This release of SciFinder® provides a pathway to finding additional patent information via Markush searching. Other search and usability enhancements include automatic duplicate removal of references via a one-time preference setting, the ability to set weekly or monthly KMP profiles, and search by digital object identifier (DOI).

Finding Information

**Markush Search**

1. This feature allows users to retrieve patent documents containing generic Markush structures relevant to the query structure. Search results are presented as a reference answer set.

Markush searches are run against the MARPAT® database with a predefined set of search parameters that differ in some cases from SciFinder defaults (for example, rings are isolated in Markush searches).

Searches are intended to provide focused answers that can be helpful in a preliminary assessment of the patent landscape.
Markush Search - continued

1. Markush search is an option in Explore Substances and is available to all customers who have the Substructure Search Module (SSM).

2. This feature provides additional access to patent information and is complementary to structure searching in REGISTRY.

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Markush Search - continued

1. Search Tip: To compare the results of a Substructure and Markush search do the following:

   a. Run a substructure search for the structure of interest. Get References for the substance answer set and Refine that answer set by document type to find only patents. Save the resulting reference answer set.

   b. Run a Markush substructure search of the same structure and then use the Combine Answer Sets feature with the Exclude option to find additional patents found only by the Markush search.
DOI Search and Display

1. A Digital Object Identifier (DOI) can now be searched directly via the Document Identifier option in Explore References.

2. If CAS has a DOI for a reference it will be displayed in the bibliographic information for that record.

As a component of the bibliographic detail, DOI information can be saved and exported.

User Preference Setting

Automatic Duplicate Removal

1. A new Preferences setting allows users to automatically remove duplicate references from answer sets of up to 10,000 answers.

The user must select this setting. It is off by default.
Automatic Duplicate Removal - continued

2. If automatic duplicate removal has been set, SciFinder will show you how many answers come from CAplusSM and MEDLINE® and how many duplicates have been removed.

Results Display

Transformation Center Highlighting in Reactions

1. Transformation center highlighting shows the reaction centers of the reactants and products for the get Similar Reactions feature.

2. Once a reaction of interest has been identified, click on the Similar Reactions link.
1. Specify the level of similarity you are interested in. For example, Medium, which shows the reaction center and adjacent atoms and bonds. Then click Get Reactions.

2. The reaction answer set shows the reaction center and the immediately adjacent atoms and bonds.
Working With Answer Sets

Options for Sorting Substance Answer Sets

1. Substance answer sets can also be sorted by Molecular Weight or Molecular Formula, and in ascending or descending order.
Post-Processing

Setting and Managing KMP Profiles

1. The frequency of KMP updates can be set to weekly or monthly.

![Frequency settings](image)

2. The duration of a KMP profile can also be set. The default is one year from the date the profile is established.

![Duration settings](image)

3. Users can renew expiring profiles from the e-mail notification, with options allowing renewal of a single profile or all profiles.

4. KMP alert e-mail messages are more informative and contain hyperlinks for up to the first five new hits for titles and/or substances.