Orientation to new STN®

Part 1: Bibliographic Searching
Agenda

• Development of new STN®
• Integrated Help
• Features and benefits of new STN
  – Part 1: Bibliographic Search
  – Part 2: Substance and Structure Search
Rebuilding the STN architecture is important to meet the current and future needs of STN users

• STN is revitalizing our platform to address changing technology and customer needs:
  – Deliver new functionality and content requested by customers
  – Help users harness the growing volume of available information
  – Provide innovative information delivery workflows

• STN is focused on retaining what our customers expect:
  – Precision and comprehensiveness
  – Premium, value-added content
  – Excellent customer support
New STN transforms the STN search experience!

**Performance**
- Up to 15 times faster
- Amazing search power

**Efficiency**
- Project-oriented workflow
- Integrated real-time analysis
- Simultaneous query and results interaction

**Usability**
- Web-browser access
- Easy to understand
- Keyboard shortcuts

"Opens the door to exploring chemistry, and patents in a way that has never existed before"

"Fast"

"New paradigm"

"Project oriented design is great"

"User Friendly"

"Blown Away!"
Global patent and non-patent content complements value-added information in CAS and Thomson Reuters databases

• The most essential STN content
  – CAprusSM and CAS REGISTRYSM
  – DWPI SM and DCR

• Global patent content
  – INPADOC, AUPATFULL, CANPATFULL, CNFULL, DEFULL, EPFULL, FRFULL, GBFULL, INFULL, JPFULL, KRFULL, PCTFULL, USFULL

• Premier biomedical and life science content
  – BIOSIS®, CABA, EmbaseTM, FSTA, MEDLINE®

**Note:** Databases highlighted in **blue** on this slide were added in the latest release of new STN.
Additional resources are available to help you get started

- Brief orientation video upon first login
- Detailed in-product Help including search examples, videos, and printable quick reference cards
- WebEx orientations to new STN available on demand
- What’s New in new STN WebEx on demand
- Quick Start guide with Tips for Experienced Searchers
- CAS Customer Center or FIZ Karlsruhe Help Desk
Conveniently access new STN from your browser

https://www.stn.org/
The first time you logon to new STN, the integrated help opens automatically as a second browser tab (or window). From here you can watch the short orientation video.
Integrated Help is easy to use

Click the numbers on this interactive map to see explanations of the features associated with the Detailed Results Panel.
Navigation shortcuts are available for users who prefer keyboard interaction

### Navigation Shortcuts

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>h</td>
<td>History Panel</td>
</tr>
<tr>
<td>q</td>
<td>Query Panel</td>
</tr>
<tr>
<td>rf</td>
<td>Result Filter / Open Filters</td>
</tr>
<tr>
<td>rl</td>
<td>Results List</td>
</tr>
<tr>
<td>rh</td>
<td>Results Heading</td>
</tr>
<tr>
<td>rd</td>
<td>Results Detail</td>
</tr>
<tr>
<td>↑ and ↓</td>
<td>Page up and down through lists</td>
</tr>
<tr>
<td>n</td>
<td>Next page</td>
</tr>
<tr>
<td>p</td>
<td>Previous page</td>
</tr>
<tr>
<td>Tab</td>
<td>Cycle through elements within current panel (Shift-Tab for reverse order)</td>
</tr>
<tr>
<td>F6</td>
<td>Cycle through major regions (Shift-F6 for reverse order)</td>
</tr>
</tbody>
</table>

### Action Shortcuts

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Esc</td>
<td>Close panel (if applicable)</td>
</tr>
<tr>
<td>?</td>
<td>Open this help page</td>
</tr>
<tr>
<td>Enter</td>
<td>Open dropdowns and twisties, or activate links and buttons with focus</td>
</tr>
<tr>
<td>Space</td>
<td>Toggle checkboxes and radio buttons</td>
</tr>
<tr>
<td>Ctrl \</td>
<td>Enable shortcut keys from text area</td>
</tr>
</tbody>
</table>
New STN workflow is oriented around projects

Projects allow you to:
- Easily return to previous work
- Reuse common queries
- Update searches with the most current information

To create a project, click the + icon.
The new STN interface puts query, history and results at your fingertips.
Select databases

If necessary, click Select Databases.

Check a box to select the database(s) that you want to search.

Note: The actual accessible content will depend on your organization’s current STN contract status.

Click X to close the dialog box. Alternatively, press the <Esc> key.
Query Builder panel

Enter search terms and search fields of interest in the query builder.

Click **Submit** to search, or press the `<Enter>` key.

Recall previously typed queries.

Clear Query Builder.
Text search in new STN

• Text search operators
• Search examples compared to classic STN
• Text search enhancement settings
• Use the Term Explorer
  – To browse search indices
  – To access database thesauri
### Text search operators

<table>
<thead>
<tr>
<th>Operator Type</th>
<th>Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numeric</td>
<td>$&gt;, &lt;, =, \geq, \geq, \leq, \leq, -$</td>
</tr>
<tr>
<td>Boolean (logical)</td>
<td>AND, NOT, OR</td>
</tr>
<tr>
<td>Textual Proximity</td>
<td>$(W), (A), (S), (P)$</td>
</tr>
<tr>
<td>Relational Proximity</td>
<td>$(U)$</td>
</tr>
<tr>
<td>Truncation</td>
<td>$*, #, !$</td>
</tr>
</tbody>
</table>

- Truncation operators can be used in any combination, including internally.
- Truncation can be added to all fields.
Search examples compared to classic STN

<table>
<thead>
<tr>
<th>New STN query</th>
<th>Classic STN query</th>
<th>Changed</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATP BINDING CASSETTE#</td>
<td>S ATP BINDING CASSETTE#</td>
<td>N</td>
</tr>
<tr>
<td>BICOMPONENT# OR (BI OR 2 OR TWO) (W) COMPONENT#</td>
<td>S BICOMPONENT# OR (BI OR 2 OR TWO) (W) COMPONENT#</td>
<td>N</td>
</tr>
<tr>
<td>2007&lt;PY&lt;2011</td>
<td>S 2007&lt;PY&lt;2011</td>
<td>N</td>
</tr>
<tr>
<td>(CAFFEINE OR 58-08-2)/IT (U) RACT/RL</td>
<td>(CAFFEINE OR 58-08-2)/IT (L) RACT/RL</td>
<td>Y</td>
</tr>
<tr>
<td>DETERGEN* (U) ENZYM*</td>
<td>S DETERGEN? (L) ENZYM?</td>
<td>Y</td>
</tr>
<tr>
<td>CN/PC (U) 2008-2015/PY</td>
<td>S CN/PC (P) 2008-2015/PY</td>
<td>Y</td>
</tr>
</tbody>
</table>

Most text searches work like classic STN.
• Do not type the “S” for search!
• Use an asterisk (*) instead of question mark (?) for unlimited truncation
(U) operator: relational proximity searching

- Example: Linked terms in CAplus

- Example: Patent information in DWPI
Text search enhancement settings

Abbreviations, Plurals, and spellings.

Normalizes different characters and adds search edits.

Gray text indicates which search fields are affected.

To change settings on the query level, add e.g. /[hy=off; dia=off].
Both the **apostrophe** [ap=on] and **hyphen** [hy=on] settings search for the apostrophe or hyphen, replace it with a space, or remove it leaving no space.

The **diacritics** [di=on] setting searches for various forms of words with diacritics, including for example, the umlaut (ä, ü, ö) in German names.

These settings greatly simplify searching for names with apostrophes or hyphens.
Use the Term Explorer to browse search indices

Select Terms

Database

Field

Deselect

Apply to add the selected terms to the Query Builder panel.
Use the Term Explorer to access database thesauri

Select a thesaurus

Browse thesauri to explore Broader, Narrower, and Related terms.

Select Terms
Database thesauri available in new STN

Select Thesaurus.

Choose the Thesaurus of interest from the drop down menu.
History panel

- Structure queries.
- Saved answer sets.
- Export or Delete Search history.
- Hover over a query and click on the arrow to obtain a drop-down menu.

- Dynamic and interactive session history
- View Results for any L-number of interest
- Results are in displayed in the Results Panel
Query related features of the history panel

- Pastes the query into the query builder panel and views results.
- Pastes the query into the query builder panel.
- View results of this L# in the results panel.
- Detailed view of the query including used settings.
- Create new project and start with the chosen query.
- Setup Update to get updated answer results.
- Click the red x to delete the last L-number.
Update Results lets you see changes to result sets over time

- Lets users see specifically which answers of the search results are
  - New
  - Changed
  - Deleted
- Is run by the user on-demand

Process:

SETUP Update
Point of time 1

RUN Update
Later point of time

Check Results
Update Results allows on-demand access to the most current available content
Results panel

Database results tabs.

Filter results.

Sort results.

Create term list, Save or Export.

Click title for detailed display.

Select results via check marks.
Sort results

In this example, the results are sorted by ascending first priority date, i.e. records with the oldest priority dates are listed first.
Real-time, instant analysis of results with Filters

A search in DWPI for recent anti-cancer patents (L5).

Click Apply to apply check marked filters.
Real-time analysis of results with Filters (cont.)

Clear, Remove, or Update Query with the applied filters.
Counts and Results

**Query as Entered**

L4 AND PY.B >= 2013

**Query as Searched**

<table>
<thead>
<tr>
<th>DWPI</th>
<th>26,296</th>
</tr>
</thead>
<tbody>
<tr>
<td>(L4) and (PY.B &gt;= 2013)</td>
<td>26,296</td>
</tr>
<tr>
<td>L4</td>
<td>190,177</td>
</tr>
<tr>
<td>PY.B &gt;= 2013</td>
<td>4,005,208</td>
</tr>
</tbody>
</table>

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**Results**

1. 2015-03855W  Nostoc flagelliforme biscuit comprises nostoc flagelliforme powder, white granulated sugar, edible oil, concentrated vegetable extracellular polysaccharide solution, low-gluten flour, starch, sodium bicarbonate, milk powder, egg, and salt. Antidiabetic; Hypoglycemic; Vrucid; **Cytostatic**.
CAplus detailed display

Tip: Browse to the next or previous detailed display in the results with keyboard shortcuts “n” or “p”.

[Image of CAplus detailed display interface]

1. Patent 2015 Non-coloring self-moussing hair treatment composition including a particular anionic copolymer, an alkaline agent, surfactant and a propellant gas [Machine Translation of Descriptors]. The invention relates to a self-foaming not-coloring capillary compn. comprising: - from 2 to 60% in wt., compared to the total wt. of the compn., of one or more anon ...

2. Patent 2015 Use of 4-hydroxyphenoxyacetic acid derivatives as antioxidant and/or a antiradical agents [Machine Translation of Descriptors]. The present invention relates to the use of derived from the 4-hydroxyphenoxy-acetic acid, preferably the 2-(4-hydroxy-phenox)-propionic acid as antioxident agents ...

3. Patent 2015 Composition including a C-glycoside derivative or a curcrylic acid derivative, a pasty fat and a hydrophobically modified nonionic cellulose derivative [Machine Translation of Descriptors]. The present invention has as an aim a cosmetic compn. in the form of emulsion including at least an active chosen among the derivs. C-glycoside, in particular C-beta-D ...
Option: Switch to an alternative detailed view for a DWPI record.
Select a preferred DWPI default view for detailed display.
Full text patent database detailed display

All stages are available by selecting a tab; the most recent is initially displayed.

View the the STN Extended Patent Family (next slide...).
View the STN Extended Patent Family

- Extended Patent Family enables users to
  - Access patent family information for extended families
  - Export extended family tables
  - View detailed records for selected family members
  - Select the preferred source for family information
View the STN Extended Patent Family

**Export in .xlsx format.**

The STN Extended Patent Family integrates all patent files into a single table.

**Table 1**

**Priority Summary**

<table>
<thead>
<tr>
<th>Publication</th>
<th>Application</th>
<th>Language</th>
<th>Database</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number</strong></td>
<td><strong>Kind</strong></td>
<td><strong>Date</strong></td>
<td><strong>Number</strong></td>
</tr>
<tr>
<td>AP2012006314</td>
<td>D0</td>
<td>20120630</td>
<td>AP2012-6314</td>
</tr>
<tr>
<td>AU2010330843</td>
<td>A1</td>
<td>20120719</td>
<td>AU2010-330843</td>
</tr>
<tr>
<td>WO2011075592*</td>
<td>A1</td>
<td>20110623</td>
<td>WO2010-US60840</td>
</tr>
<tr>
<td>ZA2012004370</td>
<td>A</td>
<td>20130227</td>
<td>ZA2012-4370</td>
</tr>
</tbody>
</table>

* Indicates basic patent
Export from the STN Extended Patent Family table can include table and results.
Selecting a preferred source of family data

Select a default source for Extended Patent Family:
- CPlus, INPADOC, Full-Text Patent Databases
- DWPI
- CPlus, DWPI, INPADOC, Full-Text Patent Databases
Create Term Lists

- Use **Create Term List** to extract data and transfer terms to other files for searching
- Main focus is on **patent information**
  - PN, PNK, PRN, AP available in all patent files
  - Basic versions (.B) available in patent family files
  - RN, CN and DOI are also available
- Term Lists are identified by **Q#**
  - Permanent asset, project independent
  - Can be searched in combination with other terms
  - Can be re-qualified with one or more field codes
Create Term Lists (cont.)

A Term List (Q14) with 38,530 terms has been created and will be appended to the query builder. Use the Manage Term Lists icon in the upper banner of the query builder to view additional information about all of your Term Lists.

List Name: L'Oreal A61K

Optional
Search Term Lists via their assigned Q-numbers

L5 NOT Q14

Manage Term lists.

L5 = CAplus and DWPI combined search results.
Q14 = patent number/kind taken from CAplus (L5).

Patent records only found in DWPI (L6).
Save Sets and Export Results

• Results panel – Save Sets and Export Results options

• Check boxes can be used to select preferred answers
In this example all the search results are saved (L1).
Export Results

Option: use check boxes to select preferred results.

In this example 14 selected results are exported (L1).

Export Results

CAS Content
- CAplus (7 of 30)
  - All (30)
  - Selected (7)

Derwent Content
- DWPI (7 of 34) View: Invention
  - All (34)
  - Selected (7)

Selected total: 14/500

File Name: L'OREAL BIOTECH
The exported file will be in docx format

Selected: 7 | Total: 14
Export Results directly into a zipped .docx file
A separate archived recording is available for *Orientation to new STN Substance and Structure Searching*

http://www.cas.org/training/stn
For more information ...

CAS
help@cas.org
Support and Training:
www.cas.org

FIZ Karlsruhe
helpdesk@fiz-karlsruhe.de
Support and Training:
www.stn-international.de