NAPRALERT

Subject Coverage

Natural product information including pharmacology, biological activity, taxonomic distribution, ethnomedicine, and chemistry of plant, microbial, and animal (including marine) extracts

File Type

Bibliographic

Features

CAS Registry Number® Identifiers	☑	Page Images	☐
Keep & Share	☐	SLART	☑
Learning Database	☐	Structures	☐

Record Content

- **NAPRALERT (NAtural PRoducts ALERT)** contains bibliographic and factual data on natural products, including information on the pharmacology, biological activity, taxonomic distribution, chemistry of plant, microbial, and animal (including marine) extracts as well as ethnomedicine use records. In addition, the database contains information on the chemistry and pharmacology of secondary metabolites that are derived from natural sources and that have known structure.
- The records in this file contain bibliographic information and factual data on natural products, including CAS Registry Numbers for many chemical constituents.

File Size

187,821 bibliographic records containing information for over 155,000 natural products and 181,895 organisms (2/2016)

Coverage

- 1650 to 2011
- Approximately 50% of the file is from systematic survey of the literature from 1975 to 2011. The remaining records were obtained by selective retrospective indexing dating back to 1650

Updates

- Occasional updates as information becomes available
- Automatic current-awareness searches (SDIs) are not available

Language

English

Database Producer

Program for Collaborative Research in the Pharmaceutical Sciences
College of Pharmacy
University of Illinois at Chicago
Chicago, Illinois 60680 USA
Phone: 312-996-2246
Fax: 312-996-7107

Sources

- Abstract services
- Books
- Government reports
- Journals
- Newsletters
- Patents

User Aids	• Online Helps (HELP DIRECTORY lists all help messages available) • NAPRALERT Classification Codes • STNGUIDE
Clusters	• AGRICULTURE • ALLBIB • AUTHORS • CASRNS • CHEMISTRY • CORPSOURCE • HEALTH • MEDICINE • PHARMACOLOGY • SAFETY • TOXICOLOGY STN Database Clusters information (PDF).
Pricing	Enter HELP COST at an arrow prompt (=>).

Search and Display Field Codes

Field that allows left truncation (/BI) is marked with an asterisk (*).

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* **(1)** (contains single words from the title (TI), classification code (CC), class identifier (CI), chemical name (CN), geographic term (GT), organism (ORGN), and type of study (STY) fields, as well as CAS Registry Numbers and pharmacological data such as extract, dosage, and results)	None (or /BI)	S VOLATILE OIL? S ?PHENANTH?	CC, CI, CN, GT, ORGN, RN, STY, TI
Accession Number	/AN	S 92:17094/AN S 1998:1234/AN	AN
Author	/AU	S KIM I H/AU	AU
Character Count **(2)**	/CHC	S 190-250/CHC	CHC
Chemical Class Identifier	/CI	S ISOQUINOLINE ALKAL?/CI S ALKALOID?/CI	Not displayed
Chemical Name	/CN	S CHELIRUBIN?/CN	Not displayed
Classification Code **(3)** (code and text)	/CC	S ANALGESIC/CC S ANALGESIC ACTIVITY/CC	CC
Corporate Source **(3)**	/CS	S INST PHARM BIOL/CS S MUNICH/CS	CS
Document Number	/DN	S H06008/DN	DN
Document Type (code and text)	/DT (or /TC)	S J/DT S RESEARCH PAPER/DT	DT
Entry Date **(2)**	/ED	S ED>=20000100	Not displayed
Field Availability (code and text)	/FA	S RN/FA S GT/FA	Not displayed
Geographic Term (organism country)	/GT	S JAPAN/GT	Not displayed
Journal Title (Book Name)	/JT	S J NAT PROD/JT	JT, SO
Language (code and text)	/LA	S EN/LA S ENGLISH/LA	LA
Organism	/ORGN	S DICOT/ORGN S PAPAVER?/ORGN	ORGN
Other Source	/OS	S CA/OS S 75:72432/OS	OS
Publication Year **(2)**	/PY	S 1967/PY	PY, SO
Source (contains journal title, book name, patent information, collation, and publication year)	/SO	S J NAT PROD/SO S PATENT/SO	SO
Title	/TI	S ALKALOID#/TI	TI
Type of Study	/STY	S ISOLATION/STY	STY
Update Date **(2)**	/UP	S UP>20000100	Not displayed

(1) With left truncation, the input term must contain at least four characters.
(2) Numeric search field that may be searched using numeric operators or ranges.
(3) Search with implied (S) proximity is available in this field.

DISPLAY and PRINT Formats

Any combination of display formats listed below may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI CS. The fields are displayed in the order requested.

Hit term highlighting is available in all fields. Highlighting is ON as the default and must be on in order to use the QRD, HIT, KWIC, and OCC formats.

Format	Content	Examples
AN **(1)**	Accession Number	D L4 1-4 AN
AU	Author	D L1 3 AU
CHC **(1)**	Character Count	D L1 1-5 CHC
CS	Corporate Source	D 1-3,7,8 CS
DN	Document Number	D DN
DT (or TC)	Document Type	D L1 DT 3
JT **(2)**	Journal Title/Book Name	D JT
LA	Language	D LA 2
OS	Other Source	D L1 OS
PY **(2)**	Publication Year	D PY
SO	Source	D SO 3,4
TI	Title	D TI TOTAL
ALL	AN, DN, TI, AU, CS, SO, DT, LA, OS, CHC, ORGN (Class, Family, Genus, Species, Subspecies, Organism part, Geographic area), Type of Study, Classification, Dosage Information, Qualitative results, Comment(s), Compound (Chemical Name, CAS Registry Number, Class Identifier)	D ALL 1
BIB	AN, DN, TI, AU, CS, SO, DT, LA, OS, CHC	D BIB 1-3
CBIB	Compressed Bibliographic Data	D CBIB L1 1
IALL	ALL, indented with text labels	D IALL 3
IBIB	BIB, indented with text labels	D IBIB
ORG	Organism Data (Class, Family, Genus, Species, Subspecies, Organism part, Geographic area)	D ORG L2 1-4
QRD	AN, DN, TI, AU, CS, SO, DT, LA, OS, CHC, plus query related data (QRD is the default)	D QRD
SAM	TI	D SAM 1-10
SCAN **(1,3)**	TI (random display without answer number)	D SCAN
HIT	Fields containing hit terms	D HIT
KWIC	Hit terms plus 20 words on either side (Key-Word-In-Context)	D KWIC NOH
OCC **(1)**	Number of occurrences of hit terms and fields in which they occur	D OCC

(1) No online display fee for this format.
(2) Custom display only.
(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Accession Number	AN	Y	N
Author	AU	Y	Y
CAS Registry Number	RN	Y **(2)**	N
CAS Registry Numbers and Chemical Names	CHEM	Y **(2)**	N
Character Count	CHC	Y	Y
Chemical Name	CN	Y	N
	NAME	Y **(2)**	N
Class Identifier	CI	Y	N
Classification Code	CC	Y	N
Corporate Source	CS	Y	Y
Document Number	DN	Y	Y
Document Type	DT (or TC)	Y	Y
Geographic Term	GT	Y	N
Journal Title	JT	Y	Y
Language	LA	Y	Y
Occurrence Count of Hit Search Terms	OCC	N	Y
Organism Name	ORGN	Y	N
Other Source	OS	Y	Y
Publication Year	PY	Y	Y
Title	TI	Y (default)	Y
Type of Study	STY	Y	N

(1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT CN.

(2) Appends /BI to the terms created by SELECT.

Sample Records

DISPLAY IALL

```
ACCESSION NUMBER: 2012:7757  NAPRALERT
DOCUMENT NUMBER:  L33123
TITLE:            MUTAGENICITY OF FOUR NATURAL FLAVORS: CLOVE, CINNAMON, THYME
                  AND ZATARIA MULTIFLORA BOISS
AUTHOR:           SHOEIBI S H; RAHIMIFARD N; PIROUZ B; YALFANI R; PAKZAD S R;
                  MIRAB S S; PIRALI H M
CORPORATE SOURCE: FOOD DRUG LAB RESEARCH CENTER, TEHRAN IRAN
SOURCE:           J MED PLANTS (2009) 8 (5) p. 89-96.
DOCUMENT TYPE:    Paper; (Research paper)
LANGUAGE:         ENGLISH
CHARACTER COUNT:  1680
ORGN Class: DICOT  Family: MYRTACEAE  Genus: SYZYGIUM  Species: AROMATICUM
      Synonym(s): EUGENIA CARYOPHYLLATA
      Organism part: DRIED FLOWER BUDS
      TYPE OF STUDY (STY): IN VITRO.  Classification (CC): MUTAGENIC ACTIVITY
          Extract type: ESSENTIAL OIL
          Dosage Information: AGAR PLATE; CONC USED: 1 MG per ML
          Pathological system: SALMONELLA TYPHIMURIUM
          Qualitative results: ACTIVE
          Comment(s): SEE ARTICLE FOR OTHER TEST RESULTS.  VS.AMES MUTAGENICITY
                      ASSAY.
ORGN Class: DICOT  Family: LAURACEAE  Genus: CINNAMOMUM  Species: ZEYLANICUM
      Organism part: DRIED BARK
      TYPE OF STUDY (STY): IN VITRO.  Classification (CC): MUTAGENIC ACTIVITY
          Extract type: ESSENTIAL OIL
          Dosage Information: AGAR PLATE; CONC USED: 2 MG per ML
          Pathological system: SALMONELLA TYPHIMURIUM
          Qualitative results: INACTIVE
          Comment(s): VS.AMES MUTAGENICITY ASSAY.  SEE ARTICLE FOR OTHER TEST
                      RESULTS.
ORGN Class: DICOT  Family: LAMIACEAE  Genus: THYMUS  Species: VULGARIS
      Organism part: DRIED AERIAL PARTS
      TYPE OF STUDY (STY): IN VITRO.  Classification (CC): MUTAGENIC ACTIVITY
          Extract type: ESSENTIAL OIL
          Dosage Information: AGAR PLATE; CONC USED: 2 MG per ML
          Pathological system: SALMONELLA TYPHIMURIUM
          Qualitative results: INACTIVE
          Comment(s): VS.AMES MUTAGENICITY ASSAY.  SEE ARTICLE FOR OTHER TEST
                      RESULTS.
ORGN Class: DICOT  Family: LAMIACEAE  Genus: ZATARIA  Species: MULTIFLORA
      Organism part: PART NOT SPECIFIED
      TYPE OF STUDY (STY): IN VITRO.  Classification (CC): MUTAGENIC ACTIVITY
          Extract type: ESSENTIAL OIL
          Dosage Information: AGAR PLATE; CONC USED: 2 MG per ML
          Pathological system: SALMONELLA TYPHIMURIUM
          Qualitative results: INACTIVE
          Comment(s): VS.AMES MUTAGENICITY ASSAY.  SEE ARTICLE FOR OTHER TEST
                      RESULTS.
```

DISPLAY QRD

AN 2012:7943 NAPRALERT
DN L33356
TI ESTROGENIC ACTIVITY PRODUCED BY AQUEOUS EXTRACTS OF SILKWORM (BOMBYX MORI) PUPAE IN OVARIECTOMIZED RATS
AU YANG H J; LEE J W; LEE S H; RYU J S; KWAK D H; NAM K S; PARK Y I; LEE Y C; JUNG K Y; CHOO Y K
CS DEPT PHARMACOL, COLL MEDICINE, WONKWANG UNIV, IKSAN 570-749 SOUTH KOREA
SO AMER J CHINESE MED (2010) 38 (1) p. 89-97.
DT Paper; (Research paper)
LA ENGLISH
CHC 700
ORGN Class: ARTHROPOD Family: BOMBYCIDAE Genus: BOMBYX Species: MORI
Organism part: FRESH PUPAE
TYPE OF STUDY (STY): IN VIVO. Classification (CC): ESTROGENIC EFFECT
Extract type: LYOPHILIZED EXTRACT
Dosage Information: INTRAGASTRIC; RAT(OVARIECTOMIZED); FEMALE; DOSE: 200 MG per KG
Qualitative results: ACTIVE
Comment(s): SEE ARTICLE FOR OTHER TEST RESULTS.