

AGRIS International

FILE DESCRIPTION

AGRIS International is the international information system for agricultural sciences and technology. The AGRIS International database serves as a comprehensive inventory of worldwide agricultural literature which reflects research results, food production, and rural development to help users identify problems involved in all aspects of world food supply. Emphasis in AGRIS International is non-U.S. This file corresponds in part to the printed publication, *Agrindex*, published monthly by the Food and Agriculture Organization (FAO) of the United Nations.

AGRIS is a cooperative, decentralized system in which over 100 national and multinational centers take part. It collects and makes available current information on the agricultural literature of the world appearing in journals, books, reports, and conference papers. Each country which participates in AGRIS does so by submitting information about documents published within its own territories. All contributing sources are of non-U.S. origin. FAO acts as a coordinating agency within this global information system, facilitating the exchange of agricultural information to its member countries.

SUBJECT COVERAGE

AGRIS International includes coverage of the following main subject groups:

- Administration and Legislation
- Animal Production
- Aquatic Sciences and Fisheries
- Economics, Development, and Rural Sociology
- Education, Extension, and Advisory Work
- Food Science
- Forestry
- General Agriculture
- Geography and History
- Home Economics
- Human Nutrition
- Machinery and Buildings
- Natural Resources
- Pollution
- Plant Production
- Protection of Plants and Stored Products
- Transgenics

DIALOG FILE DATA

Inclusive Dates: 1975 to the present

Update Frequency:

Monthly (approximately 3,500 records per update)

File Size: Over 1,930,000 records as of March 1998

TIPS

USE FILE 203

to find international information sources in the agricultural sciences and technology.

USE RANK

to find more terms that can be used to enrich and focus a search.

SELECT INSECT(W)RESISTANCE/TI; RANK DE

USE LIMITS

to focus a search.

/ABS Abstract present

/MAJ Major Descriptor

/ENG English-Language

CONTACT

AGRIS International is produced by the Food and Agriculture Organization (FAO) of the United Nations and is made available by the National Agriculture Library, USDA, the participating U.S. agency. Questions concerning file content should be directed to:

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SAMPLE RECORD

DIALOG(R)File 203:AGRIS
Dist by NAL, intl copyright. All rts. reserv.

AA= 1883724 AGRIS No: 97-046222
/TI Transgenic bollworm-resistant cotton plants containing the synthetic gene coding Bacillus thuringiensis insecticidal protein
AU=, CS= Ni Wanchao; Huang Junqi (Jiangsu Provincial Academy of Agricultural Sciences, Nanjing (China). Inst. of Industrial Crops); Guo Sandui
SO=, JN=, PY= Jiangsu Journal of Agricultural Sciences, Mar 1996, v. 12(1) p.1-6
SN= Notes: 2 tables; 4 ill., 11 ref. ISSN: 1000-4440
LA= Language: Chinese
CP= Place of Publication: China
DT= Document Type: Journal Article, Bibliography, Summary
JA=, CI= Journal Announcement: 2304 Record input by China
AL= Abstract in English
/AB By the pollen tube pathway, the artificially synthesized Baccillus thuringiensis insecticidal protein gene, fused with the GUS reporter gene (Bt/GUS), was introduced into the elite cotton (Gossypium hirsutum L.) cultivars Simian 3 and Zhongmiansuo 12, and transgenic plants were obtained. Histochemical analysis of the GUS enzyme activity indicated that the GUS gene was expressed in the transgenic R1 plants of the two recipient cultivars. PCR results of the GUS-positive R1 plants showed the existence of the Bt gene, and the same results appeared in the R2 plant populations, indicating the stable integration of the Bt gene into the recipients and its inheritance from R1 to R2 generations. Resistance to the cotton bollworm (*Heliothis armigera* H.) was identified in these transgenic plants. In R1, 5 plants highly toxic to the insect were found out i.e. plants S545, S591, S636 and S1001 from the introduction combination "Simian 3 + Bt/GUS" and plant 1109 from "Zhongmiansuo 12 + Bt/GUS", with larva death rates up to 91.6 per cent, 93.8 per cent, 92.3 per cent, 85.7 per cent and 75.0 per cent, respectively. Insect-resistant R2 populations were derived from the R1 transgenic insect-resistant plants via selfing.

/DE Descriptors in English: *GOSSYPIMUM HIRSUTUM; *BACILLUS THURINGIENSIS; *PEST RESISTANCE; *HELICOVERPA ARMIGERA; *GENE TRANSFER; *GENETIC TRANSFORMATION; *TRANSGENIC PLANTS; BACILLACEAE; BACILLUS; BACTERIA; GENETIC ENGINEERING; GENETICALLY MODIFIED ORGANISMS; GOSSYPIMUM; HELICOVERPA; INSECTA; LEPIDOPTERA; MALVACEAE; NOCTUIDAE; RESISTANCE TO INJURIOUS FACTORS; TRANSGENICS

/DE Descriptors in Spanish: *GOSSYPIMUM HIRSUTUM; *BACILLUS THURINGIENSIS; *RESISTENCIA A LAS PLAGAS; *HELICOVERPA ARMIGERA; *TRANSFERENCIA DE GENES; *TRANSFORMACION GENETICA; *PLANTAS TRANSGENICAS; BACILLACEAE; BACILLUS; BACTERIA; GOSSYPIMUM; HELICOVERPA; INGENIERIA GENETICA; INSECTA; LEPIDOPTERA; MALVACEAE; NOCTUIDAE; ORGANISMOS MODIFICADOS GENETICAMENTE; RESISTENCIA A AGENTES DANINOS; TRANSGENICOS

/DE Descriptors in French: *GOSSYPIMUM HIRSUTUM; *BACILLUS THURINGIENSIS; *RESISTANCE AUX ORGANISMES NUISIBLES; *HELICOVERPA ARMIGERA; *TRANSFERT DE GENE; *TRANSFORMATION GENETIQUE; *PLANTE TRANSGENIQUE; BACILLACEAE; BACILLUS; BACTERIA; GENIE GENETIQUE; GOSSYPIMUM; HELICOVERPA; INSECTA; LEPIDOPTERA; MALVACEAE; NOCTUIDAE; ORGANISME GENETIQUEMENT MODIFIE; ORGANISME TRANSGENIQUE; RESISTANCE AUX FACTEURS NUISIBLES

SC=, SH= Section Headings: F30 (PLANT PRODUCTION -- Plant breeding); H10 (PROTECTION OF PLANTS AND STORED PRODUCTS -- Pests of plants)

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S GENE(3N)CODING
/AB	AB	Abstract ¹	Word	S PROTEIN(W)GENE/AB
/DE	DE	Descriptor ^{2,3,4}	Word & Phrase	S GENE(W)TRANSFER/DE
/ID	ID	Identifier ^{3,5}	Word & Phrase	S GENETIC ENGINEERING/DE
/TI	TI	Title ⁶	Word	S PARASITES/ID
				S NITROGEN FIXATION/ID
				S (BOLLWORM AND COTTON)/TI

¹ Abstracts present in only a small percentage of the records.

² Also /DF.

³ Not present for all records.

⁴ Descriptors include Commodity Names and Geographic Names.

⁵ Also /IF.

⁶ Conference Titles searchable with either /TI or CT=.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	AGRIS Number	Phrase	S AA=97-046222
AL=	AL	Abstract Language	Phrase	S AL=ENGLISH
—	AN	DIALOG Accession Number		
AU=	AU	Author	Phrase	S AU=HUANG JUNQI
AV=	AV	Availability	Word	S AV=(MINISTRY(1W)FOOD?)
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=87-984996-1-0
				S BN=8798499610
CI=	CI	Input Center	Phrase	S CI=CHINA
CL=	CL	Conference Location	Word	S CL=COPENHAGEN
CP=	CP	Country of Publication	Phrase	S CP=CHINA
CS=	CS	Corporate Source	Word & Phrase	S CS=(JIANGSU AND NANJING)
				S CS=JIANGSU PROVINCIAL ACADEMY?
CT=	CT	Conference Title ⁶	Word	S CT=(WEED(W)CONTROL(W)CONGRESS)
CY=	CY	Conference Year	Phrase	S CY=1996
—	DG	Thesis Degree		
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
ED=	ED	Edition	Word	S ED=2
IC=	IC	International Patent Class	Phrase	S IC="A23K1/00"
IL=	IL	Language of Identifier	Phrase	S IL=ENGLISH
JA=	JA	Journal Announcement	Phrase	S JA=2304
JN=	JN	Journal Name ⁷	Phrase	S JN=JIANGSU JOURNAL OF AGRICULTURAL?
LA=	LA	Language	Phrase	S LA=CHINESE
—	NT	Notes		
PC=	PC	Patent Country	Phrase	S PC=CZ
PN=	PN	Patent Number	Phrase	S PN=CZ 281357
PU=	PU	Publisher	Word	S PU=SLAGELSE
PY=	PY	Publication Year	Phrase	S PY=1996
RN=	RN	Report Number	Word & Phrase	S RN=(IAEA(W)STI(W)PUB(W)947)
				S RN=?IAEA--STI/PUB/947?
				S RN=IAEASTIPUB947
SC=	SC	Section Heading Code	Phrase	S SC=F30
SE=	SE	Series	Word	S SE=THESES
SH=	SH	Section Heading	Word & Phrase	S SH=(PLANT(W)PRODUCTION)
				S SH=PLANT PRODUCTION
SL=	SL	Summary Language	Phrase	S SL=ENGLISH
SN=	SN	International Standard Serial Number (ISSN)	Phrase	S SN=1000-4440
				S SN=10004440
SO=	SO	Source Information ^{7,8}	Word	S SO=(JIANGSU AND AGRICULTURAL)
ST=	ST	Status	Phrase	S ST=REVISED
UD=	—	Update	Phrase	S UD=9999

⁷ Journal Name may be searched using either JN= or SO=.

⁸ Display includes Journal Name, Volume, Issue, Year Pagination, and textual patent information.

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SPECIAL FEATURES

AGRIS International

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

LIMIT	/ -- DIALOG Accession Number /ABS -- Abstract Present /ENG -- English Language /MAJ -- Major Descriptor /NOABS -- No Abstract Present /NONENG -- Non-English Language /YYYY -- Publication Year	SELECT S3/1003362-9999999 S S3/ABS SELECT S4/ENG S PAPER/MAJ S S6/NOABS SELECT S5/NONENG S S2/1996:1997
SORT	AA, AU, CI, CS, JN, PY, TI	SORT S3/ALL/AU/TI PRINT S4/5/1-73/PY,D
RANK	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE, ID	RANK ID
MAP	PN	MAP PN TEMP S3
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 203 CURRENT2

PREDEFINED FORMAT OPTIONS

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Bibliographic Citation and Indexing
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields ¹
5	Long	Full Record with only English-language Descriptors ¹
6	Free	Title
7	--	Full Record except Indexing ¹
8	Short	Title and all Indexing
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	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/TI,SN,GL/1-4
TAG	Output can be displayed with tags identifying each display field.	TYPE S3/3/1-5 TAG
DIRECT RECORD ACCESS	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 0002886/5 DISPLAY 0003421/2 PRINT 0005832/3

FOR ONLINE HELP:

See HELP FIELDS 203 for searchable fields; HELP FORMAT 203 for output formats; HELP LIMIT 203 for limits; HELP RATES 203 for cost information; HELP SORT 203 for sorts.