AGRICOLA

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Subject Coverage

- Agricultural products
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- Biotechnology
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- Food and nutrition
- Horticulture
- Pesticides
- Rural sociology
- Soil sciences
- Veterinary medicine
- Wildlife
- Zoology

Date Coverage

1970-present

Update Frequency

Monthly

Geographic Coverage

International

Document Types

- Books
- Journal Articles
- Patents
- Reports
- Standards

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Reduction of abdominal fat accumulation in rats by 8-week ingestion of a newly developed sweetener made from high fructose corn syrup

Iida, Tetsuo; Yamada, Takako 🗙; Hayashi, Noriko; Okuma, Kazuhiro; Izumori, Ken; et al. **Food chemistry** 138.2-3 (Jun 1, 2013): 781-785.

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AB

⊟ **Abstract (summary)** Translate

Many studies have shown that ingestion of high-fructose corn syrup (HFCS) may cause an increase in body weight and abdominal fat. We recently developed a new sweetener containing rare sugars (rare sugar syrup; RSS) by slight isomerization of HFCS. Here, the functional effects of RSS on body weight and abdominal fat, and biochemical parameters in Wistar rats were examined. Rats (n=30) were randomly divided into three groups and maintained for 8-weeks on starch, starch+HFCS (50:50), and starch+RSS (50:50) diets. Rats in the Starch and HFCS groups gained significantly more body weight and abdominal fat than the RSS group. Fasting serum insulin in the RSS group was significantly lower than in the Starch and HFCS groups, although serum glucose in the HFCS and RSS groups was significantly lower than that in the Starch group. Thus, the substitution of HFCS with RSS prevents obesity induced by the consumption of HFCS.

⊟ **Indexing (details)** 📄 Cite

SU

Subject	abdominal fat;
	blood glucose;
	diet;
	high fructose corn syrup;
	ingestion;
	insulin;
	isomerization;
	obesity;
	rats;
	starch;
	sugars;
	sweeteners

TI

Title	Reduction of abdominal fat accumulation in rats by 8-week ingestion of a newly developed sweetener made from high fructose corn syrup

AU,AUFN, AULN

Author	Iida, Tetsuo; Yamada, Takako; Hayashi, Noriko; Okuma, Kazuhiro; Izumori, Ken; Ishii, Reika; Matsuo, Tatsuhiro

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AN

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FAV

First available	2013-08-14
Updates	2013-08-14
Database	AGRICOLA (1970 - current)

Search fields

You can use field codes on the Basic Search, Advanced Search, and Command Line Search pages to limit searches to specific fields. The table below lists the field codes for this file.

Field Name	Field Code	Example	Description and Notes
Abstract	AB	ab("body weight" and sweetener)	Use adjacency and/or Boolean operators to narrow search results.
Abstract present	ABANY	"wistar rats" and abany(yes)	Add: *AND ABANY(YES)* to a query to limit retrieval to records with abstracts.
Accession number	AN	an(ind500606448)	A unique document identification number assigned by the information provider. A record can display multiple accession numbers – depending on the products within which it is stored.
All fields + text	--	"corn syrup" and rats	searches all fields. Use proximity and/or Boolean operators to narrow search results.
Alternate title	OTI	oti("mechanisierung in der futter und tierproduktion")	Usually the document title in the original language. See also Document title.
Author Author First Name Author Last Name	AU AUFN AULN	au("smith, mary") aufn(mary) auln(smith)	Includes all authors. See also First author.
Conference information	CF	cf("forest fires") cf(kos) cf(greece) cf(2012)	
Corporate author	CA	ca("new york botanical gardens")	
Date revised	DREV	drev(>20130731)	Date that the Information provider revised the record.
Document title	TI	ti(fat P/5 rats)	Includes Alternate (OTI) and Sub-title (STIO), but not Publication title (PUB).
Title only	TIO	tio(grain)	Searches only the Title, not Subtitle or Alternate Title.
Document type	DTYPE	dtype("journal article")	
Edition	EN	en("new hampshire")	

Field Name	Field Code	Example	Description and Notes
First author	FAU	fau("jones, chris")	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse. See also Author.
First available	FAV	fav(20130814) fav(2013-08-14) fav(>20121231) fav(20130101-20130830)	Indicates the first time a document was loaded in a specific database on PQD. It will not change however many times the record is subsequently reloaded, as long as the accession number does not change.
From database [1]	FDB	ti(banana and virus) and fdb(agricolaprof) ti(banana and virus) and fdb(10000196)	Useful in multi-file searches to isolate records from a single file. FDB cannot be searched on its own; specify at least one search term then AND it with FDB.
Holding library	HL	hl("dnal 1")	Holding library codes are searchable but do not currently display in records.
Identifier (keyword)	IF, SU	if("campo-ma'an")	
ISBN	ISBN	isbn(9789740323)	
ISSN	ISSN	issn(03088146) issn(0308-8146)	Also retrieves electronic ISSNs.
Issue	ISS	iss(2-3)	Also searchable via the Look Up Citation tool.
Journal title	JN	jn("food chemistry")	Journal names only. For all Publication name types, use PUB. Displays in Publication title. Also searchable via the Look Up Citation tool for Publication name.
Language	LA	la(english)	
Language of abstract	SL	sl(english)	
Monograph title	MT	mt("rural development in asia")	
Notes	NT	nt(elsevier*)	
Page count	PCT	pct(5)	
Pagination	PG	pg(781)	See also Start page.

Field Name	Field Code	Example	Description and Notes
Publication date	PD	pd(20130601) pd(2013-06-01) pd(>20130531) pd(20120701-20120731)	Also searchable via the Look Up Citation tool.
Publication title	PUB	pub("food chemistry")	Title of publication where document originally appeared. Also searchable via the Look Up Citation tool.
Publication type	PT, STYPE	pt("scholarly journals")	
Publication year	YR, PY	yr(2012) yr(>2011) yr(2011-2012)	Single year or a range of years may be searched. Displays in Publication date.
Publisher	PB	pb("springer verlag")	
Publisher location	PBLOC	pbloc(oxford)	
Series title	SR	sr("nutraceutical science")	
Source type	PT, STYPE	pt("scholarly journals")	Searches references cited in the original document.
Start page	PAGE	page(781)	Also searchable on the Look Up Citation page. Displays in Pagination.
Subject heading (all)	SU	su("high fructose corn syrup") su(diet)	Descriptor terms describing the subject matter of the original record.
Updates	UD	ud(>20121231) ud(20130101-20130630)	The date(s) the record was loaded as a result of an update provided by the supplier.
Volume	VO	vo(138)	

[1] Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

Search tools

Field codes may be used in searches entered on the Basic Search, Advanced Search and Command Line Search pages. The tools available for searching are *__Search Fields__*, *__Limit Options__*, *__Browse Fields__*, *__"Narrow Results By" Limiters__*, and *__Look Up Citation__*. Each is listed separately below. Some data can be searched using more than one tool.

Limit options

Limit options are quick and easy ways of searching certain common concepts. Check boxes are available for:

Peer reviewed, Scholarly journals

Short lists of choices are available for:

Source type, Document type and **Language**

Date limiters are available in which you can select single dates or ranges for date of **publication** and **updated**.

Browse fields

You can browse the contents of certain fields by using Look Up lists. These are particularly useful to validate spellings or the presence of specific data. Terms found in the course of browsing may be selected and automatically added to the Advanced Search form. Look up lists are available in the fields drop-down for

Author, Publication title, Subject heading (all)

"Narrow Results By" limiters

When results of a search are presented, the results display is accompanied by a list of "Narrow results by" options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to ("narrow") your search results. Narrow results by limiters in this database include:

Peer reviewed, Scholarly journals, Source type, Publication title, Document type, Subject, Language, Publication date.

Look up citation

If you need to trace a particular bibliographic reference, use the Look Up Citation feature. Find a link to this toward the top left of the Advanced Search page, or in the drop list under Advanced on any search form; click this and you will go to a page where you can enter any known details of the citation, including: Document title, Author, Publication title, ISSN, ISBN, Volume, Issue, Page, Publication date, DOI.

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