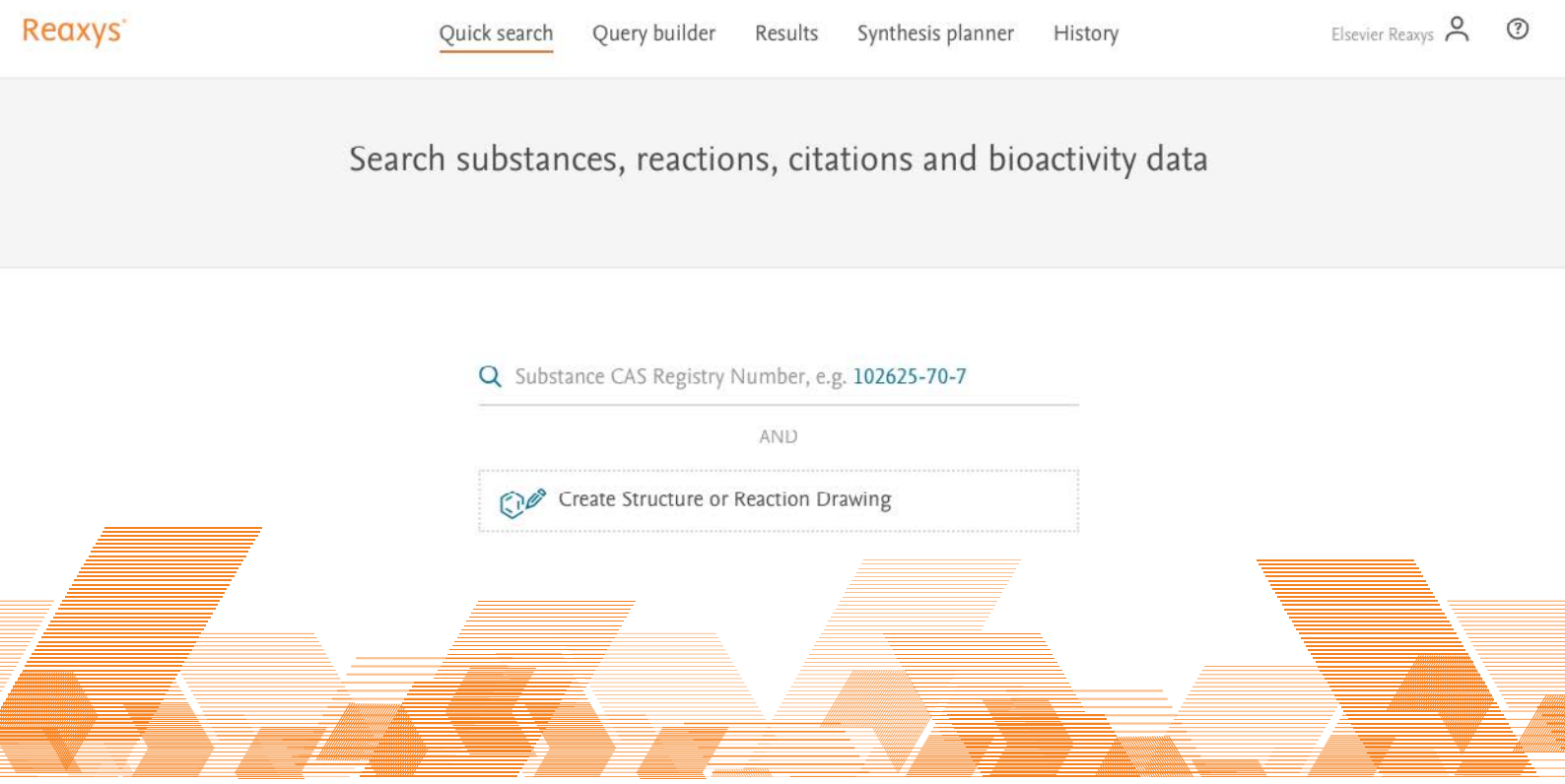
What's new in Reaxys®?

Rapid Access to More Relevant Chemistry Literature and Data



2016 has brought huge changes to Reaxys, our premier solution for chemistry research. All of the new developments are motivated by end user requirements for rapid access to relevant literature and chemical data. We've launched a completely streamlined user interface, increased the content to include more patents and literature, added a new layer of indexing and data excerption, and made changes to facilitate easier integration of Reaxys into existing informatics environments.

A major goal for 2016 has been to ensure that every researcher has the same possibility to use Reaxys like an expert "power user"—even undergraduate students and other beginners. No understanding of database organization or complex search strategies is required: the search interface and result review functionalities are intuitive, using principles that are familiar to any search engine user. It's easier than ever to find relevant literature and critical data points and procedures within it.

The content expansion plan for this year took into account feedback from the research community. In addition to the updates from all the major sources of chemistry information, Reaxys now contains significant content from patents from Asian offices, which are an increasingly important source of unique compounds and much in demand with chemists.

Just adding content is only half of the work: discoverability and usability are major aspects of how Reaxys improves overall productivity in chemistry-related fields. A broader range of content now undergoes indexing and data excerption. In addition, the successful launch of the new application programming interface functions has made it even easier to access Reaxys data within an existing IT environment or workflow.

Improvements in focus

Every Researcher Becomes an Expert User

- The new Reaxys user interface now offers two entry points for searches: Quick Search, which takes natural language or structure inputs or a combination of the two and Query Builder, which enables rapid drag-and-drop construction of advanced searches.
- The Quick Search design is based on very familiar search engine interfaces, but can retrieve very precise answers to literature and data queries thanks to the powerful search algorithms and deep indexing. It accepts Boolean operators and truncations, performs deeper searches of property fields, and has a type-ahead feature to make query phrasing easier.
- The intermediary results page lists the result sets based on all the possible interpretations of the query and enables users to preview them. This helps users see possibilities they might not have considered otherwise.
- Results navigation and analysis are simple with the new user interface, which has been redesigned based on significant amounts of customer feedback about how they prefer to work with literature and data hit sets.

More Compounds from Areas with Significant Chemistry Output

- Patent content has been significantly expanded, with searchable Asian-language patents being added from the Japan, South Korea, China and Taiwan offices. Chemistry is in a stage of incredible growth in Asia, and these patents are an increasingly important source of compounds not available elsewhere: only 2% of patents from Asian offices appear in the WO patents, while the patent content represents over 50% of world output.
- Over 650 thousand new compounds are being added to Reaxys from Asian patents in 2016, which is the same amount as are derived from US, EU and WO patents in one year.
- Over one million new compounds will be added from Asian patents in 2017.

Greater Discoverability from a Broader Range of Content

- Reaxys has significantly extended the range of content used as a source of Index Terms, concepts and compounds to ensure greater coverage of literature and structure searchable compounds. Users will be able to retrieve compound property and reaction data from the full text of more than 15,000 journals as well as from the full range of patent content.
- Literature searching has been made significantly easier, thanks to improved NLP-based recognition of author names and the streamlined Quick Search, which only requires one input to start a literature search.
- This discoverability is further backed by the application of two indexing processes that occur alongside each other: the familiar manual indexing and excerption method applied to the essential journals, patents and textbook chapters; and a novel automatic but human-like indexing process applied to the broader range of chemistry-related periodicals and patents.

Unrivalled Possibilities for Integration into Existing IT Environments and Workflows

- In May 2016, the new application programming interface (API) functions (KNIME nodes and Pipeline Pilot components) were successfully launched. In addition, the way in silico profiling-relevant data is queried and displayed was refined. This particularly benefits chemoinformaticians, medicinal chemists and computational chemists by making it easier to query the Reaxys database through their chosen system and export data to modeling tools.
- In January 2017, the new Heatmap will replace the current version, enabling greatly improved initial assessments of structure–activity and compound–target relationships, supporting the decisions of what to export to modeling tools for further assessment.