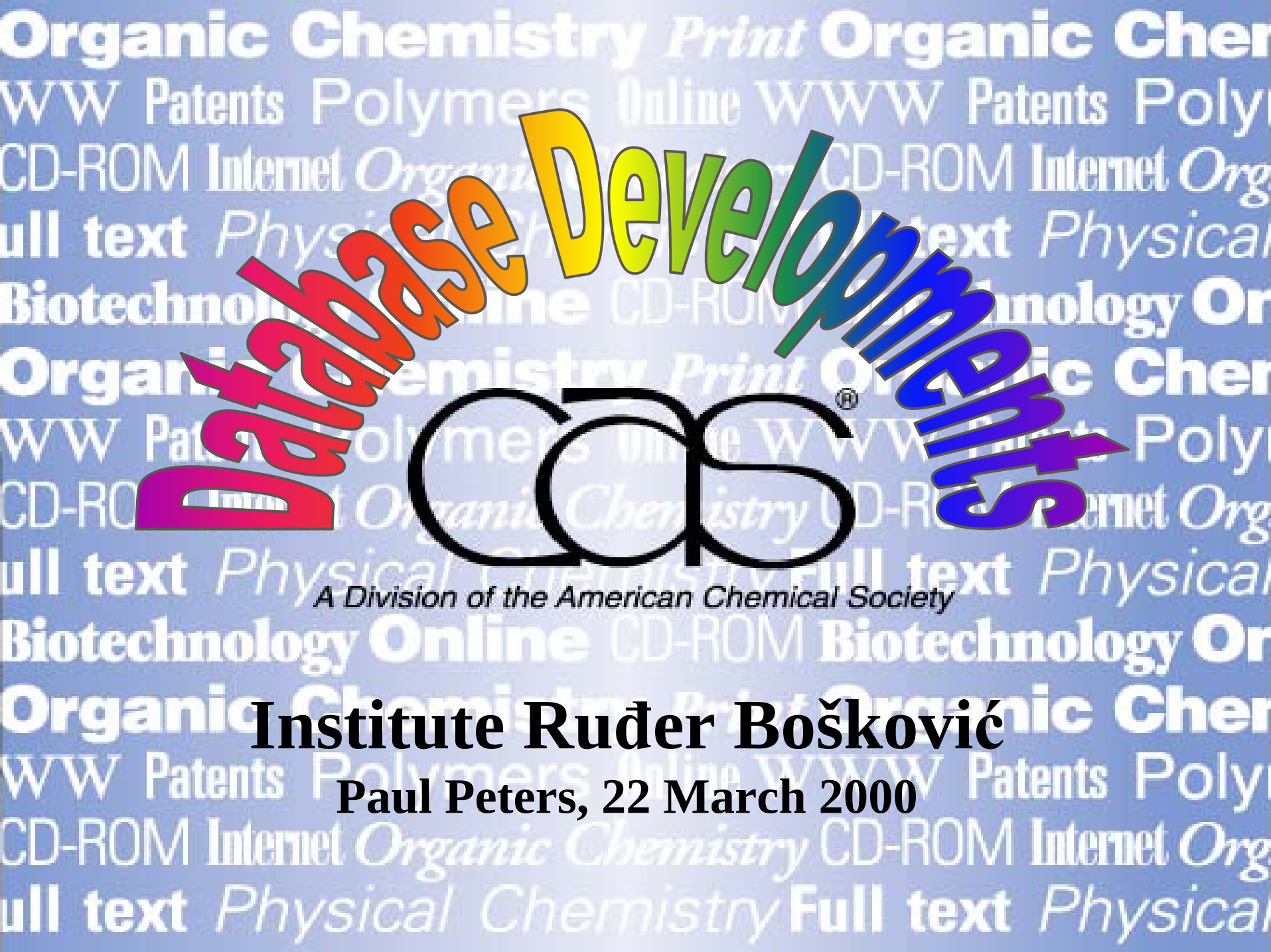

Institute Ruđer Bošković

Paul Peters, 22 March 2000

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  - Patents
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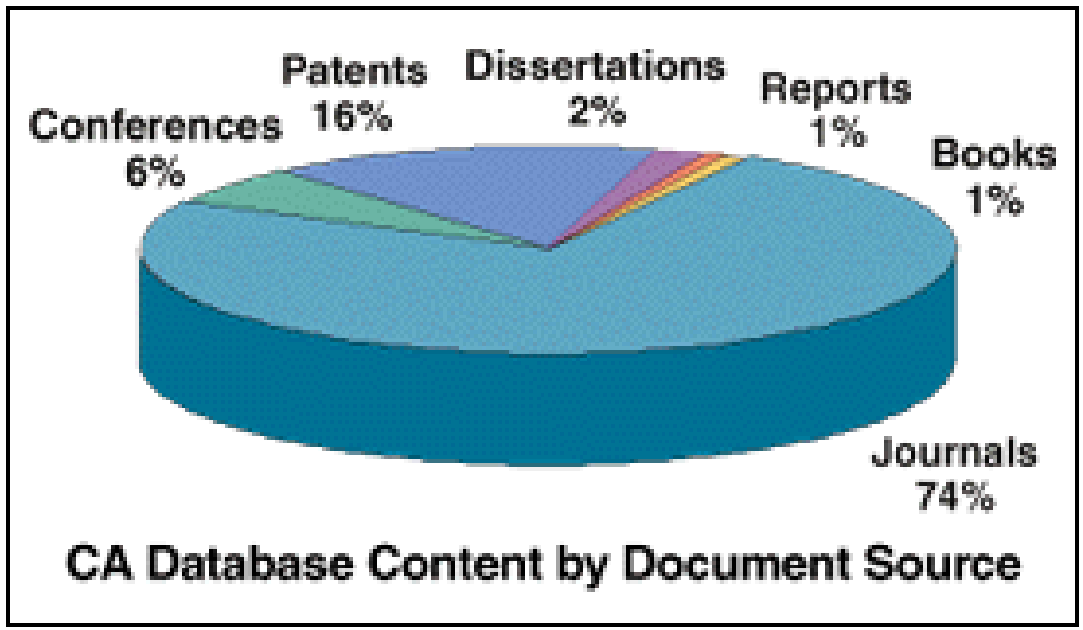
- other sources



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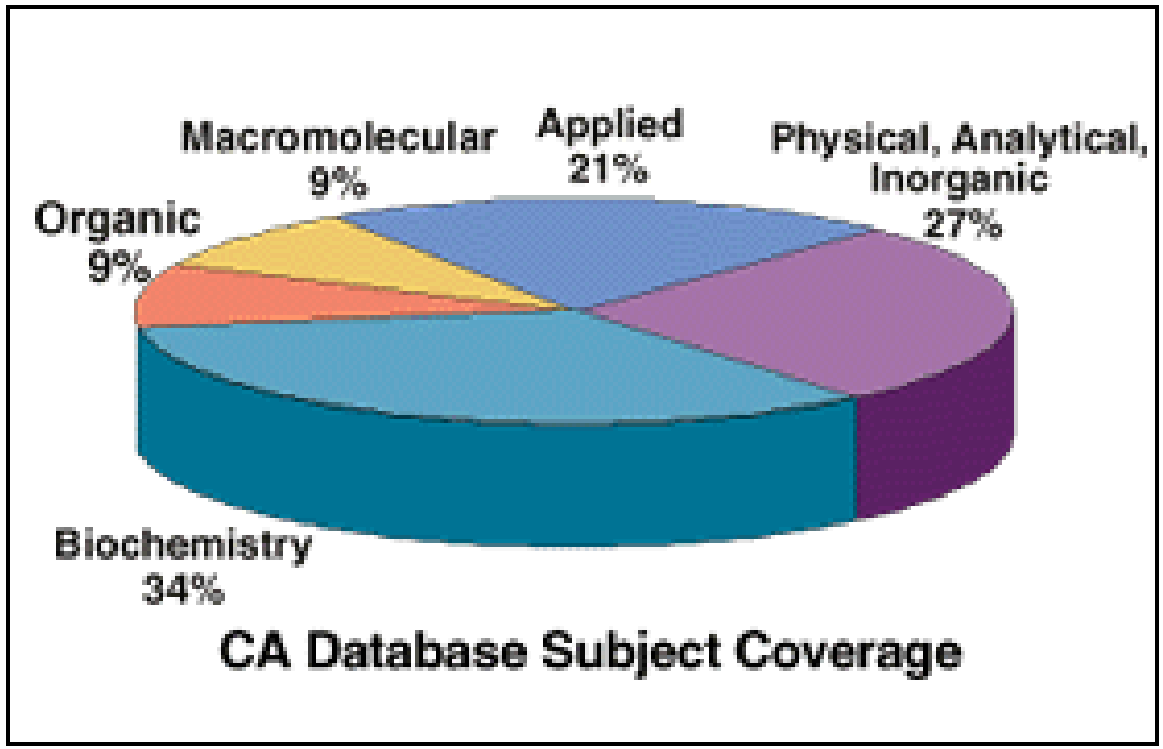
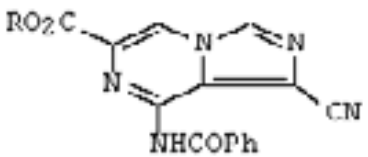
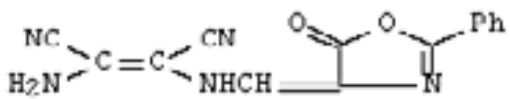


CAplus: Sample Record

AN 1999:788576 CAPLUS Full-text
DN 132:166211
TI Use of diaminomaleonitrile in the synthesis of imidazo[1,5-a]pyrazines
AU Trcek, Tomaz; Vercek, Bojan
CS Fak. Kem. Kem. Tehnol., Univ. Ljubljana, Ljubljana, 1000, Slovenia
SO Zb. Ref. Posvetovanja Slov. Kem. Dnevi (1999), 284-287. Editor(s): Glavic, Peter; Brodnjak-Voncina, Darinka. Publisher: Fakulteta za Kemijo in Kemijsko Tehnologijo Univerze v Mariboru, Maribor, Slovenia.
CODEN: 60KMAE
DT Conference
LA Slovenian
CC 20-17 (Heterocyclic Compounds (More Than One Hetero Atom))
GI



I



II

AB Two new methods for the synthesis of imidazo[1,5-a]pyrazines (I; R = Et, Pr, Me2CH, Me2CHCH2, pentyl) are described. Both methods have the same starting material (II) but different sequences of opening of the oxazoline ring and formation of the imidazole ring.

CAplus: Sample Record

ST maleonitrile amino oxooxazolinylidenemethylamino conversion
imidazopyrazine; imidazopyrazinecarboxylate benzamidocyano prepn

IT 122-51-0, Triethyl orthoformate
RL: RCT (Reactant)
(in imidazo[1,5-a]pyrazine deriv. prepn.)

IT 258338-24-8P 258338-25-9P 258338-26-0P 258338-27-1P 258338-28-2P
258338-34-0P 258338-35-1P 258338-36-2P 258338-37-3P 258338-38-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization reaction with tri-Et orthoformate)

IT 258338-23-7P 258338-29-3P 258338-30-6P 258338-31-7P 258338-32-8P
258338-33-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 258338-22-6
RL: RCT (Reactant)
(reaction with alcs. and with tri-Et orthoformate)

CAS Registry number and Role

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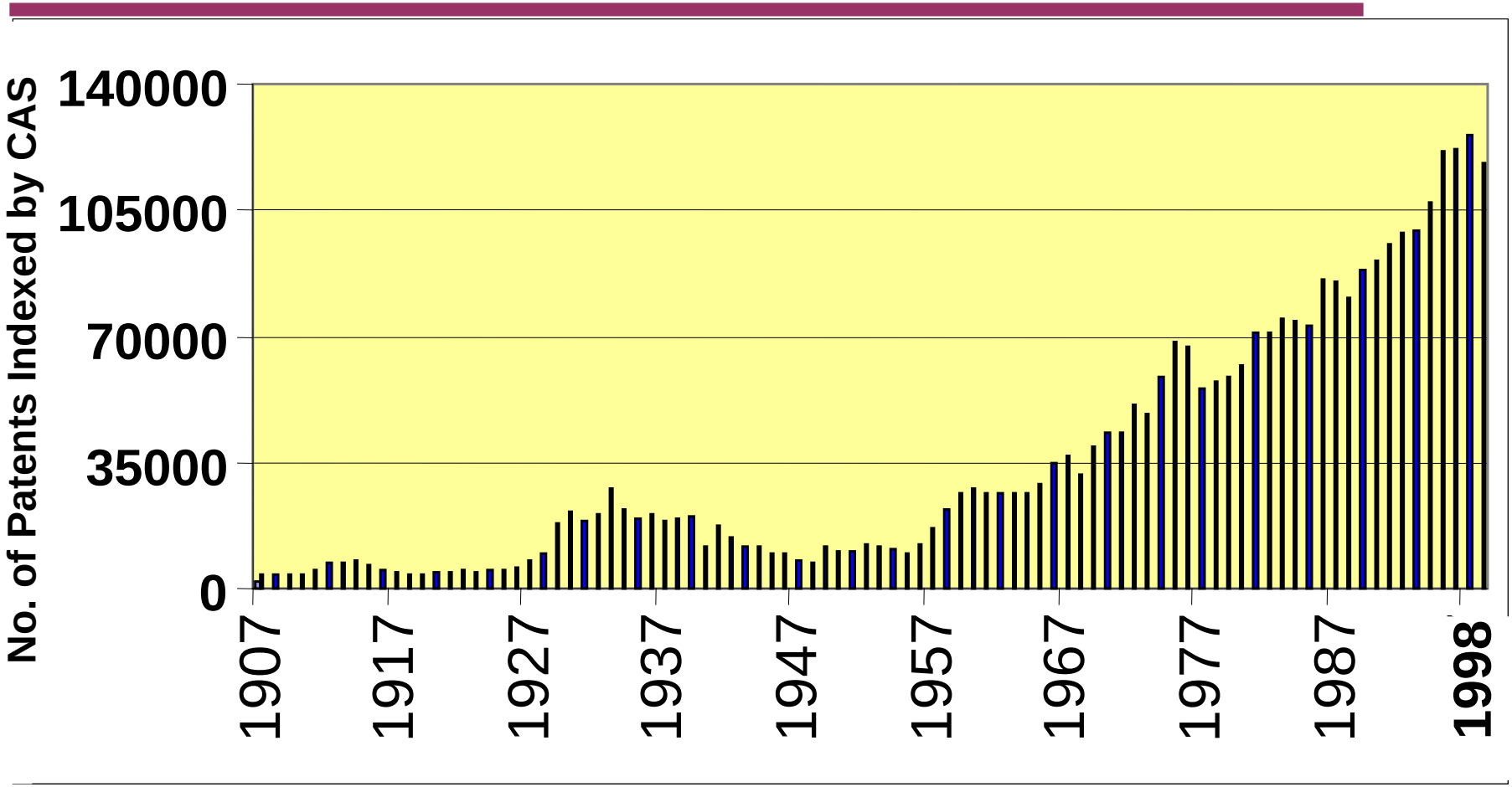
Growth of Chemical Patents 1907-1999



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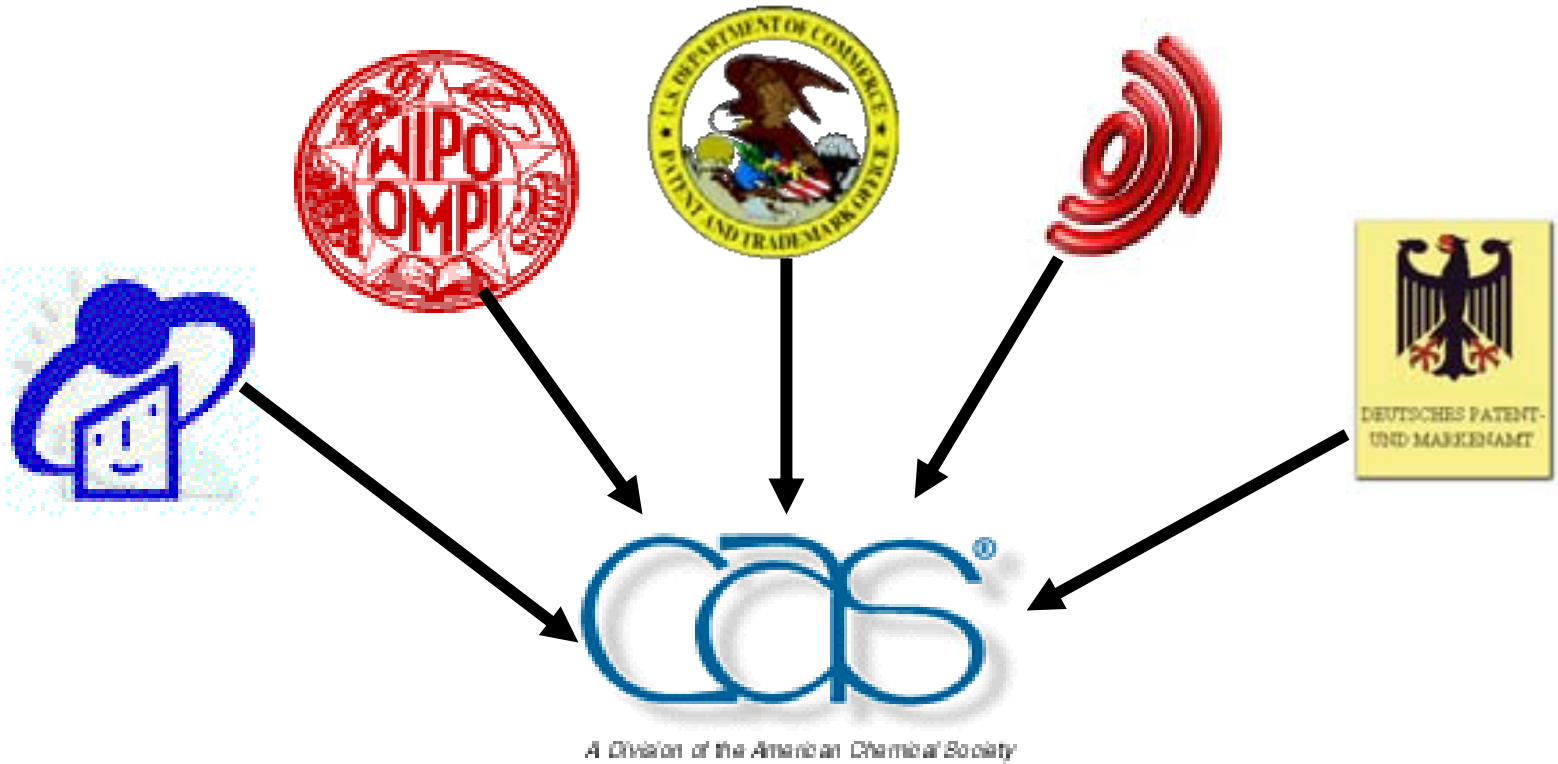

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GPO (DE/PC)	17 Feb 2000	(20000217/PD)	16 Mar 2000
JPO (JP/PC)	18 Feb 2000	(20000218/PD)	14 Mar 2000
WIPO (WO/PC)	13 Jan 2000	(20000113/PD)	09 Mar 2000

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  - IPCs
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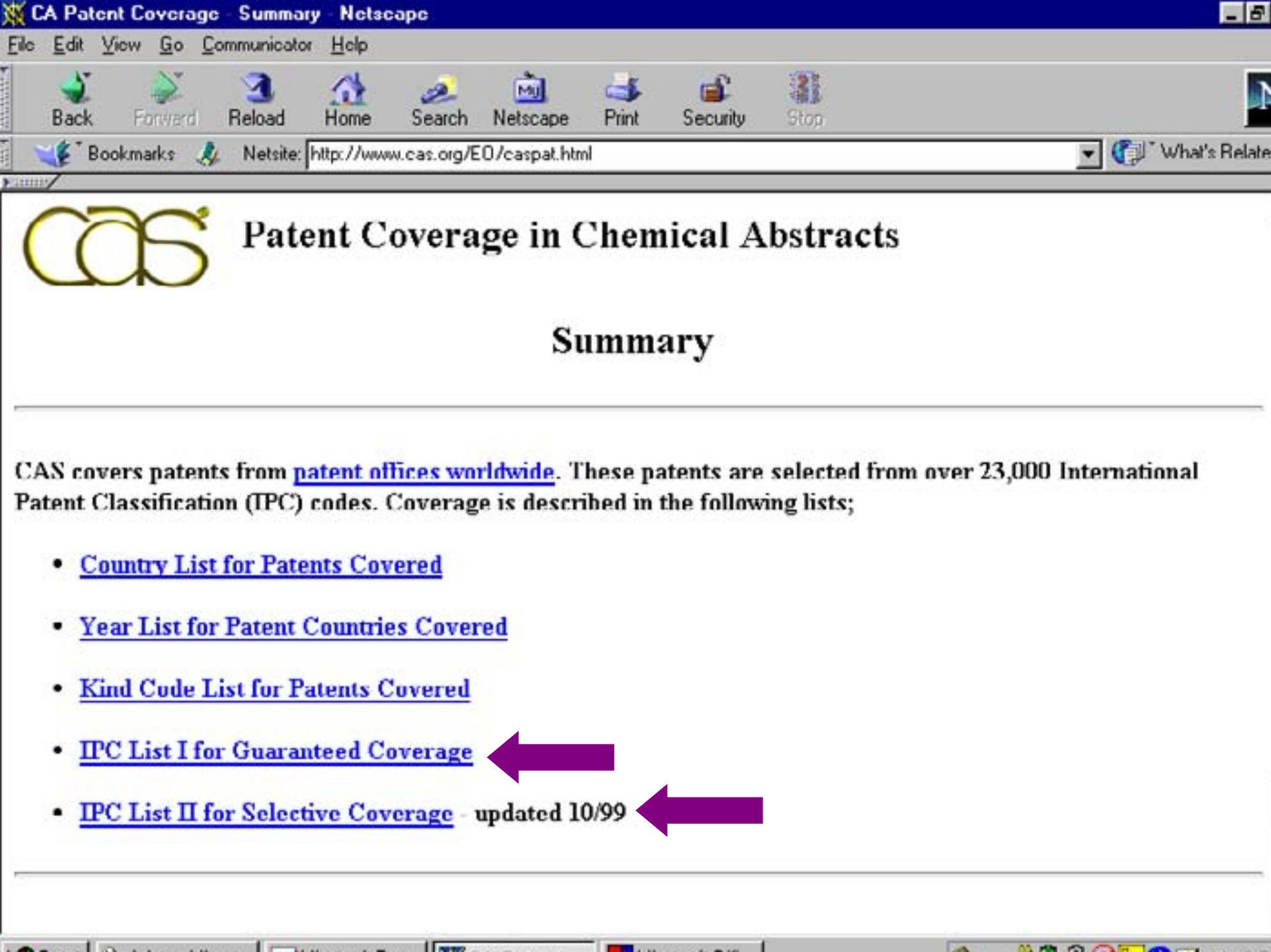
- **http://www.cas.org/EO/caspat.html**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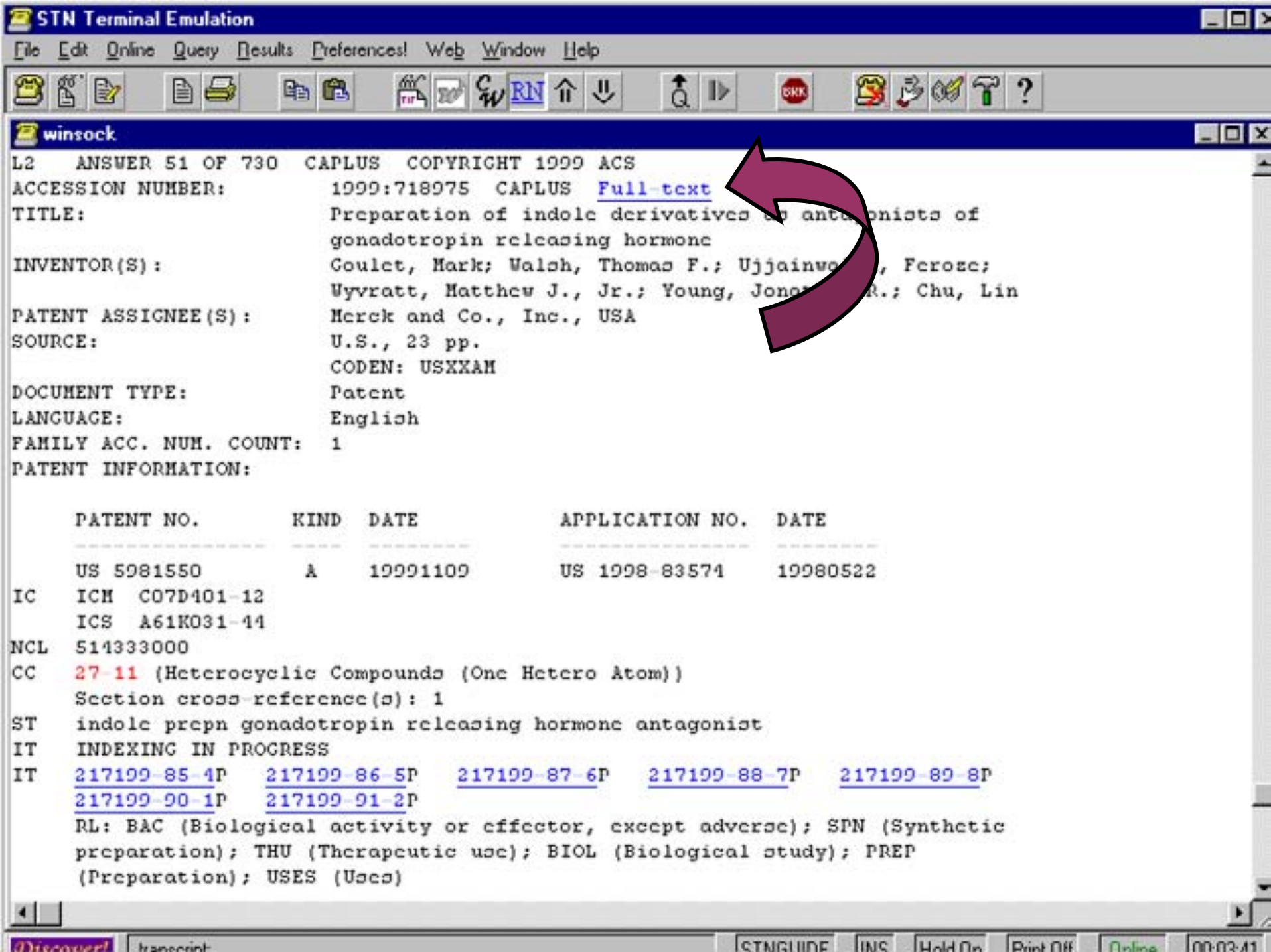
STN Terminal Emulation
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winsock
L2 ANSWER 51 OF 730 CAPLUS COPYRIGHT 1999 ACS
ACCESSION NUMBER: 1999:718975 CAPLUS Full-text
TITLE: Preparation of indole derivatives as antagonists of gonadotropin releasing hormone
INVENTOR(S): Goulet, Mark; Walsh, Thomas F.; Ujjainwalla, Feroze; Wyvratt, Matthew J., Jr.; Young, Jonathan R.; Chu, Lin
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 23 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
US 5981550 A 19991109 US 1998-83574 19980522
IC ICM C07D401-12
ICS A61K031-44
NCL 514333000
CC 27-11 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1
ST indole prepn gonadotropin releasing hormone antagonist
IT INDEXING IN PROGRESS
IT 217199-85-4P 217199-86-5P 217199-87-6P 217199-88-7P 217199-89-8P
217199-90-1P 217199-91-2P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

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"Preparation of indole derivatives as antagonists of gonadotropin releasing hormone",
Patent Number: **US5981550**

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(1 of 1)

United States Patent 5,981,550

Goulet , et al. November 9, 1999

Antagonists of gonadotropin releasing hormone

Abstract

There are disclosed compounds of formula (I) ##STR1## and pharmaceutically acceptable salts thereof which are useful as antagonists of GnRH and as such may be useful for the treatment of a variety of sex-hormone related and other conditions in both men and women.

US005981550A

United States Patent [19]

Goulet et al.

[11] **Patent Number: 5,981,550**

[45] **Date of Patent: Nov. 9, 1999**

[54] **ANTAGONISTS OF GONADOTROPIN RELEASING HORMONE**

[75] Inventors: **Mark Goulet**, Westfield; **Thomas F. Walsh**, Watchung; **Feroze Ujjainwalla**, Edison; **Matthew J. Wyvratt, Jr.**, Mountainside; **Jonathan R. Young**, Dayton; **Lin Chu**, Scotch Plains, all of N.J.

[73] Assignee: **Merck & Co., Inc.**, Rahway, N.J.

[21] Appl. No.: **09/083,574**

[22] Filed: **May 22, 1998**

Related U.S. Application Data

[60] Provisional application No. 60/048,630, Jun. 5, 1997, and provisional application No. 60/048,742, Jun. 5, 1997.

[51] **Int. Cl.**[6] **C07D 401/12**; A61K 31/44

[52] **U.S. Cl.** **514/333**; 514/339; 514/361; 514/370; 514/365; 514/383; 514/372; 546/277.4; 546/256; 546/270.4; 546/270.7; 548/131; 548/128; 548/214; 548/184; 548/251

[58] **Field of Search** 546/277.4, 256, 546/270.4, 270.7; 548/131, 128, 214, 184, 251; 514/339, 333, 361, 370, 365, 383, 372

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,544,663 10/1985 Manning et al. 514/378

0 219 292 A2 4/1987 European Pat. Off. .
0 679 642 A1 11/1995 European Pat. Off. .
2181559 12/1973 France .
WO90/05721 5/1990 WIPO .
WO95/28000 11/1995 WIPO .
WO97/21703 6/1997 WIPO .
WO97/21707 6/1997 WIPO .

OTHER PUBLICATIONS

CA 124:233030, Beu–Magnicre et al., 1996.

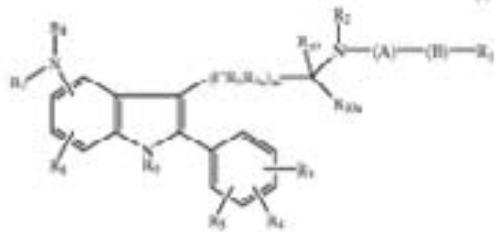
J. Med. Chem, vol. 32, pp. 2036–2038 (1989), by Clark, et al.

Primary Examiner—Jane Fan
Attorney, Agent, or Firm—Elliott Korsen; Mark R. Daniel

[57] **ABSTRACT**

There are disclosed compounds of formula (I)

(I)



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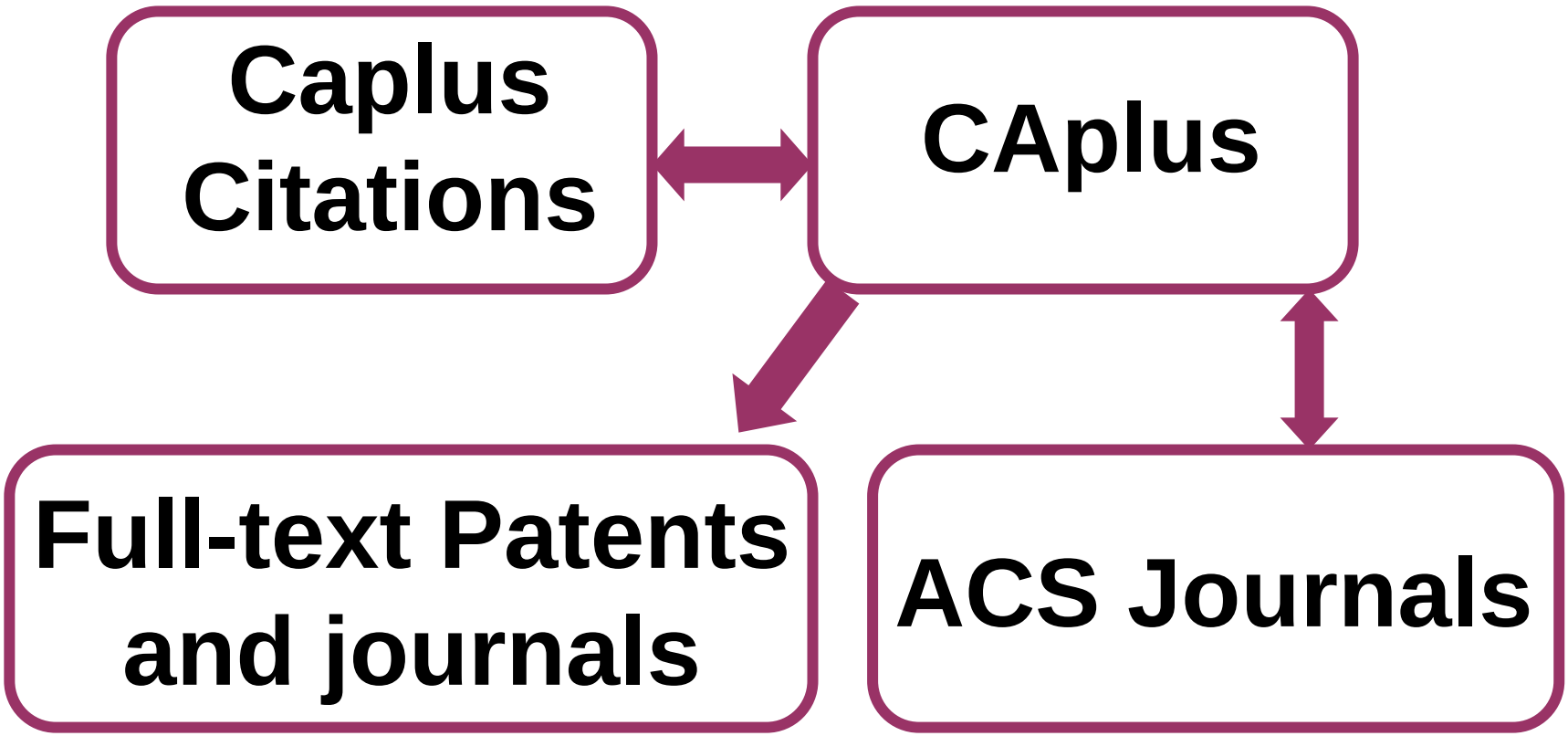

CAplus Citation -> Caplus Record

```
AN   1999:607401  CAPLUS
TI   Radical chain reactions of .alpha.-azido-.beta.-keto esters with
     tributyltin hydride. A novel entry to amides and lactams through
     regiospecific nitrogen insertion
AU   Benati, Luisa; Nanni, Daniele; Sangiorgi, Corrado; Spagnolo, Piero
CS   Dipartimento di Chimica Organica A. Mangini, Universita di Bologna,
     Bologna, I-40136, Italy
SO   J. Org. Chem. (1999), 64(21), 7836-7841
                              o o o

RE.CNT  41
RE
(1) Abramovitch, R; The Chemistry of The Azido Group 1971
(2) Antkowiak, R; Bull Acad Polon Sci, Ser Sci Chim 1975, V23, P723
(3) Antkowiak, R; 1976
(4) Benati, L; J Chem Soc, Perkin Trans 1 1997, P457
(5) Benati, L; J Org Chem 1998, V63, P4679
(6) Benati, L; J Org Chem 1999, V64, P5132
(7) Benati, L; Tetrahedron Lett 1978, P815
                              o o o
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CAplus Record -> Full-text

AN 1999:379050 CAPLUS Full-text
DN 131:144332
TI Reactions of Benzocyclic .beta.-Keto Esters with Sulfonyl Azides. 2. Further Insight into the Influence of Azide Structure and Solvent on the Reaction Course
AU Benati, Luisa; Nanni, Daniele; Spagnolo, Piero
CS Dipartimento di Chimica Organica A. Mangini, Universita di Bologna, Bologna, I-40136, Italy
SO J. Org. Chem. (1999), 64(14), 5132-5138
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 131:144332
AB The reactions of 2-ethoxycarbonyl-1-benzosuberone with 4-methoxybenzenesulfonyl, 2,4,6-triisopropylbenzenesulfonyl, methanesulfonyl, and trifluoromethanesulfonyl azide, in the presence of triethylamine, have been investigated in N,N-dimethylformamide, acetonitrile, or THF with the intent of clarifying the influence of both the azide electrophile and solvent on the reaction course. The present findings, in addn. to those previously obtained with tosyl and

J. Org. Chem., **64** (14), 5132 -5138, 1999. 10.1021/jo9901541 S0022-3263(99)00154-1
Web Release Date: June 17, 1999

Reactions of Benzocyclic β-Keto Esters with Sulfonyl Azides. 2.[1] Further Insight into the Influence of Azide Structure and Solvent on the Reaction Course

Luisa Benati,* Daniele Nanni, and Piero Spagnolo

Dipartimento di Chimica Organica "A. Mangini", Università di Bologna, Viale Risorgimento 4, I-40136 Bologna, Italy

Received January 27, 1999

Abstract:

The reactions of 2-ethoxycarbonyl-1-benzosuberone with 4-methoxybenzenesulfonyl, 2,4,6-triisopropylbenzenesulfonyl, methanesulfonyl, and trifluoromethanesulfonyl azide, in the presence of triethylamine, have been investigated in *N,N*-dimethylformamide, acetonitrile, or tetrahydrofuran with the intent of clarifying the influence of both the azide electrophile and solvent on the reaction course. The present findings, in addition to those previously obtained with tosyl and 4-nitrobenzenesulfonyl azide, indicate that both the electronic features of the sulfonyl azide and the solvent polarity greatly affect

Full-text Citation -> CAplus

* In papers with more than one author, the asterisk indicates the name of the author to whom inquiries about the paper should be addressed.

1. Part 1: Benati, L.; Calestani, G.; Nanni, D.; Spagnolo, P. *J. Org. Chem.* **1998**, *63*, 4679.[Full text - ACS][CAS]

2. Doyle, M. P.; McKervey, M. A.; Ye, T. *Modern Catalytic Methods for Organic Synthesis with Diazo Compounds*, Wiley-Interscience: New York, 1998, Chapter 1. Ye, T.; McKervey, M. A. *Chem. Rev.* **1994**, *94*, 1091. Regitz, M.; Maas, G. *Diazo Compounds: Properties and Synthesis*, Academic Press: New York, 1986; Chapter 13.

3. Lombardo, L.; Mander, L. N. *Synthesis* **1980**, 368.[CAS] Coates, R. M.; Kang, H.-Y *J. Org. Chem.* **1987**, *52*, 2065.[CAS] Uyehara, T.; Takehara, N.; Ueno, M.; Sato, T. *Bull. Chem. Soc. Jpn.* **1995**, *68*, 2687.[CAS]

4. Evans, D. A.; Britton, T. C.; Ellman, J. A.; Dorow, R. L. *J. Am. Chem. Soc.* **1990**, *112*, 4011.[CAS]

5. Cavender, C. J.; Shiner, V. J., Jr. *J. Org. Chem.* **1972**, *37*, 3567.[CAS]

6. Zaloom, J.; Roberts, D. C. *J. Org. Chem.* **1981**, *46*, 5173.[CAS]

CAS indexed **62 chemical substances** from this document. CAS subject entries for this document include. **Amino acids, preparation, Asymmetric synthesis and induction, Stereochemistry, and 3 additional concepts.**

Article Title:
The asymmetric synthesis of .alpha.-amino acids. Electrophilic azidation of chiral imide enolates, a practical approach to the synthesis of (R)- and (S)-.alpha.-azido carboxylic acids

Author:
Evans, David A., Britton, Thomas C., Ellman, Jonathan A., Dorow, Roberta L.

Journal:
J. Am. Chem. Soc. (1990), 112(10), 4011-30 CODEN: JACSAT; ISSN: 0002-7863. English.

Abstract:
Two complementary approaches to the asym. synthesis of .alpha.-amino acids have been achieved. In the initially investigated reaction sequence, the diastereoselective bromination of the boron enolates I (Bn = benzyl; R = CH2Ph,

Patent Citation Searching

STN Exclusive!

AN 1999:460467 CAPLUS Full-text
DN 131:88355
TI Grafted poly(ethylene oxide) compositions
IN Wang, James H.; Soerens, Dave A.; Schertz, David M.
PA Kimberly-Clark Worldwide, Inc., USA

o o o

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9933921	A1	19990708	WO 1998-US27703	19981229

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, IC, IK, IR, LS, LT. LU, LV. MD, MG, MK, MN, MW, MK, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, IU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1997-1831 19971231
AB The title poly(ethylene oxide) compns. Have polydispersity index less than

o o o

RE.CNT 5
(1) Bayer Ag; EP 515949 A 1992
(2) Chu Nan, S; US 3963805 A 1976
(3) Michael, S; US 5700872 A 1997
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(5) Vasta, J; US 5008322 A 1991

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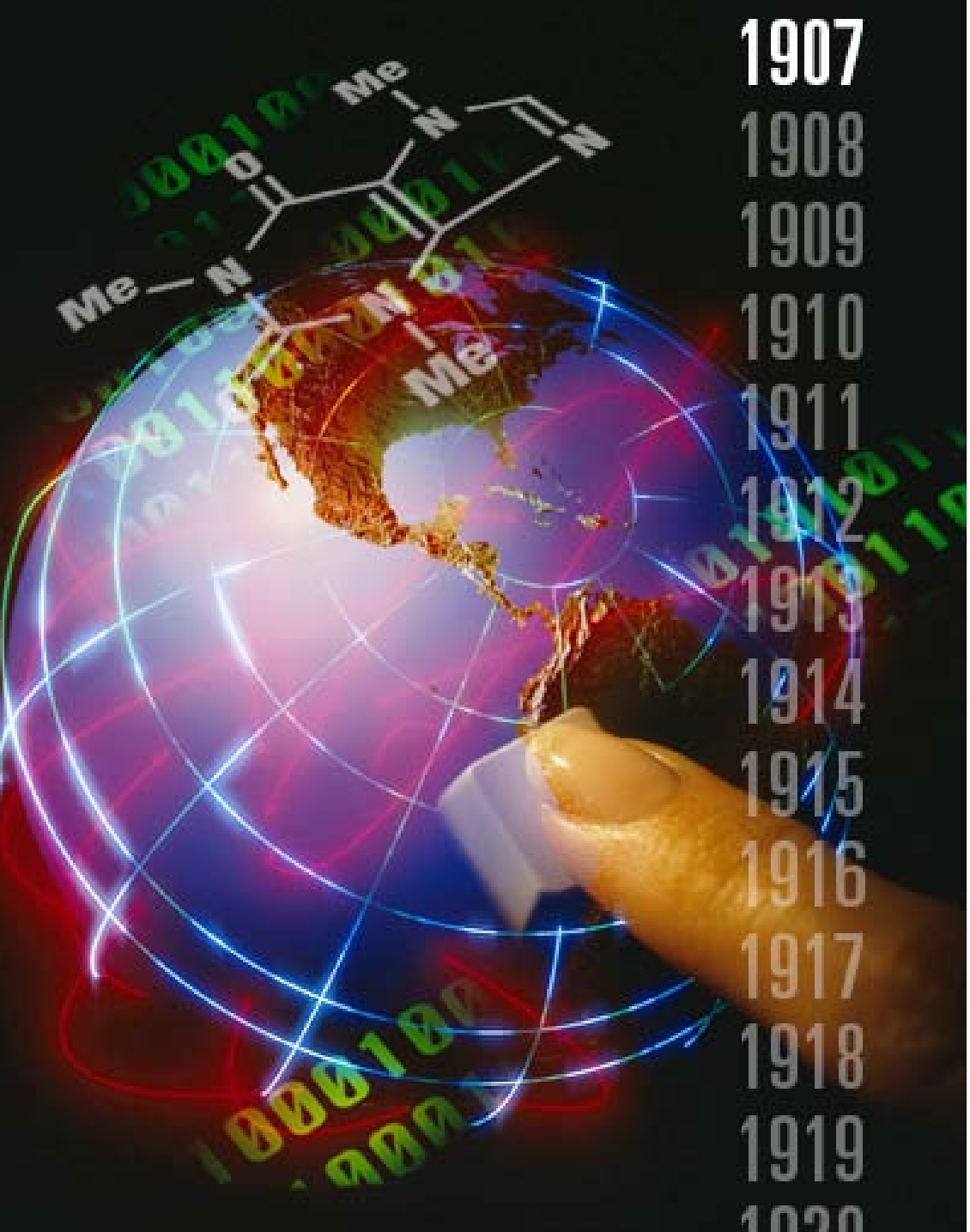

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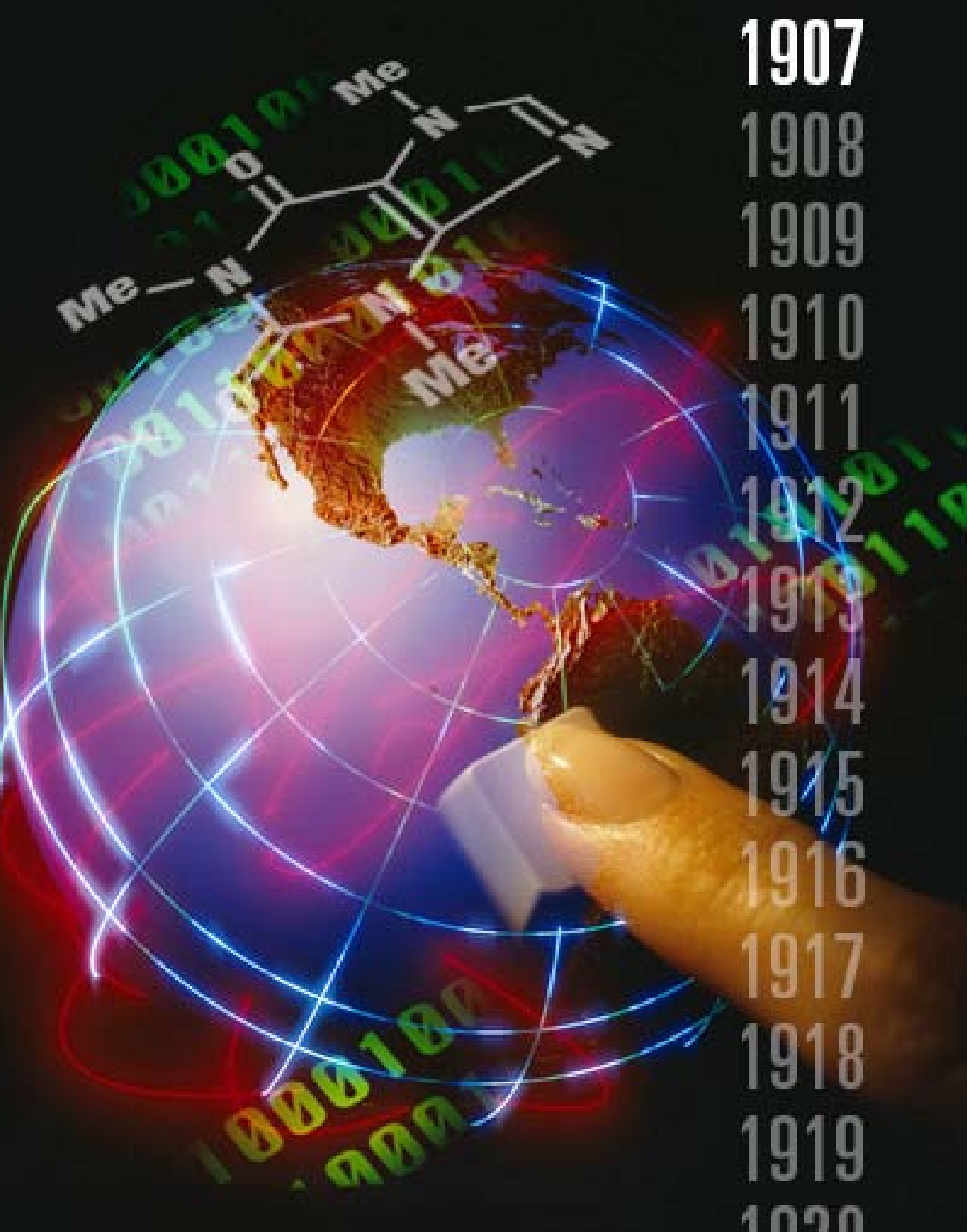

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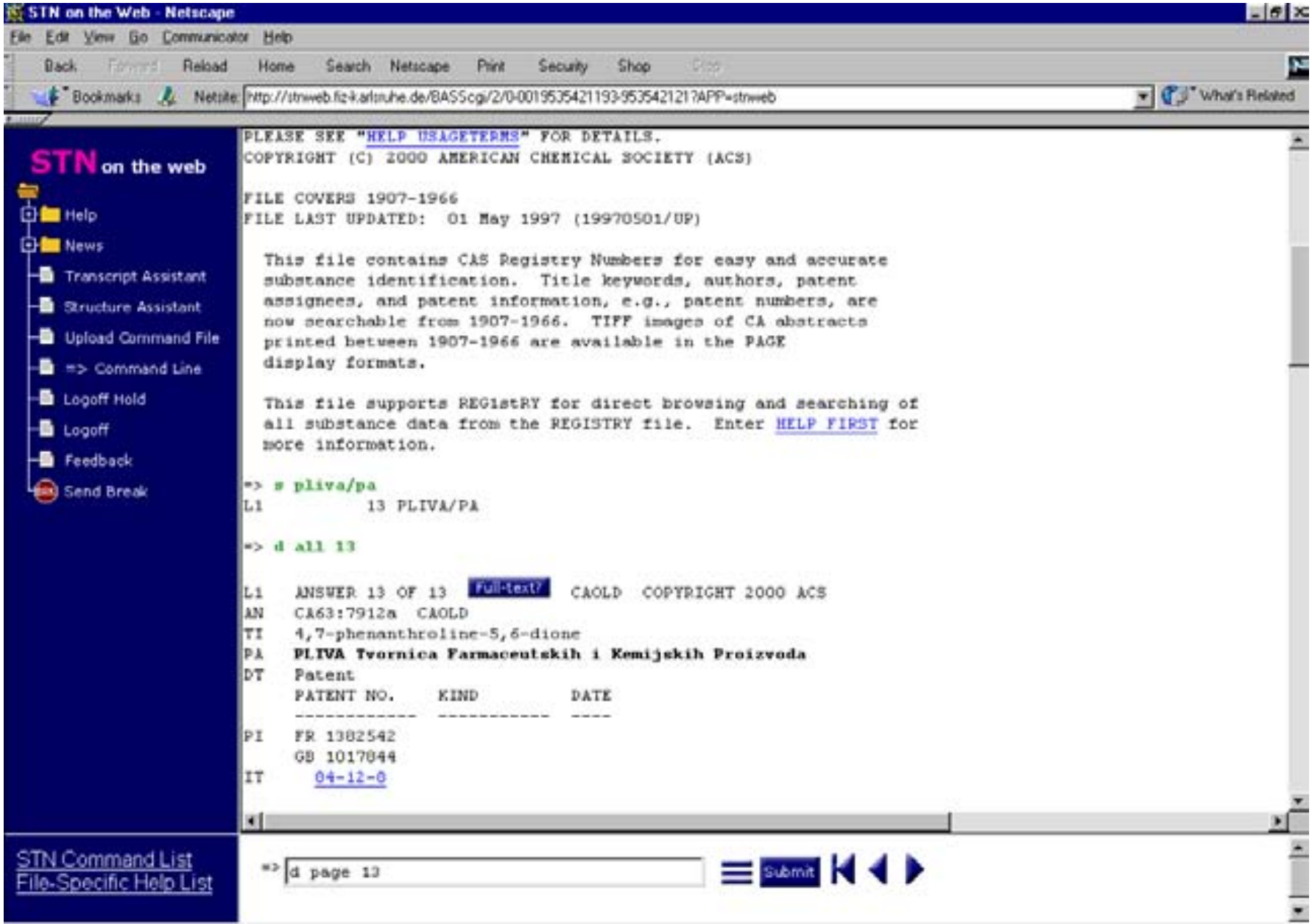

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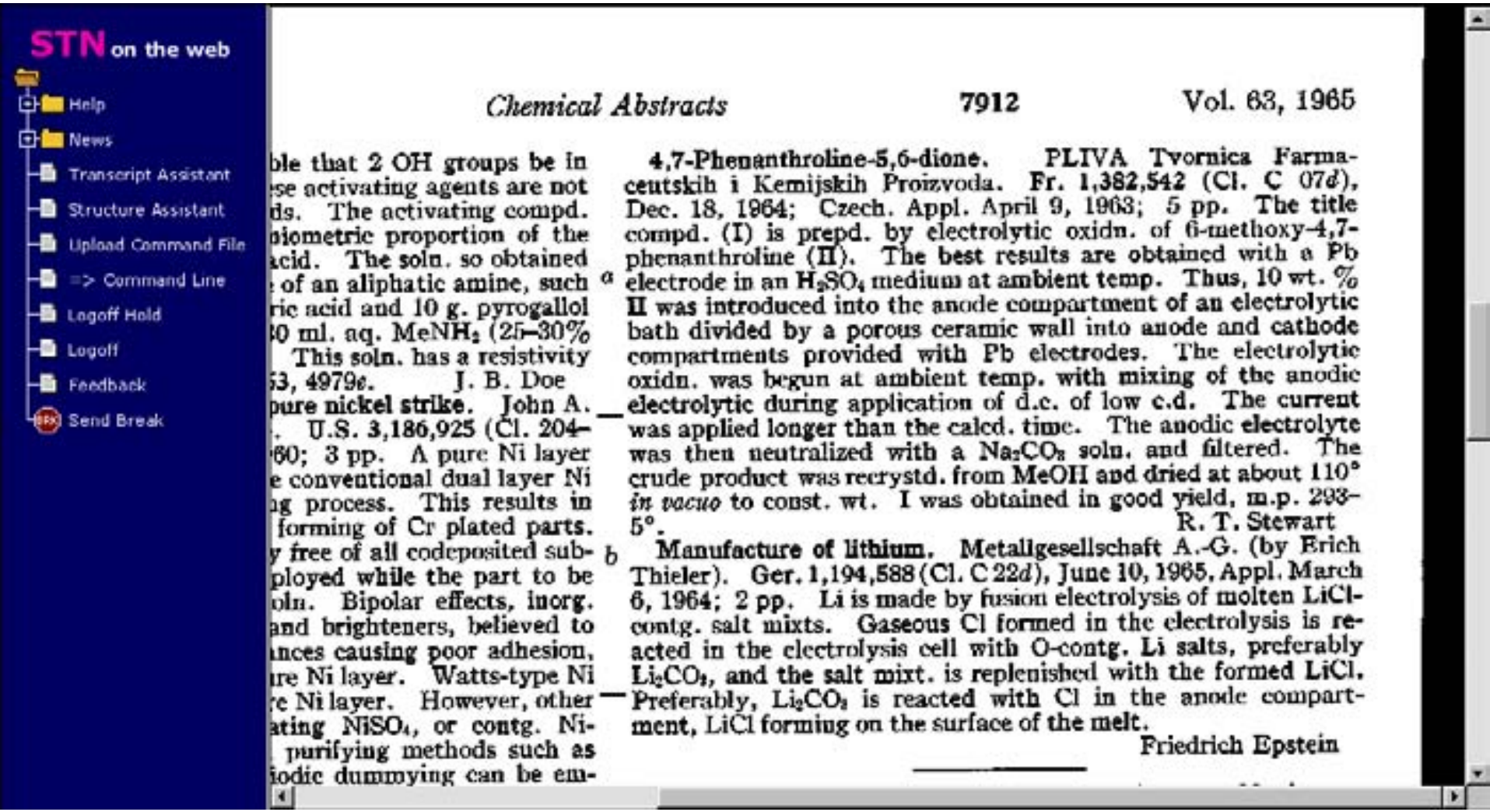


ble that 2 OH groups be in
se activating agents are not
ds. The activating compd.
biometric proportion of the
acid. The soln. so obtained
of an aliphatic amine, such
ric acid and 10 g. pyrogallol
0 ml. aq. $MeNH_2$ (25–30%
This soln. has a resistivity
3, 4979e. J. B. Doe

pure nickel strike. John A.
. U.S. 3,186,925 (Cl. 204–
60; 3 pp. A pure Ni layer
e conventional dual layer Ni
g process. This results in
forming of Cr plated parts.
y free of all codeposited sub-
ployed while the part to be
oln. Bipolar effects, inorg.
and brighteners, believed to
nces causing poor adhesion,
re Ni layer. Watts-type Ni
e Ni layer. However, other
ating $NiSO_4$, or contg. Ni-
purifying methods such as
iodic dummying can be em-

4,7-Phenanthroline-5,6-dione. PLIVA Tvornica Farmaceutskih i Kemijskih Proizvoda. Fr. 1,382,542 (Cl. C 07*d*), Dec. 18, 1964; Czech. Appl. April 9, 1963; 5 pp. The title compd. (I) is prepd. by electrolytic oxidn. of 6-methoxy-4,7-phenanthroline (II). The best results are obtained with a Pb electrode in an H_2SO_4 medium at ambient temp. Thus, 10 wt. % II was introduced into the anode compartment of an electrolytic bath divided by a porous ceramic wall into anode and cathode compartments provided with Pb electrodes. The electrolytic oxidn. was begun at ambient temp. with mixing of the anodic electrolytic during application of d.c. of low c.d. The current was applied longer than the calcd. time. The anodic electrolyte was then neutralized with a Na_2CO_3 soln. and filtered. The crude product was recrystd. from MeOH and dried at about 110° *in vacuo* to const. wt. I was obtained in good yield, m.p. 293–5°.
R. T. Stewart

Manufacture of lithium. Metallgesellschaft A.-G. (by Erich Thieler). Ger. 1,194,588 (Cl. C 22*d*), June 10, 1965, Appl. March 6, 1964; 2 pp. Li is made by fusion electrolysis of molten LiCl-contg. salt mixts. Gaseous Cl formed in the electrolysis is reacted in the electrolysis cell with O-contg. Li salts, preferably Li_2CO_3, and the salt mixt. is replenished with the formed LiCl. Preferably, Li_2CO_3 is reacted with Cl in the anode compartment, LiCl forming on the surface of the melt.
Friedrich Epstein

CAS Database Developments

- CAplus
  - Patents
  - Citations
- CAOLD
- **Registry File**

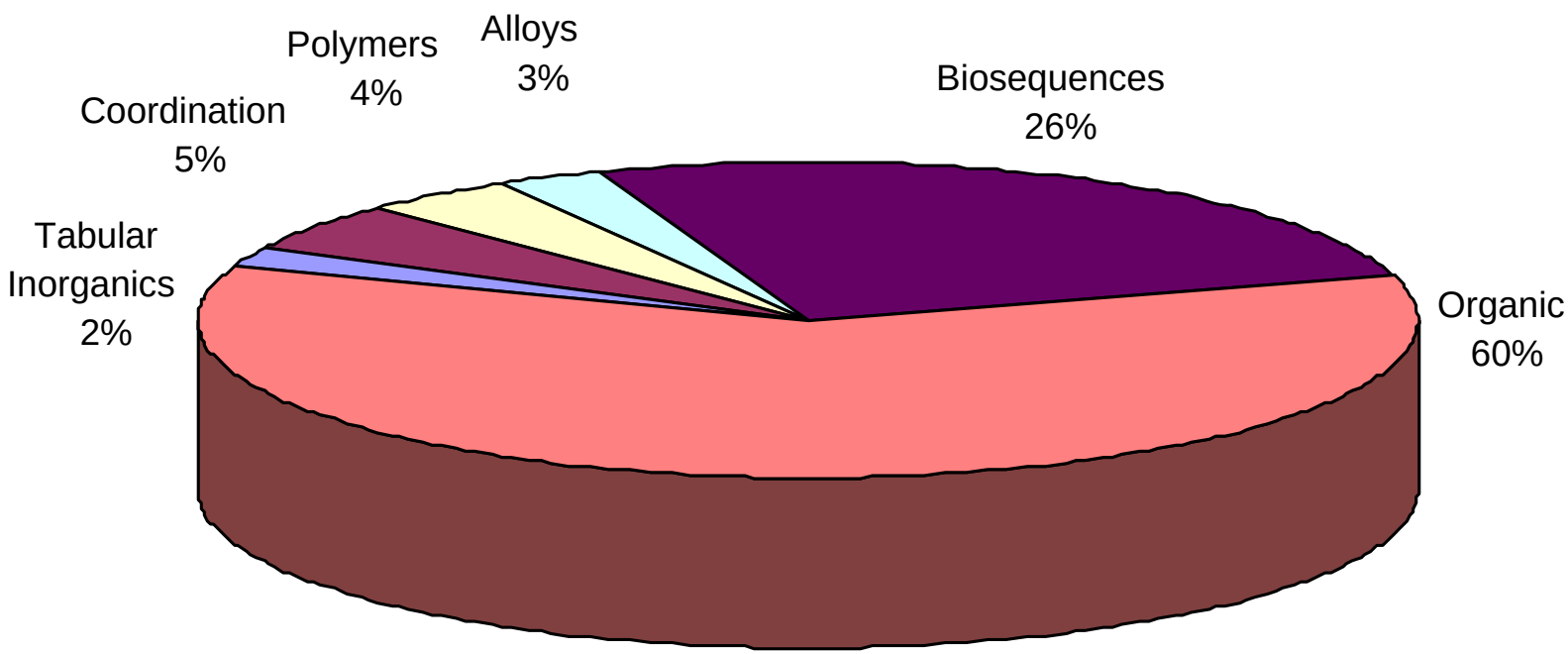
Registry contains >23 million substances of all types

CAS is the leading provider of organic, inorganic, and biosequence substance information.

The Latest CAS Registry Number® and Substance Count

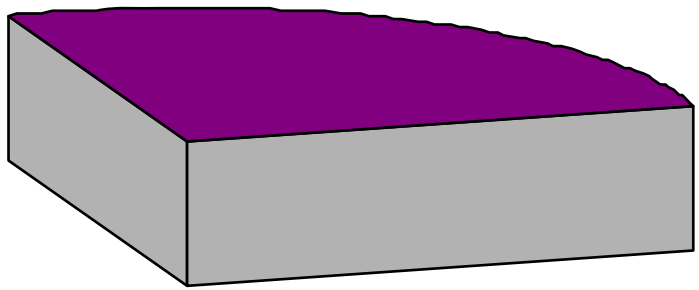
Date	**Sun Mar 19 08:36:09 EST 2000**
Count	**16,643,365** organic and inorganic substances
	6,547,778 sequences
Total	**23,191,143** chemical substance registrations
CAS RN	**259274-28-7** is the most recent CAS Registry Number

Registry contains >23 million substances of all types



CAS Registry - the world's largest and fastest growing database of biosequences

Biosequences
26%

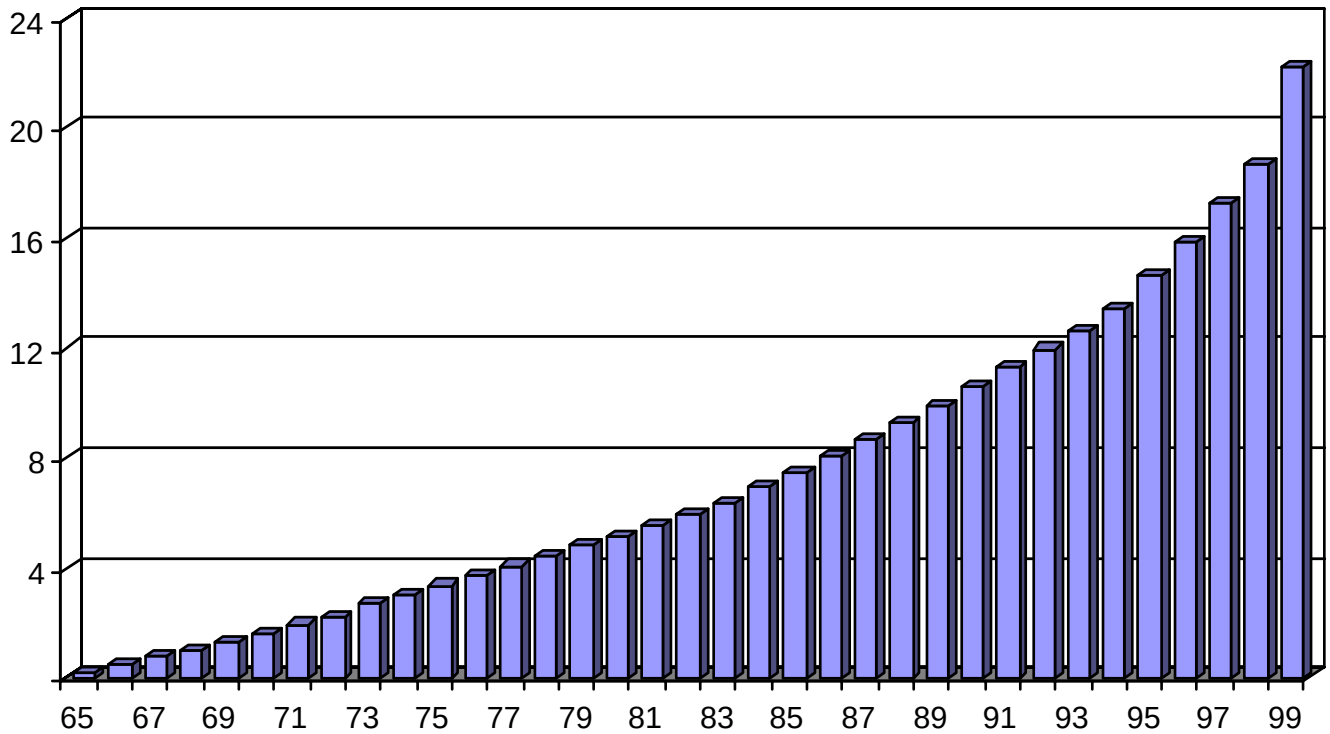


Nucleic acids - ~23%

Proteins - ~3%

Every working day, we add nearly 11,000 substance registrations

Number of Substances in the Registry Database
1965-1999

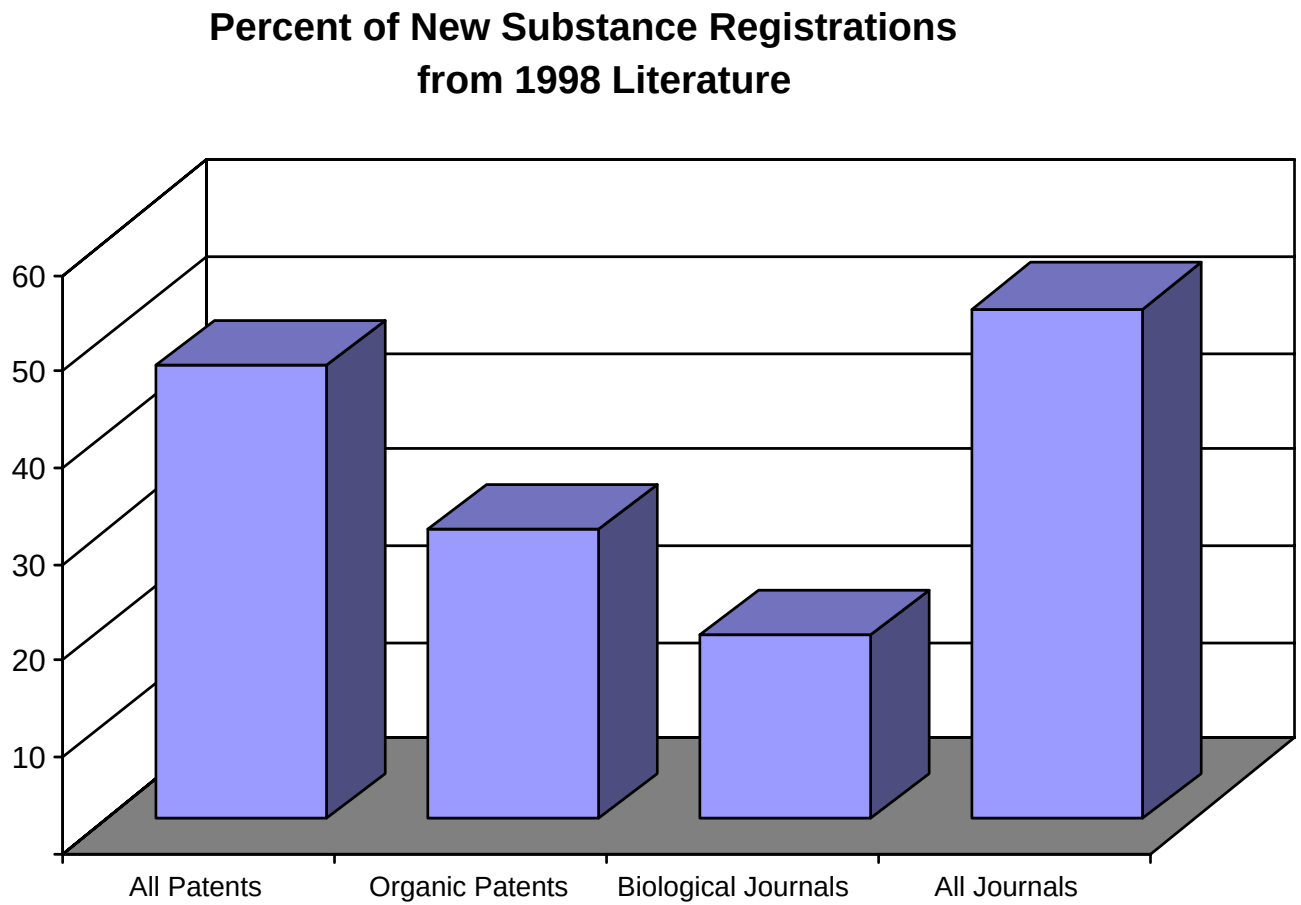


Sequence Enhancements

- **All sequences in patents are now assigned RN's (as of Oct 1999)**
- **The CN field now includes**
  - the patent number
  - the location of the sequence in the patent

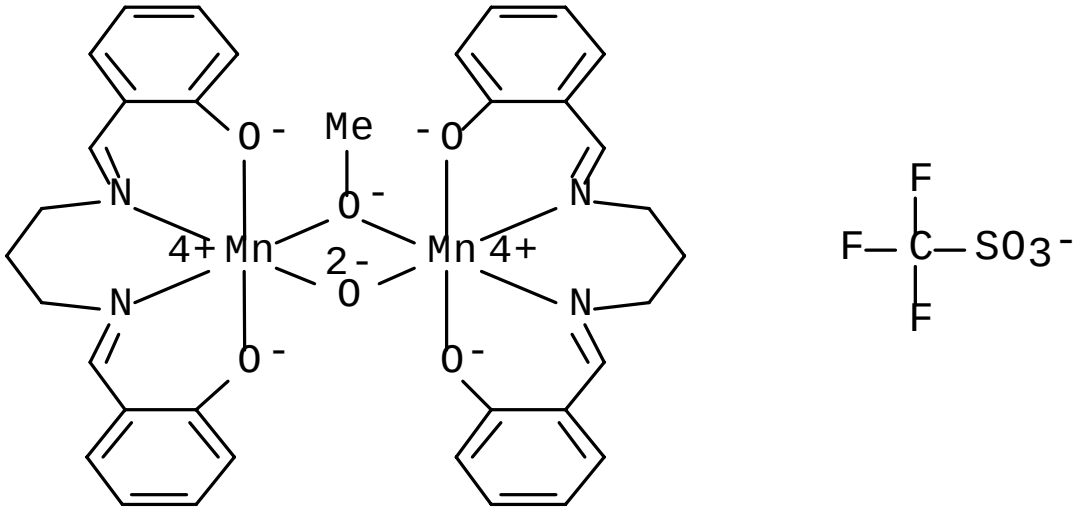
RN 97263-66-6 REGISTRY
CN Aequorin (Aequorea victoria precursor protein moiety reduced) (9CI)
(CA INDEX NAME)
OTHER NAMES:
CN PN: WO9949019 SEQID: 5 unclaimed protein

Organic Patents are a Significant Source of New Substance Registrations from the Literature



22,000,000th Registry Record Assigned November 18, 1999

RN 247577-81-7



Manganese(1+), .mu.-methoxy-.mu.-oxobis[[2,2'-[1,3-propanediylbis[(nitrilo-.kappa.N)methylidyne]]bis[phenolato-.kappa.O]](2-)]di-, stereoisomer, salt with trifluoromethanesulfonic acid (1:1)

23,000,000th Registry Record Assigned March 2nd, 2000

RN 257260-79-0

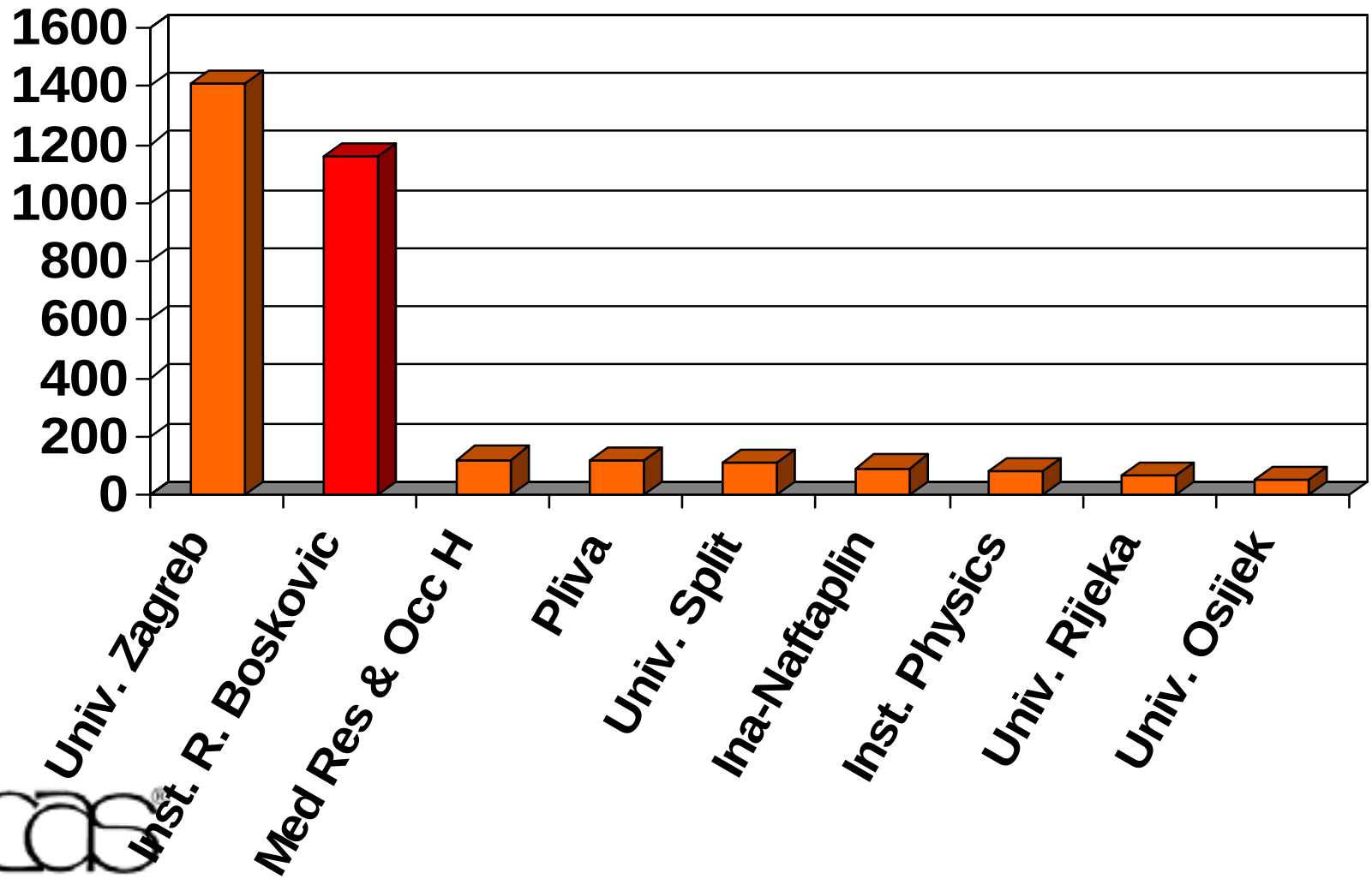
```
  1 ggtaccatat ttgggttaac actcttttgg tataatttat gttttagtcc
 51 aatgtcttgg gatgaaaatg acaggtgggc cacttatgat ctccagagaa
101 attcagggca atttggtgtg ggagtaggca tggtagagga gagcagcatc
151 taagaagtcc ccagcagagg ctctcagctt gtcttgaggc atctgggcgg
201 agggctatga tactggcccc atcctgcaga aggtggcaga tattggcagc
251 tggcaccagt gcggttccat tgtgatcatc atttctcgaa cgtcagactg
301 ttgaaggttc ccccaacaga ctttctgtgc aactttctgt cttcaccaaa
351 ttcagtccac agtaaggaag tgaaattaat ttcagaggtg tagggagggc
401 ttaagggagt gtggtaaaat tagagggtgt tcagaaacag aaatctgacc
451 gcttggggcc accttgcagg gagagttttt ttgatgatcc ctcacttgtt
501 tctttgcatg ttggcttagc ttggcgggct cccaactggt gactggttag
551 tgatgaggct gtgtgcttct gagctgggca tccgaaggca tccttgggga
601 agctgagggc acgaggaggg gctgccagac tccgggagct gctgcctggc
651 tgggattc
```

Nucleotide found in patent US6022741, “DNA regulating expression of class II transactivator (CIITA) gene, chimeric genes containing CIITA regulatory element, and cells containing the chimeric genes”, assigned to the University of North Carolina at Chapel Hill, granted on Feb. 8th, 2000

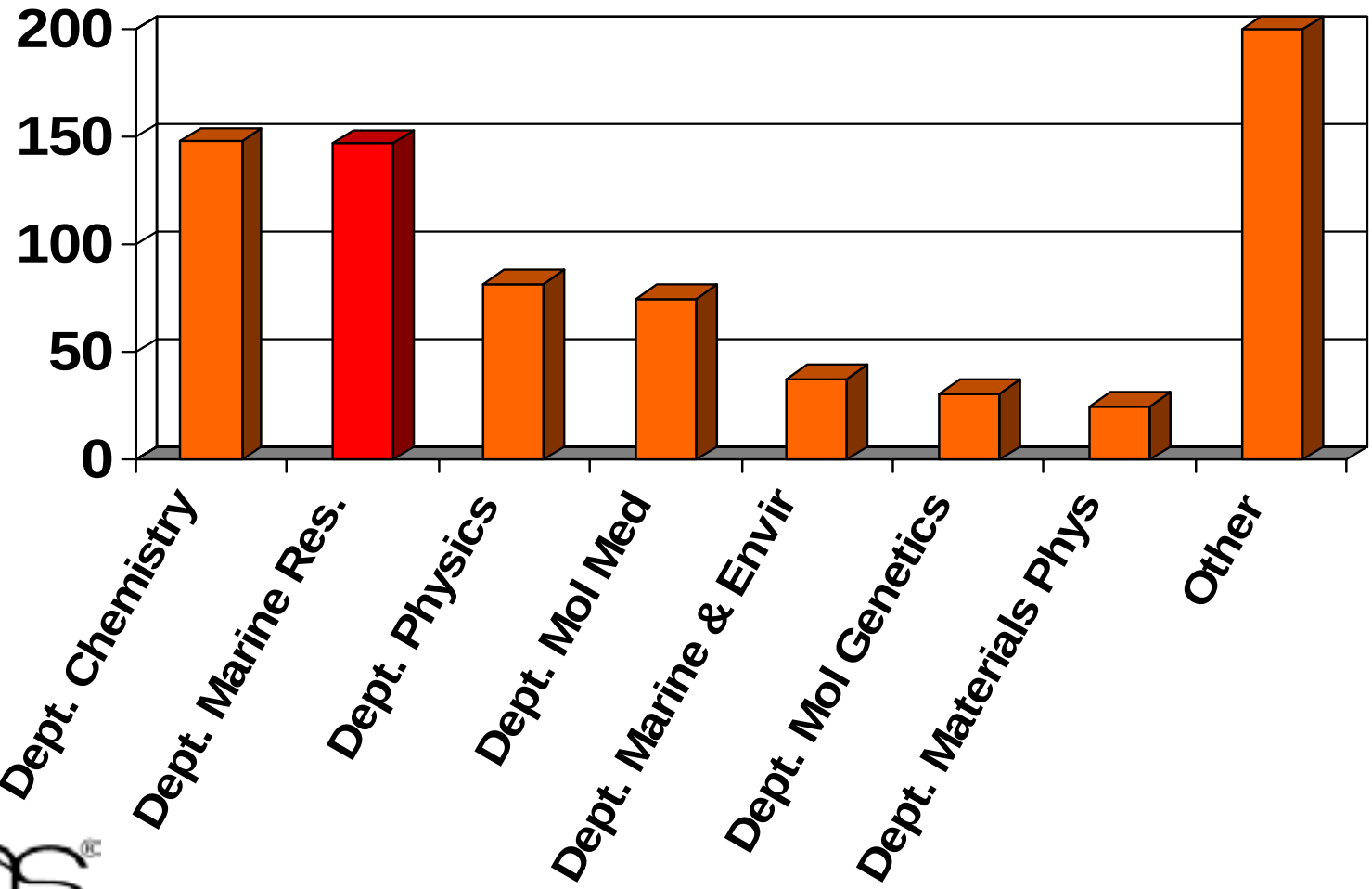
Research in Croatia

- Publications by Croatian organisations in CAplus (1995-)
- Publications by departments at Inst. Ruđer Bošković
- Publications by selected authors at Dept of Marine Research

Research in Croatia (1995-)



Research at Institute Ruđer Bošković (1995-)



Authors in Dept. of Marine Res, Institute Ruđer Bošković

Author	CAplus	Biosis	SciSearch	Aquasci
	1967-	1969-	1974-	1978-
LOVRIC, M.	106	12	101	3
COSOVIC, B.	91	42	74	27
KOMORSKY-LOVIC	67	8	55	0
BRANICA, M.	225	64	140	155
RASPOR, B.	41	21	29	21
PRAVDIC, V.	59	15	46	21
AHEL, M.	48	37	39	19

Accessing CAS Information

A Division of the American Chemical Society

Accessing CAS information

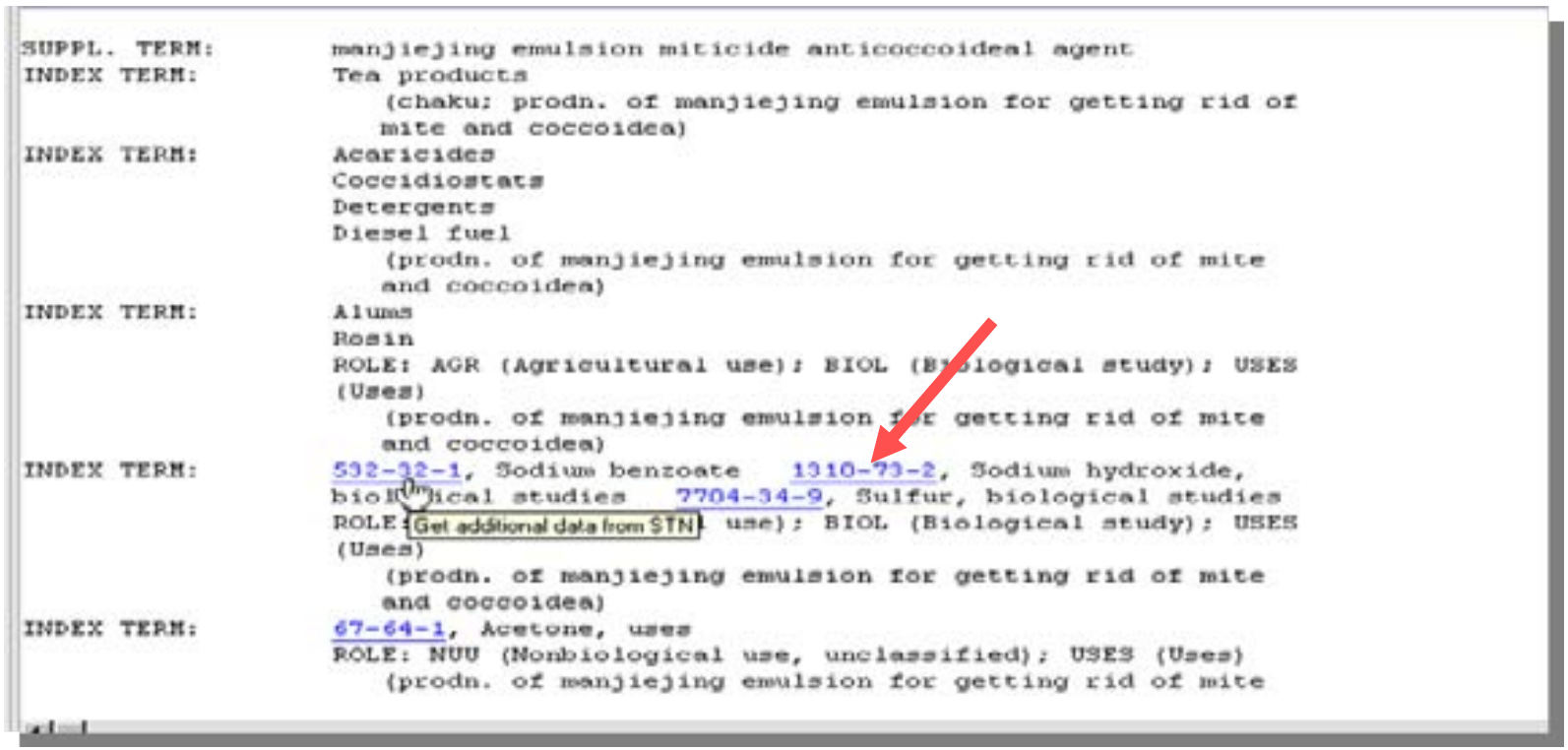
- **Print CA plus Collective Indexes**
- **CAonCD and Collectives on CD**
  - 1997-2000 year by year
  - 4 collectives on CD 1982-1996
- **CAplus and Registry File on STN**
- **CAplus and Registry File through SciFinder family**

STN Express with

Discover!

More power and utility for experienced searchers

Easy Access to Substance Information with Hyperlinked CAS RN's



Find Additional Information on Substances in STN Files

```
L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 1999 ACS
RN   50-00-0  REGISTRY
CN   Formaldehyde (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   BFV
CN   F-gen
CN   Fannoform
CN   Floguard 1015
CN   FM 282
CN   Formalin
CN   Formalith
CN   Formic aldehyde
CN   Formol
CN   Fyde
CN   Lysoform
CN   Methaldehyde
CN   Methanal
CN   Methyl aldehyde
CN   Methylene oxide
CN   Morbicid
CN   Oxomethane
CN   Oxymethylene
CN   Paraform
CN   Superlysoform
FS   3D CONCORD
DR   8005-38-7, 8006-07-3, 8013-13-6, 112068-71-0
MF   C H2 O
CI   COM
LC   STN Files:   AGRICOLA, AIDSLINE, ANABSTR, APILIT, APILIT2, APIPAT,
       APIPAT2, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CABA, CANCERLIT, CAOLD,
       CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORM, CHEMLIST, CSNB, CHEMSAFE,
       CIN, CSCHEM, CSNB, DETHERM*, DDFU, DI
       Search RN in this STN database
       GMELIN*,
       HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
       NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXLINE,
       TOXLIT, TRCTHERMO*, TULSA, ULIDAT, USAN, USPATFULL, VETU, VTB
          (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
          (**Enter CHEMLIST File for up-to-date regulatory information)
```

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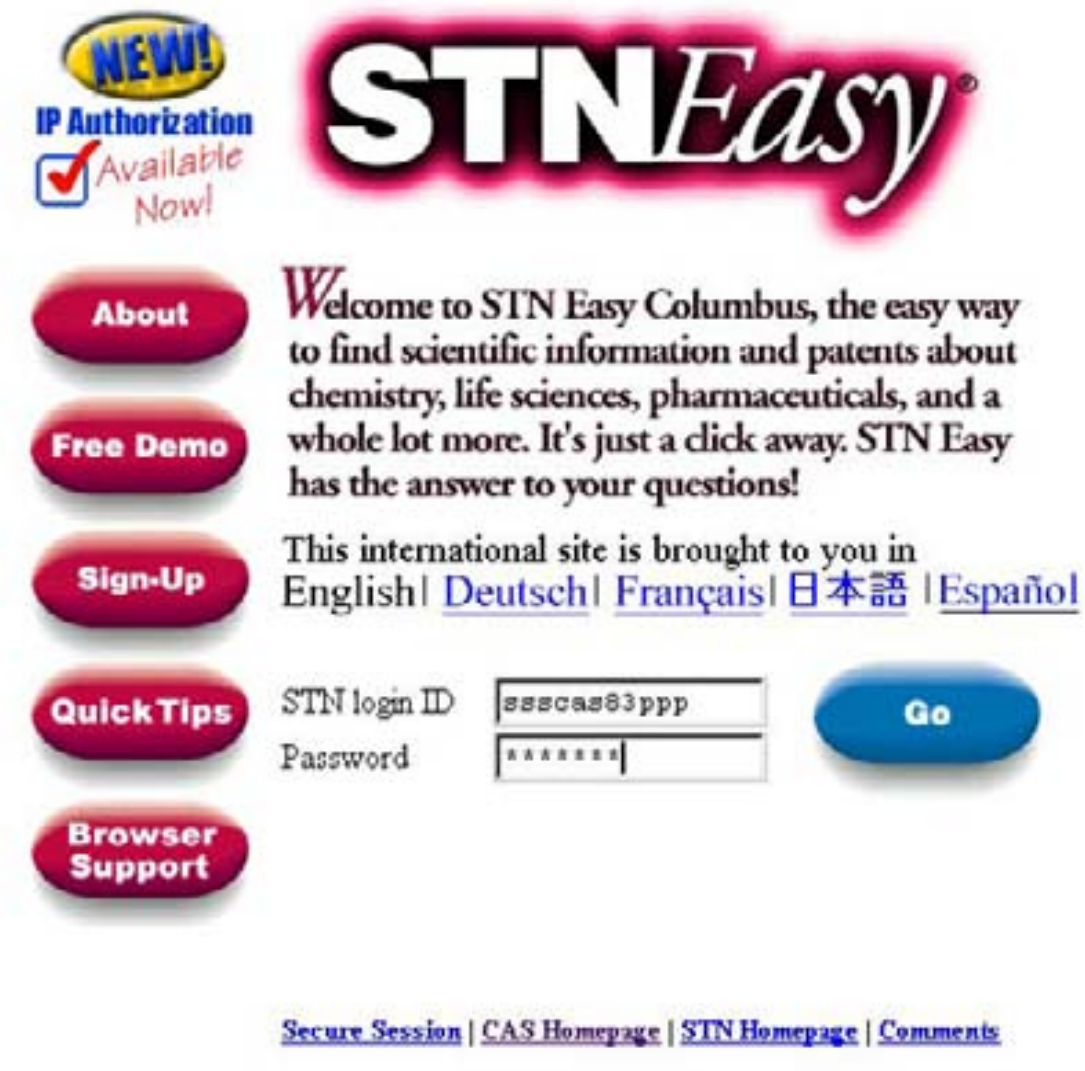
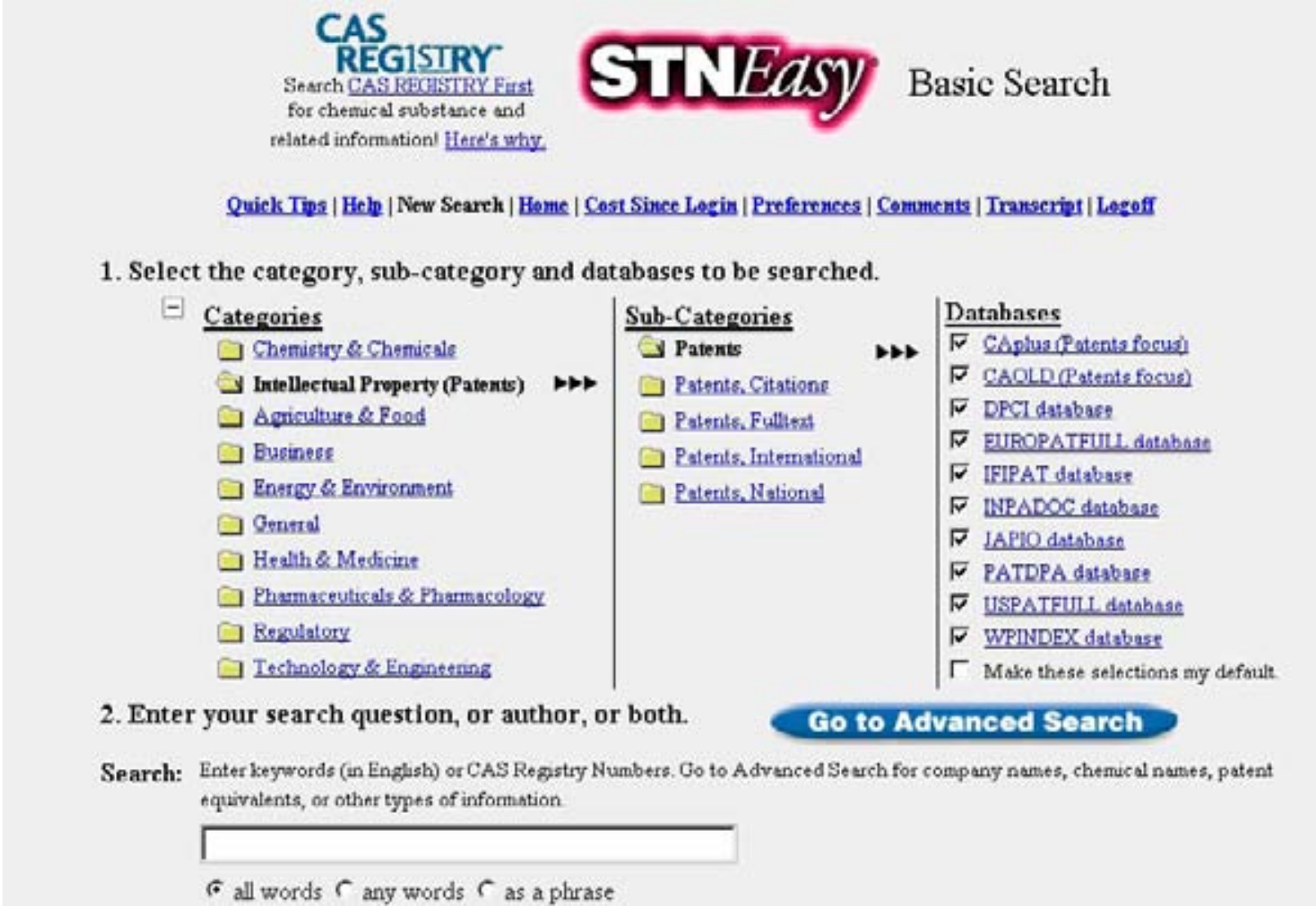
- Search fee $2.00 (further refines incl.)
- Per document charges by database
- Mostly used by infrequent users surfing the web for sci-tech information

http://stneasy.cas.org



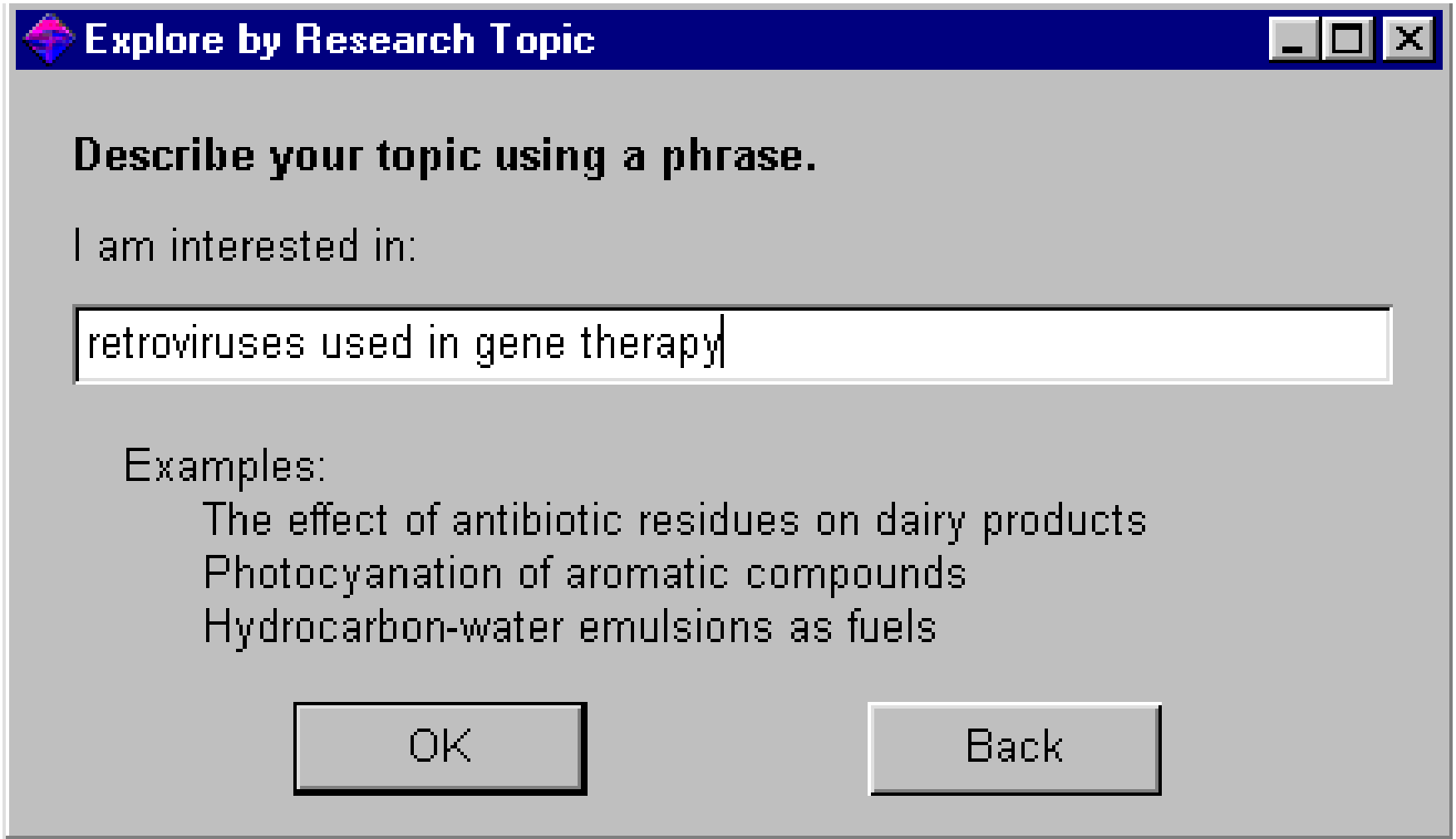
Selection of databases



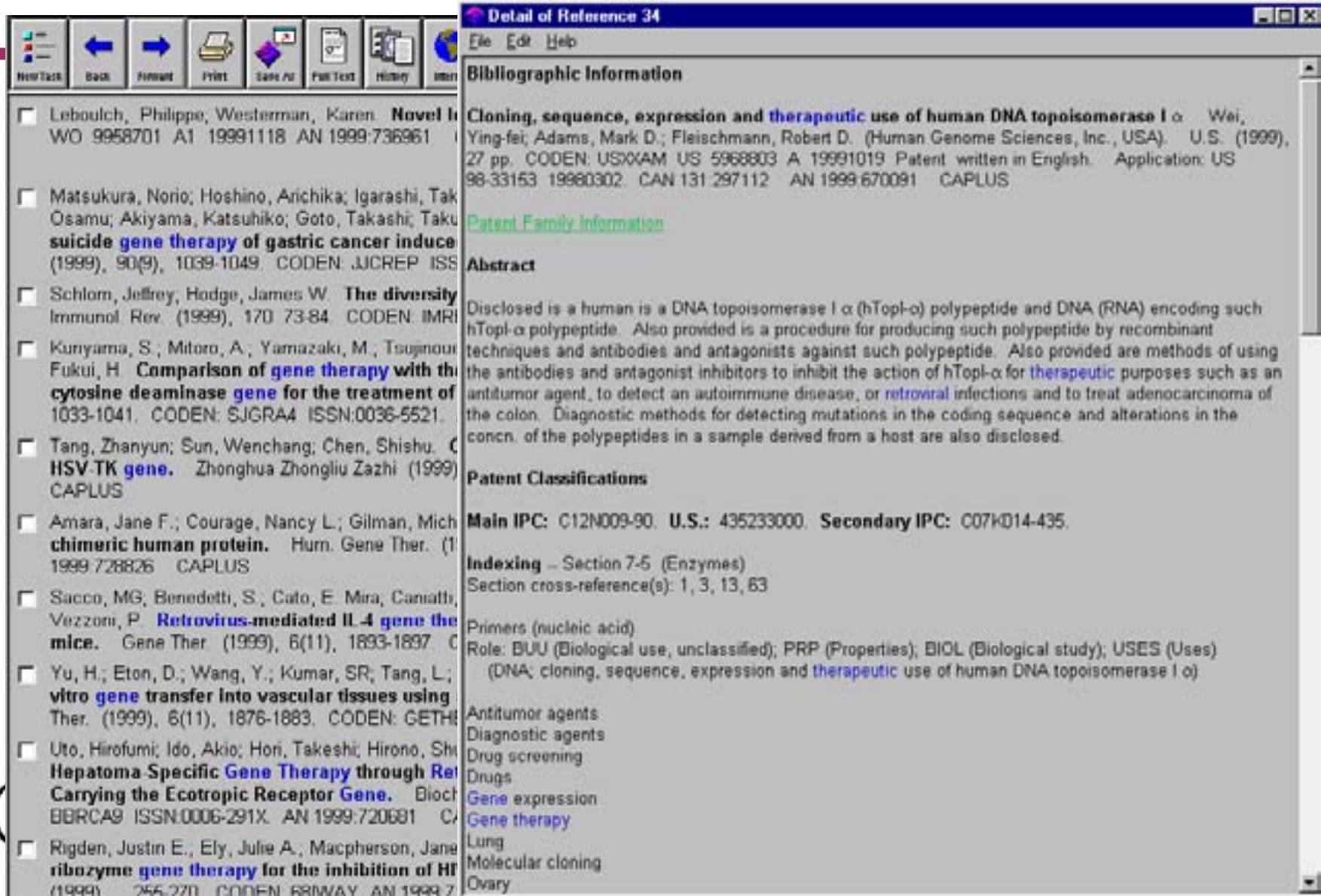
Bringing CAS database to the end-user´s desktop

CAS

Explore by Research Topic



Explore by Research Topic



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Kuniyama, S.; Mitoro, A.; Yamazaki, M.; Tsujinou
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Yu, H.; Eton, D.; Wang, Y.; Kumar, SR; Tang, L.;
vitro gene transfer into vascular tissues using
Ther. (1999), 6(11), 1876-1883. CODEN: GETH

Uto, Hirofumi; Ido, Akio; Hori, Takeshi; Hirono, Shu
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Carrying the Ecotropic Receptor Gene. Bioch
BBRCA9 ISSN:0006-291X. AN 1999:720681

Rigden, Justin E.; Ely, Julie A.; Macpherson, Jane
ribozyme gene therapy for the inhibition of HI
(1999) 255-270. CODEN: RRNWAY. AN 1999:7

Detail of Reference 34

File Edit Help

Bibliographic Information

Cloning, sequence, expression and therapeutic use of human DNA topoisomerase I α. Wei, Ying-fei; Adams, Mark D.; Fleischmann, Robert D. (Human Genome Sciences, Inc., USA). U.S. (1999), 27 pp. CODEN: USXXAM US 5968803 A 19991019 Patent written in English. Application: US 98-33153 19980302. CAN 131:297112 AN 1999:670091 CAPLUS

Patent Family Information

Abstract

Disclosed is a human is a DNA topoisomerase I α (hTopI-α) polypeptide and DNA (RNA) encoding such hTopI-α polypeptide. Also provided is a procedure for producing such polypeptide by recombinant techniques and antibodies and antagonists against such polypeptide. Also provided are methods of using the antibodies and antagonist inhibitors to inhibit the action of hTopI-α for therapeutic purposes such as an antitumor agent, to detect an autoimmune disease, or retroviral infections and to treat adenocarcinoma of the colon. Diagnostic methods for detecting mutations in the coding sequence and alterations in the concn. of the polypeptides in a sample derived from a host are also disclosed.

Patent Classifications

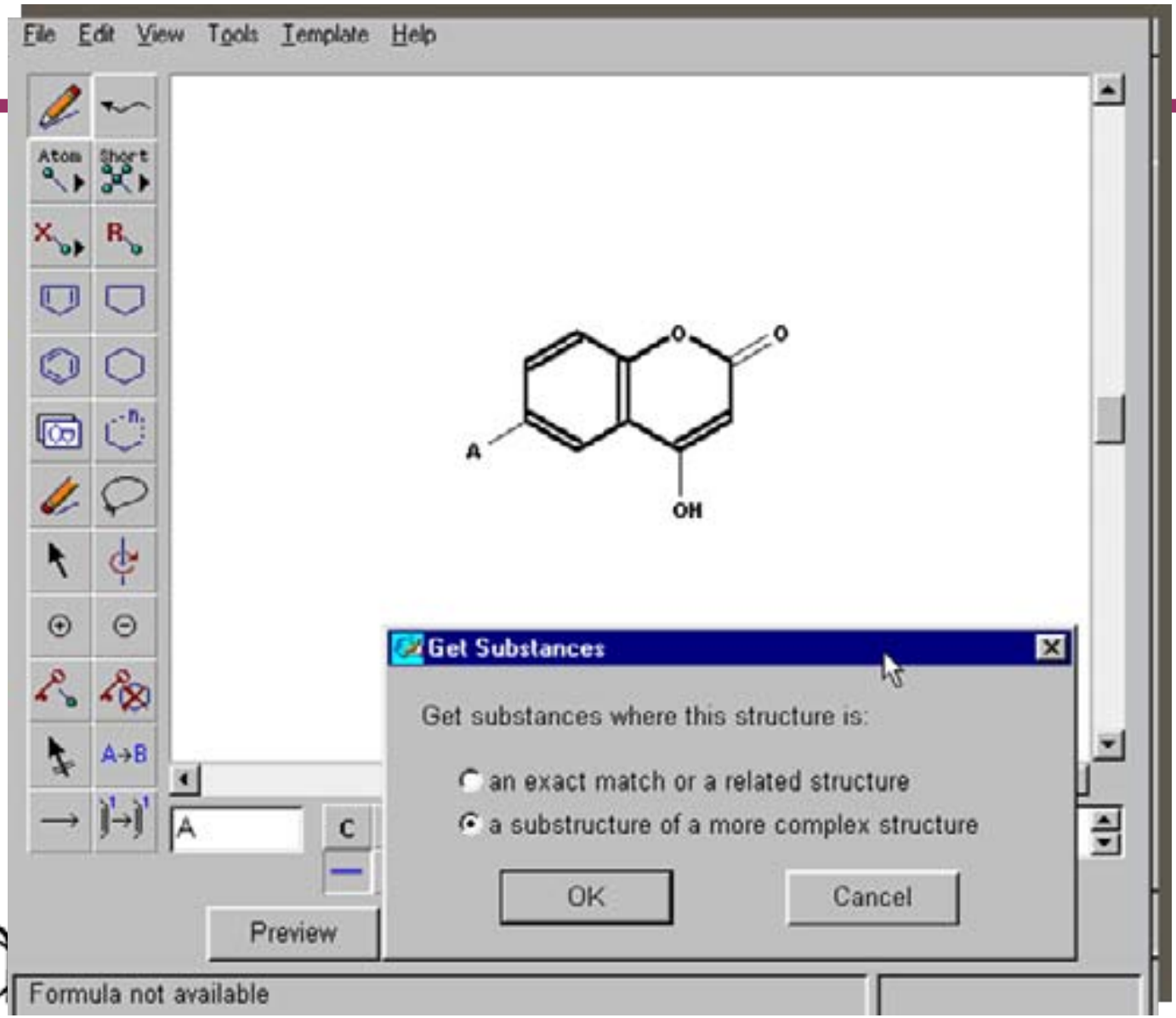
Main IPC: C12N009-90. **U.S.:** 435233000. **Secondary IPC:** C07K014-435.

Indexing -- Section 7-5 (Enzymes)
Section cross-reference(s): 1, 3, 13, 63

Primers (nucleic acid)
Role: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(DNA; cloning, sequence, expression and therapeutic use of human DNA topoisomerase I α)

Antitumor agents
Diagnostic agents
Drug screening
Drugs
Gene expression
Gene therapy
Lung
Molecular cloning
Ovary

Explore by Structure



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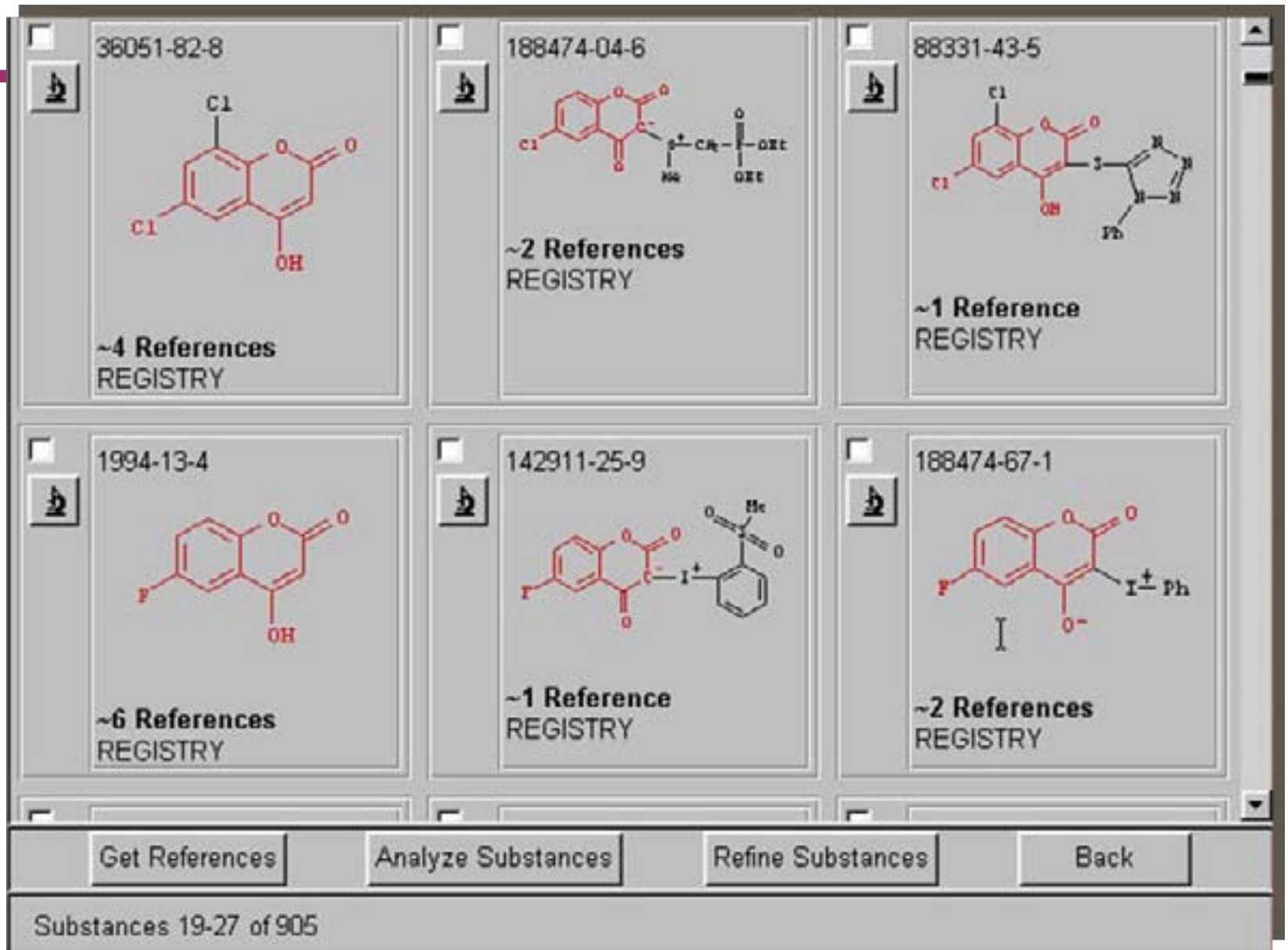
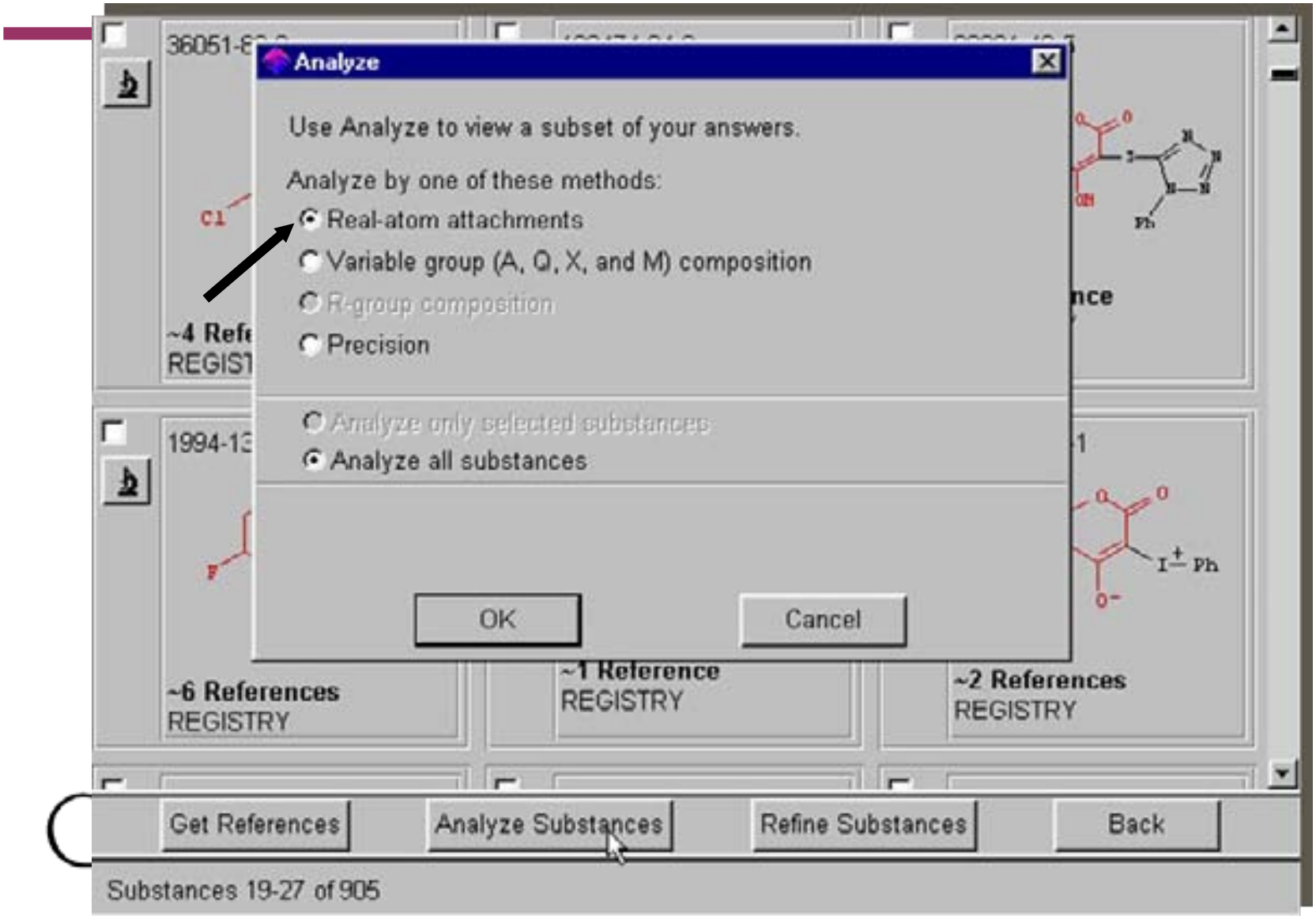
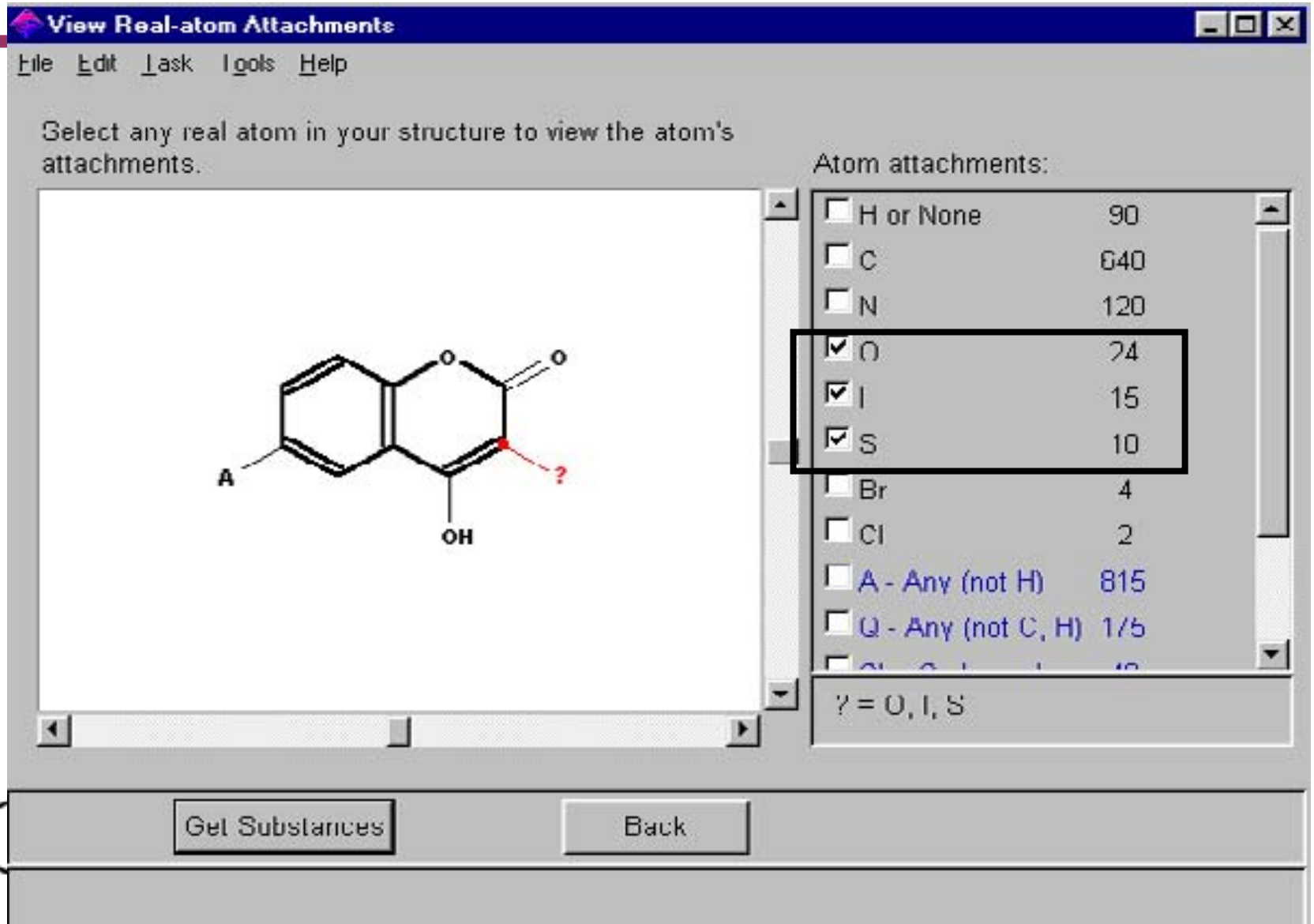


Analysis Tools - Gain Unique Insights



Analysis Tools - Gain Unique Insights



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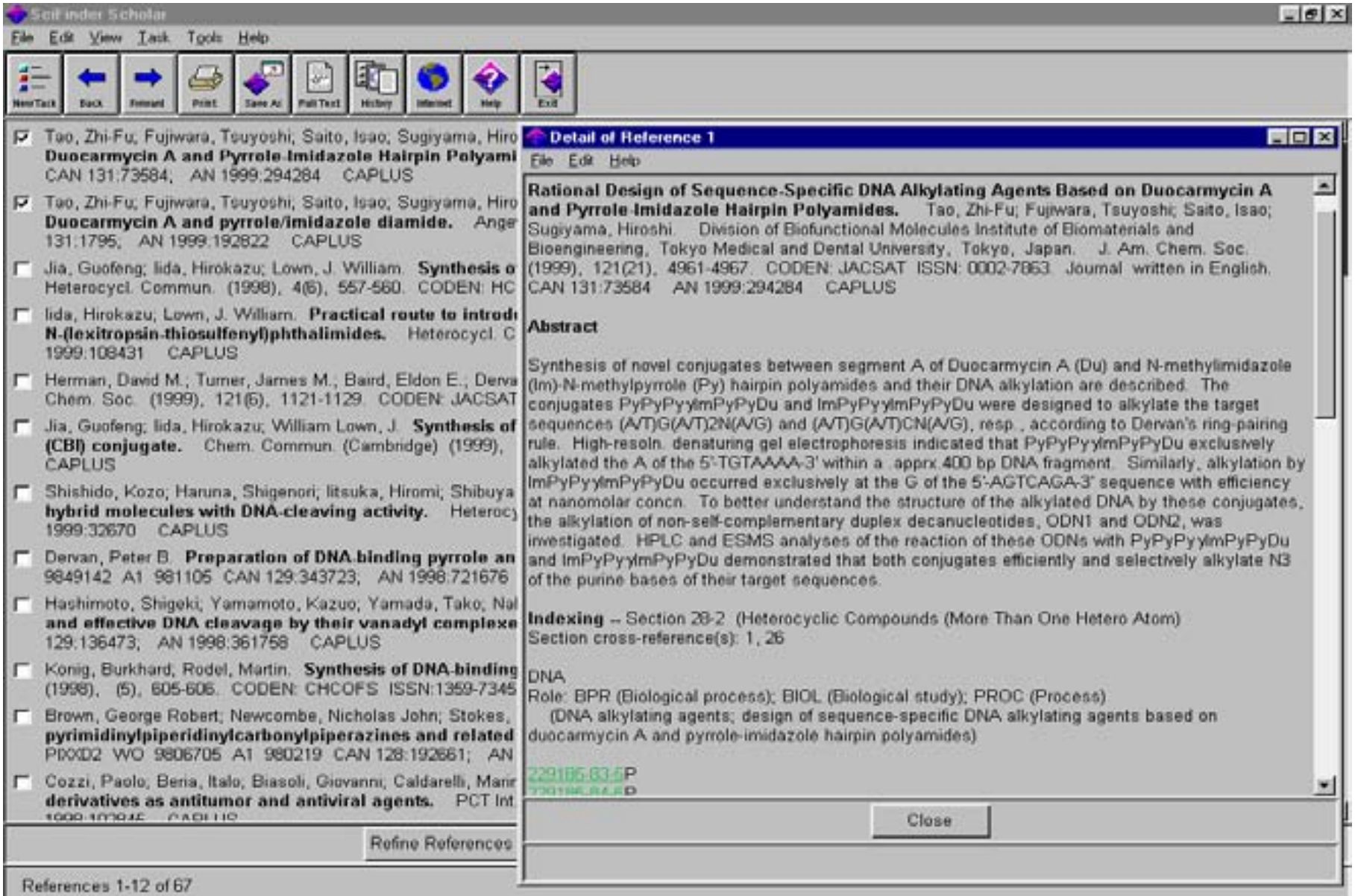

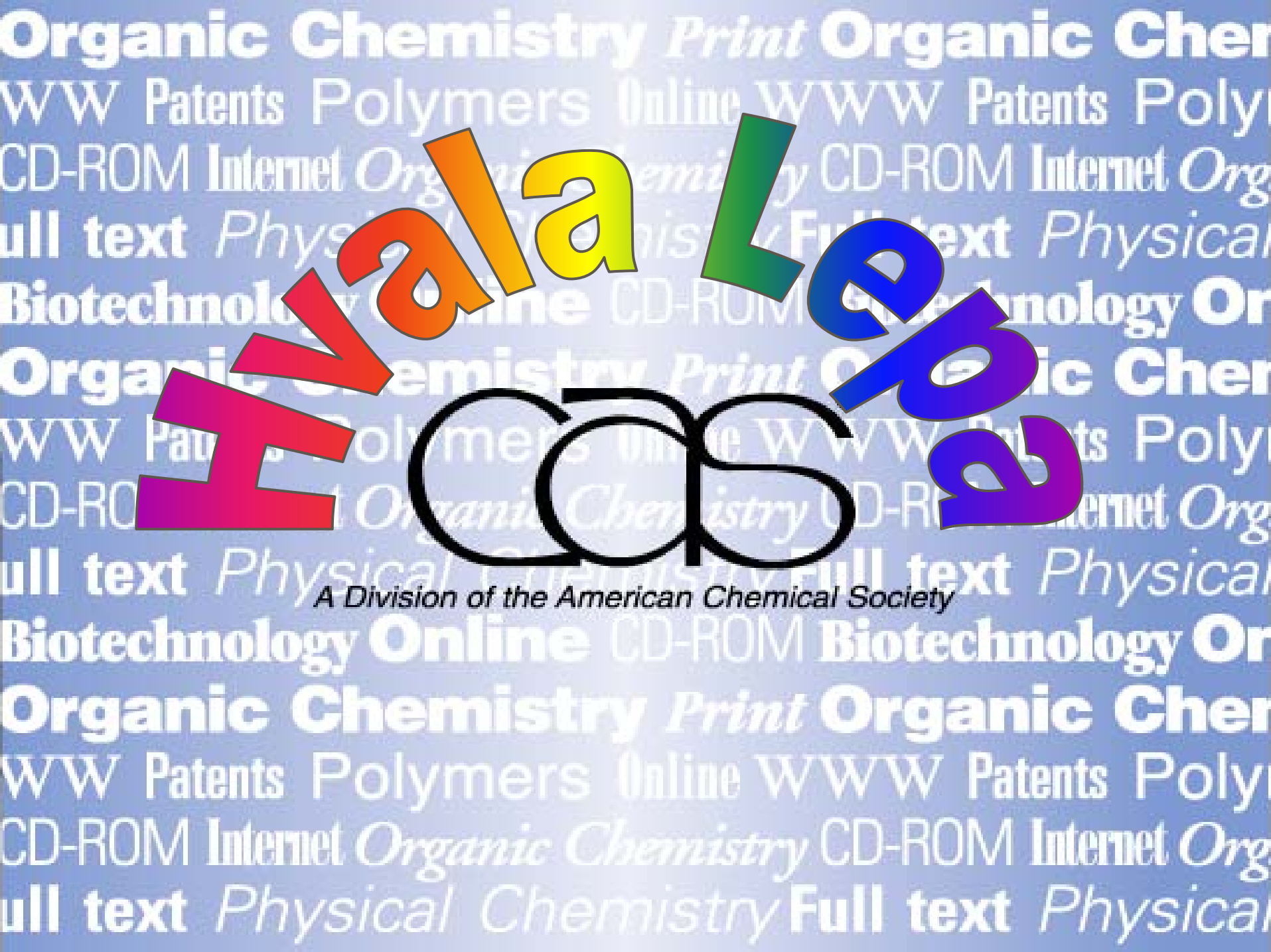
Hvala Lepa
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