



CAS STNNext[®] E-Seminar

PLATFORM AND DATABASE ENHANCEMENTS

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CAS STNext application and interface enhancements

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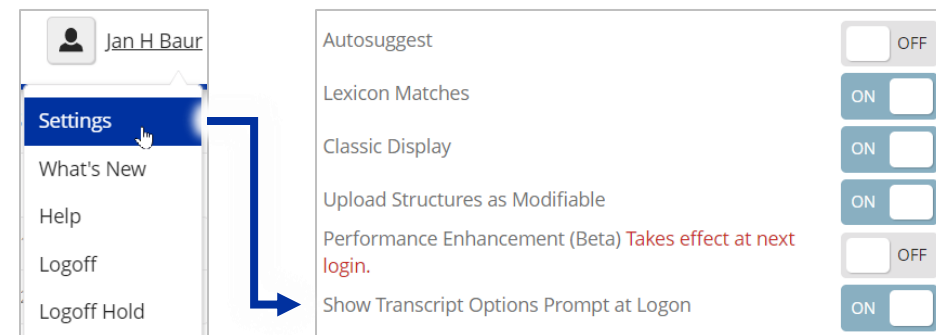
Content and database enhancements

New Transcript Naming Options

Turn prompt on in settings

With a logon, the system will provide transcript options:

- 1 Start a new transcript (ability to name it there)
- 2 Append an existing transcript



The image shows a user profile menu for 'Jan H Baur' with options: Settings, What's New, Help, Logoff, and Logoff Hold. A blue arrow points from the 'Settings' option to a settings panel. The settings panel includes: Autosuggest (OFF), Lexicon Matches (ON), Classic Display (ON), Upload Structures as Modifiable (ON), Performance Enhancement (Beta) Takes effect at next login. (OFF), and Show Transcript Options Prompt at Logon (ON).

1

Transcript Options

Start a new Transcript

2022_0081_Transcript

The name cannot exceed 50 characters or contain: <> : * / \ | ? *

Append an existing Transcript

Continue

Transcript Options

Start a new Transcript

October coffee lecture example

The name cannot exceed 50 characters or contain: <> : * / \ | ? *

Append an existing Transcript

Continue

2

Transcript Options

Start a new Transcript

2022_0081_Transcript

The name cannot exceed 50 characters or contain: <> : * / \ | ? *

Append an existing Transcript

Continue

Select Transcript

Search Files by Name

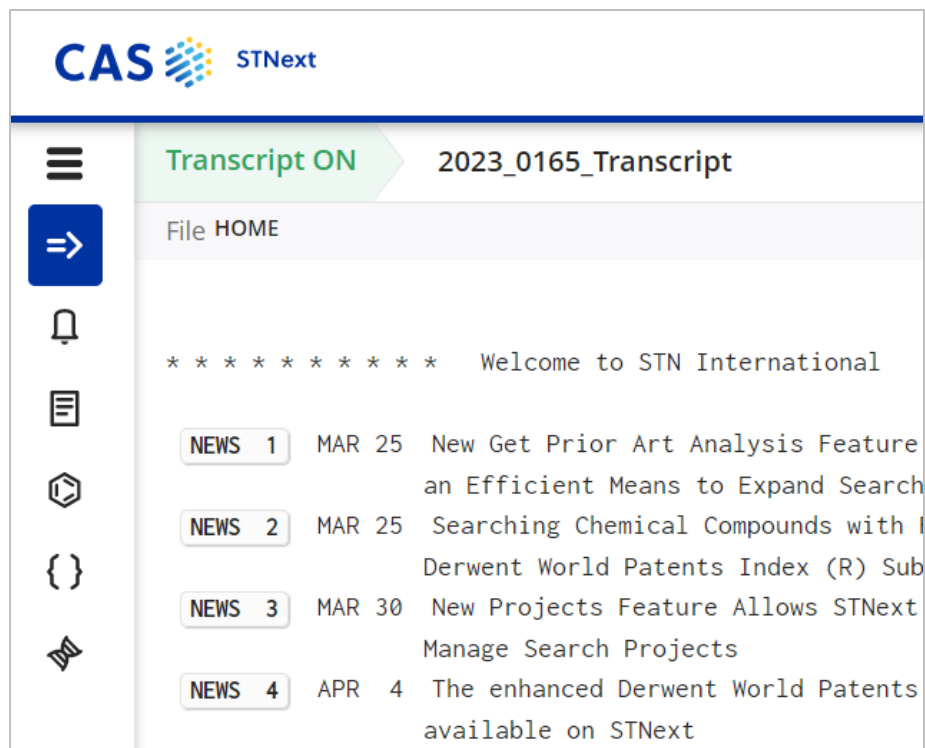
Sort: Date Modified: Newest ▾

Name	Date Modified
October 2022 coffee lecture	22 Sep 2022 5:34 AM
Polymer indexing	21 Sep 2022 5:53 AM

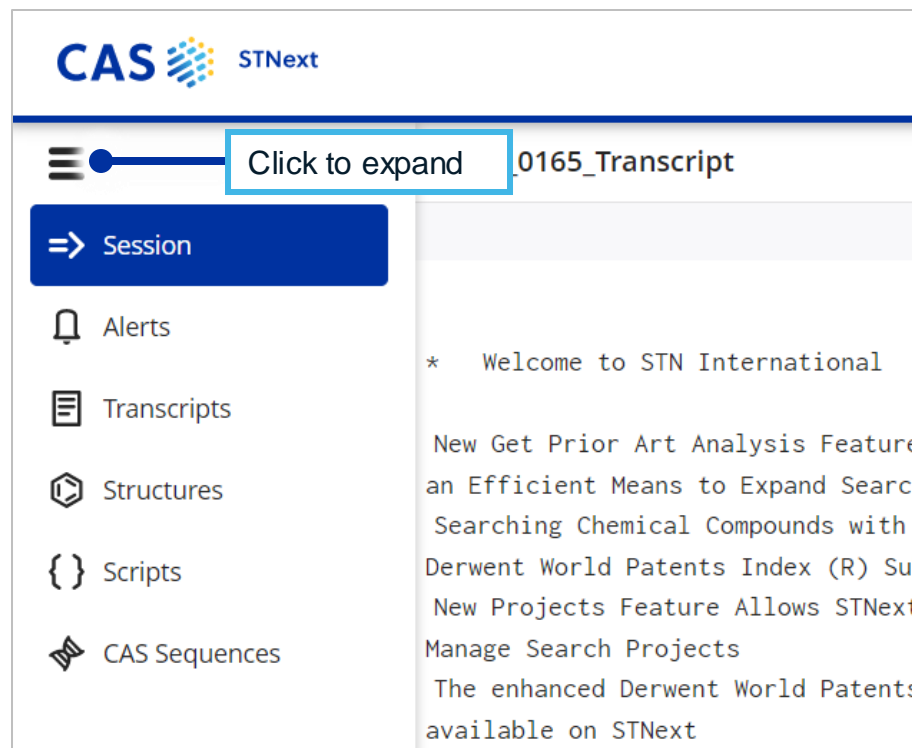
Sidebar Navigation Icons

Shortcut icons to different sections in STNext

Provides greater visibility and access for key features and functions:



The screenshot shows the STNext interface with a sidebar on the left. The sidebar contains several navigation icons: a hamburger menu, a right-pointing arrow, a bell, a list icon, a hexagon, a code block, and a flag. The main content area displays a transcript titled "2023_0165_Transcript" with a "Transcript ON" indicator. Below the transcript, there is a "File HOME" section and a "Welcome to STN International" message. A list of news items is visible, including "New Get Prior Art Analysis Feature an Efficient Means to Expand Search" and "Searching Chemical Compounds with I".



The screenshot shows the STNext interface with the sidebar expanded. A blue box highlights the text "Click to expand" next to the hamburger menu icon. The sidebar now displays a list of navigation options: "Session", "Alerts", "Transcripts", "Structures", "Scripts", and "CAS Sequences". The main content area is the same as in the previous screenshot, showing the transcript and news items.

Type Ahead Function Now Available

Further commands can be typed while current command is processed

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 11 or 12
```

```
      2461 L1
      2772 L2
L3    4040 L1 OR L2
```

```
=> analyze 13 ct 1-
```

ANALYZE IS APPROXIMATELY 50% COMPLETE

Tooltip:
=> d 1-20
=> s 13 and pac/r1

^ => *enter command* [Break] [Submit] [Draw] [Scripts]

Option to Disable Lexicon Suggestions

Additional setting to see if terms would match a CAS Lexicon term

[← Return to Session](#)

Settings

Autosuggest OFF

Lexicon Matches ON

Classic Display ON

Tags for Claimed substances now available in selected patents.
See NEWS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> Lexicon Matches [Cycloaddition catalysts](#) [Cycloaddition](#) [Catalysts](#)

^ => s cycloaddition catalysts|

Projects Tab

Organize multiple file types into custom-named groupings

- Projects contain pointers to the files that are saved on the specific My Files pages (e.g., structures, scripts, etc.)
- Modifying a file affects any project(s) that point to it

History | **Project** | CAS Lexicon | Databases

New Project | Open Project

Recent Projects	Last Modified
rotigotine transdermal patch	04 MAY 2022
crosslinking agent update	05 APR 2022
Carboxylated nitrile butadiene rubber	29 MAR 2022
hyaluronic acid_CApus DWPI	25 MAR 2022

crosslinking agent update | Edit | More

Files | Transcripts

Sort: Date Modified: Newest

- example coordination compound
- { } crosslinking_CT search strategy
- crosslinking 6066-82-6 NHS
- crosslinking 22572-40-3 EDCM

crosslinking agent update | Edit | More

Files | **Transcripts**

Sort: Date Modified: Newest

- 20220502_update search currently active
- 20220329_crosslinking agent_multiple indexed
- 20220329_crosslinking agent diphenyl phosphorylazid

Structure editor enhancements

CASDraw editor toolbars can be attached to editor window

Updated Structure Editor user interface allowing for floating or attached toolbars

The image illustrates the process of attaching toolbars to the Structure Editor window. On the left, a settings menu for 'Jan H Baur' is shown with the 'Settings' option selected. Below it, the 'Structure Editor Toolbars' section has a dropdown menu set to 'Attached'. A blue arrow points from this menu to the right, where the 'Structure Editor' window is shown. The window's toolbar is now attached to the left side of the editor area. A blue box with the text 'Toolbars are attached' has arrows pointing to the left toolbar and the right side of the editor window. The editor window includes a search bar for CAS Registry Numbers, SMILES, or InChI, a drawing toolbar with icons for drawing and editing, a molecular formula input field containing 'c', a zoom slider set to 100%, and a keyboard layout with buttons for C, H, O, S, N, P, Cl, Si, and various ring structures.

Improved Reporting

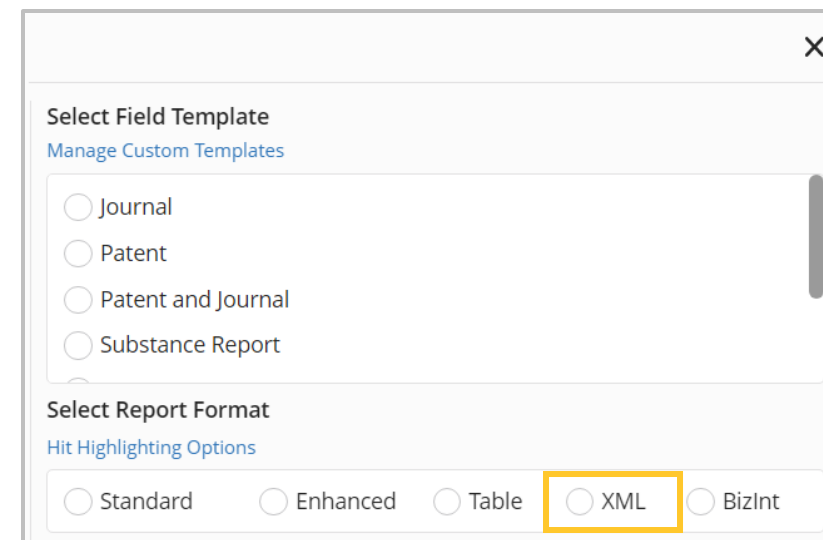
XML output format for reports

- The system generates and downloads a .zip file containing a .xml file with image extensions for the corresponding report content

- If using a standard template, the .zip / .xml file are assigned a system name in the following format:

[YEARMONTHDAY][TEMPLATE]REPORT.zip (.xml)

- From a custom template, .zip / .xml keeps the name of the custom template. E.g.: “MyCustomTemplate” template → MyCustomTemplate.zip (.xml)

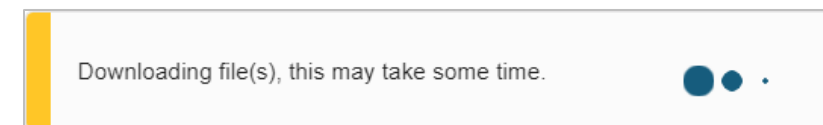


Select Field Template
[Manage Custom Templates](#)

Journal
 Patent
 Patent and Journal
 Substance Report

Select Report Format
[Hit Highlighting Options](#)

Standard Enhanced Table XML BizInt



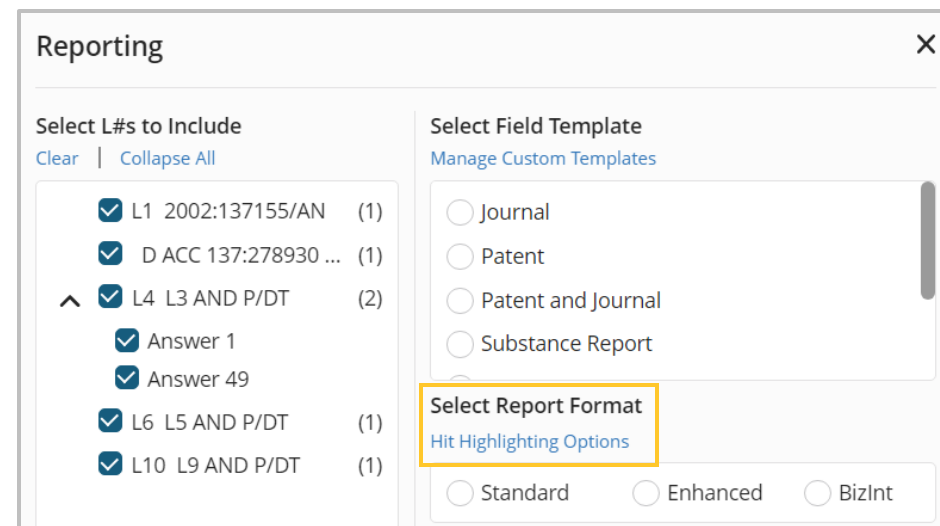
Hit Highlighting in Reports

Hit Highlighting now has options

- Highlight both text and structure information
- Hit Structure/Index Terms with Structures field now appears in the report/table

The options are found in *Select Report Format*

- Note: there are no style options for XML reports.
- Options on the active tab will be saved as sticky



The screenshot shows a 'Reporting' dialog box with two main sections: 'Select L#s to Include' and 'Select Field Template'. The 'Select L#s to Include' section has a 'Clear' button and a 'Collapse All' link. It contains a list of items with checkboxes and counts: L1 2002:137155/AN (1), D ACC 137:278930 ... (1), L4 L3 AND P/DT (2), Answer 1, Answer 49, L6 L5 AND P/DT (1), and L10 L9 AND P/DT (1). The 'Select Field Template' section has a 'Manage Custom Templates' link and radio buttons for Journal, Patent, Patent and Journal, and Substance Report. A yellow box highlights the 'Select Report Format' section, which contains a link for 'Hit Highlighting Options' and three radio buttons: Standard, Enhanced, and BizInt.

Combine Patent Number and Kind Code in Excel Table Reports

Patent number kind codes have new options in Table reporting:

Select Report Format
[Hit Highlighting Options](#)

Standard Enhanced Table XML BizInt

Split subfields into columns ⓘ

Merge patents into one row ⓘ

Combine Patent Number and Kind Code ⓘ

Merge patents into one row

If selected, patents will be merged into one row:

Selected

US2020111222
US2020333444

Unselected

US2020111222
US2020333444

The following fields can be merged or unmerged:

- Patent Information
- Priority Application Information
- PatentPak Information
- Patent Status Patent Information

Combine Patent Number and Kind Code

If selected, Patent Number and Kind Code will be combined into a single value:

Selected

US2020111222A1

Unselected

US2020111222	A1
--------------	----

This option applies to the following fields:

- Patent Information
- PatentPak Information
- Patent Status Patent Information

Combine Patent Number and Kind Code in Excel Table Reports

Patent number kind codes have new options in Table reporting:

- **Merge patents into one row:** If this option is selected, all patent information associated with a record appears in a single cell within their respective columns/fields
- **Combine Patent Number and Kind Code:** If this option is selected, each Patent Number and its corresponding Kind Code associated with a record appears in a cell together
- If **both options are checked**, then patent numbers and kind codes are displayed together in one cell.

Fields/columns containing hyperlinked data are NOT merged.

These options are available for all databases where PI, PRAI, PSPI, PPPI fields/information is present: CAPLUS, MARPAT, DWPI, INPAFAMDB, INPADOCDB, WPIX, WPIDS, WPINDEX, etc.

Patent Number	Kind Code
WO22222222222222	A1
WO33333333333333	A1
WO44444444444444	A1


Patent Number/Kind Code
WO22222222222222 A1
WO33333333333333 A1
WO44444444444444 A1

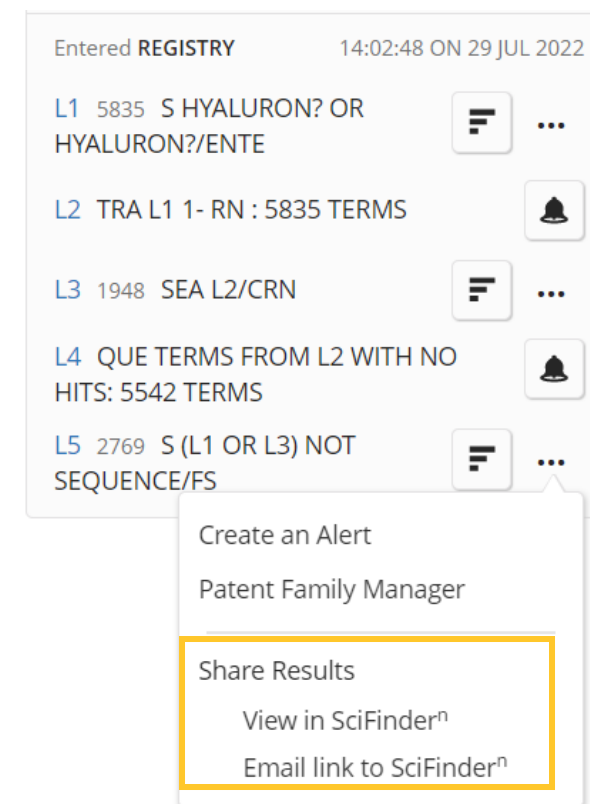
Patent Number/Kind Code
WO22222222222222 A1
WO33333333333333 A1
WO44444444444444 A1

CAS STNext / CAS SciFinderⁿ Interoperability


The first of several planned CAS product integrations


CAS STNext users may now visualize CAS STNext answer sets in CAS SciFinderⁿ


- Available in the CPlus, MEDLINE, and CAS REGISTRY[®] databases.
- Two options: **View in SciFinderⁿ** and **Email link to SciFinderⁿ**
- The crossover options are accessed via  on the History tab.
- Crossover is based on database-specific identifiers, i.e., AN for CPlus, Medline's document number and the CAS Registry Number[®] for Registry





Entered REGISTRY 14:02:48 ON 29 JUL 2022

L1 5835 S HYALURON? OR HYALURON?/ENTE  ...

L2 TRA L1 1- RN : 5835 TERMS 

L3 1948 SEA L2/CRN  ...

L4 QUE TERMS FROM L2 WITH NO HITS: 5542 TERMS 

L5 2769 S (L1 OR L3) NOT SEQUENCE/FS  ...

Create an Alert

Patent Family Manager

Share Results

View in SciFinderⁿ

Email link to SciFinderⁿ

CAS STNnext / CAS SciFinderⁿ Interoperability

View in SciFinderⁿ

SciFinderⁿ

Select Answers

This action is limited to 10,000 answers per request. Please indicate which answers you would like to include.

For non-subscription accounts, there will be a transactional charge per answer. Please see HELP COST for details.

Select Answers

Continue Cancel

Exporting Answers To SciFinderⁿ

Success! Answers are ready for export.

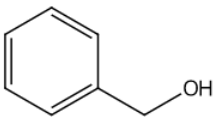
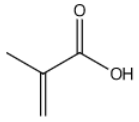
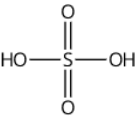
Open SciFinderⁿ Cancel

Substances

References Reactions Suppliers

Filtering: Substance Class: Polymer

2,298 Results Sort: Number of References: Descending View: Partial

<p>9004-61-9</p> <p>Image Not Available</p> <p>Unspecified Hyaluronic acid</p> <p>72K References 1,536 Reactions 57 Suppliers</p>	<p>9067-32-7</p> <p>Image Not Available</p> <p>Unspecified Sodium hyaluronate</p> <p>16K References 630 Reactions 153 Suppliers</p>	<p>31799-91-4</p> <p>Image Not Available</p> <p>Unspecified Potassium hyaluronate</p> <p>408 References 5 Reactions 18 Suppliers</p>
<p>111744-92-4</p> <p>Image Not Available</p>  <p>C₇H₈O_xUnspecified Components: 2 Phenylmethyl hyaluronate</p>	<p>823213-32-7</p> <p>Image Not Available</p>  <p>C₄H₆O₂.xUnspecified Components: 2 Hyaluronic acid methacrylate</p>	<p>95507-66-7</p> <p>Image Not Available</p>  <p>H₂O₄S.xUnspecified Components: 2 Sulfated hyaluronic acid</p>

New Alert Options

- Name can be assigned using the Alert Settings window
- If left blank, the system assigns an auto-generated name
- If RSS or Email is selected as delivery option, an email address must be entered in the “Delivery to” field.

Alert Settings

Title *
Covid-19 update

Name ⓘ
cov19 /S

Method of delivery ⓘ
EMAIL

Expires
MM/DD/YYYY

Eliminate previously seen answers ON

Highlight hit terms ON

Send alerts with no answers OFF

Delivery notification OFF

Cost center
NONE

Delivery to * (separate with comma)
jbaur@acs-i.org

Database settings

Database	Print format	Frequency	Update field code
CAPLUS	bib	Weekly	UP

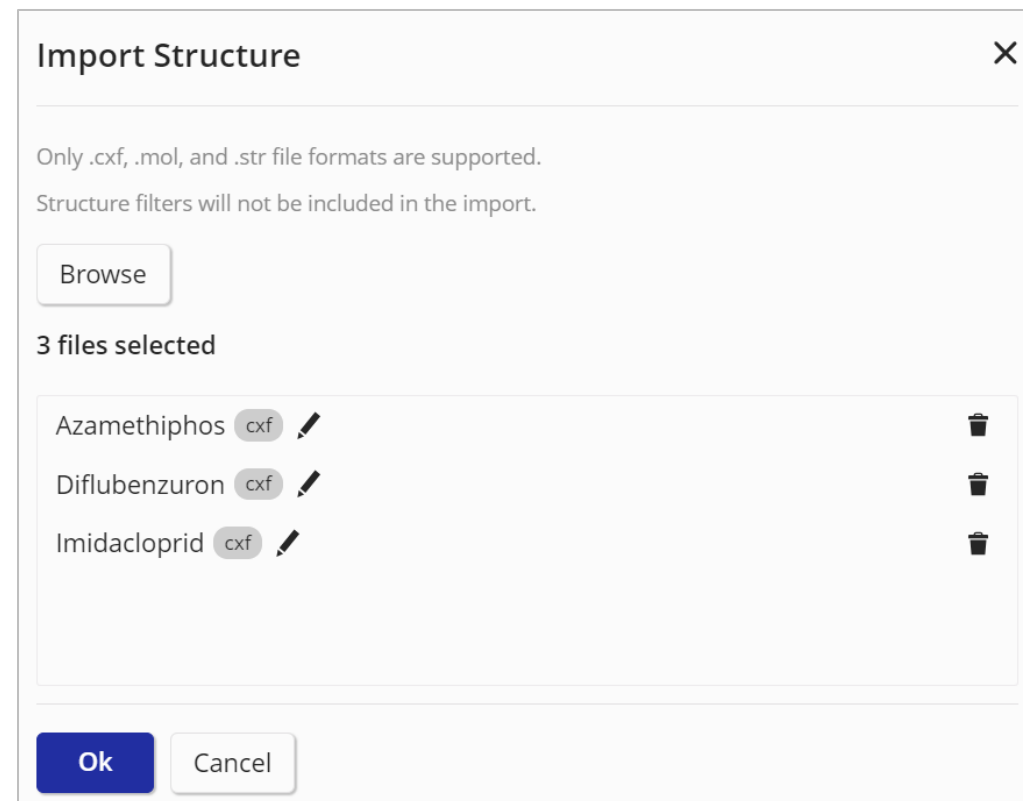
[Advanced](#)

File Import Window Redesign

For Structures, Sequences and Scripts

Provides more visibility and flexibility for importing files:

- Importing up to **10 files** simultaneously
- **Interactive list** of selected files:
 - Edit file names
 - Add/remove files to be imported
- Overwrite file functionality:
 - “File name already exists in this location” messaging appears when a duplicate name occurs
 - If left blank, the system assigns an auto-generated name



National Register Links

Available in CAS STNext patent databases

- Appears in the ① patent number drop-down menu
- Selecting ② *Register Links* in submenu:
 - Depending on what the patent office allows, selecting ③ Register either opens the distinct **register entry** of the patent application or **patent office webpage** in a new tab
 - For some countries, an additional link, either to the IP5 Global Dossier (CN, JP, KR, US, and WO) or to EPO's Federated Register is available

In DWPI, register links are available from application details (ADT). Type **HELP REGISTER** to learn more.

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2022 ACS on STN
AN 2018:2184708 CAPLUS Full-text
DN 169:528535
TI Adsorbent zeolite-containing for the selective separation of isomers from aromatic hydrocarbon mixtures
IN Reitmeier, Stephan J.
PA Clariant International
PI

PATENT NO. DATE

WO 2018206417	20180504
DE 102017207817	20170509
CN 110621396	20180504
EP 3621727	20180504
US 20200055019	20191031

Get Prior Art Analysis
Full-text options
Legal status
Register Links
English language equivalents
Extended patent family information

← DE 102017207817 menu
Register Links
Register ③

Register information Patent
DE file number : 10 2017 207 817.0 (Status: not pending/lapsed, Query started: October 25, 2022)
Please note: This English version is a non-binding translation of the German register excerpt. Only the German version of the register is authoritative.

MASTER DATA			
INID	Criterion	Field	Content
	Type of IP right	SART	Patent
	Status	ST	Not pending/lapsed

Request for examination effectively filed May 9, 2017

National Register Links in Transcripts and Reports

Select options in CAS STNext settings

National office (Register) and Interactive Claims Viewer hyperlinks can be included in transcript and report exports:

Settings

Transcript Download

Prompt at Logoff/Logoff Hold

Transcript Format

Document Hit Highlight Color

Include Link Information Table

PATENT FAMILY INFORMATION

+----- Publications -----+			+----- Applications -----+			+- STI --+
CN 115357816	A	20221118	CN 2022-10533886	A	20220517	A
EP 4092997	A1	20221123	EP 2022-173718	A	20220517	A

+----- Priorities -----+		
US 2021-63189666	P	20210517
US 2021-63197224	P	20210604
US 2022-17744599	A	20220513

LINK INFORMATION			
PUBLICATIONS	APPLICATIONS	REGISTER	CLAIMS VIEWER
CN 115357816 A	CN 2022-10533886	Register	
EP 4092997 A1	EP 2022-173718	Register Federated Reg. Claims	

Interactive Claim Viewer

Quick overview of relations between different claims

- Available for EPFULL, PCTFULL and JPFULL
- A **graphical claims** tree depicting the relationships between independent and dependent claims
- Claim texts are available for each claim on the right panel

AG	Isarpatent, Patent- und Rechtsanwaelte Barth Cha
AGN	Partner mbB
LAF	Korean
LA	English
DT	Patent; (Fu1
PI	EP 4099751
DS	R: AL AT BE LV MC MK

- Full-text options
- Legal status
- Claims Viewer**
- Register Links
- English language equivalents
- Extended patent family information

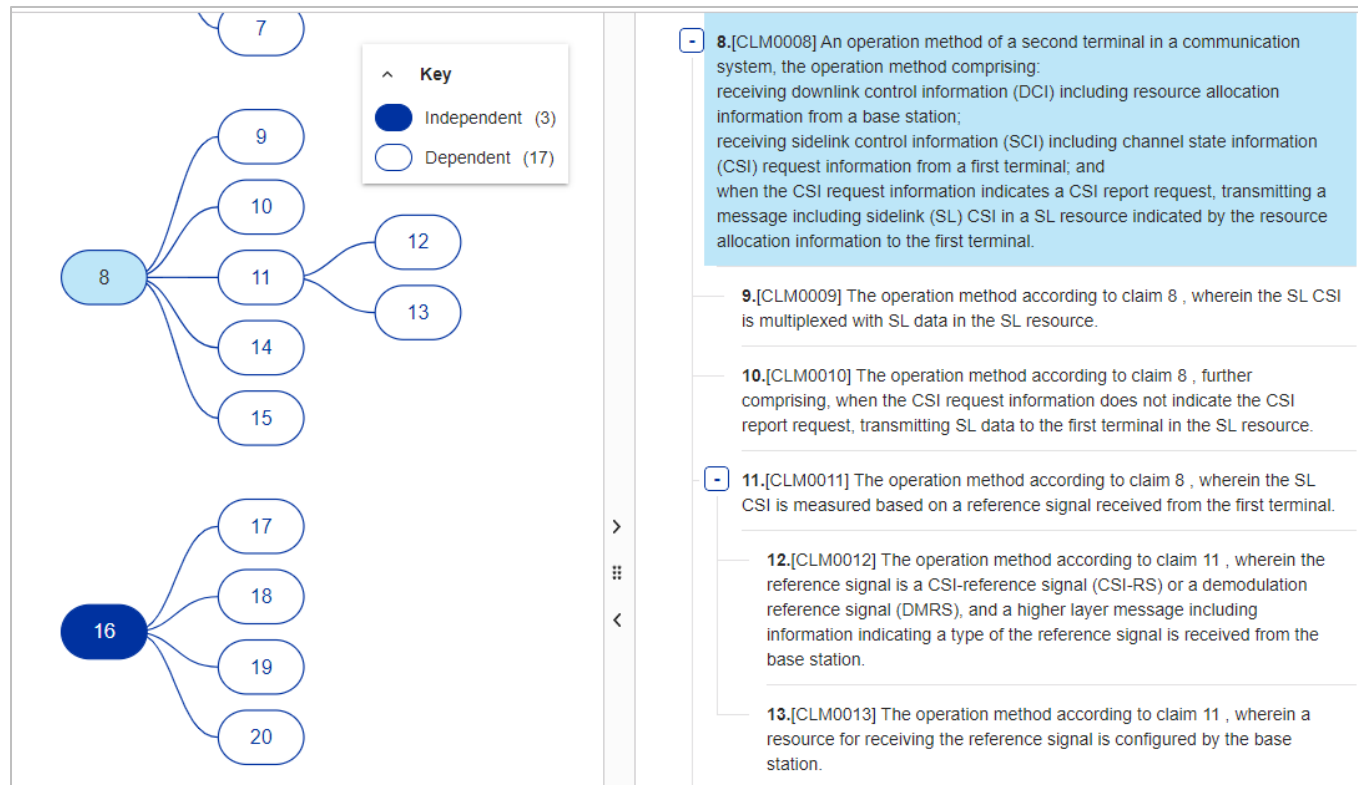


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CAS STNext application and interface enhancements

Content and database enhancements

- The Derwent™ reload
- Further databases enhancements
- Unitary Patent
- Claims tagging in PatentPak
- CAS Sequences
- Prior Art Analysis
- Patent Status Events
- Patent Claims in CAplus
- CAplus authority coverage expansion
- Ultimate Owner
- CNFULL Reload
- Claim Groups

Derwent Databases Reload

on CAS STNext in 2022

Derwent World Patents Index[®] has been reloaded with additional content

- Derwent Patents Citation Index[™] data
- Extended claims coverage

Derwent Chemistry Resource[®] (DCR) is now a standalone database

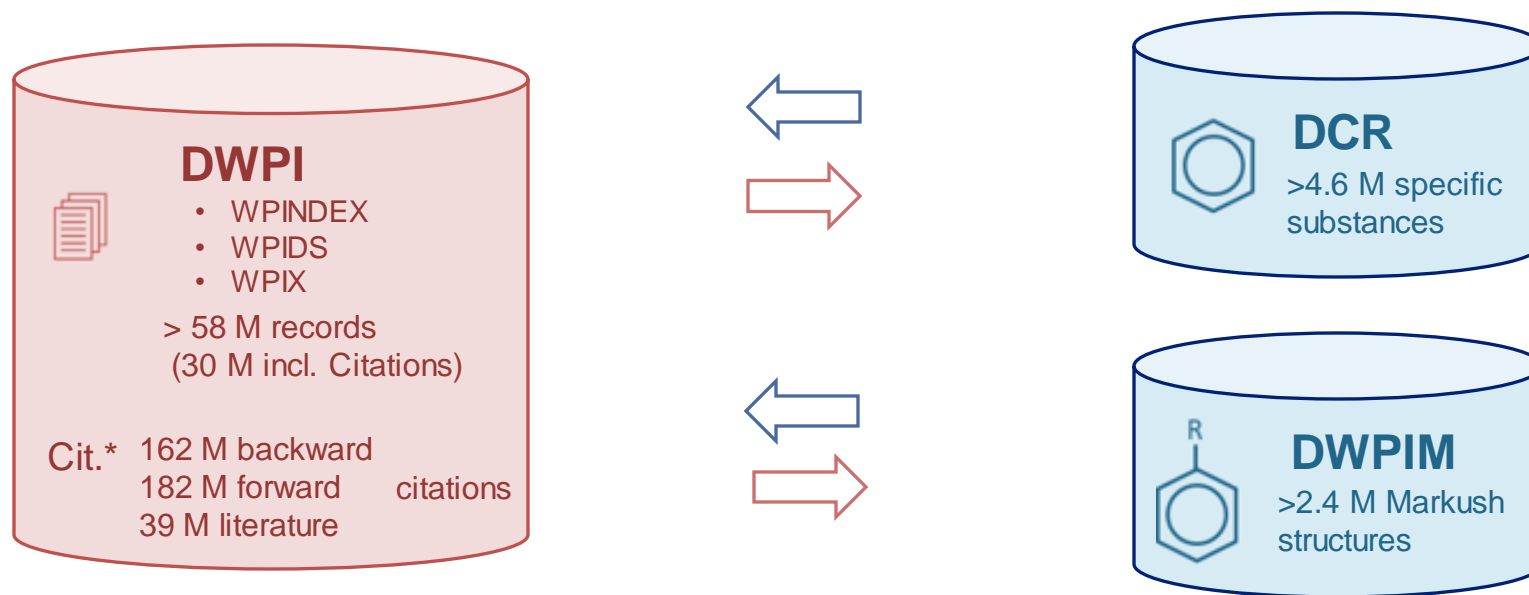
- Highlighting available
- Improved display for larger structures
- SMARTTracker capabilities

GENESEQ (formerly DGENE)

- Additional search options and content enhancements (similar updates in USGENE, PATGENE)

DCR file segment converted into a self-contained file, DPCI file added to DWPI

Current implementation

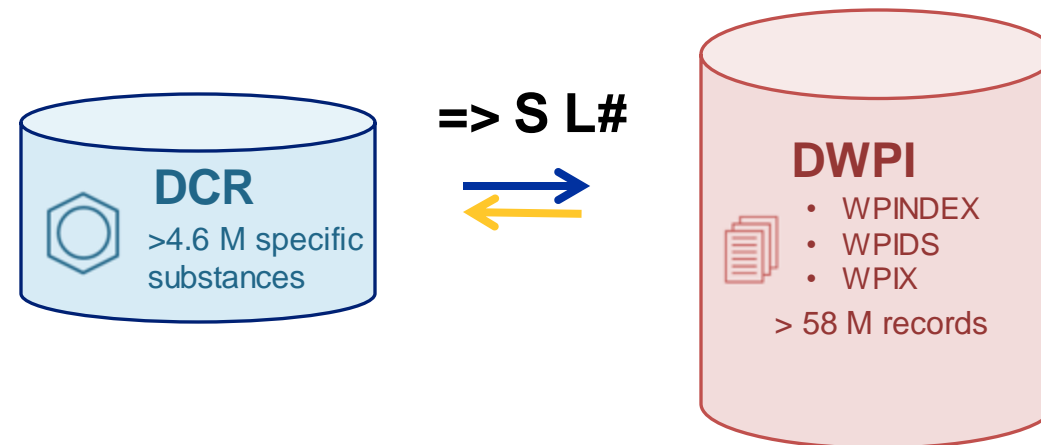


* formerly **DPCI**

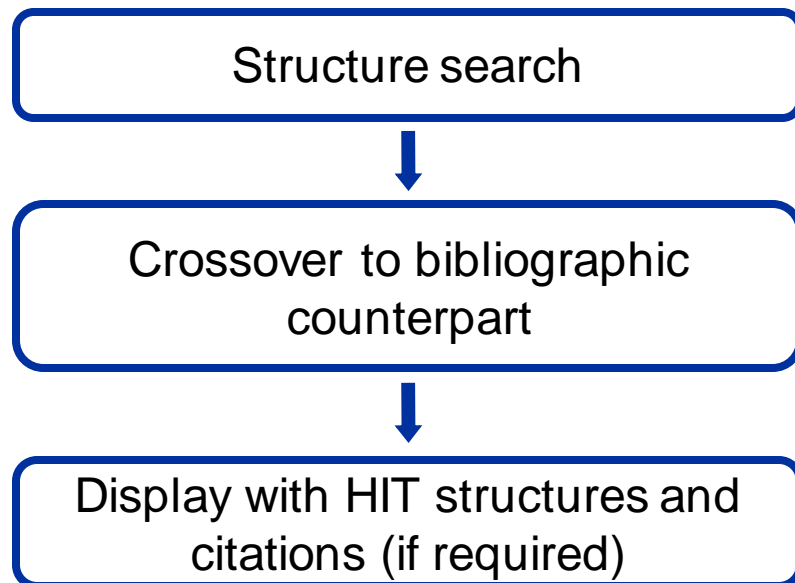
The New DCR Database on CAS STNNext

Highlights

- Consistent workflow with other substance/bibliographic databases on STNNext
- HIT structure highlighting
- Higher system limits for structure searching
- Enhanced structure displays
- SMARTracker crossfile SDI with WPINDEX/WPIX/WPIDS



Consistent Workflow Across all STN Structure Files

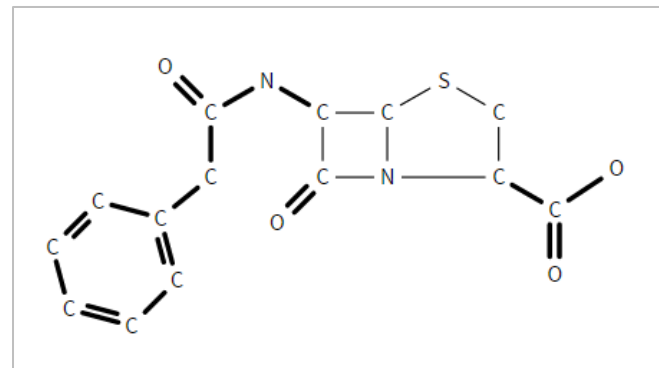


Chemical substance searching and crossover to associated database is consistent for STN database pairs:

Registry – CAplus

DCR/DWPIM – DWPI

ReaxysFileBib – ReaxysFileSub



=> FIL DCR

L1 STRUCTURE UPLOADED

=> S L1 SSS FUL

L2 203 SEA SSS FUL L1

=> FIL WPINDEX (WPIDS/WPIX)

=> S L2

L3 8274 L2

=> D BIB AB TECH HITSTR

Enhancements to the DWPI Content

Highlights

New role field /RL

- Has been introduced to simplify role searching for substances

New search option for fragmentation codes

- To search compounds which have unique frag code indexing

Extended claims coverage

- To include **all** claims for more than **20** patent authorities

Enhanced search options

- Claims searching with more precision and more focussed HIT displays

Consolidated implementation for update codes

- Backfile data are kept from the old DWPI, e.g. for ED, UP and UPP

Recent INPADOC Enhancements

Coverage of documents from Ukraine (UA) has been extended

- 61,000 records added mostly from the years 1993 - 2005

EP and JP Appeal data added to INPADOCDB and INPAFAMDB

- EP: 55 legal status codes (since 1996)
- JP: 49 legal status codes (since 2009)

EP *intention to grant* data from the European Patent Register added

- 21 new legal event codes related to the *intention to grant* of EP applications
- New *intention to grant* data is available about two weeks after publication

Update and Patent Coverage in ReaxysFile Databases

For the first time ReaxysFile Databases contain > 100 million documents

- Increase of chemistry patent records (> 35 million) over the last years
- Multiple records from same patent family
- Substance data from > 49 million substances and > 60 million reactions

Patent coverage from 26 patent authorities (US, DE, FR, GB, JP, CH, SU, BE, NL, DD, ZA, AT, HU, CA, IT, PL, SE, RU, ES, NO, CZ, IN, DK, FI, IL, YU)

In-depth patent information for major patent authorities

- English language patents from US/EP/WO from 1976
- Asian patents of JP/KR from 2015 and CN/TW from 2016

Multifile Search with e.g. CPlus, DWPI: commands FSORT, DUPLICATE are available

Updates on Thesauri in CAS STNext

Incorporation and Adjustment of terms and codes

- 1) Updated MeSH (Medical Subject Headings) in **MEDLINE** and Emtree in **EMBASE** for terminology in the area of biomedicine, pharmacology and medical devices
 - New headings added in MESH e.g. on Post-Acute COVID-19 Syndrome
 - New drug, non-drug terms and medical device trade names were added in Emtree e.g. on *tumors and neoplasms*, and *COVID-19* terminology was updated.
- 2) Revised Manual Codes in **DWPI**
 - New Manual Codes e.g. in solid-state batteries, extension of section *vaccines adjuvants*, additional subdivisions on *cell therapies*

More information on added or changed terms/codes in **CAS STNext Help** and links

If you run Alerts (SDIs) in the respective databases,
we recommend reviewing the used terminology/codes!

Unitary Patent in CAS STNext

In CAplus, DWPI, INPADOCDB/INPAFAMDB, and EPFULL

The **EP unitary patent** is an extension of the European patent system that **centralizes the post-grant procedure**. The unitary patent is in effect since June 1, 2023.

- The unitary patent is currently valid in 17 member states of the European Union: AT, BE, BG, DK, EE, FI, FR, DE, IT, LV, LT, LU, MT, NL, PT, SI, SE (08/2023).
- Advantages of the Unitary Patent:
 - Saving costs, simpler post-grant procedure, wider coverage and greater legal certainty
- For further details about the unitary patent, visit the EPO website: <https://www.epo.org/applying/european/unitary.html>

Unitary Patent in CAS STNext

In CAplus, DWPI, INPADOCDB/INPAFAMDB, and EPFULL

All standard retrieval options on the new patent family member and new legal event information are fully supported in CAS STNext:

- Existing patent families will be updated with new **EP C0** family members
- UP participating states with specific display and search options
- **INPADOC legal events:**
 - Two new Legal Status Categories specifically monitor Unitary Patent activities
 - usual post grant events as fee payment, licensing, lapse, or withdrawal are available
- **Status indicator** for EP C0 documents in INPADOC and CAplus
- **Unitary patent and UPC opt-out monitoring:**
 - Standard STNext options and FIZ PatMon

UER – Unitary effect request
UOO – Opt-out from UPC jurisdiction

Unitary Patent in CAS STNext

In CAplus, DWPI, INPADOCDB/INPAFAMDB, and EPFULL

TI	Pharmaceutical composition of S1PR modulators				
IN	Meacci, Elisabetta; Pierucci, Federica				
PA	Universita degli Studi di Firenze, Italy				
PI					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	WO 2021024101	A1	20210211	WO 2020-IB57144	20200729
	EP 3972578	A1	20220330	EP 2020-764154	20200729
	EP 3972578	B1	20230705		
	EP 3972578	C0	20230705		
	US 20220313672	A1	20221006	US 2021-17620879	20211220
PRAI	IT 2019-13890	A	20190802		
	WO 2020-IB57144	W	20200729		
PSPI					
	PATENT NO.	KIND	STATUS	STATUS DATE	
	-----	----	-----	-----	
	WO 2021024101	A1	Alive	20210218	
	EP 3972578	A1	Indeterminate	20230706	
	EP 3972578	B1	Indeterminate	20230706	
	EP 3972578	C0	Alive	20230831	
	US 20220313672	A1	Alive	20221013	
OS	MARPAT			174:483148	

Search for EPC0/PK

Designated Unitary States

Relevant when more countries join the UPC

```
AN 2021-149916 [2021016] WPINDEX Full-text
TI Pharmaceutical composition for treatment of atrophy and/or degeneration of
skeletal muscle, comprises 1-benzyl-1H-pyrrole derivative,
(3R)-3-amino-4-(3-hexylphenyl)amino-4-oxobutyl-phosphonic acid , and small
interfering RNA
IN MEACCI E; PIERUCCI F
PA (UYFI-N) UNIV FIRENZE
PI WO 2021024101 A1 20210211 (2021016)* EN 50[41]
EP 3972578 A1 20220330 (2022027) EN
SG 11202114034 A 20220225 (2022046) EN
US 20220313672 A1 20221006 (2022081) EN
EP 3972578 B1 20230705 (2023054) EN
EP 3972578 C0 20230705 (2023071) EN
DS U: AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI
```


UPC Opt-out Information in Inpadoc

TIEN DETECTING SUCCINYLACETONE.
IN CERDA, BLAS; CHERKASSKIY, ALEX; LI, YIJUN; LA MARCA, GIANCARLO
PA PERKINELMER HEALTH SCIENCES, INC.; **AZIENDA OSPEDALIERO UNIVERSITARIA
MEYER DI FIRENZE**
PI **EP 2155185** A1 20100224
PI **EP 2155185** A4 20101124
PI **EP 2155185** B1 20120328
PI **EP 2155185** B2 20211201
AI **EP 2008-755064** A 20080505
PRAI **WO 2008-US62694** W 20080505
US 2007-744789 A 20070504

AN 36136804 INPADOCDB [Full-text](#)

Search for UOO/LSC2

LEGAL STATUS

20230705 EPP01 OPT-OUT OF THE COMPETENCE OF THE UNIFIED PATENT COURT
(UPC) REGISTERED
20230525
UOO Opt-out of UPC Jurisdiction
W OTHER
.....20230713

Table of contents

- CAS STNext application and interface enhancements
- **Content and database enhancements**
 - The Derwent reload
 - Further databases enhancements
 - Unitary Patent
 - **Claimed substance in PatentPak**
 - **CAS Sequences**
 - **Prior Art Analysis**
 - **Patent Status Events**
 - **Patent Claims in CAplus**
 - **CAplus authority coverage expansion**
 - **Ultimate Owner**

Claimed Compounds Tagged in CAS PatentPak

- Currently available for US basics back to 1975, for CN back to 2011, for WO back to 2010, for JP back to 2010, for KR back to 2011, working on EP documents next

The screenshot displays the CAS PatentPak interface. On the left, a sidebar lists 'Key Substances in Patent' with three entries: CAS RN 2730025-80-4, CAS RN 2730025-81-5, and CAS RN 2730025-82-6. The main area shows chemical structures for these compounds, with red location pins indicating where they are tagged in the patent document. The text of the patent claims is visible, including claim 16 and claim 17 (canceled). A pop-up window on the right provides detailed patent information:

AN 2021:2274820 CAPLUS Full-text
DN 176:433455
IN Neyts, Johan; Poon, Daniel; Pfister, Keith Bruce
PA Katholieke Universiteit Leuven, Belg.; Novartis Institutes for Biomedical Research, Inc.
PI

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20210323947	A1	20211021	US 2021-17235120	20210420
WO 2021214080	A1	20211028	WO 2021-EP60271	20210420

Below the table, there are links for 'PatentPak PDF', 'PatentPak PDF+', and 'PatentPak Interactive'. The PPAK section lists specific tagged compounds: 2730025-80-4 P, Pg 64 Claim; 2730025-81-5 P, Pg 64 Claim; 2730025-82-6 P, Pg 64 Claim; 2730025-95-1 P, Pg 23; and 2730025-96-2 P, Pg 24.

CAS Sequences

Comprehensive collection

- CAS REGISTRY® sequence data and extracted patent sequences from major patent offices
- Over 600 million patent-sequence relationships from more than 1.1 M patents and 60+ patent authorities
- NCBI sequences (>540 million) are now included in biosequence searches
- Manually curated sequences

New search interface

- Easy access to search modes and parameters
- Sequence search results including alignments and related literature
- Dynamic sorting and filtering
- Crossover results to bibliographic STN databases, e.g., CPlus
- Export to Excel, Download subject sequences in .fasta format
- PatentPak coverage added for CAS-indexed biosequences

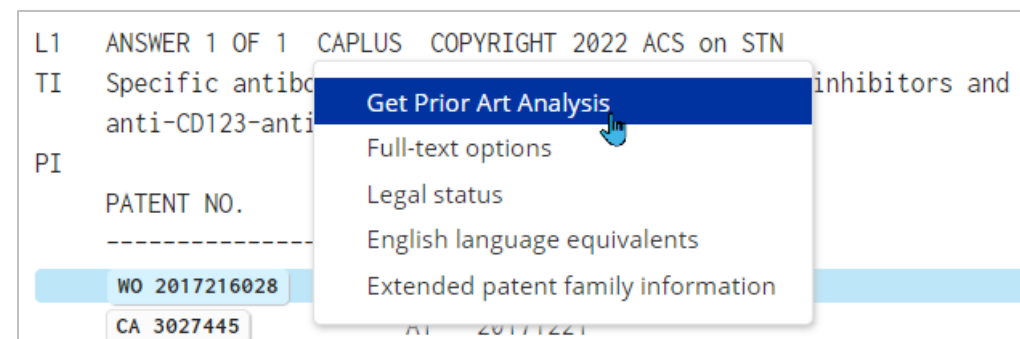
The screenshot displays the Biosequence Search Results interface. At the top, it shows the search title "Biosequence Search Results (168)" and a sort option "Sort By: Alignment Identity %: Descending". Below the title are buttons for "Create Bioscope Analysis", "Get All Patent Numbers", and "Show Search Details". The main content area features a table with columns for "Sequence Alignment", "Sequence Length", "Alignment Identity %", "Query Identity %", "Subject Identity %", and "Number of Documents". A single result is shown with a length of 379, 100% alignment identity, and 192 documents. Below the table, there are tabs for "Alignment", "Patents (137)", "Journals (55)", and "Subject". The "Alignment" tab is active, showing a sequence alignment between a query and a subject, both 379 aa long. The alignment is a perfect match. Below the alignment, there are three rows of sequence data, each with a query and subject sequence. The first row shows a query sequence starting with "1 MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRVVLH 50" and a subject sequence starting with "1 MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRVVLH 50". The second row shows a query sequence starting with "51 LASLQLGLLNGVCSLAEELRHHSRYRGSYWRTRACLCPLRRGALL 100" and a subject sequence starting with "51 LASLQLGLLNGVCSLAEELRHHSRYRGSYWRTRACLCPLRRGALL 100". The third row shows a query sequence starting with "101 LSIYFYSLPNAVGPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEK 150" and a subject sequence starting with "101 LSIYFYSLPNAVGPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEK 150". The fourth row shows a query sequence starting with "151 GNFNVAHGLAWSYIYGLRLILPELQARIRTYNQHYNNLLRGAVSQRLYI 200" and a subject sequence starting with "151 GNFNVAHGLAWSYIYGLRLILPELQARIRTYNQHYNNLLRGAVSQRLYI 200".

Prior Art Analysis

Patent automated similarity engine (PaSE)

PaSE tool predicts related prior art:

- Based on a single patent document as the starting point for an AI-search
- Originally developed as a stand-alone tool for the Brazilian INPI to reduce their 9-year backlog in examining patent applications
- Uses CAPLUS **concepts**, **indexed substances**, **IPC codes** and additional **full-text** to generate a list of previously known patent and non-patent documents
- Use **HELP PRART** to explore online assistance



Click on PN and start Prior Art Analysis

Patent Status Events

Available in INPADOC and CAplus

Four different flags are available as patent status (/STI):

- Alive
- Dead
- Indeterminate
- Transitional

Flags are dynamic:

- Change as new events occur, or to reflect end of patent lifetime
- Only latest flag is retained, all other flags are overwritten

```
L1 ANSWER 8 OF 126401 MARPAT COPYRIGHT 2021 ACS on STN
AN 175:544760 MARPAT Full-text
TI Preparation of the aryl compounds and their application for the treatment
of alzheimer's disease
IN Wang, Xin; Ma, Lei; Fu, Jianjun; Zheng, Qiuyang; Zhou, Licheng; Deng,
Qingfang; Shi, Ximeng; Li, Guilin; Wang, Shihua; Di, Anjie
PA Xiamen University, Peop. Rep. China; East China University of Science and
Technology
SO PCT Int. Appl., 102pp.
CODEN: PIXXD2
DT Patent
LA Chinese
FAN.CNT 2
PI
PATENT NO.          KIND  DATE          APPLICATION NO.      DATE
-----
WO 2021147971      A1   20210729      WO 2021-CN73164     20210121
CN 113214097       A    20210806      CN 2020-10071143    20200121
PRAI CN 2020-10071143      20200121
PSPI
PATENT NO.          KIND  STATUS        STATUS DATE
-----
WO 2021147971      A1   Alive         20210805
CN 113214097       A    Alive         20210812
RE.CNT 9          THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

CAplus Claims

New search and display fields available

		Corresponding display fields
– Search fields		
– Search claim text	/CLM	CLM
– Search exemplary claim text	/ECLM	ECLM
– Search number of claims	/CLMN	CLMN
– Search for availability of claims	CLM/FA	
– Use /BIEX to search just the Claims, use /BI,BIEX to search both basic index and claims, analogous to DWPI		

CAplus Claims: for 88% of all Patent Records

Claims text for basic patents has been added to CA/CAplus databases

Current coverage

- CN - coverage from 1985
- DE - coverage from 1997
- EP - coverage from 1979
- GB - coverage from 1927
- JP - coverage from 1983
- KR - coverage from 1999
- RU - coverage from 1994
- US - coverage from 1906
- WO - coverage from 1979
- AU - coverage from 2000
- BR - coverage from 2000
- CH - coverage from 1975
- IN - coverage from 2007
- TW - coverage from 2000
- Non-English language claims are machine translated

Claimed chemical structures and mathematical formulas may be displayed

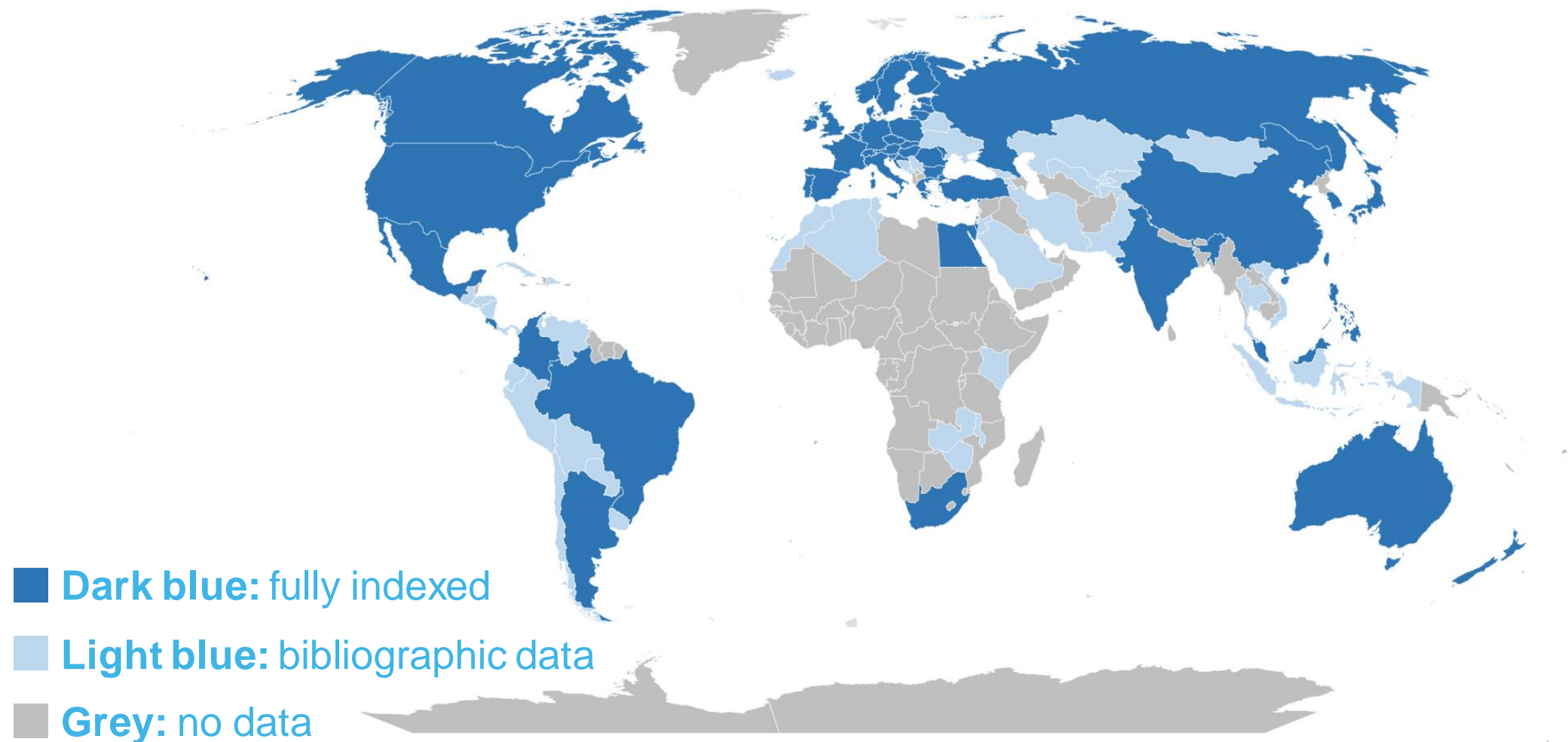
Extended Patent office coverage in CAplus

We added patent data from more patent offices

- CAplus goes from 64 to **109 patent offices**
- One may already see additional family member data for:
- AM, BO, BY, CL, CU, CY, DO, EC, ID, GE, GT, HN, IS, JO, KE, KG, KZ, MA, ME, NI, PA, PE, PY, RS, SA, SV, TH, TN, TT, UA, UY, UZ, VE, VN, BA, IR, MN, MW, MT, PK, SM, TJ, YU, ZM, ZW

These additions enhance the patent family data. Deep indexing will not be performed for these additional authorities.

Extended Patent office coverage in CAplus



Ultimate Owner Fields in CAplus

Identification of the current owner of a patent

- Company name changes, mergers, acquisitions can often complicate an organization-based IP search
- **Ultimate owner** added to over 70% of CAplus records for search, display and analysis of IP ownership data (also in CASREACT and Marpat)
 - /UO – Ultimate owner
 - /UOS – Ultimate owner standardized
- Data obtained from PatentSight through their manual and algorithmic curation of IP ownership and M&A analysis
 - Significant effort to reduce spelling errors and further standardization
 - Does not provide historical changes or date of transfer of IP rights
- Available to all STN users

Acquisition of Patent Rights

Which patents not originally assigned to PIERRE FABRE did they purchase?

L4 63 S PIERRE FABRE/UO NOT PIERRE FABRE/PA

TI Pharmaceutical composition comprising glycerol, white soft paraffin and liquid paraffin for the treatment of uremic xerosis and/or pruritus

IN Dupuy, Patrick

PA Orfagen, Fr.

UO **PIERRE FABRE** PARCIPATIONS

UOS Laboratoires Pierre Fabre

PI

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
US 20120035273	A1	20120209	US 2011-13264653	20111014
EP 2241351	A1	20101020	EP 2009-305325	20090416
WO 2010119132	A1	20101021	WO 2010-EP55066	20100416

CNFULL Reload

Database has been reloaded

- Contains more than 45M family records, updated weekly
- 3M additional design patents, searchable with the Locarno classification (/LCL)
- Original information in Chinese displayable: TIZH, PAZH, INZH, AGZH, ABZH
- TI and AB first machine translated into English, later replaced by human translations
- Two new search fields
 - /CLM.IC Independent claims
 - /CLM.CG Claim group (independent claim and its related dependent claims)
- Up-to-date Numeric Property Search feature
- Key Terms (/KT), are now available for nearly all CNFULL records.

Claim Group allows for more relevant claim searching

Available in PCTFULL, EPFULL, JPFULL, CNFULL and TWFULL

- Search index comprised of claims belonging to the same group of an independent claim and its dependent claims
- Adds comprehensiveness and precision to your search results: Less noise compared to a search in all claims, more relevant results compared to a limited search in just a single claim
- Claim Group search field: **/CLM.CG**

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STNext

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Larissa Bergmann

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- What's New**
- Help
- Logoff
- Logoff Hold

CAS STNext Help

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2023 Application Updates

September 22: Cost Notification Alert for Sharing Results to SciFinder[®]

August 24: Updated Structure Editor and File Import UI Redesign

March 31: Sidebar Navigation Icons and STNext Fragmentation Code Feature

February 27: Online Product Feedback

[Back to Application Updates](#)

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**Between problems
and progress
are connections
that matter**

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