciplinary scientific methods



Integrated

Seamlessly integrated into CAS SciFinder^n

Comprehensive

Hundreds of thousands of methods across multiple fields of study, including organic compound, bioassay, and water analysis

Focused

Designed with analytical chemistry processes in mind as a single source for searching and comparing published scientific methods and techniques

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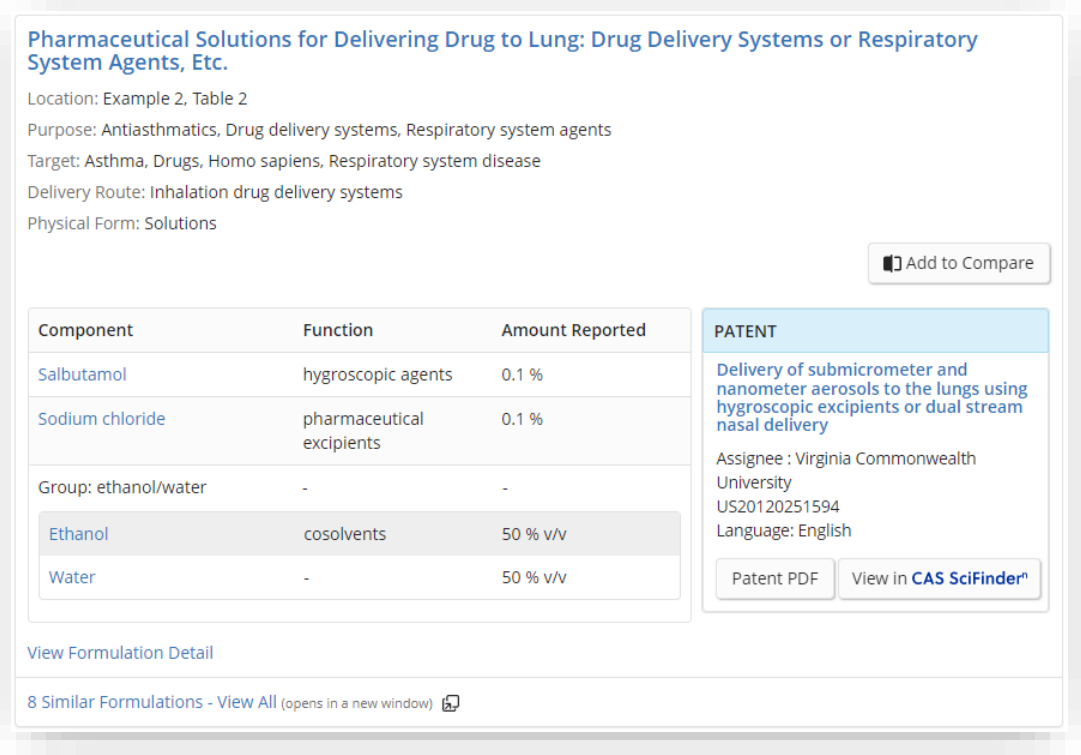

Chemistry beyond synthesis

Understand a formulation's origin and effectiveness with access to the best information for active ingredients and excipients.

Discover industry insights

Get insights beyond literature and interact with formulations data curated from patents, journals, and product inserts.

Comprehensive information

Evaluate ingredients and manufacturing processes while exploring regulatory requirements in one easy interface.

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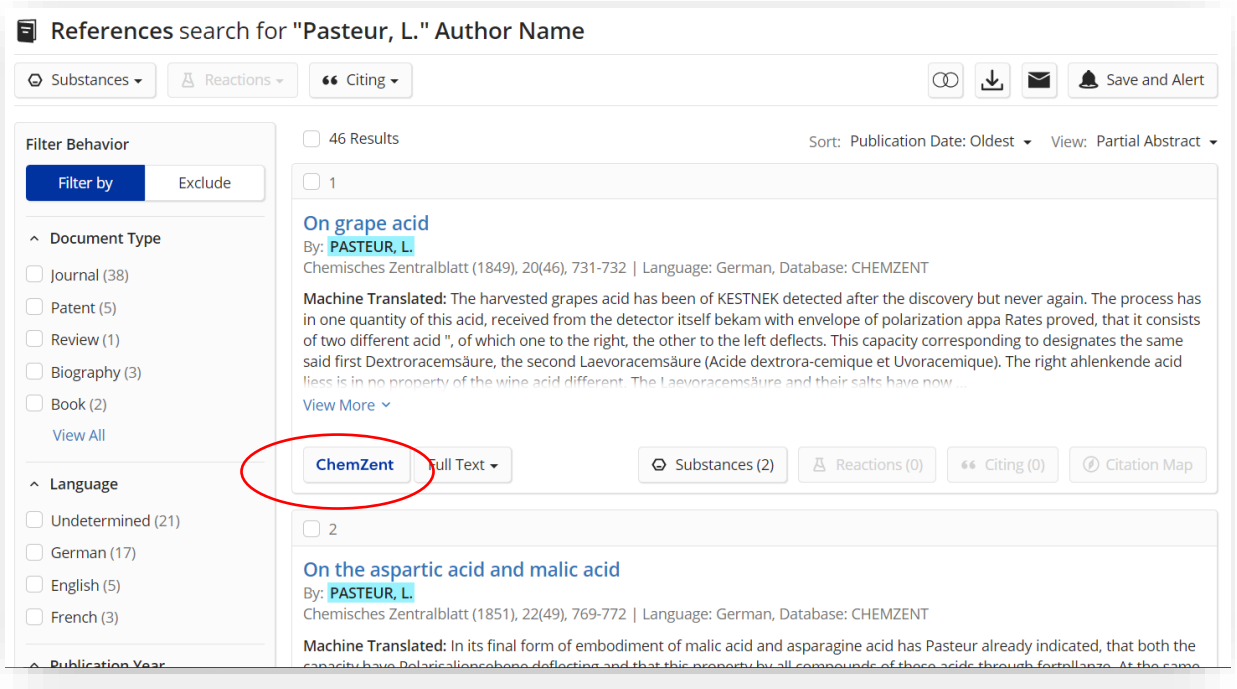
Access essential historical chemistry insights with ChemZent®



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Completely Integrated

Indexed to fit seamlessly into CAS SciFinder^{n} workflows with CAS-controlled vocabulary

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THANK YOU

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