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provides access to
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STN[®]

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STN[®] *Information solutions for drug discovery and development*

Drug development is a lengthy, complex, and expensive process in which gathering pertinent information is critical. The veritable explosion in scientific information has created a strong demand for tools to retrieve relevant data. These tools must access a variety of information sources and organize the data into a manageable, meaningful form.

STN[®] offers both a comprehensive source of information in its databases as well as powerful software to extract and analyze the most current, relevant data for drug discovery research. This article highlights various stages of the drug development process in which STN can play an integral role.

Target discovery

Identifying a biological target suitable for drug treatment is an early goal of the drug discovery process. This requires understanding of the disease state being targeted, as well as biological pathways and processes related to it. Nucleic acid and protein sequences are researched to ascertain structure, function, and expression profiles. Animal models are evaluated along with techniques to regulate gene expression in vivo.

Information on this wide range of topics is scattered throughout a myriad of sources, including journals, patents, books, conference proceedings, and meeting abstracts, to name a few. Fortunately, this multitude of sources can be accessed using STN.

BIOSIS[®] EMBASE	International literature on biomedical and pharmaceutical research with comprehensive coverage of pharmacological and toxicological research.
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CAplusSM	Worldwide literature in many scientific disciplines, including chemistry, biochemistry, pharmacology, and toxicology. Sources include nearly 9500 journals and patents from 50 active patenting-issuing authorities.
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DGENE	More than 8 million records extracted from original patent documents from 40 patent offices worldwide, covering proteins and nucleic acids.
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PHAR	Pharmacology of pharmaceutical products currently in development or discontinued, including toxicological information, if available.
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CAS REGISTRYSM	Nearly 60 million biosequence records from journals as well as patents. Linked to CAplus SM by CAS Registry Numbers [®] .
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Lead discovery

Once a target is selected, a research team must evaluate currently available treatments for that disease state. Competitive analysis identifies companies that have drugs targeting these conditions in their pipeline and their current stage of development.

Several STN databases are dedicated to maintaining up-to-date profiles on important developments in drugs and drug therapy, including drugs in active research and development. The following list is only a sample.

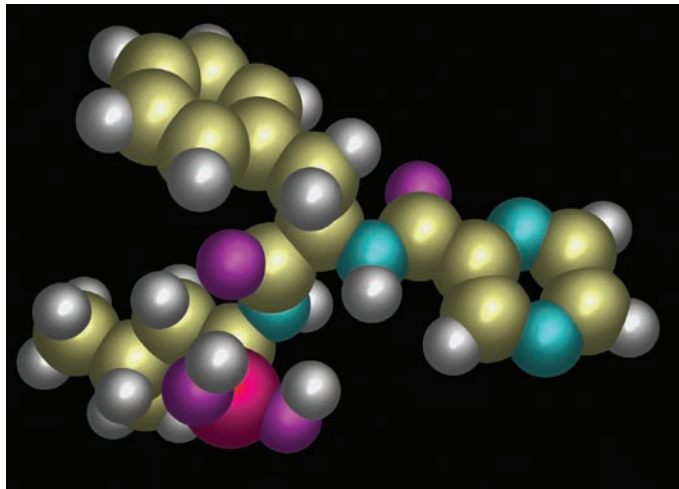
ADISINSIGHT	Continuously updated profiles on drugs in active R&D by international pharmaceutical and biotech organizations.
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ADISNEWS	Developments in drugs and drug therapy from the world's biomedical literature, meetings, and symposia.
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IMSDRUGNEWS	News and information on all aspects of the pharmaceutical, healthcare, and biotechnology industries worldwide, including the latest information on drugs in development, company activities, and licensing agreements.
--------------------	--

IMSRESEARCH	Continuous monitoring of all phases of drug development, from laboratory to product launches, worldwide.
--------------------	--

PROUSDDR PS	Pipeline drug research results from patents and bioactive compounds with associated structures.
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Lead optimization

Chemical libraries are screened using high-throughput assays to find small molecules that have a desirable biological activity on the specific target. Once such a “lead” has been identified, it goes through an iterative process of synthesis and testing. Extensive information on the physical properties of the substance is required at this stage to establish a method of synthesis. Biological assay data are analyzed with the corresponding chemical structures to pinpoint the most promising leads.

STN databases provide access to reactions, property data, and structural information as well as nucleic acid and protein sequences. These are essential to the synthesis of the lead compound and the subsequent analysis needed to optimize its potency and specificity. The following is a sample of the STN databases that contain substance and synthesis information.

BEILSTEIN	Searchable chemical structures and reactions and their associated physical properties.
CASREACT®	Single- and multi-step reactions of organic substances, including reactants, products, reagents, solvents, and catalysts with associated structures and conditions.
CAS REGISTRYSM	More than 31 million organic and inorganic substances and nearly 60 million sequences. Substructure searching for identification of lead substances. CAS Registry Number® links to other STN databases that contain pharmaceutical information.
SYNTHLINE®	Schemes for syntheses of drugs currently available or in development worldwide.

Pharmacokinetics and toxicity

Pharmacokinetic studies assess what happens to the drug within the organism over time. How much is excreted? How much is metabolized? How much is actually delivered to tissues and cells? Many of the ADME-tox qualities of a compound depend on the physicochemical properties of the drug. Pharmacokinetics and toxicity are initially evaluated in animal models and then extrapolated to predict the effect on humans.

STN databases that contain toxicology, substance property data, and pharmacokinetic data include:

BEILSTEIN	Pharmacological and toxicological data and associated chemical properties; toxicity data, including organism dose and LD50 values.
CAplusSM	Chemical and biochemical data for organic and inorganic substances. Containing more than 27 million records and updated daily for the most comprehensive and current content available.
BIOSIS® EMBASE	Worldwide coverage of pharmacological and biomedical fields, including human medicine (experimental and clinical).
MEDLINE®	Biomedical research and clinical science data ranging from 1950 to the present.
RTECS	Toxicity data for commercially important substances. Contains irritation data, mutagenic and tumorigenic effects, acute toxicity data, and multiple dose toxicity data.
TOXCENTERSM	Pharmacological, biochemical, physiological, and toxicological effects of drugs and other chemicals.

STN's scientific databases and sophisticated search and analysis tools can help you overcome seemingly insurmountable challenges.

Throughout the process

Different types of information are relevant at different stages of drug development. While databases consolidate much of the information, no single source provides everything.

The cluster feature of STN offers ways to research a topic in multiple databases at one time, saving time and money.

Clusters are sets of databases that can be searched simultaneously. Predefined clusters contain databases covering the same subject area or sharing a similar feature, such as being structure searchable. Alternatively, you can create customized clusters that contain only databases that you select.

Once data have been compiled, relevant information must be extracted and analyzed. STN's **ANALYZE** and **TABULATE** commands offer ways to find specific information within records and display that information in a one- or two-dimensional format. Identifying primary researchers and organizations in a subject area is one of many applications for which these tools are well suited. **STN Express**[®] offers wizards to assist you with using the analysis and reporting capabilities.

Pharmaceutical researchers must always be aware of competitive developments in their industry. Patterns in research trends and competitor activity can be tracked and visualized with **STN**[®] **AnaVist**[™]. This interactive analysis and visualization software can show relationships between data such as companies, inventors, and concepts extracted from the titles and abstracts of records. These relationships can provide unique insights into trends in scientific information.

As information evolves at ever-increasing rates, scientists need ways to keep pace with the most current research. STN's **current-awareness alerts (SDIs)** provide a way for the latest information to come directly to you. You simply define a query, and when there are new or updated records relevant to your query, you are automatically notified. These current-awareness alerts save valuable time by eliminating your need to repeatedly search the same topic.



Conclusion

Physicians and patients alike live in hope of more effective treatments for disease. The pharmaceutical industry is committed to innovative research and development, providing medical and pharmaceutical advances that continue to improve healthcare. Drugs expected to gain FDA approval this year include novel treatments for cancer, diabetes, hypertension, obesity, and schizophrenia.

From preliminary inquiries into potential targets through post-marketing surveillance, information is critical. It must be current, accurate, and comprehensive. It must be gathered rapidly. STN's scientific databases and sophisticated search and analysis tools can help you overcome such seemingly insurmountable challenges.

Additional resources

For more information about the STN interfaces and features mentioned in this article, visit www.cas.org:

- STN Database Summary Sheets and the list of predefined clusters
- Support pages for STN Express and STN AnaVist
- STN User Documentation for:
 - ANALYZE and TABULATE commands
 - Current-awareness alerts
 - Mastering STN Commands
- STN Training

Database News includes information on database enhancements released in April-June 2007. For additional information, refer to the Database Summary Sheets available at www.cas.org.

BIOSIS®

Reloaded and enhanced with archival data

BIOSIS Previews® (BIOSIS) has been reloaded and enhanced with 1.8 million archival records, including digitized bibliographic content from:

- *Biological Abstracts*®, Volumes 1-49, 1926-1968
- *BioResearch Index*®, Volumes 1-4, 1965-1968

The archival records have been re-indexed to match current BIOSIS indexing.

For additional information, enter HELP RLOAD at an arrow prompt (=>).

CASM/CAplusSM

Enhanced with 1870-1889 U.S. patent records

Volume 0 of the CA/CAplus family of databases has been enhanced with 14,500 additional U.S. patent records from 1870-1889.

Enhanced with additional kind codes for German patents

Additional kind codes for patents from the German Patent and Trade Mark Office (DE) have been added to CA/CAplus:

- A9 – Corrected Complete Specification
- B9 – Corrected Complete Specification (Granted Patent)
- C9 – Corrected Complete Specification (Revised Patent)
- T5 – Translation of Publication of International Application
- U9 – Corrected Complete Specification (Utility Model)

These patent kind codes are used for selection of patent family members – they are not used for selection of basic patents.

For additional information, visit Patent Coverage in Chemical Abstracts at www.cas.org.

Enhanced with IPC reclassification in Japanese patents

More than 720,000 International Patent Classification (IPC) reclassifications have been implemented in CA/CAplus patent records from Japan (JP), including more than 528,000 for records with no previous IPC reclassifications.

Enhanced with pre-1967 CAS Registry Numbers

CA/CAplus has been enhanced with CAS Registry Number® identifiers from substances registered from 1957-1966 and previously available only in CAOLDSM. Nearly 600,000 CAS

Registry Numbers from the 6th and 7th Collective Index periods have been added to more than 960,000 index entries in approximately 300,000 CA/CAplus records.

This enhancement provides more complete substance indexing in CA/CAplus.

Enhanced with Utility Model Patents from China

Utility Model Patents from the State Intellectual Property Office of the People's Republic of China (SIPO) have been added to CA/CAplus. The following information applies to these records:

- Country code – CN
- Basic patent kind code – Y
- First available publication date – January 1, 2007
- Full publication title – Shiyong Xinxing Zhuanli Shuomingshu

For additional information, visit Patent Coverage in Chemical Abstracts at www.cas.org.

Indian patent publication number format defined

On January 8, 2007, CA/CAplus was enhanced with patent applications from India. Patent applications and PCT applications may be filed at one of four provincial offices in India (IN). However, the assigned patent publication numbers are identical among the offices, e.g., the first Indian patent publication number issued from each office in 2007 is IN 2007-1.

To resolve the problem of identical Indian patent publication numbers, CA/CAplus includes patent publication numbers modified with one of eight codes to identify application type and filing office. The codes include:

- MU – national application filed in Mumbai
- MN – PCT application filed in Mumbai
- KO – national application filed in Kolkata
- KN – PCT application filed in Kolkata
- DE – national application filed in Delhi
- DN – PCT application filed in Delhi
- CH – national application filed in Chennai
- CN – PCT application filed in Chennai

In addition, Indian patent publication numbers in CA/CAplus include the sequential number padded with zeros (to five characters) and the patent kind code. For example, the number assigned to the first patent publication from a patent application filed in 2007 at the office in Mumbai is:

IN 2007MU00001 A

For additional information, visit Patent Coverage in Chemical Abstracts at www.cas.org.

CASREACT®

Coverage extended

More than 270,000 additional reactions from more than 17,000 documents from 1992-1999 have been added to CASREACT.

CHEMCATS®

Accession numbers revised

Accession numbers in CHEMCATS have been simplified and no longer display with a publication year in the Accession Number (AN) field. To restrict answer sets by date, use the Publication Date (PD) search and display field.

Enhanced with 1.2 million new records

More than 1.2 million new records have been added to CHEMCATS. Approximately 500,000 small molecules have been added to CAS REGISTRYSM as a result of this enhancement.

Search and current-awareness alert (SDI) results in CHEMCATS and REGISTRY may include a significantly greater number of answers as a result of this enhancement.

GENBANK®

Reloaded and enhanced with Genome Project ID field

GENBANK has been reloaded and enhanced with the Genome Project ID (PJID) field. The new field is searchable and displayable.

Enter HELP RLOAD at an arrow prompt (=) for details on the GENBANK reload.

INPADOC

Replaced by INPADOCDB on STN®

The European Patent Office (EPO) has completed the INPADOC(PRS) and DOCDB harmonization project. Data from this project are available in the new International Patent Documentation Database (INPADOCDB) on STN, which replaced the INPADOC database. INPADOCDB is also available on STN Easy®.

As the world's largest repository of bibliographic patent data, INPADOCDB covers 80 patent-issuing organizations and includes records from certain organizations dating back to the 1800s. INPADOCDB also includes INPADOC legal status data from 48 organizations. In total, INPADOCDB includes 51 million records and is updated weekly with 70,000-100,000 additional new records.

INPADOC SDIs have been transferred automatically to INPADOCDB – there is no need to set up SDIs again. However, queries that include patent kind codes may need to be updated. DOCDB patent kind codes replaced IFD codes in INPADOCDB. In addition, INPADOCDB records now include Abstract (AB) in the ALL display format. If you do not wish to display AB, use BIB.M (IBIB.M) or STD.M (ISTD.M) display formats as alternatives.

Details on content enhancements, new search fields, new display formats, and major changes from INPADOC are available from FIZ Karlsruhe at www.stn-international.de/stndatabases/details/inpadocdb.html. Enter HELP COST in INPADOCDB for details on pricing.

JICST-EPLUS

Removed from database clusters and STN

JICST File on Science, Technology, and Medicine in Japan (JICST-EPLUS) has been removed from STN and from its associated database clusters per request of the database producer.

LEMBASE

Coverage updated

The Excerpta Medica learning database (LEMBASE) has been reloaded and now includes selected records from 1991, 1999, 2001, 2005, and 2007.

LMEDLINE

Coverage updated

The MEDLINE® learning database (LMEDLINE) has been reloaded and now includes selected records from 1960-2007.

LWPI

Reloaded

Derwent World Patents Index® (DWPISM) Learning File (LWPI) has been reloaded. The database now matches bibliographic data of the recently reloaded and enhanced DWPI with Extension Abstracts (WPIX) database.

MARPAT®

Now updated daily

MARPAT is now updated on a daily, rather than a weekly, basis. Current-awareness alert (SDI) frequency remains on a biweekly schedule.

RDISCLOSURE

Reloaded with enhancements

Research Disclosure (RDISCLOSURE) has been reloaded with a number of enhancements. RDISCLOSURE corresponds to the defensive publication *Research Disclosure*, published by Kenneth Mason Publications Ltd. Several of the enhancements are related to implementation of patent classification codes to improve searching.

New search and display fields:

- European Patent Classification (EPC or ECLA)
- Field Availability (FA)
- International Patent Classification (IPC)
- Language (LA)
- Referenced Non-Patent Literature (REN)

New search fields:

- EPC Keyword (EPC.KW or ECLA.KW)
- IPC Keyword (IPC.KW)
- IPC Version (IPC.VER)

New display fields:

- IPC Initial (IPCI)
- IPC Reclassified (IPCR)
- Text (TX)

Additional enhancements:

- The IPC Tabulate (IPC.TAB) format has been added for tabular display of IPC.KW and IPC.VER.
- An IPC thesaurus has been added in the IPC field.
- Simultaneous left and right truncation (SLART) is now available in the Title (TI) field.
- The ALL display format now includes full text of the record in ASCII format. (Graphic images are still available in ALLG.)

For additional information on the RDISCLOSURE reload, enter HELP CHANGE at an arrow prompt (=>).

Enhanced with new search and display fields on STN Easy

New search and display fields have been added to RDISCLOSURE on STN Easy.

- European Patent Classification (EPC or ECLA)
- International Patent Classification (IPC)

Implementation of RDISCLOSURE on STN Easy now corresponds to the RDISCLOSURE database available with STN Express® and STN® on the WebSM.

SCISEARCH®

Enhanced with complete author names

Science Citation Index® (SCISEARCH) has been enhanced to display complete author names when available.

The Author (AU) field displays complete names as last name followed by first name and initial. Last and first name are separated by a comma and a space, and any initials include periods. This enhancement is available in all new records and in records back to June 1, 2006. In searches of the AU field, records including author names with and without punctuation are included.

TOXCENTERSM

Enhanced with BIOSIS reload

The BIOSIS Previews (BIOSIS) segment of Toxicology Center (TOXCENTER) has been reloaded and enhanced with 13,000 archival records, including digitized bibliographic content from:

- *Biological Abstracts*, Volumes 1-49, 1926-1968
- *BioResearch Index*, Volumes 1-4, 1965-1968

The archival records have been re-indexed to match current BIOSIS indexing.

For additional information, enter HELP RLOAD at an arrow prompt (=>).

WPIDS/WPIX

Enhanced with new FRAGHITSTR display format

Derwent World Patents Index (WPIDS and WPIX) has been enhanced with the Fragment Code Hit Structure (FRAGHITSTR) display format. The new format allows for rapid browsing of chemical fragment code search results.

After conducting a chemical code search, D FRAGHITSTR displays specific chemical structures and associated data for compounds containing highlighted fragment codes. The new display format does not include Markush compounds.

FRAGHITSTR is a free display format.

For an example of the FRAGHITSTR display format, visit www.stn-international.de/archive/stn_online_news/fraghitstr_ex.pdf.

Identifying chiral drug candidates



Q. In a set of substances that share specific structural features, how can I identify which compounds both meet the Lipinski criteria* and have specific stereochemistry?

A. After you have conducted a structure search in the CAS REGISTRYSM database:

1. Limit the answer set to substances that meet the Lipinski criteria.
2. Restrict the answers to substances with specific chirality.

Applying Lipinski criteria

The Lipinski criteria for substances that are likely to have good oral bioavailability are:

- 5 or fewer hydrogen bond donors (/HD)
- 10 or fewer hydrogen bond acceptors (/HAC)
- Calculated logP (/LOGP) less than or equal to 5
- Molecular weight (/MW) less than or equal to 500

In REGISTRY, you can limit your answer set in a single step to substances with these properties by using LIPINSKI/CALC.

Identifying chiral substances

Substances with known relative or absolute stereochemistry have STEREOSEARCH posted in the File Segment (/FS) field.

In REGISTRY, you can limit your answer set to chiral drug candidates by using LIPINSKI/CALC and STEREOSEARCH/FS.

* Lipinski, C. A.; Lombardo, F.; Dominy, B. W.; Feeney, P. J. *Advanced Drug Delivery Reviews* **1997**, 23, 3-25.

Identify chiral drug candidates within a set of substances that share specific structural characteristics.

Upload the structure query and perform a SAMPLE search.

A FULL search yields 533 substances.

Refine answers by applying Lipinski criteria**.

Limit to answers with specific chirality.

Display an answer.

“Relative stereochemistry” indicates that the absolute configuration of the chiral centers is unknown. When it is known, the message reads “Absolute stereochemistry.”

```

=> FIL REGISTRY

=>
Uploading C:\CASNC\STN Express\Queries\xyz3.str
L1      STRUCTURE UPLOADED

=> S L1
L2      25 SEA SSS SAM L1

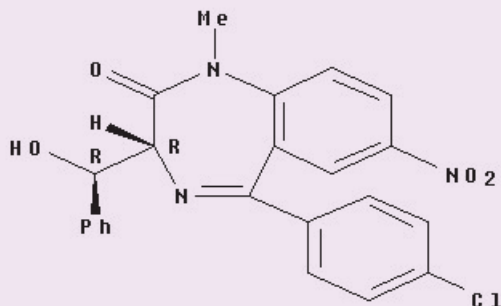
=> S L1 FUL
L3      533 SEA SSS FUL L1

=> S L3 AND LIPINSKI/CALC
21318410 0-5/HD
20457899 0-10/HAC
17415509 LOGP <= 5
17812663 0-500/MW
14400208 LIPINSKI/CALC
          (0-5/HD AND 0-10/HAC AND LOGP <= 5 AND
          0-500/MW)
L4      320 L3 AND LIPINSKI/CALC

=> S L4 AND STEREOSEARCH/FS
6952051 STEREOSEARCH/FS
L5      33 L5 AND STEREOSEARCH/FS

=> D STR
L5      ANSWER 1 OF 33 REGISTRY COPYRIGHT 2007 ACS on STN

Relative stereochemistry.
  
```



Additional Resources

For additional information, enter HELP LIPINSKI at an arrow prompt (=>) in REGISTRY.

See also the STN Support Information at www.cas.org:

- REGISTRY Database Summary Sheet
- STN User Documentation: Searching for Structures
- STN User Documentation: Searching for Property Data

** Any REGISTRY answer set may be refined by using this technique.

Find German publications concerning influenza vaccine.

DWPI allows the use of six proximity operators, (L), (P), (S), (A), (W), and (T), which let you specifically relate invention and document information within a record.

Link (L) proximity

Since both invention information and individual patent publication information are included within the same database record, you can use the broadest level of proximity, (L), to link these two different types of information.

The document level (DLVL) field specifies whether the information is contained in the INVENTION or the PUBLICATION. By using the (L) operator with DLVL field, you can restrict your search so that terms appear only in the invention information or only in an individual publication.

```
=> S DE/PRC (L) INFLUENZA VACCIN?/BI,BIEX (L) PUBLICATION/DLVL
      .
      .
L1      5 DE/PRC (L) INFLUENZA VACCIN?/BI,BIEX (L)
      PUBLICATION/DLVL

=> D MEMB(2)

L1      ANSWER 1 OF 5 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
Member(0002)
PI      WO 2005090584 A2 20050929 (200573)* DE 40[5]
TIDE IMPFSTOFF GEGEN INFLUENZA BASIEREND AUF GEFLUGELPESTVIREN
TIEN INFLUENZA VACCINE BASED ON FOWL PLAGUE VIRUSES
TIFR VACCIN CONTRE LA PESTE BASE SUR DES VIRUS DE LA PESTE AVIAIRE
AG      TRANSMIT GESELLSCHAFT FUR TECHNOLOGIETRANSFER MBH
      AGA: Kerkrader Str. 3, 35394 Giessen, DE
IN      WAGNER R
      INO: WAGNER, Ralf
      INA: Dorfwiesenweg 8, 35043 Marburg, DE
      Residence: DE
      Nationality: DE
      KLENK H
      INO: KLENK, Hans-Dieter
      INA: Oberhof 11, 35440 Linden, DE
      Residence: DE
      Nationality: DE
PA      (UYPH-N) UNIV PHILIPPS MARBURG
      PAO: PHILIPPS-UNIVERSITAT MARBURG
      PAA: Biegenstrasse 10, 35032 Marburg, DE
      Limitation: except US
      Residence: DE
      Nationality: DE
      .
      .
      .
ADT      WO 2005090584 A2 WO 2005-DE496 20050316
APTS      2005WO-DE0000496
PRAI      DE 2004-102004013335 20040317
PRTS      2004DE-100013335
IPCR      Current: A61K0039-145 [I,A]; A61K0039-145 [I,C]; C12N0007-01 [I,A];
      C12N0007-01 [I,C]; C12N0007-04 [I,A]; C12N0007-04 [I,C]
IIC      IICM C12N0015-86
ABDE      Die vorliegende Erfindung betrifft die Herstellung von klassischen
      Gefluogelpestviren des Stammes A/FPV/Ro/34 (H7N1) mittels
      eines Systems der reversen Genetik sowie die Herstellung von
      Mutanten dieses Virusstammes, deren Genom weitestgehend mit dem
      Wildtyp-Stamm uebereinstimmt. Diese Mutanten sind immunogen,
      allerdings - im Gegensatz zum FPV-Wildtypstamm - nicht pathogen.
      Weiterhin ermoeoglicht dieses System auch die Einbringung der
      Oberflaechenantigene anderer hochpathogener aviaerer Viren in
      das FPV-Genom. Die so erzeugten rekombinanten FPV werden als
      Ausgangsviren zur Erzeugung eines inaktivierten Impfstoffes gegen
      das Influenzavirus verwendet.
      .
      .
      .
```

Paragraph (P) proximity

The (P) proximity operator is more restrictive than the (L) operator, so it lets you connect information within the invention or within a specific publication. The fields that may be connected with the (P) operator include:

- Inventor (IN, INO, INA)
- Publication (PC, PN, PK, DW, LA, PGN, DRWN, PD, PY, PT, DS)
- Application detail (AC, AP, AP.YR, APTS, APT, AD, AY, PC, PK, PN)
- Filing detail (FDT, PC, PN, PK)
- Priority (PRC, PRN, PRN.YR, PRD, PRDF, PRTS, PRY, PRYF)
- IPC (potentially comprises IC, ICM, ICS, ICI, ICA, MGR, SGR, IPC)
- Initial IPC (comprises IIC, IICM, IICS, IICI, IICA, MGR, SGR, IPC)
- Enhanced title (TI, AW, TT)
- Enhanced abstract sections (ALE, USE, ADV, UADV, NOV, DETD, ACTV, ACTN, USE, DRWD)
- Technology focus section (TECH)
- Abstract extension section (ABEX subfields)
- Documentation abstract section (ABDT subfields)
- Derwent Classifications (DC)
- Derwent Chemical Manual Codes in MC
- Derwent Engineering Manual Codes in MC
- Derwent Electrical & Electronic Manual Codes in MC

The new DWPI record structure and the use of proximity operators let you design more sophisticated and effective patent search strategies.

Search for an inventor named P. Smith, who lives in Houston.

```
=> S SMITH P?/IN,INO (P) HOUSTON/INA
L2          18 SMITH P?/IN,INO (P) HOUSTON/INA (P) HOUSTON/INA
=> D MEMB
L2  ANSWER 1 OF 18  WPIX COPYRIGHT 2007          THE THOMSON CORP on STN
Member(0001)
PI  US 6789183          B1 20040907 (200465)* EN 10[5]
TIEN Apparatus and method for activation of a digital signal processor
    in an idle mode for interprocessor transfer of signal groups in a
    digital signal processing unit
AG  Holloway, William W.
    AGA: US
    Brady, W. James
    AGA: US
    Telecky, Jr., Frederick J.
    AGA: US
IN  SMITH P J
    INO: Smith, Patrick J.
    INA: Houston, TX, US
    JONES J A
    INO: Jones, Jason A.
    INA: Houston, TX, US
    MCGONAGLE K A
    INO: McGonagle, Kevin A.
    INA: Houston, TX, US
    .
    .
    .
```

- Indexing terms paragraph in IT
- Issued US national classification types (INCL, INCLM, INCLS)
- Agent (AG(.T), AGA)
- Author title (TIDE, TIEN, TIES, TIFR, TL.M)
- Author abstract (ABDE, ABEN, ABFR, SL.M)
- Main claim (CLMDE, CLMEN, CLMFR, SL.M)

Overview of the use of proximity operators in DWPI:

Proximity operator	Search level	Example of use:
(L)	Record	Restrict search to information contained only in the invention or only in a publication
(P)	Paragraph	Connect information within the invention or within a specific publication
(S)	Sentence	Limit search to terms within the same field
(A) (W) (T)	Word	Require terms to be adjacent to or following each other Require two terms to be within the same word

Sentence (S) proximity

Sentence (S) proximity is more restrictive than (P) proximity and can be used with the following fields:

- Patent Assignee name
- Patent Assignee address, limitation, residence, nationality
- Inventor name
- Inventor address, residence, nationality
- Sets of linked ICI codes
- IPCs with the pertaining supplementary data, i.e., keyword data
- Title parts, title terms, and additional words
- Paragraphs from enhanced abstract, technology focus, abstract extension, or documentation abstract, as designated by Thomson Scientific

You can use (S) proximity to limit searches to terms within the patent assignee name or abstract paragraphs, which often consist of a single sentence.

Retrieve answers in which the terms *catalysis* and *hydrogenation* appear in the same sentence.

```
=> S CATALYSIS (S) HYDROGENATION
L1          141 CATALYSIS (S) HYDROGENATION
=> D HIT
L1 ANSWER 1 OF 141 WPIX COPYRIGHT 2007 THE THOMSON CORP on STN
USE
USE - For producing metal powder used as materials with enhanced
electronic, magnetic and/or mechanical properties, especially
for use as conductivity increasing materials in fluids, polymers
or ceramics, or for use as hard or soft magnetic materials for
magnets or transformers, for use as building blocks for wires,
sensor, or switches in electronic industry and as raw product for
powder metallurgy in machining industry, as low melting alloys for
interconnects in electronics (all claimed), and in heterogeneous
catalysis such as hydrogenation and hydrodenitrogenation.
```

The (T) operator is especially useful for searching fragments within the same word.

Word (A, W, T) proximity

Word proximity can be used to require that terms appear in the same field. A term is defined as the most specific information unit, e.g., one IPC.

You can use (A) and (W) proximity operators to require terms to be adjacent to or following each other.

Further, you can use simultaneous left and right truncation (SLART) in conjunction with the Term (T) proximity operator to retrieve answers in which two fragments appear within the same word.

Additional resources

For more information, visit the STN Support Information at www.cas.org:

- WPIDS/WPINDEX/WPIX Database Summary Sheets
- STN User Documentation: Searching for Patent Information

Retrieve documents that contain the fragments *anti* and *allerg* in the same word.

```
=> S ?ANTI? (T) ?ALLERG?

L2      15708 ?ANTI? (T) ?ALLERG?

=> D KWIC=3 1-2

L2      ANSWER 1 OF 15708 WPIX COPYRIGHT 2007 THE THOMSON CORP
        on STN
        ACTV ACTIVITY - Antiinflammatory; Antiallergic;
        Antiasthmatic. No
        biological.. . .

L2      ANSWER 2 OF 15708 WPIX COPYRIGHT 2007 THE THOMSON CORP
        on STN
        ACTV ACTIVITY - Neuroprotective; Antiallergic;
        Antipsoriatic;
        Antirheumatic; Antiarthritic;..

=> D L2 ACTV 10913

L2      ANSWER 10913 OF 15708 WPIX COPYRIGHT 2007 THE THOMSON
        CORP on STN
        ACTV ACTIVITY - Antiinflammatory; antiimmunoallergic;
        keratinocyte
        antiproliferation agent; dermatological; antirheumatic;
        antioxidant;
        antiarthritic; ophthalmological; cytostatic;
        immunosuppressive;
        antidiabetic; anti-HIV; endocrinal; cardiant; osteopathic;
        vasotropic; antiarteriosclerotic; antiseborrheic;
        antiasthmatic.
        .
        .
        .

=> S ?ANTI? (1T) ?ALLERG?
        1134522 ?ANTI?
        33784 ?ALLERG?
L6      17451 ?ANTI? (1T) ?ALLERG?

=> S L6 NOT L2

L7      1743 L6 NOT L2

=> D KWIC=10 2 10

L7      ANSWER 2 OF 1743 WPIX COPYRIGHT 2007 THE THOMSON CORP
        on STN
        TECH. . .
        agent comprises angiogenic inhibitors; anti-inflammatory
        agents; tyrosine kinase inhibitors; anti-infectives; anti-
allergic agents; cyclooxygenase inhibitors; decongestants;
        anti-glaucoma agents; phosphatidyl-inositol kinase
        inhibitors; gamma-aminobutyric. . .

L7      ANSWER 10 OF 1743 WPIX COPYRIGHT 2007 THE THOMSON CORP
        on STN
        NOV. . . . portion may have at least one of a mite-
        proof layer,
anti-allergens and anti-fungicides. The highest mean
        temperature, which may be at..
```

This search strategy retrieves records containing the term antiallergic.

The same query also retrieves records in which anti and allerg are not adjacent but are within the same word.

(1T) proximity allows you to retrieve records in which the fragments are in a hyphenated word.

INPADOCDB The enhanced INPADOC database

What is INPADOCDB, and how does it differ from INPADOC?

The European Patent Office (EPO) recently harmonized their two data files INPADOC(PRS) and DOCDB. This new collection of data is now available on STN as the INPADOCDB database. (The INPADOC database became static on April 29, 2007, and was removed from STN on June 10, 2007.)

New and enhanced content

INPADOCDB covers over 63 million documents contained in more than 51 million records. Coverage begins in:

- 1836 – US patents
- 1840 – British patents
- 1879 – German patents
- 1900 – French patents
- 1944 – Japanese patents

INPADOCDB includes more than 7 million records with publication years prior to 1968. The database also includes many additional abstracts (mostly in English), compared to INPADOC, as well as original bibliographic data and abstracts. European patent classifications (ECLA, ICO, and IDT) are included.

INPADOCDB uses the DOCDB format for patent kind codes. A table comparing INPADOC and INPADOCDB kind codes is available at www.stn-international.de/stndatabases/details/pk_codes.pdf.

Find patent documents relating to production of the noble gases krypton and xenon. Display the patent family for a recent answer.

```
=> FILE INPADOCDB
=> S (KRYPTON OR XENON)(L)(MANUF? OR PROD?)
. . .
L1 1251 (KRYPTON OR XENON)(L)(MANUF? OR PROD?)

=> D L1 4 MAX.F

L1 ANSWER 4 OF 1251 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA
on STN

AN 52660764 INPADOCDB ED 20070222 EW 200708 UP 20070222
UW 200708

DT Patent
PI CN 1911789 A 20070214
PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.
DAV 20070214 unexamined-printed-without-grant
STA PRE-GRANT PUBLICATION
AI CN 2006-10114858 A 20060809
AIT CNA Patent application
PRAI DE 2005-102005037576 A 20050809 (DEA, 20070215)
PRAIT DEA Patent application
IPCI C01B0023-00 [I,A]; C01B0023-00 [I,C*]
EPC C01B0023-00D2
ICO M01B0210:00W8; M01B0210:00W10; M01B0210:00W18
FA AI; AN; DAV; DT; ED; EPC; EW; ICO; IPC; IPCI; PI; PIT;
PRAI

AN 52656716 INPADOCDB ED 20070215 EW 200707 UP 20070215
UW 200708
TI Verfahren und Vorrichtung zur Gewinnung von Krypton
und/oder Xenon.
TL German
IN MEILINGER, MATTHIAS
INS MEILINGER MATTHIAS, DE
PA LINDE AG
PAS LINDE AG, DE
DT Patente
PI DE 102005037576 A1 20070215
PIT DE1 DOC. LAID OPEN (FIRST PUBLICATION)
DAV 20070215 unexamined-printed-without-grant
STA PRE-GRANT PUBLICATION
AI DE 2005-102005037576 A 20050809
AIT DEA Patent application
PRAI DE 2005-102005037576 A 20050809 (DEA, 20070215)
PRAIT DEA Patent application
IPCI C01B0023-00 [I,A]; C01B0023-00 [I,C*]
EPC C01B0023-00D2
ICO M01B0210:00W8; M01B0210:00W10; M01B0210:00W18
.
.
.
```

The MAX.F display format includes all family members at all levels.

The fee is the same as for a full family display.

The documents are sorted in publication year order.

Database enhancements

INPADOCDB uses new accession numbers (/AN), so answer sets in INPADOC are not valid in the new database. Simultaneous left and right truncation (SLART) is available for the Basic Index (/BI), Abstract (/AB), and Title (/TI) fields. The publications within a patent record are sorted by publication date (/PD) and not by file entry date (/ED).

Enter HELP CHANGE at an arrow prompt (=) in INPADOCDB for a complete list of new search and display fields as well as the list of removed fields.

New legal status categories

New legal status categories provide easy access to specific legal status information.

- CHG – Change of owner, inventor, applicant
- EXA – Examination, Search Report
- LIC – Licensing
- NIF – Lapses, Expiries, Withdrawals, Refusals
- ORE – Opposition, Reexamination
- REI – Reinstatement or Restoration
- SPC – Suppl. Product Certificate, Time Extension

The legal status categories are searchable in the /LSC2 field.

```

ABDE  Das Verfahren und die Vorrichtung dienen zur Gewinnung
      von Krypton und/oder Xenon durch Tieftemperatur-
      Luftzerlegung. Krypton und Xenon werden zu einem
      Krypton-Xenon-Konzentrat angereichert. Mittels
      Destillation wird Krypton und/oder Xenon aus dem
      Krypton-Xenon-Konzentrat gewonnen. Das Krypton- Xenon-
      Konzentrat wird vor der Destillation ueber ein
      Katalysatorbett geleitet, das TiO.prgprh.2.prgprh.
      und/oder ZrO.prgprh.2.prgprh. enthaelt. Dabei wird
      mindestens eine in dem Krypton-Xenon-Konzentrat
      enthaltene Halogenverbindung umgesetzt.
AL    German
AS    national office
FA    ABDE; AI; AN; DAV; DT; ED; EPC; EW; ICO; IN; INS; IPC;
      IPCI; PA; PAS; PI; PIT; PRAI; TI
AN    52653331 INPADOCDB ED 20070215 EW 200707 UP 20070222
      UW 200708
TI    Verfahren und Vorrichtung zur Gewinnung von Krypton
      und/oder Xenon.
      Process and apparatus for the production of krypton
      and/or xenon.
      Procede et dispositif pour la production de krypton
      et/ou de xenon.
TL    German; English; French
IN    MEILINGER, MATTHIAS, DR.
INS   MEILINGER MATTHIAS DR, DE
PA    LINDE AKTIENGESELLSCHAFT
PAS   LINDE AG, DE
DT    Patent
PI    EP 1752417          A1 20070214 German
PIT   EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT
DAV   20070214 examined-printed-without-grant
STA   PRE-GRANT PUBLICATION
DS    R:                AT BE BG CH CY CZ DE DK EE ES FI FR GB
      GR HU IE IS IT LI LT LU LV MC NL PL PT
      RO SE SI SK TR
XS    R:                AL BA HR MK YU
AI    EP 2005-20457      A 20050920
AIT   EPA Patent application
PRAI  DE 2005-102005037576 A 20050809 (DEA, 20070215)
PRAIT DEA Patent application

REP   US 5994604          (SEA, pat, Cat: X)
      EP 0863375          A1 (SEA, pat, Cat: X)
      US 6565821          B1 (SEA, pat, Cat: A)
      EP 0412456          A2 (SEA, pat, Cat: A)
IPCI  C01B0023-00 [I,A]; A62D0003-00 [I,A]; C01B0023-00
      [I,C*]; A62D0003-00 [I,C*]
EPC   C01B0023-00D2
ICO   M01B0210:00W8; M01B0210:00W10; M01B0210:00W18
FA    AI; AN; DAV; DS; DT; ED; EPC; EW; ICO; IN; INS; IPC;
      IPCI; LA; PA; PAS;
      PI; PIT; PRAI; REP; TI
CHG   CIT A

LEGAL STATUS
AN    52653331 INPADOCDB
20070214 EPAX          + DESIGNATED CONTRACTING STATES:
                        EP
                        A1
                        AT BE BG CH CY CZ DE DK EE ES FI FR
                        GB GR HU IE IS IT LI LT LU LV MC NL
                        PL PT RO SE SI SK TR
                        200707.....20070215
20070214 EPAX          + EXTENSION OF THE EUROPEAN PATENT TO
                        AL BA HR MK YU
                        200707.....20070215
20070404 EP18W        - WITHDRAWN
                        20070219
                        NIF Lapses, Expiries, Withdrawals, Refusals
                        200714.....20070405
                        .
                        .
  
```

Abstracts may be in English, French, German, Spanish, or other languages.

Citations are displayed in the REP field.

Legal status information is also displayed.

New citation fields

Cited references from both patent and nonpatent literature for 12 offices (AU, BE, CH, DE, EP, FR, GB, JP, NL, TR, US, and WO) are included. The new citation search and display fields are:

- REP – Cited patent information
- REN – Cited non-patent literature
- REXP – EPO cited document number
- SRT – Search report type
- CAT – Relevancy indicators from search report

You can access the definitions of the relevancy indicators by entering HELP CAT at an arrow prompt (=>) in INPADOCDB.

Current-awareness alerts (SDIs) in INPADOCDB

Your INPADOC current-awareness alerts were automatically moved to the new INPADOCDB database. You do not need to take any action unless the query includes patent kind codes. In that case, you should review the query and edit it based on the changes in kind codes.

Additional Resources

For more information, visit www.stn-international.de/training_center/patents/inpadocdb_workshop.pdf.

See also the INPADOCDB Database Summary Sheet at www.cas.org.

```

AN      52886050 INPADOCDB ED 20070329 EW 200713 UP 20070329
        UW 200713
DT      Patent
PI      JP 2007045702          A 20070222
PIT     JPA DOC. LAID OPEN TO PUBL. INSPEC. [PUBLISHED FROM
        1971 ON]
DAV     20070222 unexamined-printed-without-grant
STA     PRE-GRANT PUBLICATION
AI      JP 2006-207632          A 20060731
AIT     JPA Patent application
PRAI    DE 2005-102005037576 A 20050809 (DEA, 20070215)
PRAIT   DEA Patent application
IPCI    C01B0023-00 [I,A]; F25J0003-04 [I,A]; C01B0023-00
        [I,C*]; F25J0003-04 [I,C*]
EPC     C01B0023-00D2
ICO     M01B0210:00W8; M01B0210:00W10; M01B0210:00W18
FA      AI; AN; DAV; DT; ED; EPC; EW; ICO; IPC; IPCI; PI; PIT;
        PRAI

AN      52729354 INPADOCDB ED 20070301 EW 200709 UP 20070301
        UW 200709
TI      Process and apparatus for obtaining krypton and/or
        xenon.
TL      English
IN      MEILINGER MATTHAIS
INS     MEILINGER MATTHAIS, DE
PAS     MEILINGER MATTHAIS
DT      Patent
PI      US 20070033968          A1 20070215 English
PIT     USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001
        ONWARDS]
DAV     20070215 unexamined-printed-without-grant
STA     PRE-GRANT PUBLICATION
AI      US 2006-498258          A 20060803
AIT     USA Patent application
PRAI    DE 2005-102005037576 A 20050809 (DEA, 20070215)
PRAIT   DEA Patent application
IPCI    F25J0003-00 [I,A]; F25J0003-00 [I,C*]
NCL     062648000; X062925000
EPC     C01B0023-00D2
ICO     M01B0210:00W8; M01B0210:00W10; M01B0210:00W18
AB      The process and apparatus are used to obtain krypton
        and/or xenon by cryogenic separation of air. Krypton
        and xenon are enriched to form a krypton/xenon
        concentrate. Krypton and/or xenon is obtained from the
        krypton/xenon concentrate by means of distillation.
        Prior to distillation, the krypton/xenon concentrate
        is passed over a catalyst bed which contains TiO<SUB>2
        </SUB>and/or ZrO<SUB>2</SUB>. In the process, at
        least one halogen compound contained in the pton/xenon
        concentrate is reacted.

AL      English
AS      national office
FA      AB; AI; AN; DAV; DT; ED; EPC; EW; ICO; IN; INS; IPC;
        IPCI; LA; NCL; PAS; PI; PIT; PRAI; TI

        3 priorities, 6 applications, 6 publications
    
```

The publications are summarized at the end of the display.

New CAS web site offers many resources for STN searchers



If you haven't visited www.cas.org recently, you may be in for a pleasant surprise. In April, the CAS web site was reorganized and streamlined to improve the experience for visitors – both long-time STN searchers and those new to STN.

Site navigation

The Support pages will be of most interest to STN searchers.

With the **Support** drop-down menu, you can quickly access general STN information as well as interface-specific information for STN Express[®], STN[®] AnaVist[™], STN[®] Viewer[™], STN[®] on the WebSM, and STN Easy[®].

The **Our Expertise** pages describe the content that CAS scientists index and abstract to create the CAS databases.

In addition, you may wish to browse the **About CAS** and **News & Events** pages for information about the CAS 100th Anniversary and other CAS news and press releases.

STN Support

The general **STN** Support page serves as your one-stop shop for STN resources:

- Latest news about STN
- Database summary sheets and user documentation
- Training opportunities
- Technical support

Latest news about STN

The **STNews** page now provides access to articles in HTML as soon as they are ready for publication.

Database News, including the latest information about database enhancements and reloads, is posted monthly.

PDF versions of printed STNews are added four times per year. Issues and indexes for the three previous years are also available.

Database summary sheets and user documentation

Database Summary Sheets offer up-to-date information about each database on STN. These files include bookmarks for easy browsing, are fully searchable, and allow you to easily copy/paste, print, and save the information.

A list of predefined database clusters and a list of databases with simultaneous left and right truncation (SLART) are also included.

Quick Reference Cards, STNotes, and other **User Documentation** are now accessible by topic, as well as by type of document. For example, you can now easily locate all of the documents related to searching property data.

Training opportunities

The **Training** page provides information on instructor-led and web-based STN training sessions. From this page, link to the STN Workshops, User Updates, and Patent Forums training schedule, download training materials, or visit the CAS e-Seminars WebEx site.

The STN Workshop and User Meeting Registration Form lets you easily register to attend any of the instructor-led sessions.

Technical support


The **Technical Support** pages offer web-based solutions for many technical issues. If you cannot find the answer you are looking for, contact information for CAS Customer Care is also provided. Assistance is only a phone call or e-mail message away.

The general STN Support page serves as your one-stop shop for STN resources.

Home ▸ Support ▸ STN

STN Support Information

STN offers a variety of resources to support your search for chemical and related scientific information - from the latest news and feature articles from *STNews* to training opportunities, user documentation, and technical support.



STN Support Resources

- [STN Database Summary Sheets](#) - detailed information for each database on STN, including search fields, display formats, examples, and a list of database clusters
- [STNews](#) - the latest news on STN from the official STN newsletter
- [STN User Documentation](#) - quick reference cards, STNotes, user guides, self-instructional manuals, and additional reference material
- [STN Training](#) - instructor-led and Web-based training on STN
- [Technical Support](#) - solutions to common technical problems, such as connecting to and logging on to STN

Additional information

The general **STN** Support page offers links to a variety of additional information, including:

- STN Products & Services information, including pricing, licensing, and lists of the latest features
- Support information for the STN interfaces: STN Express, STN AnaVist, STN Viewer, STN on the Web, and STN Easy
- Support for academics
- Information about CAS database content, for example, patent coverage in CAplus

Be sure to follow these links to learn more about what STN has to offer.

STN user documentation is now available by topic.

Documentation is available for the following topics:

- [STN Commands and Features](#)
- [Searching for...](#)
 - [Chemical literature and patents \(CA/CAplus\)](#)
 - [Substances: Getting Started in REGISTRY](#)
 - [Structures \(REGISTRY\)](#)
 - [Sequences \(REGISTRY\)](#)
 - [Polymers \(REGISTRY\)](#)
 - [Coordination Compounds \(REGISTRY\) \(PDF\)](#)
 - [CAplus Super Roles and Document Types \(REGISTRY\) \(STNote 34; PDF\)](#)
- [Markush Structures \(MARPAT\)](#)
- [Patent Information](#)
- [Reactions](#)
- [Property Data](#)
- [Citations](#)

Now available

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A new workflow productivity tool for patent information users

STN Viewer is a web-based workflow productivity tool for patent information users. It is designed for simple management and evaluation of full-text patent documents from STN Express[®] answer sets.

With STN Viewer, you can:

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- Quickly evaluate patents for relevancy
- Reduce the time needed to evaluate large patents
- Improve communication of patent evaluation results

STN Viewer is the only patent evaluation tool integrated with the high-quality full-text patent databases on STN[®] and the precise searching capabilities and post-processing features of STN Express. With STN Viewer, you can:

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- Create custom patent information projects and share them electronically with patent agents, patent attorneys, research scientists, and others
- Display major sections, the entire full-text patent document, or view the original patent document via ChemPort[®]



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CAS web site: www.cas.org

- Access publication stage and patent family information, including legal status and designated states
- Locate terms of interest – specify concepts, phrases, and numbers for text highlighting
- Streamline navigation of large patents with the easy-to-use document highlighting map

To use STN Viewer:

1. Conduct a search in STN Express, Version 8.2, in one or more patent-containing databases.
2. Click an L-number or a patent number from a displayed patent record and select **Evaluate with STN Viewer**.

When **Evaluate with STN Viewer** is selected, patent documents are retrieved from STN full-text patent databases and sent to STN Viewer, launched in your default web browser. If you have existing patent projects in STN Viewer, they may be accessed directly at <https://cas.stn.org/viewer>.

STN Viewer combines the power of STN with an easy-to-use interface for efficient patent management and evaluation. For additional information, including pricing, visit the Products & Services web pages for STN Viewer and STN Express at www.cas.org.

Watch future issues of *STNews* for additional information about STN Viewer.

CAS Registry Number[®] crossover limit increased to 300,000 in multiple databases

The crossover limit for CAS Registry Numbers (RN) has increased from 10,000 to 300,000 in eight databases.

- ANABSTR
- BIOTECHNO
- CBNB
- CHEMINFORMRX
- CSNB
- DDFU
- PATDPASPC
- ULIDAT

There is a charge to crossover each CAS Registry Number into non-CAS databases. Enter HELP COST in the CAS REGISTRYSM database for details.



STN Express® now free to all STN® users

STN Express, Version 8.2, is now available for the Windows® operating system. The new version includes several important updates. Plus, the software is now free to all STN users, regardless of which version you currently use or if you are new to STN Express.

Software enhancements for STN® Viewer™

Full-text patent documents from patent searches in STN Express can now be managed and evaluated in STN Viewer, a new web-based workflow productivity tool for patent information users. STN Express, Version 8.2, includes several options to launch STN Viewer:

- Click a patent number within a displayed record, an L-number, or the *Discover!* button and select **Evaluate with STN Viewer**
- In the Select *Discover!* Wizard window, select an L-number and click **Evaluate with STN Viewer**

If you have existing patent projects in STN Viewer, they may be accessed from STN Express by clicking the **STN Viewer** toolbar button or by selecting **Logon > STN Viewer**.

No-cost software licensing

STN Express software for Windows (and Macintosh®, Version 6.0) is now free to all STN users. Current software licensing has been modified to remove single and shared use license designations. Authorized use of STN Express software by all users at all sites within an organization is now covered under a new software license agreement.

Software maintenance fixes

- New types of spectra added to the "Get spectra" option in the STN Chemical Name Search Wizard
- Improved compatibility with Derwent World Patents Index® (DWPISM) and INPADOCDB databases

Upgrading to Version 8.2

To upgrade to the new version from any previous version of STN Express:

1. Launch STN Express.
2. Select **Web** from the toolbar.
3. Select the appropriate STN Service Center.
4. Select **Free Maintenance Upgrades**.

For customers with an STN login ID and password, STN Express, Version 8.2, is also available via the STN Software License and Download web site (<https://casweb.cas.org/stnexpress/html/english/login.html>). To obtain the software on CD-ROM, visit the Products & Services web pages for STN Express at www.cas.org.

STNews

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Staff, North American Edition:

Editor: Alena Miller

FIZ Karlsruhe

Dr. Gerhard Herlan

Contributing Editors:

Jim Blake
Peter Carlton
Elizabeth Haines
Ramona Joseph

Design/Production:

Pat Farnlacher
Nadine Mosley

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2007 CAS Trade Shows

ACS National Fall Meeting

Boston, Massachusetts

August 19-23

IPO Annual Meeting (Intellectual Property Owners Association)

New York, New York

September 10-12

Agricultural Biotechnology International Conference (ABIC)

Calgary, Canada

September 23-26

BioTech Forum

Stockholm, Sweden

September 24-26

RICH-MAC

Milan, Italy

October 2-5

PIUG Northeast Workshop (Patent Information Users Group)

New Brunswick, New Jersey

October 9

EPO Patent Information Conference (European Patent Office)

Riga, Latvia

October 16-18

AIPLA (American Intellectual Property Law Association)

Washington, DC

October 18-20

ICIC 2007

Barcelona, Spain

October 21-24

SERM (ACS Southeast Regional Meeting)

Greenville, South Carolina

October 24-27

STNews binders available



Need a binder for your 2006 issues of *STNews*? Want a binder for your 2007 issues? CAS has *STNews* binders available.

To request your free binder, contact CAS Customer Care at help@cas.org. Be sure to include your name and complete address with your request.

SWRM (ACS Southwest Regional Meeting)

Lubbock, Texas

November 4-7

WissKom

Julich, Germany

November 6-8

BioOhio

Columbus, Ohio

November 12-13

BioEurope

Hamburg, Germany

November 12-14

BioNorth 2007 (Biotechnology Canada Conference)

Ottawa, Canada

November 20-21

Online Information

London, England

December 4-6

2007 CAS e-Seminars

8/9	9:00-10:00 a.m.	STN® Case Study – Adhesives (rebroadcast)
8/28	1:00-2:00 p.m.	STN: Text-Based Techniques for Engineering Information
9/13	9:00-10:00 a.m.	STN: Text-Based Techniques for Engineering Information (rebroadcast)
9/25	1:00-2:00 p.m.	STN: Using Scripts and STN Tools to Make Searching Easier
9/27	1:00-2:30 p.m.	STN Continuing Education – STN: Post-Processing Tools in STN Express® with <i>Discover!</i> ™
10/11	9:00-10:00 a.m.	STN: Using Scripts and STN Tools to Make Searching Easier (rebroadcast)
10/30	1:00-2:00 p.m.	STN: Improving Searches by Including Patent Classification Codes
11/8	9:00-10:00 a.m.	STN: Improving Searches by Including Patent Classification Codes (rebroadcast)
11/27	1:00-2:00 p.m.	STN Case Study – Finding Petroleum/Petrochemical Information
12/13	9:00-10:00 a.m.	STN Case Study – Finding Petroleum/Petrochemical Information (rebroadcast)
12/13	1:00-2:30 p.m.	STN Continuing Education – STN: What's New?
12/18	1:00-2:00 p.m.	STN Case Study – Approaches for Finding Biotech Prior Art
1/10	9:00-10:00 a.m.	STN Case Study – Approaches for Finding Biotech Prior Art (rebroadcast)

All times are U.S. Eastern Time.

For a description or to register, visit <https://casevents.webex.com/>.

For a complete list of previously recorded e-Seminars and tutorials, select **STN e-Seminars > Recorded e-Seminars**. Topics include:

- STN® AnaVist™
- STN Express®
- Structure Techniques
- Patent Searching
- and more

2007 STN® instructor-led seminars

Boston, MA

8/20 11:30 a.m.-1:00 p.m. STN User Update

Atlanta, GA

9/11 9:00 a.m.-12:00 p.m. CAplusSM Subject Search Techniques
9/11 1:00 p.m.-4:00 p.m. Basic Patent Search Techniques
9/12 9:00 a.m.-12:00 p.m. Basic Substance Search Techniques
9/12 1:00 p.m.-4:00 p.m. STN User Update
9/13 9:00 a.m.-4:00 p.m. Structure Searching in CAS REGISTRYSM

All STN instructor-led seminars in North America are free, but registration is required.

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INPADOCDB Database Summary Sheet, STN Viewer flyer.

In case you missed it:

STNews Nov/Dec

- 2006 – Year in Review
- Enhancements to Derwent World Patents Index
- Structure searching for double bond stereochemistry
- HELP is at hand!
- LOGOFF HOLD duration extended to 120 minutes
- Free maintenance release of STN Express with *Discover!* (Version 8.01c) now available
- CAS Registry Number crossover limit increased

STNews 2007 – Issue 1

- New CA index name rules in 2007
- F-Term thesaurus enhancements
- 2007 prices available
- CAS Registry Number crossover limit increased to 300,000 in multiple databases
- IPC version 2007.01 thesaurus available on STN

You can find it easily by searching the CAS web site at www.cas.org.

In North America

CAS
STN North America
P.O. Box 3012
Columbus, Ohio 43210-0012 U.S.A.
CAS Customer Care:
Phone: 800-753-4227 (North America)
614-447-3700 (worldwide)
Fax: 614-447-3751
E-mail: help@cas.org
Internet: www.cas.org

In Europe

FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
E-mail: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.de

In Japan

JAICI (Japan Association for International
Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-3600
E-mail: support@jaici.or.jp (Technical Service)
customer@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp

