

Release notes for August 2023

This release focuses on content enhancements for Reaxys Journals and Patents.

Journal content expansion and substance extraction from images

Reaxys continues to use its award-winning AI-driven data extraction method in combination with our long-established expertise in chemistry knowledge to enhance its coverage by adding more journal content and new journal titles. In addition to extracting substance names and index terms from text, we now extract substances presented as chemical structures in images, providing you the fastest access to the most comprehensive chemistry information. This is an extension to our already existing image to substance extraction for patent content in Reaxys.

What is included:

As of April 2023, Reaxys offers:

- Increased coverage from over 16,000 to 18,000 Journal titles
- Substances extracted from images in full-text of all journal articles
- Easy discovery of more relevant substances, thanks to reduced noise

Example:

This is an example of a journal article where we extract substance structures from images in Reaxys.

The image displays a comparison between a journal article and its representation in the Reaxys database. On the left, a snippet from the journal *Sensors and Actuators B: Chemical* (Volume 392, 1 October 2023, 134104) is shown. The article title is "Tackling the kinetic dilemma of thioacetals in sensing of mercury through subtle structural changes of S to O". Below the title, the authors are listed: Xueta Dai^{a,*}, Yang Li^a, Yuanqiang Sun^a, Zhaohui Li^a, Jian Tao^a, Lingbo Qu^{a,b}, and Ran Yang^{a,b}. The article includes a section titled "2.1. Synthesis of the MTK and DTK" with a chemical reaction scheme. The scheme shows the synthesis of MTK and DTK from a starting material (A) using reagents like EtOH, Piperidine, and HOCH₂CH₂SH/CH₃SO₃H. The structures of MTK and DTK are highlighted with orange boxes. On the right, the Reaxys interface is shown. The search results page displays the same article information, including the title, authors, and journal details. Below the article information, a "Substances" section is visible, showing a grid of chemical structures. The structures of MTK and DTK are highlighted with orange boxes, matching the structures in the journal article. An orange arrow points from the highlighted structures in the journal article to the highlighted structures in the Reaxys interface, indicating the extraction process.

Extension of Asian language patents to target and bioactivity information

Reaxys is further growing the largest collection of target and bioactivity data in the market. As of January 2023, Reaxys is also extracting target and bioactivity information from key Asian patents supporting you in your competitive intelligence and novelty search workflows.

What is included:

Since beginning of 2023, Reaxys has expanded the data extraction of Targets and Bioactivity data from 3 to 7 patent offices. It now covers the CN, KR, JP, and TW along with the existing WO, US, EP. This extraction happens next to the extraction of substance and reaction data.

Example:

This document result is an example of a Japanese patent: Reaxys now covers annotation of not only substances, reactions, and properties, but also the targets relevant for this patent. You can discover this information through target and bioactivity searches.

PHARMACEUTICAL USES OF CYCLIC PEPTIDE COMPOUNDS

Current Patent Assignee: ROCHE HOLDING AG; Chugai Pharmaceutical (In: Roche) - JP2023/1389, 2023, A
Patent Family Members: JP2023/1389 A; JP7179241 B1; JPWO2022/234852 A5; KR2023/17916 A; TW2023/9064 A; ...

Abstract Index Terms Claims Bibliographic Info Substances (2807) Reactions (1692) Targets Full Text

Index Terms

Reaxys Index Terms: reaction kinetics

Target keywords: GTPase HRas • GTPase NRas • IMP dehydrogenase • Transmembrane prolyl 4-hydroxylase

Substances

Targets

Protein son of sevenless (human, Wild) >
Synonyms: protein son of sevenless

GTPase NRas (Q61L) (human, Mutated) >
Synonyms: gtpase nras (q61l)

GTPase NRas (Q61K) (human, Mutated) >
Synonyms: gtpase nras (q61k)

1 Targets 1 Documents, 2,182 Substances, 1,418 Reactions

0 Limit To Exclude Export Sort alphabetically A-Z > Bioactivity Visualization

Single protein

1 Protein son of sevenless (human, Wild)

Synonyms: protein son of sevenless
Mutant/chimera Details: Wild

Hide target details >

Substances - 2182
Documents - 1 >

Most active substance:

IC50=0.0003 μM