

BIOSIS (BIOSIS Previews/RN Database)

Subject Coverage

- Agriculture
- Anatomy
- Behaviour
- Biochemistry
- Bioengineering
- Biophysics
- Biotechnology
- Botany
- Cell Biology
- Environmental Biology
- Experimental Clinical Medicine
- Genetics
- Immunology
- Microbiology
- Pathology
- Pharmacology
- Physiology
- Toxicology

File Type

Bibliographic

Features

Thesaurus	Concept Codes (/CC), Controlled Term (/CT), Geographic Term (/GT), Organism (/ORGN)			
Alerts (SDIs)	Weekly or biweekly (Weekly is the default)			
CAS Registry Number® Identifiers	<input checked="" type="checkbox"/>	Page Images	<input type="checkbox"/>	STN® AnaVist™ <input type="checkbox"/>
Keep & Share	<input checked="" type="checkbox"/>	SLART	<input checked="" type="checkbox"/>	STN Easy® <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

Clarivate Analytics (UK) Limited
Friars House, 160 Black Friars Rd.
London SE1 8EZ
United Kingdom
Phone: +44-20-7433-4000
Helpdesk: +44-20-7433-4999

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1500 Spring Garden Street
Philadelphia, PA 19130 USA
Phone: 800-336-4474
<https://clarivate.com/contact-us/support/>

Copyright Holder: Clarivate Analytics. For more information on Clarivate Analytics Terms of Business visit <http://clarivate.com/tob/>.

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).

Pricing

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

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 (or /BI)	S PITUITARY S 50-78-2 S ?ASSAY? S C PEPTIDE S L1 AND NONHUMAN VERTEBRATES S A431 CELL LINE S BONE (S) DENSITY S RODENTIA	AB, GT, IT, ORGN, RN, TI
Abstract*	/AB	S (BONE (S) DENSITY)/AB S ?ASSAY?/AB	AB
Accession Number	/AN	S 1992:100137/AN S 2018:1000000/AN	AN
Author (includes Inventor names)	/AU	S GALLO R?/AU S (SCINTO L? (S) EDITOR)/AU S REPRINT AUTHOR/AU (S) GALLO R?/AU	AU
Biosystematic Code (1) Superterm (2)	/BC	S 75326/BC S *75326/BC S HUMANS/BC AND 57-88-5	ORGN
Biosystematic Code Range (3) Chemical Name Classification Code (Concept Code) (1) (includes codes and text)	/BCR /CN /CC	S 35100-35200/BCR S C PEPTIDE/CN S 38506/CC S 385/CC S CHEMOTHERAPY?/CC AND CIS PLATIN S CHEMOTHERAPY - ANTIVIRAL?/CC	ORGN RN CC
Concept Code Range (3) Controlled Term (1, 4)	/CCR /CT	S 25502-25554/CCR S VETERINARY MEDICINE/CT AND HORSE? S CHEMISTRY/CT (L) MAJOR CONCEPTS/FA S MYOCARDIAL INFARCTION/CT S C14.280.647.500./CT	CC IT
Controlled Word Corporate Source (includes Patent Assignee) (5, 6)	/CW /CS	S ANTIULCER/CW S MONSANTO/CS S MONSANTO UK/CS S A ALLEN PURDUE/CS	IT CS
Digital Object Identifier	/FTDOI (or /DOI)	S 10.1016/J.FCT.2013?/DOI	DOI, FTDOI
Document Number	/DN	S BA94:18925/DN S PREV199294018025/DN	DN
Document Type (code and text)	/DT (or /TC)	S C/DT AND L7 S CONFERENCE/DT AND L7	DT, TC
E-mail Address Entry Date (3) Field Availability (7)	/EML /ED /FA	S A-ALLEN@FNR.PURDUE.EDU/EML S L1 AND ED>20030226 S AB/FA AND 7440-23-5 S RN/FA AND L1 S MALARIA (L) DISEASES/FA S ANALYTICAL METHOD (L) IT.MQ/FA	EML, CS ED Not displayed
File Segment Gene Name Geographic Term (1)	/FS /GEN /GT	S BR/FS AND 57-43-2 S HUMAN DI GENE/GEN S TURKEY/GT S (LONDON (S) ONTARIO)/GT	FS GEN GT
Index Term (8) International Standard (Document) Number (contains CODEN, ISSN, ISBN)	/IT /ISN	S GENETIC ENGINEERING/IT S 983-40069-0-X/ISN S 0090-8258/ISN S JOCDAE/ISN	IT ISN, SO

Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Inventor Name (6)	/IN	S ABBOTT S D/IN	AU
Journal Title (contains full and abbreviated title)	/JT	S J ANAT/JT S JOURNAL OF ANATOMY/JT	JT, SO
Language (code and text)	/LA	S EN/LA AND L4 S ENGLISH/LA AND L4	LA
Meeting Date (3)	/MD	S MD>20030507	MD, SO
Meeting Location	/ML	S ORLANDO/ML	ML, SO
Meeting Organizer (5)	/MO	S ONCOLOGISTS/MO	MO, SO
Meeting Title (includes all meeting information)	/MT	S 45TH ANNUAL/MT	MT, SO
Meeting Year (3)	/MY	S MY>=2003	MY, SO
Organism (1)	/ORGN	S RODENTIA/ORGN AND L1 S HUMANS/ORGN AND L1	ORGN
Superterms (2)			
Other Source	/OS	S GENBANK/OS S AJ422244/OS	OS
National Patent Classification (6)	/NCL	S 428571000/NCL	NCL
Patent Country (6)	/PC (or /PCS)	S US/PC AND L1	PC, PI
Patent Number (6,10)	/PN (or /PATS)	S US4543948/PN	PI
Publication Date (3)	/PD	S PD>=20030101	PD, PI, SO
Publication Year (3)	/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 S FED PROC/SO S 0022-3549/SO S 0-931146-19-4/SO	SO
Supplementary Term (5, 9)	/ST	S GENBANK -95567/ST	IT
Title	/TI	S ULCER/TI S LIQUID TRANSPORT?/TI	TI
Uniform Resource Locator	/URL	S "HTTP://WWW.USPTO.GOV/WEB/MENU/PATDATA.HTML"/URL	URL
Update Date (3)	/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 English-Language Records Female Subject Human Subject Male Subject	/ANIMAL /ENGLISH /FEMALE /HUMAN /MALE	S L4/ANIMAL S L1/HUMAN,ENG (2) S L3/FEMALE S L1/HUMAN 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 AUTO (1) KT	All associated terms (SELF, NOTE, UF, USE) Automatic Relationship Code (SELF, USE) Keyword Terms (multiword phrases containing the term) (SELF, KT)	E 38504+ALL/CC E GENETICS - ANIMAL/CC E FOOD+KT/CC
NOTE PFT UF USE	Scope Notes (SELF, NOTE) Preferred and Forbidden Terms (SELF, UF, USE) Used for Terms (Forbidden Terms) (SELF, UF) Used Terms (Preferred Terms) (SELF, USE)	E 13506+NOTE/CC E LABORATORY ANIMALS+PFT/CC E 13508+UF/CC E FOOD TECHNOLOGY - 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

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 BT HIE	All associated terms (BT, SELF, NOTE, NT, RT) Broader Terms (BT, SELF) Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)	E ANIMAL HUSBANDRY+ALL/CT E ALLERGY+BT/CT 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 AUTO (1)	All associated terms (BT, SELF, UF, USE, NT) Automatic Relationship Code (SELF, USE)	E TANZANIA+ALL/GT 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) (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) (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.

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

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                                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)

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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 *****

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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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