

MARCH 2022

# STN<sup>®</sup> NEWS

## New prior art analysis tool in STNext<sup>®</sup> provides an efficient means to expand search results

Imagine you're searching in CA/CaPlus for prior art to ensure patentability for a patent application your organization is pursuing or investigating the novelty of a patent recently issued to your competitor. During this search, you find a patent that is right on target and would like to efficiently find similar patents.

The Prior Art Analysis tool in STNext helps you efficiently find similar patents to your initial search result in CA/CaPlus. This feature is based on the indexing of the patent your search found and on the indexing created by CAS analysts for other patents and non-patent literature included in the CAS databases. This AI-based predictive functionality helps find additional results that other search strategies might miss.

## Save the date

**PIUG 2022 Annual Conference**  
May 1-4, 2022 | Alexandria, VA  
[Meeting information](#)

To use the new feature, left-click on the basic patent of interest in your CA/CAPLUS record. From the menu, select Get Prior Art Analysis.

The screenshot shows a patent record for 'Novel substituted pyrazolo[1,5-a]-1,3,5-triazine derivatives and their analogs, pharmaceutical compositions containing same, use thereof as medicine and methods for preparing same'. The record includes fields for Inventor Name, Patent Assignee, Accession Number (2021:2208014 CAPLUS), Document Number, Source, and Other Source. A 'PatentPak' dropdown menu is open, showing options for 'Get Prior Art Analysis', 'Full-text options', 'Legal status', 'English language equivalents', and 'Extended patent family information'. A table below lists patent numbers and their corresponding language and PatentPak options.

| PATENT NO.     | Get Prior Art Analysis             | LANGUAGE | PatentPak                |
|----------------|------------------------------------|----------|--------------------------|
| US 20090105261 | Full-text options                  | English  | PDF   PDF+   Interactive |
| FR 2842809     | Legal status                       | French   | PDF                      |
| WO 2004011464  | English language equivalents       | English  | PDF   PDF+   Interactive |
| US 20060106019 | Extended patent family information | English  | PDF   PDF+   Interactive |

STNext generates a prior art results set for the given patent in a new L-number. Review records in this set, and refine your answer set as necessary, using tools such as Analyze to find Controlled Terms, substances, patent assignees, and patent classification codes. Result sets can also provide key insights into new topic areas and reduce the need for manual review and look-up of relevant search terms.

## Derwent World Patents Index® (WPINDEX/WPIDS/WPIX) has been enriched with exciting new features on STNext

On April 3, 2022, Derwent World Patents Index will be reloaded with exciting new features available only in STNext. Existing search strategies are still valid in the new files, and you can benefit from new capabilities like extended content and crossfile SDIs. Key changes include:

- Derwent Chemistry Resource® (DCR) is now a separate structure database with more powerful structure retrieval capabilities and crossover functionality similar to DWPI/DWPI and CAS REGISTRY<sup>SM</sup>/CAPLUS.
- Derwent Patent Citation Index™ (DPCI) is fully integrated and enriches the scope of search capabilities.
- Claims coverage has been extended for major patent authorities.
- SMARTTracker/XFILE SDI – well known from CAS REGISTRY/CAPLUS – is now available. Results cover new and/or updated bibliographic references that match the structure search profile in DCR.

If you would like to learn more, click [here](#).

# PATGENE, GENESEQ™, and USGENE® patent genetic sequence databases reloaded and enhanced

The patent sequence databases GENESEQ (previously DGENE), USGENE, and PATGENE (previously PCTGEN) have been reloaded and modernized. Key enhancements include:

- BLAST and FASTA (GETSIM) searches now have significantly increased speed and performance, including a different workflow to create answer sets with various score values without Batch mode and a new display of similar results. Answer sets can be generated in addition to the percentage score value also, with the percentage identity value or a combination of both.
- BLAST Algorithm now includes 7 search options (3 before reload) to enable more flexibility and specificity in retrieval.
- FASTA Algorithm (RUN GETSIM) has improved usability with input of up to 30,000 characters possible.
- Motif searching (RUN GETSEQ) answer set is now always one L-Number rather than split for more efficient analysis.
- Sequence Identifier has a newly introduced unique hash code for each sequence. Identical sequences have the same hash code in all three databases. This enables the simplification of deduplication of identical sequences across databases.
- Increased number and percentages of amino acids or nucleotides available in new search fields, with the additional option to specify the results from sequence searches.

More information on the changes can be found in the revised Database Summary Sheets for GENESEQ, USGENE, and PATGENE, and in HELP CHANGE within each of the databases.

A sample search can be found [here](#).

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## Biosequences now being covered in CAS PatentPak® to support life sciences researchers

CAS PatentPak is an integrated workflow solution designed to significantly reduce time spent acquiring and searching through full-text patents to find vital insights. While its initial focus was chemistry and small molecules, its coverage is now being expanded to include the locations of biosequences within patents. This expansion will help serve the growing number of life scientists using STNext to accelerate the development of the products of tomorrow.

The coverage expansion takes effect throughout 2022 and will result in comprehensive coverage of the protein and nucleotide sequences in patents going forward. In addition, biosequences identified in patents from earlier years will also be included, as available.

CAS PatentPak is available in H/Z/CAPLUS, as well as in USPATFULL and USPAT2 on STNext. If you don't already have access, contact your CAS representative.

# Searching chemical compounds with fragmentation codes in Derwent World Patents Index subscriber files

An improved version of Fragmentation Code searching has launched in the Derwent World Patents Index (DWPI) subscriber files WPIDS and WPIX. Fragmentation codes are alphanumeric codes representing individual structure fragments generated from a structure drawn in the STNext Structure Editor.

The new implementation is customized for the STNext platform and provides better recall and precision via an improved code generation process. Use Fragmentation Code searching to gain access to the chemical compounds in 530,000 DWPI records without Derwent Chemistry Resource/Derwent Markush Resource indexing.

## To create a FragCode script:

1. Enter either WPIDS or WPIX
2. Draw your structure in the STNext Structure Editor
3. Click the Save As button, and close the Structure Editor
4. From the MyFiles dropdown, the structure you just drew will be the first one in the list. Click on the ellipsis (...) and then click on Generate FragCode script
5. From the Generate FragCode script modal, rename the script (optional), then click the Generate Script button
6. The script runs in STNext. Choose which records to display, continue searching with the file, etc., per your needs

To ensure the best results, please consult the help section of STNext, which also includes a link to best practices. We recommend training, especially for novice searchers, which can be arranged by your CAS representative.

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## Manual codes for Derwent World Patents Index revised for 2022

The Derwent World Patents Index Manual Codes are revised each year to include new codes suggested by customers as well as the patent analysts at Clarivate. For the 2022 revision, 79 new Manual Codes have been added:

- 65 new CPI (Chemical Patents Index) codes
- 14 new codes in the GMPI/EPI (General and Mechanical Patents Index / Electrical Engineering Patents Index) areas.

The new codes allow newly emerging technologies to be indexed in DWPI. Scope note changes for existing codes have also been introduced to increase clarity. Significant revisions and new codes for 2022 include:

- PCR Testing: New code hierarchies - B11-C08N\*; C11-B08N\*, D05-H18\* for PCR testing methodologies and Rapid/Real-time testing
- Geophysical muon imaging, using naturally occurring muons for imaging/mapping: S03-C02M
- Mixed reality systems merging real-world and virtual world environments: T01-J40D
- 6G mobile communication: W02-C03C1M
- Electric vehicle safety systems:
  - X21-A05A1 - Passenger and pedestrian protection
  - X21-A05A2 – External/Internal view cameras
  - X21-A05A3 – Horns/noise generators
  - X21-A05A5 – Anti-collision/parking systems

Full lists of the new and revised codes can be viewed [here](#).



# MEDLINE® reloaded and MeSH thesaurus updated for 2022 on STNext

The 2022 MEDLINE reload on STNext was completed on February 27, 2022. Records received from MEDLINE with updated indexing are now available in the file. No new fields were introduced in this reload. MEDLINE records included within Toxcenter were also updated, and MEDLINE terminology used in indexing of diseases in BIOSIS also was made current.

Prior to the reload, the 2022 MeSH thesaurus was made available within MEDLINE. The annual MeSH update provides access to the latest terminology in biomedicine and is a tremendous resource for online searchers, along with the CAS Lexicon and Embase's Emtree thesaurus.

The updated MeSH contains 30,194 main headings, including 277 new headings. Some of the topics covered by the new headings include COVID-19 related terms, terminology for other diseases, population groups, and social determinants of health. To see a list of the new terms with their scope notes, click [here](#).

If you are running Alerts (SDIs) in MEDLINE, we recommend reviewing them to see if the terminology in them should be expanded or replaced, based on the introduction of the new MeSH.

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## Expansion of claims in CA/CAplus now includes Germany, the United Kingdom, and Russia

During 2022, the availability of Claims data in CA/CAplus patent records will continue to expand. We expect to add four additional authorities per quarter, simplifying your access to Claims data from key patent authorities.

The most recent addition makes Claims data available for these authorities:

| Authority          | Coverage Begins in Year | Volume of Patents with Claims (03/2022) |
|--------------------|-------------------------|---|
| Germany (DE)       | 1997                    | 397K                                    |
| Great Britain (GB) | 1927                    | 74K                                     |
| Russia (RS)        | 1994                    | 276K                                    |

Other authorities whose Claims are already provided in CAplus are China (CN), the EPO (EP), Japan (JP), Korea (KR), USPTO (US), and WIPO (WO).

# January 2022 update to Emtree® now available on STNext

The latest version of the Emtree thesaurus launched in Embase on STNext on January 29, 2022. Emtree remains a great resource for the latest terminology in biomedicine, pharmacology, and medical devices.

The latest Emtree version adds 261 new drug terms and 1,241 non-drug terms, including 21 new medical device terms. The thesaurus now contains about 92,278 preferred terms and nearly 500,000 synonyms.

Highlights of the new version include:

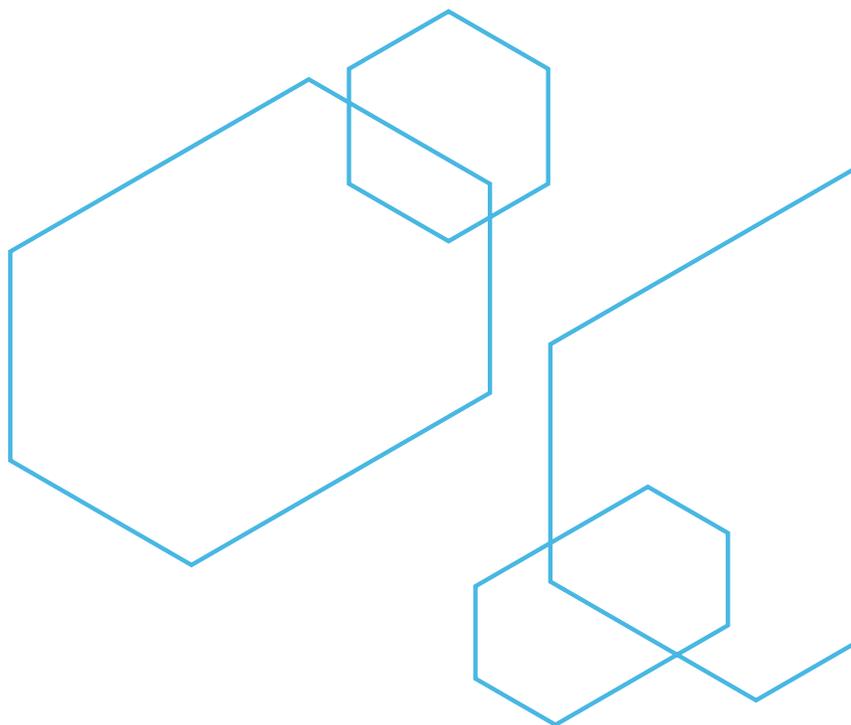
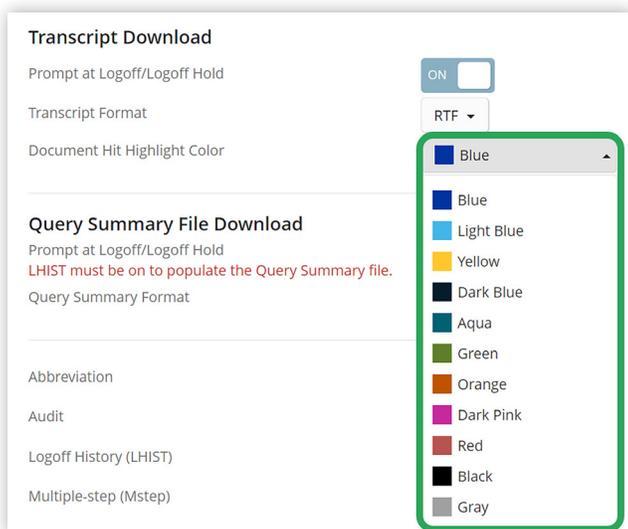
- The incorporation of terms introduced in the 2022 MeSH
- Expanded terminology related to COVID-19, including brand names and trade names of vaccines and therapeutics launched and/or under development
- A thorough revision to the Neoplasm hierarchy

Customers running Alerts in Embase are encouraged to review the latest additions and changes to Emtree to determine whether their search strategies should be updated to ensure continued comprehensive retrieval. A repository of Emtree Release Notes, as well as lists of Added and Changed Emtree terms, can be found [here](#).

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## Transcript highlighting now available in STNext

In addition to highlighting in reports, STNext now supports text hit highlighting in Transcripts.



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From new users to expert searchers, at all stages of your innovation journey, CAS has the solution to meet your scientific IP needs.

- STNext®: The premier IP information platform and the choice of patent experts
- CAS Scientific Patent Explorer: A specialized and easy-to-use solution for scientists and IP professionals
- CAS Search Guard<sup>SM</sup>: Expanded capacity and trusted experience when you need it most
- FIZ PatMon: Efficient monitoring and global IP protection

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## Experienced STN searchers are switching to STNext

STNext is the world's premier solution for scientific, technical, and IP research:

- Exclusive databases and content, including CAS Biosequences and CAS Formulations
- Save time with the Prior Art Analysis tool and improved CAS Lexicon interface
- Modern browser-based interface allows users immediate access to the latest features and functionality

91% of surveyed users would recommend STNext to colleagues<sup>1</sup>. [Log in](#) to STNext with your standard STN credentials and see for yourself.

<sup>1</sup>TechValidate, TVID: AEC-23A-065

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