

BIOSIS Previews®

ONTAP® BIOSIS Previews® (FILE 205)

FILE DESCRIPTION

BIOSIS Previews® contains citations from *Biological Abstracts*® (BA), and *Biological Abstracts/Reports, Reviews, and Meetings*® (BA/RRM) (formerly *BioResearch Index*®), the major publications of BIOSIS®. Together, these publications constitute the major English-language service providing comprehensive worldwide coverage of research in the biological and biomedical sciences. *Biological Abstracts* includes approximately 350,000 accounts of original research yearly from nearly 5,000 primary journal and monograph titles. *Biological Abstracts/RRM* includes an additional 200,000+ citations a year from meeting abstracts, reviews, books, book chapters, notes, letters, and selected reports.

U.S. patents are included in some archive records (1926-1968), from 1986-1989, and from 1994 to the present. Abstracts are available in archive records and from 1976 forward. Archive data is the digitized content of the print *Biological Abstracts*, volumes 1-49.

SUBJECT COVERAGE

All life science subjects are covered, including but not limited to the following:

- Aerospace Biology
- Agriculture
- Anatomy
- Bacteriology
- Behavioral Sciences
- Biochemistry
- Bioengineering
- Biophysics
- Biotechnology
- Botany
- Cell Biology
- Clinical Medicine
- Environmental Biology
- Experimental Medicine
- Genetics
- Immunology
- Microbiology
- Nutrition
- Occupational Health
- Parasitology
- Pathology
- Pharmacology
- Physiology
- Public Health
- Radiation Biology
- Systematic Biology
- Toxicology
- Veterinary Science
- Virology

TIPS

USE MAJOR CONCEPTS FOR EMPHASIS

S OCCUPATIONAL HEALTH?/MC

USE THE BIOSIS ONLINE THESAURUS

to check specialized terms and scope notes:

EXPAND (EXO BIOLOGY)

USE THE (L) OPERATOR

to link terms with their modifiers or roles:

S HYMENOPTERA(L)NEW SPECIES/DE

USE LIMITS

for human subjects, conference papers:

S S1/HUMAN; S S5/CONF

USE MAP

to search CAS® Registry Numbers in another file:

MAP RN TEMP

DIALOG FILE DATA

Inclusive Dates: 1926 to present (File 5)
 1993 to the present (File 55)
 1969 to present (File 525)
 1926-1968 (File 552)
 1984-1990 (File 205)

Update Frequency: Closed (Files 205,552)
 Weekly (Files 5,525,55)

File Size:

More than 18M records as of March 2007 (File 5)
 More than 8M records as of March 2007 (File 55)
 More than 16M records as of March 2007 (File 525)
 More than 1.8M records (File 552)
 60,000 records (File 205)

CONTACT

BIOSIS Previews is provided by BIOSIS, a Thomson business. Questions concerning the file content should be directed to:

Thomson Scientific

Customer Support Desk

3501 Market Street

Philadelphia, PA 19104

Phone: 215-386-0100 x1591

Toll Free: 800-336-4474 x1591

Fax: 1-215-386-6362

E-Mail: ts.custserv@thomson.com

JOURNAL ARTICLE RECORD

DIALOG(R)File 5:BIOSIS Previews
(c) 2003 BIOSIS.All rts. reserv.

AA= 0001486824 BIOSIS NO.: 200200631789
/TI Discrimination of four Japanese Tetranychus species (Acari: Tetranychidae) using PCR-RFLP of the inter-transcribed spacer region of nuclear ribosomal DNA

AU= AUTHOR: Osakabe Mh (Reprint); Hirose Takuya; Sato Masaru
CS= AUTHOR ADDRESS: Laboratory of Ecological Information, Graduate School of Agriculture, Kyoto University, Kyoto, 606-8502, Japan, Japan**Japan

JN=,PY=,SO= JOURNAL: Applied Entomology and Zoology 37 (3): p399-407 August 2002 2002
MEDIUM: print
SN= ISSN: 0003-6862
DT= DOCUMENT TYPE: Article
RT= RECORD TYPE: Abstract
LA= LANGUAGE: English

/AB ABSTRACT: To establish diagnostic DNA markers useful for discriminating economically important Tetranychus species, especially *T. kanzawai*, from other species of the urticae complex, we sequenced the ribosomal ITS region, including ITS1, 5.8S, and ITS2, of four Tetranychus species and analyzed recognition sites of restriction endonucleases. We established genetic criteria for discriminating *T. kanzawai*, *T. urticae*, *T. pueraricola* and *T. ludeni* using PCR-RFLP. We propose the establishment of a worldwide PCR-RFLP catalogue.

RN=,/NA,NA= REGISTRY NUMBERS: 9075-08-5: restriction endonucleases
/DE,/MC DESCRIPTORS:
MAJOR CONCEPTS: Molecular Genetics--Biochemistry and Molecular Biophysics ; Systematics and Taxonomy

BN=,/DE,/OI,OI= BIOSYSTEMATIC NAMES: Acarina--Chelicerata, Arthropoda, Invertebrata, Animalia
/DE,/OI,OI= ORGANISMS: Tetranychus kanzawai (Acarina)--Acari, Tetranychidae; Tetranychus ludeni (Acarina)--Acari, Tetranychidae; Tetranychus pueraricola (Acarina)--Acari, Tetranychidae; Tetranychus urticae (Acarina)--Acari, Tetranychidae

BC=,/DE,/OI,OI= COMMON TAXONOMIC TERMS: Animals; Arthropods; Chelicerates; Invertebrates
/DE,/NA,NA=,/SY,SY= CHEMICALS & BIOCHEMICALS: restriction endonucleases
/DE,/SQ,SQ= MOLECULAR SEQUENCE DATABANK NUMBER: AB076369--Genbank, EMBL, DDBJ, amino acid sequence, nucleotide sequence; AB076370--Genbank, EMBL, DDBJ, amino acid sequence, nucleotide sequence; AB076371--Genbank, EMBL, DDBJ, amino acid sequence, nucleotide sequence; AB076372--Genbank, EMBL, DDBJ, amino acid sequence, nucleotide sequence

/DE,/GE,GE= GENE NAME: Tetranychus kanzawai 5.8S nrDNA gene (Acarina); Tetranychus kanzawai ITS1 nrDNA gene (Acarina); Tetranychus kanzawai ITS2 nrDNA gene (Acarina); Tetranychus ludeni 5.8S nrDNA gene (Acarina); Tetranychus ludeni ITS1 nrDNA gene (Acarina); Tetranychus ludeni ITS2 nrDNA gene (Acarina); Tetranychus pueraricola 5.8S nrDNA gene (Acarina); Tetranychus pueraricola ITS1 nrDNA gene (Acarina); Tetranychus pueraricola ITS2 nrDNA gene (Acarina); Tetranychus urticae 5.8S nrDNA gene (Acarina); Tetranychus urticae ITS1 nrDNA gene (Acarina); Tetranychus urticae ITS2 nrDNA gene (Acarina)

/DE,/MQ METHODS & EQUIPMENT: PCR-RFLP--DNA amplification method
/DE,/MI MISCELLANEOUS TERMS: economic entomology

CC=,CN= CONCEPT CODES:
00504 General biology - Taxonomy, nomenclature and terminology
03502 Genetics - General
03506 Genetics - Animal
10062 Biochemistry studies - Nucleic acids, purines and pyrimidines
10064 Biochemistry studies - Proteins, peptides and amino acids
60002 Economic entomology - General
63596 Invertebrata: general and systematic - Chelicerata: Acarina
64060 Invertebrata: comparative, experimental morphology, physiology and pathology - Arthropoda: chelicerata

BC=,BN= BIOSYSTEMATIC CODES:
75403 Acarina

SAMPLE CONFERENCE RECORD

DIALOG(R)File 005:BIOSIS Previews
(c) 2003 BIOSIS. All rts. reserv.

AA= 0001472210 BIOSIS NO.: 200200617175
 /TI Molecular evolution of enteroinvasive Escherichia coli and Shigella
 AU= AUTHOR: Bumbaugh A C (Reprint); Large T M (Reprint); Ouellette L M
 (Reprint); Whittam T S (Reprint)
 CS= AUTHOR ADDRESS: Michigan State University, East Lansing, MI, USA**USA
 JN=,PY=,SO= JOURNAL: Abstracts of the General Meeting of the American Society for
 Microbiology 102 p464 2002 2002
 MEDIUM: print
 CT= CONFERENCE/MEETING: 102nd General Meeting of the American Society for
 CL=,CY=,DA= Microbiology Salt Lake City, UT, USA May 19-23, 2002; 20020519
 SP= SPONSOR: American Society for Microbiology
 SN= ISSN: 1060-2011
 DT= DOCUMENT TYPE: Meeting; Meeting Abstract
 RT= RECORD TYPE: Abstract
 LA= LANGUAGE: English

/AB ABSTRACT: Enteroinvasive Escherichia coli (EIEC) and Shigella species are
 bacteria that invade mucosal epithelia of the intestine and are a major
 cause of dysentery worldwide. To determine the evolutionary relationships
 of these invasive pathogens to other E. coli pathovars, genetic variation
 was assessed by DNA sequencing of 13 housekeeping genes in 45 strains.
 The analysis reveals levels of nucleotide polymorphism ranging from 4% to
 13% across loci with an average of 6.9%, with a slightly greater level of
 divergence among invasive strains than seen between other pathogenic
 groups. Phylogenetic analysis indicates that most Shigella serotypes fall
 into one of three groups. S. sonnei and the S. dysenteriae serotypes 1
 and 10 are distinct lineages independent of the other Shigella groups and
 S. boydii serotype 13 is a highly divergent lineage. The analysis also
 reveals distinct phylogenetic groups of EIEC with one strain (serotype
 O144:H-) clustering at the base of the Group 1 Shigella. A second cluster
 of EIEC includes serotypes O28, O29, O124, and O152 and appears to be
 closely related to E. coli O111:H21, an atypical enteropathogenic clone
 whose virulence mechanisms are poorly understood. A third group of EIEC
 serotypes is most closely related to a Shiga-toxin producing E. coli. Our
 analysis yielded identical groups of Shigella serotypes as those reported
 by Pupo and colleagues based on 8 different genes sequenced in 4 regions
 of the genome. The concordance of two independent studies based on
 different isolates and different genes shows that the approach is robust
 and indicates that recombination has not eliminated the phylogenetic
 signal in the history of divergence of the chromosomal backgrounds.

DESCRIPTORS:

/DE,/MC MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Methods and
 Techniques
 BN=,/DE,/OI,OI= BIOSYSTEMATIC NAMES: Enterobacteriaceae--Facultatively Anaerobic
 Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms
 /DE,/OI,OI= ORGANISMS: Escherichia coli (Enterobacteriaceae)--enteroinvasive;
 Shigella (Enterobacteriaceae)--enteroinvasive
 BC=,/DE,/OI,OI= COMMON TAXONOMIC TERMS: Bacteria; Eubacteria;
 Microorganisms
 /DE,/NA,NA=,/SY,SY= CHEMICALS & BIOCHEMICALS: Shiga-toxin
 /DE,/GE,GE= GENE NAME: housekeeping genes
 /DE,/MQ METHODS & EQUIPMENT: DNA sequencing--sequencing method; phylogenetic
 analysis--analytical method
 /DE,/MI MISCELLANEOUS TERMS: molecular evolution; Meeting Abstract; Meeting
 Abstract

CONCEPT CODES:

CC=,/CN 00520 General biology - Symposia, transactions and proceedings
 10060 Biochemistry studies - General
 10062 Biochemistry studies - Nucleic acids, purines and pyrimidines
 31000 Physiology and biochemistry of bacteria

BIOSYSTEMATIC CODES:

BC=,BN= 06702 Enterobacteriaceae

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S GLYCINE(W)BINDING(W)SITE?
/AB	AB	Abstract ¹	Word	S DNA(W)MARKER?/AB
/CO	CO	Company Name (Patent Assignee) ^{2,3,5}	Word	S BROOKHAVEN/CO
/DE	DE	Descriptor ^{5,6}	Word & Phrase	S ANIMALS/DE S MOLECULAR(W)GENETICS/DE
/DS	DS	Diseases and Disease Modifiers ^{4,5,8}	Word & Phrase	S DIABETES(W)MELLITUS/DS S ENDOCRINE DISEASE?/PANCREAS/DS
/GE	GE	Gene Name ^{2,5,7}	Word & Phrase	S TETRANYCHUS(W)KANZAWAI/GE S TETRANYCHUS URTICAE?/GE
/GN	GN	Geographic Name ^{2,5,8}	Word & Phrase	S (US OR USA OR UNITED(W)STATES)/GN S BAJA CALIFORNIA?/GN
/MC	MC	Major Concepts ^{5,9}	Word & Phrase	S MOLECULAR(W)GENETICS/MC S SYSTEMATICS "AND" TAXONOMY?/MC
/MH	MH	MeSH Heading ^{5,8,10}	Word & Phrase	S BREAST(W)NEOPLASMS(W)MESH/MH S BREAST NEOPLASMS (MESH)/MH S BREAST NEOPLASMS?/MH
/MI	MI	Miscellaneous Descriptors ⁵	Word & Phrase	S MEETING(W)ABSTRACT/MI S MOLECULAR EVOLUTION/MI
/MQ	MQ	Methods and Equipment ^{4,5}	Word & Phrase	S ANALYSIS/MQ S DNA SEQUENC?/MQ
/NA	NA	Chemical Name ^{2,5,8}	Word & Phrase	S BILOBALIDE/NA S SHIGA-TOXIN/NA
/OI	OI	Organism Names and Modifiers ^{2,5,8,11}	Word & Phrase	S SHIGELLA/OI S ESCHERICHIA(W)COLI?/OI
/PS	PS	Organism Parts, Structures and Systems ^{4,5,8}	Word & Phrase	S CIRCULATORY(W)SYSTEM/PS S BLOOD "AND" LYMPHATICS/PS
/SQ	SQ	Molecular Sequence Databank Number ^{4,5}	Word & Phrase	S AMINO(W)ACID?/SQ S AMINO ACID SEQUENCE/SQ
/SY	SY	Chemical Name ^{2,5,8}	Word & Phrase	S BILOBALIDE/SY S SHIGA-TOXIN/SY
/TI	TI	Series Title	Word	S INTERNATIONAL(W)CONGRESS?/TI
/TI	TI	Title	Word	S TETRANYCHUS(W)SPEC?/TI
/TM	TM	Time (Geologic) ^{5,8}	Word & Phrase	S PALEOZOIC/TM S LATE PALEOZOIC/TM

¹ Abstracts are available for archive records, BA records from July 1976 forward, and BA/RRM book synopses from 1985 forward.

² Searchable in the Basic Index and in the Additional Indexes.

³ Present in archive data (patent assignee) and from 1986 forward.

⁴ From 1989 forward.

⁵ Also searchable as /DE, /DF, /KW and displayable with DE.

⁶ Includes Common Taxonomic Terms, Biosystematic Names, Chemical Names, Diseases, Geographic Name, Major Concepts, Methods & Equipment, Miscellaneous Descriptors, Organism Names, Sequence Data, Synonyms, Time Descriptors, and MeSH Terms.

⁷ From 2001 forward.

⁸ Present in archive data (1926-1968) and from 1993 forward.

⁹ Truncation is recommended for phrase-indexed /MC terms.

¹⁰ From January 1998 forward.

¹¹ Includes Biosystematic Names, Organisms, Biosystematic Classification Names and Super Taxa.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	BIOSIS Accession Number	Phrase	S AA=200200631789
AU=	AU	Author	Phrase	S AU=OSAKABE MH
—	AZ	DIALOG Accession Number		
BC=	BC	Biosystematic Classification or Super Taxa Name ¹²	Phrase	S BC=ARTHROPODS S BC=75403
BN=	BN	International Standard Book Number (ISBN) ⁸	Phrase	S BN=0-07-001849-9
BN=	DE	Biosystematic Name ¹¹	Phrase	S BN=ACARINA
CC=	CC	Concept Code	Phrase	S CC=00504
CL=	CL	Patent Classification	Phrase	S CL=560-105
CL=	LO	Conference Location ^{8,13,19}	Word	S CL=(SALT(W)LAKE(W)CITY)
CN=	CN	Concept Name	Phrase	S CN=GENERAL BIOLOGY?
—	CN	Patent Country		
CO=	CO	Company Name(Patent Assignee) ^{2,3,5}	Phrase	S CO=ABIOMED?
CS=	CS	Corporate Source ¹⁴	Word & Phrase	S CS=(KYOTO(W)UNIV?) S CS=APPLIED ALGAE RESEARCH?
CT=	CT	Conference Title ¹³	Word	S CT=(102ND(W)GENERAL(W)MEETING)
CY=	CY	Conference Year ^{8,13,19}	Phrase	S CY=2002
DA=	DA	Conference Date ^{8,13}	Word	S DA=20020519
DT=	DT	Document Type ¹³	Phrase	S DT=ARTICLE
EC=	EC	Enzyme Commission Number ⁸	Phrase	S EC=EC 6.5.1.1
—	EM	Author email		
GE=	GE	Gene Name ^{2,5,7}	Phrase	S GE=TETRANYCHUS LUDENI?
GN=	GN	Geographic Name ^{2,5,8}	Word & Phrase	S GN=(UJI(W)JAPAN) S GN=UKRAINE (EUROPE)?
—	II	Digital Object Identifier ²⁰		
JN=	JN	Journal Name	Phrase	S JN=APPLIED ENTOMOLOGY?
LA=	LA	Language ¹⁴	Phrase	S LA=ENGLISH
—	ME	Medium Type		
NA=	NA	Chemical Name ^{2,5,8}	Phrase	S NA=SHIGA-TOXIN?
NT=	NT	New Taxa ⁸	Phrase	S NT=NEW TAXA
OI=	OI	Organism Names ^{2,5,8,15}	Phrase	S OI=ARTHROPODS
PA=	PA	Patent Assignee ³	Word & Phrase	S PA=(LEVER(W)BROTHERS) S PA=LEVER BROTHERS?
PD=	PD	Patent Date ³	Phrase	S PD=19980106
PN=	PN	Patent Number ³	Phrase	S PN=US 6356790
—	PR	BIOSIS Print Number ¹⁷		
PU=	PU	Publisher ⁸	Word & Phrase	S PU=(HUMANA(W)PRESS) S PU=HUMANA PRESS?
PY=	PY	Publication Year	Phrase	S PY=2002
RN=	RN	CAS(R) Registry Number	Phrase	S RN=9075-08-5
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SN=	SN	International Standard Serial Number (ISSN) ¹⁹	Phrase	S SN=0003-6862 S SN=00036862
SO=	SO	Source Information ¹⁸	Word	S SO=(APPLIED(W)ENTOMOLOGY AND 37)
SP=	SP	Sponsor ^{4,19}	Word & Phrase	S SP=(AMERICAN(W)SOCIETY(1W)MICROBIOLOGY) S SP=AMERICAN SOCIETY?
SY=	SY	Chemical Name ^{2,5,8}	Phrase	S SY=SHIGA-TOXIN
UD=	—	Update	Phrase	S UD=9999

¹² Contains Biosystematic Codes, Biosystematic Classification Names and Super Taxa.

¹³ For meetings and conferences use /CONF limit.

¹⁴ In BA records since January 1978: in BA/RRM records since January 1980.

¹⁵ Does not include modifiers.

¹⁶ From 1994 forward.

¹⁷ BIOSIS Print Number replaces previous BA or BA/RRM designation.

¹⁸ Search and Display include Journal Name, Volume, Issue, Page, and Publication Year.

¹⁹ Not present in archive data (1926-1968).

²⁰ Beginning in May 2007. Available in File 5, 55, and 525. Not available in File 552.

Files 5,55,525,552
SPECIAL FEATURES

BIOSIS Previews®

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP MAP, HELP DUP, HELP CURRENT online.

LIMIT	/ABS -- Abstract Present /CONF -- Also /MEETING; Conference Papers and Meetings /ENG -- English Language /HUMAN -- Human Subject /YYYY -- Publication Year	S GINKGO/ABS S GENOME/CONF S S3/ENG S S4/HUMAN S S2/2001:2002
SORT	AU, CS, JN, PY, TI	SORT S3/ALL/PY/D SORT S1/ALL/TI
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: SYRN	RANK DE S2 RANK JN S4
MAP	PA, PN, PU, RN, SY, SYRN	MAP RN TEMP S1 MAP SYRN TEMP S2
RD, ID	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
CURRENT	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 5 CURRENT2

PREDEFINED FORMAT OPTIONS

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation ¹⁹
4	--	Full Record with Tagged Fields ¹
5	--	Full Record ¹
6	Free	Title and Publication Year
7	Long	Bibliographic Citation and Abstract ¹
8	Short	Title, Indexing and Publication Year
9	Full	Full Record ¹
K	--	KWIC (Key Word In Context) displays a window of text; may be used alone or with other formats

OTHER OUTPUT OPTIONS

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

USER DEFINED FORMATS	User-defined formats may be specified using the display codes indicated in the Search Options tables.	TYPE S3/TI,SO,AB/1-5 PRINT S2/TI, AU/ALL
TAG	TAG may be used for tagged fields.	TYPE S3/AU,TI,SO/1-5 TAG
DIRECT RECORD ACCESS	DIALOG Accession Number	TYPE 20932820/5 DISPLAY 16021347/AU,TI,SO PRINT 21071375/7

FOR ONLINE HELP:

See HELP FIELDS 5 for searchable fields; HELP FORMAT 5 for output formats; HELP LIMIT 5 for limits; HELP RATES 5 for cost information; HELP SORT 5 for sorts.