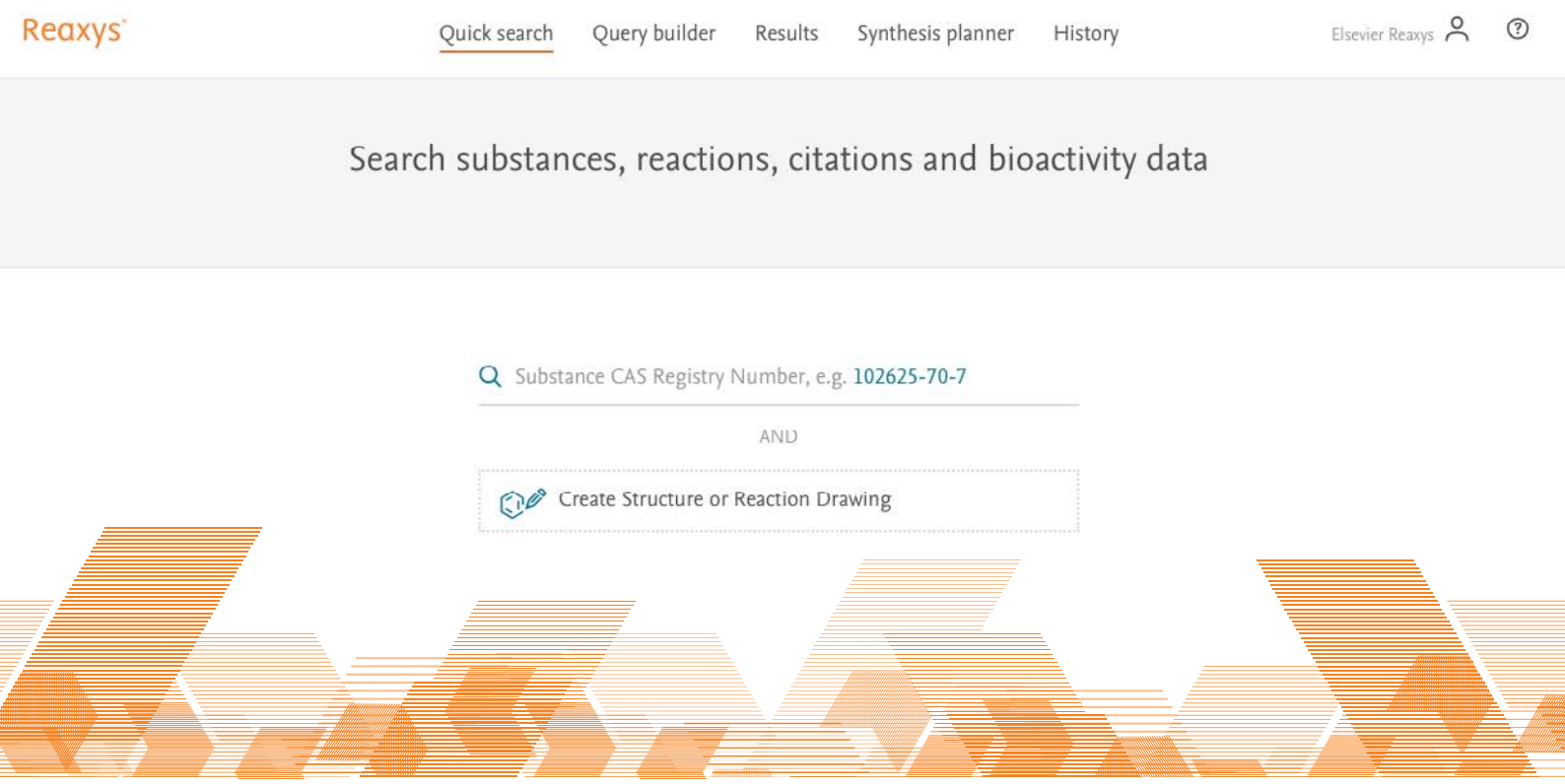
What's new in Reaxys®?

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.

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.

Reaxys now provides an easy-to-use literature search function, which was in much demand with chemists. It enables quick location of relevant publications based on keyword or structure queries.

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 is now also adding 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. Compounds and indexing keywords are now extracted from a much broader range of content to ensure much better coverage. 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.

Improved Literature Searching

- Reaxys literature searches use straightforward keyword- or structure-based queries
- Results are presented in an easy-to-read format with multiple filtering or processing options to help locate the exact article of interest

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. Asian 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.
- Around 350 thousand new compounds are being added to Reaxys from Asian patents in 2016.
- Around 550 thousand 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.
- The familiar deep manual indexing and excerption of compound properties, reactions and synthesis procedures from the core 450 chemistry journals has now been supplemented with a novel rules-based automated content enrichment for over 15,000 chemistry-related periodicals.

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.

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