

## BIOSIS (BIOSIS Previews/RN Database)

|                         |  |  |
|-------------------------|--|--|
| <b>Subject Coverage</b> | <ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Anatomy</li> <li>• Behaviour</li> <li>• Biochemistry</li> <li>• Bioengineering</li> <li>• Biophysics</li> <li>• Biotechnology</li> <li>• Botany</li> <li>• Cell Biology</li> </ul> | <ul style="list-style-type: none"> <li>• Environmental Biology</li> <li>• Experimental Clinical Medicine</li> <li>• Genetics</li> <li>• Immunology</li> <li>• Microbiology</li> <li>• Pathology</li> <li>• Pharmacology</li> <li>• Physiology</li> <li>• Toxicology</li> </ul> |
|-------------------------|--|--|

**File Type** Bibliographic

|                 |  |   |                       |   |
|-----------------|--|---|-----------------------|---|
| <b>Features</b> | Thesaurus  | Concept Codes (/CC), Controlled Term (/CT), Geographic Term (/GT), Organism (/ORGN) |                       |   |
|                 | <a href="#">Alerts (SDIs)</a>                    | Weekly or biweekly (Weekly is the default)  |                       |   |
|                 | <a href="#">CAS Registry Number® Identifiers</a> | <input checked="" type="checkbox"/>   | Page Images           | <input type="checkbox"/> STN® AnaVist™ <input type="checkbox"/>                                   |
|                 | <a href="#">Keep &amp; Share</a>                 | <input checked="" type="checkbox"/>   | <a href="#">SLART</a> | <input checked="" type="checkbox"/> <a href="#">STN Easy®</a> <input checked="" type="checkbox"/> |
|                 | Learning Database                                | <input type="checkbox"/>  | Structures            | <input type="checkbox"/>  |

**Record Content**

- Worldwide research on all biological and biomedical topics
- Bibliographic data, indexing information, and abstracts for most references.

**File Size** More than 27.8 million records (4/2019)

**Coverage** 1926-present

**Updates** Weekly

**Language** English

**Database Producer**

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**Sources**

- Journals (more than 5,000)
  - U.S. Patents (1942-1968, 1986-1989, 1994-present)
  - Reports
  - Meetings (Abstracts and Papers)
  - Reviews
  - Books
- 

**User Aids**

- Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
- 

**Clusters**

- AGRICULTURE
- AUTHORS
- ALLBIB
- BIOSCIENCE
- CASRNS
- CORPSOURCE
- ENVIRONMENT
- FOOD
- FORMULATIONS
- HEALTH
- MEDICINE
- PHARMACOLOGY
- TOXICOLOGY

[STN Database Clusters](#) information (PDF).

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**Pricing**

Enter HELP COST at an arrow prompt (=>).

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## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*)

| Search Field Name   | Search Code         | Search Examples  | Display Codes                  |
|---|---------------------|--|--------------------------------|
| Basic Index* (contains single words from the abstract (AB), biosystematic codes (BC), chemical name (CN), controlled term (CT), gene name (GEN), geographic term (GT), organism (ORGN), supplementary term (ST), and title (TI) fields, as well as CAS Registry Numbers (RN)) | None<br>(or /BI)    | S PITUITARY<br>S 50-78-2<br>S ?ASSAY?<br>S C PEPTIDE<br>S L1 AND NONHUMAN VERTEBRATES<br>S A431 CELL LINE<br>S BONE (S) DENSITY<br>S RODENTIA                    | AB, GT, IT,<br>ORGN, RN, TI    |
| Abstract*   | /AB                 | S (BONE (S) DENSITY)/AB<br>S ?ASSAY?/AB  | AB                             |
| Accession Number  | /AN                 | S 1992:100137/AN<br>S 2018:1000000/AN  | AN                             |
| Author (includes Inventor names)  | /AU                 | S GALLO R?/AU<br>S (SCINTO L? (S) EDITOR)/AU<br>S REPRINT AUTHOR/AU (S) GALLO R?/AU  | AU                             |
| Biosystematic Code (1)<br>Superterm (2)   | /BC                 | S 75326/BC<br>S *75326/BC<br>S HUMANS/BC AND 57-88-5   | ORGN                           |
| Biosystematic Code Range (3)<br>Chemical Name   | /BCR<br>/CN         | S 35100-35200/BCR<br>S C PEPTIDE/CN  | ORGN<br>RN                     |
| Classification Code (Concept Code) (1) (includes codes and text)  | /CC                 | S 38506/CC<br>S 385/CC<br>S CHEMOTHERAPY?/CC AND CIS PLATIN<br>S CHEMOTHERAPY - ANTIVIRAL?/CC  | CC                             |
| Concept Code Range (3)<br>Controlled Term (1, 4)  | /CCR<br>/CT         | S 25502-25554/CCR<br>S VETERINARY MEDICINE/CT AND HORSE?<br>S CHEMISTRY/CT (L) MAJOR CONCEPTS/FA<br>S MYOCARDIAL INFARCTION/CT<br>S C14.280.647.500./CT          | CC<br>IT                       |
| Controlled Word<br>Corporate Source (includes Patent Assignee) (5, 6)   | /CW<br>/CS          | S ANTIULCER/CW<br>S MONSANTO/CS<br>S MONSANTO UK/CS<br>S A ALLEN PURDUE/CS   | IT<br>CS                       |
| Digital Object Identifier   | /FTDOI<br>(or /DOI) | S 10.1016/J.FCT.2013?/DOI  | DOI, FTDOI                     |
| Document Number   | /DN                 | S BA94:18925/DN<br>S PREV199294018025/DN   | DN                             |
| Document Type (code and text)   | /DT<br>(or /TC)     | S C/DT AND L7<br>S CONFERENCE/DT AND L7  | DT, TC                         |
| E-mail Address<br>Entry Date (3)<br>Field Availability (7)  | /EML<br>/ED<br>/FA  | S A-ALLEN@FNR.PURDUE.EDU/EML<br>S L1 AND ED>20030226<br>S AB/FA AND 7440-23-5<br>S RN/FA AND L1<br>S MALARIA (L) DISEASES/FA<br>S ANALYTICAL METHOD (L) IT.MQ/FA | EML, CS<br>ED<br>Not displayed |
| File Segment<br>Gene Name<br>Geographic Term (1)  | /FS<br>/GEN<br>/GT  | S BR/FS AND 57-43-2<br>S HUMAN DI GENE/GEN<br>S TURKEY/GT<br>S (LONDON (S) ONTARIO)/GT   | FS<br>GEN<br>GT                |
| Index Term (8)<br>International Standard (Document) Number (contains CODEN, ISSN, ISBN)   | /IT<br>/ISN         | S GENETIC ENGINEERING/IT<br>S 983-40069-0-X/ISN<br>S 0090-8258/ISN<br>S JOCDAE/ISN   | IT<br>ISN, SO                  |

## Search and Display Field Codes (cont'd)

| Search Field Name   | Search Code       | Search Examples  | Display Codes |
|---|-------------------|--|---------------|
| Inventor Name <b>(6)</b>  | /IN               | S ABBOTT S D/IN  | AU            |
| Journal Title (contains full and abbreviated title)   | /JT               | S J ANAT/JT<br>S JOURNAL OF ANATOMY/JT                               | JT, SO        |
| Language (code and text)  | /LA               | S EN/LA AND L4<br>S ENGLISH/LA AND L4                                | LA            |
| Meeting Date <b>(3)</b>   | /MD               | S MD>20030507  | MD, SO        |
| Meeting Location  | /ML               | S ORLANDO/ML   | ML, SO        |
| Meeting Organizer <b>(5)</b>  | /MO               | S ONCOLOGISTS/MO   | MO, SO        |
| Meeting Title (includes all meeting information)  | /MT               | S 45TH ANNUAL/MT   | MT, SO        |
| Meeting Year <b>(3)</b>   | /MY               | S MY>=2003   | MY, SO        |
| Organism <b>(1)</b>   | /ORGN             | S RODENTIA/ORGN AND L1<br>S HUMANS/ORGN AND L1                       | ORGN          |
| Superterms <b>(2)</b>   |                   |  |               |
| Other Source  | /OS               | S GENBANK/OS<br>S AJ422244/OS  | OS            |
| National Patent Classification <b>(6)</b>   | /NCL              | S 428571000/NCL  | NCL           |
| Patent Country <b>(6)</b>   | /PC<br>(or /PCS)  | S US/PC AND L1   | PC, PI        |
| Patent Number <b>(6,10)</b>   | /PN<br>(or /PATS) | S US4543948/PN   | PI            |
| Publication Date <b>(3)</b>   | /PD               | S PD>=20030101   | PD, PI, SO    |
| Publication Year <b>(3)</b>   | /PY               | S 1997/PY  | PI, PY, SO    |
| Source (contains CODEN, ISBN, ISSN, publication title and date, book publisher and distributor information, meeting information, and collation) | /SO               | S DCTODJ/SO<br>S FED PROC/SO<br>S 0022-3549/SO<br>S 0-931146-19-4/SO | SO            |
| Supplementary Term <b>(5, 9)</b>  | /ST               | S GENBANK -95567/ST  | IT            |
| Title   | /TI               | S ULCER/TI<br>S LIQUID TRANSPORT?/TI                                 | TI            |
| Uniform Resource Locator  | /URL              | S "HTTP://WWW.USPTO.GOV/WEB/MENU/PATDATA.HTML"/URL                   | URL           |
| Update Date <b>(3)</b>  | /UP               | S UP>20030700  | ED            |

- (1) An online thesaurus is available in this field.
- (2) Enter HELP STERMS at an arrow prompt in the file for a list of superterms.
- (3) Numeric search field that may be searched using numeric operators or ranges.
- (4) The Controlled Term (/CT) search field contains bound phrases from the following IT display subfields: Major Concepts (from 1969); Chemicals & Biochemicals (from 1969); Diseases (from 1998); Parts, Structures, and Systems (from 1998); and Time (from 1993), as well as MeSH terms for diseases, when available. To restrict /CT terms to an IT subfield, link the /CT terms to the subfield heading or the subfield code in /FA, e.g., S CHEMISTRY/CT (L) MAJOR CONCEPTS/FA.
- (5) Search with implied (S) proximity is available in this field.
- (6) Only U.S. patents published between 1946 and 1989 and since 1995 are available.
- (7) Use the FA field to link terms to IT display subfields, e.g., S MALARIA (L) DISEASES/FA. Enter HELP FA at an arrow prompt to see a list of FA terms and examples.
- (8) The /IT search field contains single words from all ORGN display subfields and their headings as well as single words from the CN, RN, CT, GT, and ST fields, and MeSH terms for diseases, when available.
- (9) The /ST search field contains single words and bound phrases from the following IT display subfields: Methods and Equipment; Sequence Data; and Miscellaneous Descriptors.
- (10) Either STN or Derwent format may be used.

## Limiting Search Codes

Only an answer set created in BIOSIS may be limited.

| Search Field Name   | Search Code (1)                                   | Search Examples   |
|---|---|---|
| Animal Subject<br>English-Language Records<br>Female Subject<br>Human Subject<br>Male Subject | /ANIMAL<br>/ENGLISH<br>/FEMALE<br>/HUMAN<br>/MALE | S L4/ANIMAL<br>S L1/HUMAN,ENG (2)<br>S L3/FEMALE<br>S L1/HUMAN<br>S L2/MALE |

(1) Field codes may be abbreviated to the first three letters.

(2) Answer sets may be limited to more than one area.

## Thesaurus Fields

### Concept Codes (/CC) Field

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Concept Codes (/CC) thesaurus.

| Code                     | Content  | Example  |
|--------------------------|--|--|
| ALL<br>AUTO (1)<br>KT    | All associated terms (SELF, NOTE, UF, USE)<br>Automatic Relationship Code (SELF, USE)<br>Keyword Terms (multiword phrases containing the term)<br>(SELF, KT)         | E 38504+ALL/CC<br>E GENETICS - ANIMAL/CC<br>E FOOD+KT/CC   |
| NOTE<br>PFT<br>UF<br>USE | Scope Notes (SELF, NOTE)<br>Preferred and Forbidden Terms (SELF, UF, USE)<br>Used for Terms (Forbidden Terms) (SELF, UF)<br>Used Terms (Preferred Terms) (SELF, USE) | E 13506+NOTE/CC<br>E LABORATORY ANIMALS+PFT/CC<br>E 13508+UF/CC<br>E FOOD TECHNOLOGY -<br>SUGAR+USE/CC |

(1) By default, automatic relationship is SET OFF. When SET REL is ON, the result of EXPAND without any relationship code is the same as described for AUTO.

### Field Descriptors for the /CC Thesaurus

| Code | Description   |
|------|---------------|
| →    | Self          |
| KT   | Keyword Term  |
| NOTE | Scope Note    |
| UF   | Used For Term |
| USE  | Used Term     |

**BIOSIS****Controlled Term (/CT) Field**

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Controlled Term (/CT) thesaurus.

| Code | Content  | Example                      |
|------|--|------------------------------|
| ALL  | All associated terms (BT, SELF, NOTE, NT, RT)                      | E ANIMAL HUSBANDRY+ALL/CT    |
| BT   | Broader Terms (BT, SELF)   | E ALLERGY+BT/CT              |
| HIE  | Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)              | E HUMAN MEDICINE+HIE/CT      |
| KT   | Keyword Terms (multiword phrases containing the term) (SELF, KT)   | E DENTAL+KT/CT               |
| NOTE | Scope Notes (SELF, NOTE)   | E DENTAL MEDICINE+NOTE/CT    |
| NT   | Narrower Terms (SELF, NT)  | E AGRICULTURE+NT/CT          |
| RT   | Related Terms (SELF, RT)   | E TOXICOLOGY+RT/CT           |
| STD  | Standard (Broader, Narrower, and Related Terms) (BT, SELF, NT, RT) | E CLINICAL IMMUNOLOGY+STD/CT |

**Field Descriptors for the /CT Thesaurus**

| Code | Description   |
|------|---------------|
| →    | Self          |
| BT   | Broader Term  |
| KT   | Keyword Term  |
| NOTE | Scope Note    |
| NT   | Narrower Term |
| RT   | Related Term  |

**Geographic Term (/GT) thesaurus**

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Geographic Term (/GT) thesaurus.

| Code     | Content  | Example              |
|----------|--|----------------------|
| ALL      | All associated terms (BT, SELF, UF, USE, NT)                     | E TANZANIA+ALL/GT    |
| AUTO (1) | Automatic Relationship Code (SELF, USE)                          | E GOLD COAST+AUTO/GT |
| BT       | Broader Terms (BT, SELF)   | E POLAND+BT/GT       |
| KT       | Keyword Terms (multiword phrases containing the term) (SELF, KT) | E GERMANY+KT/GT      |
| NT       | Narrower Terms (SELF, NT)  | E AFRICA+NT/GT       |
| PFT      | Preferred and Forbidden Terms (SELF, UF, USE)                    | E GOLD COAST+PFT/GT  |
| STD      | Standard (Broader and Narrower Terms) (BT, SELF, NT)             | E TANZANIA+STD/GT    |
| UF       | Used For Terms (Forbidden Terms) (SELF, UF)                      | E IVORY COAST+UF/GT  |
| USE      | Used Terms (Preferred Terms) (SELF, USE)                         | E GOLD COAST+USE/GT  |

(1) Automatic relationship is SET OFF. When SET REL is ON, the result of EXPAND without any relationship code is the same as described for AUTO.

## Field Descriptors for the /GT Thesaurus

| Code | Description   |
|------|---------------|
| →    | Self          |
| BT   | Broader Term  |
| KT   | Keyword Term  |
| NT   | Narrower Term |
| UF   | Used For Term |
| USE  | Used Term     |

## Organism (/ORGN) thesaurus

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Organism (/ORGN) thesaurus (1).

| Code     | Content   | Example             |
|----------|---|---------------------|
| ALL      | All associated terms (BT, SELF, UF, USE, NT, RT)                      | E RODENTIA+ALL/ORGN |
| AUTO (2) | Automatic Relationship Code (SELF, USE)                               | E 86265/ORGN        |
| BT       | Broader Terms (BT, SELF)  | E BOVIDAE+BT/ORGN   |
| HIE      | Hierarchy (BT, SELF, NT)  | E PISCES+HIE/ORGN   |
| KT       | Keyword Terms (multiword phrases containing the term)<br>(SELF, KT)   | E BACTERIA+KT/ORGN  |
| NT       | Narrower Terms (SELF, NT)   | E AMPHIBIA+NT/ORGN  |
| PFT      | Preferred and Forbidden Terms (SELF, UF, USE)                         | E 85306+USE/ORGN    |
| RT       | Related Terms (SELF, RT)  | E RODENTS+RT/ORGN   |
| STD      | Standard (Broader, Narrower, and Related Terms)<br>(BT, SELF, NT, RT) | E AVES+STD/ORGN     |
| UF       | Used For Terms (Forbidden Terms) (SELF, UF)                           | E SALIENTIA+UF/ORGN |
| USE      | Used Terms (Preferred Terms) (SELF, USE)                              | E BC85201+USE/ORGN  |

(1) Either the /ORGN or the /BC (Biosystematic Code) field code may be used in this thesaurus.

(2) Automatic relationship is SET OFF. When SET REL is ON, the result of EXPAND without any relationship code is the same as described for AUTO.

## Field Descriptors for the /ORGN Thesaurus

| Code | Description   |
|------|---------------|
| →    | Self          |
| BT   | Broader Term  |
| KT   | Keyword Term  |
| NT   | Narrower Term |
| RT   | Related Term  |
| UF   | Used For Term |
| USE  | Used Term     |

**BIOSIS****DISPLAY and PRINT Formats**

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 BIB ABS; D L1 TI, AB. The fields are displayed or printed in the order specified.

Hit-term highlighting is available in all fields except MY and PY. Highlighting must be ON during search to use the HIT, HITIND, KWIC, and OCC formats.

| <b>Format</b> | <b>Content</b>                              | <b>Examples</b> |
|---------------|---|-----------------|
| AB            | Abstract                                    | D AB L4 1-5     |
| AN            | Accession Number                            | D AN 1-15       |
| AU            | Author (includes Inventor)                  | D AU 5 6 8-10   |
| CC            | Classification Code (Concept Code)          | D CC L45 2-8    |
| CS            | Corporate Source (includes Patent Assignee) | D CS L11        |
| CT (1)        | Controlled Term                             | D CT            |
| DN            | Document Number                             | D DN 1-100 L33  |
| DOI (FTDOI)   | Digital Object Identifier                   | D DOI, D FTDOI  |
| DT (TC)       | Document Type                               | D DT 4-18 L3    |
| ED (UP)       | Entry Date and Update Date                  | D ED            |
| EML           | E-mail address                              | D EML           |
| FS            | File Segment                                | D FS            |
| GEN           | Gene Name                                   | D GEN           |
| GT            | Geographic Term                             | D GT 2-3        |
| IN            | Inventor                                    | D IN            |
| ISN (2)       | International Standard (Document) Number    | D ISN           |
| IT (3)        | Index Term                                  | D IT 1-5        |
| JT (2)        | Journal Title                               | D JT            |
| JTA (2)       | Journal Title, Abbreviated                  | D JTA           |
| JTF (2)       | Journal Title, Full                         | D JTF           |
| LA            | Language                                    | D LA 4 6 9 10   |
| MD (2)        | Meeting Date                                | D MD            |
| ML (2)        | Meeting Location                            | D ML            |
| MO (2)        | Meeting Organizer                           | D MO            |
| MT (2)        | Meeting Title                               | D MT L3         |
| MY (2)        | Meeting Year                                | D MY            |
| NCL (2)       | Patent Classification                       | D NCL 1-7       |
| ORGN (BC)     | Organism Information                        | D ORGN          |
| OS            | Other Source                                | D OS            |
| PC (2)        | Patent Country                              | D PC            |
| PD (2)        | Publication Date                            | D PD            |
| PI (PN) (7)   | Patent Information                          | D PI L1         |
| PY (2)        | Publication Year                            | D PY            |
| RN (CN)       | CAS Registry Number and Chemical Name       | D RN 1-15 L2    |
| SO            | Source                                      | D 5 13 SO       |
| ST (4,5)      | Supplementary Term                          | D ST 1-17       |
| TI (5)        | Title                                       | D TI TOTAL      |
| URL (2)       | Uniform Resource Locator                    | D URL           |



**DISPLAY and PRINT Formats (cont'd)**

| Format                           | Content   | Examples  |
|----------------------------------|---|---|
| ABS<br>ALL                       | AB<br>AN, DN, TI, AU, CS, PI, SO, DOI, DT, FS, LA, OS, ED, AB, NCL, CC, IT, GT,<br>ORGN, RN, GEN  | D ABS 1-10<br>D ALL 5-10                                |
| BIB                              | AN, DN, TI, AU, CS, PI, SO, DOI, DT, FS, LA, OS, ED,<br>(BIB is the default)  | D BIB 3 L7<br>D   |
| CBIB                             | AN, compressed bibliographic information  | D CBIB  |
| DALL                             | ALL, delimited for post-processing  | D ALL   |
| IABS                             | ABS, indented with text label   | D IABS  |
| IALL                             | ALL, indented with text labels  | D IALL  |
| IBIB                             | BIB, indented with text labels  | D IBIB  |
| IND                              | NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN   | D IND   |
| SCAN (5,6)                       | TI, ST (random display without answer numbers)  | D SCAN  |
| HIT<br>HITIND<br>KWIC<br>OCC (5) | Fields containing hit search terms<br>Displays same data as the IND format<br>Hit terms plus 20 words on either side (Key-Word-In-Context)<br>Number of occurrences of hit terms and fields in which they occur | D HIT 5-10<br>D HITIND<br>D KWIC 5-10 NOH<br>D OCC 5-10 |

- (1) The CT field displays the following IT subfields: Major Concepts; Chemicals & Biochemicals; Diseases; Parts, Structures, and Systems; and Time.
- (2) Custom display only.
- (3) The IT field displays all of the IT subfields as well as ORGN, GEN, GT, and RN fields.
- (4) The ST field displays the following IT subfields: Methods and Equipment; Sequence Data; and Miscellaneous Descriptors.
- (5) No online display fee for this format.
- (6) SCAN must be entered on the DISPLAY command line, i.e., D SCAN or DISPLAY SCAN
- (7) Patent numbers are available in STN and Derwent format. The format for DISPLAY, PRINT, SELECT, and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the Derwent format. To reset to the STN format, enter SET PAT STN.

**SELECT, ANALYZE, and SORT Fields**

The SELECT command is used to create E-numbers or an L-number 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<br>SELECT (1) | SORT |
|-------------------------------------|------------|-----------------------|------|
| Abstract                            | AB         | Y                     | N    |
| Accession Number                    | AN         | Y                     | N    |
| Author                              | AU         | Y                     | Y    |
| Biosystematic Code                  | BC         | Y                     | N    |
| CAS Registry Number                 | RN         | Y (2)                 | N    |
| Chemical Names                      | CN         | Y (3)                 | N    |
|                                     | NAME       | Y (3,4)               | N    |
| Chemical Names and Registry Numbers | CHEM       | Y (5)                 | N    |
| Citation                            | CIT        | Y (3,6)               | N    |
| CODEN                               | CODEN      | N                     | Y    |
| Classification Code (Concept Code)  | CC         | Y                     | N    |
| Controlled Term                     | CT         | Y                     | N    |
| Corporate Source (Patent Assignee)  | CS         | Y                     | Y    |
| Document Number                     | DN         | Y                     | Y    |
| Document Type                       | DT         | Y                     | Y    |
| E-mail Address                      | EML        | Y                     | Y    |
| File Segment                        | FS         | Y                     | Y    |

**SELECT, ANALYZE, and SORT Fields (cont'd)**

| Field Name                               | Field Code | ANALYZE<br>SELECT (1) | SORT |
|--|------------|-----------------------|------|
| GenBank Number                           | GENBANK    | Y (2)                 | N    |
| Gene Name                                | GEN        | Y                     | N    |
| Geographic Term                          | GT         | Y                     | Y    |
| Index Term                               | IT         | Y                     | N    |
| International Standard Book Number       | ISBN       | N                     | Y    |
| International Standard (Document) Number | ISN        | Y (7)                 | N    |
| International Standard Serial Number     | ISSN       | N                     | Y    |
| Inventor                                 | IN         | Y                     | Y    |
| Journal Title                            | JT         | Y                     | Y    |
| Journal Title, Abbreviated               | JTA        | Y (12)                | Y    |
| Journal Title, Full                      | JTF        | Y (12)                | Y    |
| Language                                 | LA         | Y                     | Y    |
| Meeting Date                             | MD         | Y                     | Y    |
| Meeting Location                         | ML         | Y                     | Y    |
| Meeting Organizer                        | MO         | Y                     | Y    |
| Meeting Title                            | MT         | Y                     | Y    |
| Meeting Year                             | MY         | Y (3)                 | Y    |
| National Patent Classification           | NCL        | Y                     | Y    |
| Occurrence Count of Hit Search Terms     | OCC        | N                     | Y    |
| Organism                                 | ORGN       | Y                     | N    |
| Other Source                             | OS         | Y                     | Y    |
| Patent Country                           | PC         | Y                     | Y    |
| Patent Countries                         | PCS        | Y (8)                 | Y    |
| Patent Information                       | PI         | Y (3,9)               | Y    |
| Patent Number                            | PN         | Y (3)                 | Y    |
| Patent Numbers                           | PATS       | Y (3,10)              | Y    |
| Publication Date                         | PD         | Y                     | Y    |
| Publication Year                         | PY         | Y (3)                 | Y    |
| Source                                   | SO         | Y (3,11)              | N    |
| Supplementary Term                       | ST         | Y                     | N    |
| Title                                    | TI         | Y (default)           | Y    |
| Treatment Code                           | TC         | Y (13)                | Y    |
| Uniform Resource Locator                 | URL        | Y                     | Y    |

- (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 TI.
- (2) Appends /BI to the terms created by SELECT.
- (3) SELECT HIT and ANALYZE HIT are not valid with this field.
- (4) Selects or analyzes chemical name and appends /BI to the terms created by SELECT.
- (5) Selects or analyzes chemical name and CAS Registry Number and appends /BI to the terms created by SELECT.
- (6) Selects first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (7) Selects or analyzes CODEN, ISBN, and ISSN and appends /ISN to the terms created by SELECT.
- (8) Selects or analyzes Patent Country and appends /PCS to the terms created by SELECT.
- (9) Selects or analyzes Patent Number and appends /PN to the terms created by SELECT.
- (10) Selects or analyzes Patent Number and appends /PATS to the terms created by SELECT.
- (11) Selects or analyzes CODEN and ISSN and appends /SO to the terms created by SELECT.
- (12) Appends /JT to the terms created by SELECT.
- (13) Appends /DT to the terms created by SELECT.

## Sample Records

### DISPLAY IALL

ACCESSION NUMBER: 2014:314727 BIOSIS [Full-text](#)  
DOCUMENT NUMBER: PREV201400314727  
TITLE: House dust mite (Der p 10) and crustacean allergic patients may react to food containing Yellow mealworm proteins.  
AUTHOR(S): Verhoeckx, Kitty C. M. [Reprint Author]; van Broekhoven, Sarah; den Hartog-Jager, Constance F.; Gaspari, Marco; de Jong, Govardus A. H.; Wichers, Harry J.; van Hoffen, Els; Houben, Geert F.; Knulst, Andre C.  
CORPORATE SOURCE: TNO, Utrechtseweg 48, NL-3704 HE Zeist, Netherlands  
kitty.verhoeckx@tno.nl  
SOURCE: Food and Chemical Toxicology, (MAR 2014) Vol. 65, pp. 364-373.  
CODEN: FCTOD7. ISSN: 0278-6915. E-ISSN: 1873-6351.  
DIGITAL OBJECT ID: 10.1016/j.fct.2013.12.049  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 16 Apr 2014  
Last Updated on STN: 16 Apr 2014  
ABSTRACT: Scope: Due to the imminent growth of the world population, shortage of protein sources for human consumption will arise in the near future. Alternative and sustainable protein sources (e.g. insects) are being explored for the production of food and feed. In this project, the safety of Yellow mealworms (*Tenebrio molitor* L) for human consumption was tested using approaches as advised by the European Food Safety Authority for allergenicity risk assessment. Methods and results: Different Yellow mealworm protein fractions were prepared, characterised, and tested for cross-reactivity using sera from patients with an inhalation or food allergy to biologically related species (House dust mite (HDM) and crustaceans) by immunoblotting and basophil activation. Furthermore, the stability was investigated using an in vitro pepsin digestion test. IgE from HDM- and crustacean allergic patients cross-reacted with Yellow mealworm proteins. This cross-reactivity was functional, as shown by the induction of basophil activation. The major cross-reactive proteins were identified as tropomyosin and arginine kinase, which are well known allergens in arthropods. These proteins were moderately stable in the pepsin stability test. Conclusion: Based on these cross-reactivity studies, there is a realistic possibility that HDM- and crustacean allergic patients may react to food containing Yellow mealworm proteins. (C) 2014 Elsevier Ltd. All rights reserved.  
CONCEPT CODE: Cytology - Animal 02506  
Cytology - Human 02508  
Biochemistry studies - General 10060  
Biochemistry studies - Proteins, peptides and amino acids 10064  
Enzymes - General and comparative studies: coenzymes 10802  
Blood - Blood and lymph studies 15002  
Blood - Blood cell studies 15004  
Development and Embryology - General and descriptive 25502  
Immunology - General and methods 34502  
Immunology - Immunopathology, tissue immunology 34508  
Allergy 35500  
Invertebrata: comparative, experimental morphology, physiology and pathology - Insecta: physiology 64076  
INDEX TERMS: Major Concepts  
Clinical Immunology (Human Medicine, Medical Sciences);  
Biochemistry and Molecular Biophysics; Allergy (Clinical Immunology, Human Medicine, Medical Sciences)  
INDEX TERMS: Parts, Structures, & Systems of Organisms  
basophil: immune system, blood and lymphatics; sera:  
blood and lymphatics  
INDEX TERMS: Chemicals & Biochemicals

**BIOSIS**

immunoglobulin E [IgE]; tropomyosin; arginine kinase [EC 2.7.3.3]; house dust mite allergen: allergen

INDEX TERMS: Methods & Equipment  
immunoblotting: laboratory techniques, immunologic techniques; pepsin digestion test: clinical techniques

ORGANISM: Classifier  
Coleoptera 75304  
Super Taxa  
Insecta; Arthropoda; Invertebrata; Animalia  
Organism Name  
Tenebrio molitor (species) [yellow mealworm (common)]: larva, allergen  
Taxa Notes  
Animals, Arthropods, Insects, Invertebrates

ORGANISM: Classifier  
Hominidae 86215  
Super Taxa  
Primates; Mammalia; Vertebrata; Chordata; Animalia  
Organism Name  
human (common)  
Taxa Notes  
Animals, Chordates, Humans, Mammals, Primates, Vertebrates

REGISTRY NUMBER: 9026-70-4 (arginine kinase)  
9026-70-4 (EC 2.7.3.3)

**EXPAND in /CT Thesaurus****=> E TOXICOLOGY+ALL/CT**

E1 0 BT2 Major Concepts/CT  
E2 0 BT1 Major Concept Terms/CT  
E3 1413767 --> Toxicology/CT  
NOTE Studies of the chemistry, synthesis, physical properties, and distribution of identified toxins, and the undesired harmful actions of these chemicals on biological tissues or systems.  
NOTE For studies of environmental distribution of chemicals identified as toxins, see Pollution Assessment, Control, and Management.

E4 1298107 RT Ecology/CT  
E5 406591 RT Pollution Assessment Control and Management/CT  
E6 123934 RT Waste Management/CT  
\*\*\*\*\* END \*\*\*\*\*

**EXPAND in /ORGN Thesaurus****=> E GRAMINEAE+ALL/ORGN**

E1 0 BT6 Super Taxa/ORGN  
E2 0 BT5 Super Taxa Terms/ORGN  
E3 3506449 BT4 Plantae/ORGN  
E4 2502646 BT3 Spermatophyta/ORGN  
E5 2351120 BT2 Angiospermae/ORGN  
E6 765439 BT1 Monocotyledones/ORGN  
E7 586202 --> Gramineae/ORGN  
E8 586201 UF 25305/ORGN  
E9 0 UF BC25305/ORGN  
\*\*\*\*\* END \*\*\*\*\*

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