

Description

CAB ABSTRACTS provides comprehensive coverage of the worldwide literature on agriculture and allied fields, including veterinary medicine, human nutrition, horticulture, forestry, leisure, recreation, and tourism. The database provides citations and abstracts to articles in more than 9,000 serial journals in more than 75 languages. Coverage is also provided for books, theses, annual and technical reports, conferences, and selected patents.

An online thesaurus is available as an aid in locating broader, narrower, and related subject terms.

Subject Coverage

CAB ABSTRACTS covers every branch of the applied life sciences, including:

- Agricultural biotechnology
- Agricultural economics and rural sociology
- Agricultural engineering
- Animal health and veterinary medicine
- Animal production and genetics
- Biodeterioration & biodegradation
- Crop production
- Crop protection
- Dairy science
- Environmental degradation, conservation, and amelioration
- Forestry
- Genetic resources
- Horticulture
- Human nutrition and diet-related disorders
- Human parasitic diseases
- Leisure, recreation, and tourism
- Plant breeding and genetics
- Postharvest science
- Rural development
- Soil science
- Sugar industry

Use CAB ABSTRACTS to answer both broad and specific questions like:

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Date Coverage

1910 – present

Update Frequency

Weekly

The following date ranges are also available separately:

1910 – 1931

1932 – 1972

1973 – present

Geographic Coverage

International

Document Types

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- Books and Monographs
- Conferences, Symposia, Meetings
- Journal Articles
- Theses and Dissertations
- Patents

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Caffeine prevents weight gain and cognitive impairment caused by a high-fat diet while elevating hippocampal BDNF.

Moy, G A ; McNay, E C . **Physiology & Behavior** 109 (2013): 69-74.

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AB

Abstract (summary) [Translate](#)

Obesity, high-fat diets, and subsequent type 2 diabetes (T2DM) are associated with cognitive impairment. Moreover, T2DM increases the risk of Alzheimer's disease (AD) and leads to abnormal elevation of brain beta-amyloid levels, one of the hallmarks of AD. The psychoactive alkaloid caffeine has been shown to have therapeutic potential in AD but the central impact of caffeine has not been well-studied in the context of a high-fat diet. Here we investigated the impact of caffeine administration on metabolism and cognitive performance, both in control rats and in rats placed on a high-fat diet. The effects of caffeine were significant: caffeine both (i) prevented the weight-gain associated with the high-fat diet and (ii) prevented cognitive impairment. Caffeine did not alter hippocampal metabolism or insulin signaling, likely because the high-fat-fed animals did not develop full-blown diabetes; however, caffeine did prevent or reverse a decrease in hippocampal brain-derived neurotrophic factor (BDNF) seen in high-fat-fed animals. These data confirm that caffeine may serve as a neuroprotective agent against cognitive impairment caused by obesity and/or a high-fat diet. Increased hippocampal BDNF following caffeine administration could explain, at least in part, the effects of caffeine on cognition and metabolism.

SU

Indexing (details) Cite

Subject
Muridae;
rodents;
mammals;
vertebrates;
Chordata;
animals;
eukaryotes;
animal models;
caffeine;
dietary fat;
diets;
hippocampus;
metabolism;
weight gain;
rats

CC

CABICODE VV140: Animal Models of Human Nutrition, VV400: Animal Models of Human Diseases (New March 2000)

SUBST,RN

Substance 58-08-2

IF

Identifier (keyword) cognitive impairment, source fat

TI

Title Caffeine prevents weight gain and cognitive impairment caused by a high-fat diet while elevating hippocampal BDNF.

AU

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AF

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LA	Language	English
SL	Language of abstract	English
DTYPE	Document type	Journal article
PUB	Publication title	Physiology & Behavior
VO	Volume	109
PG	Pagination	69-74
ISSN	ISSN	0031-9384
PSTYPE	Publication type	Journal article
PB	Publisher	Elsevier
PBLOC	Publisher location	New York, USA
DOI	DOI	http://dx.doi.org/10.1016/j.physbeh.2012.11.008
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PD	Publication date	2013
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FAV	First available	2013-02-19
UD	Updates	2013-02-19
	Database	CAB ABSTRACTS (1910 - current)

SEARCH FIELDS

Field Name	Field Code	Example	Description and Notes
Abstract	AB	ab("cognitive impairment*")	Use adjacency and/or Boolean operators to narrow search results.
Abstract present	ABANY	"type 2 diabetes" AND abany(yes)	Add: <i>AND ABANY(YES)</i> to a query to limit retrieval to records with abstracts.
Accession number	AN	an(20133055980)	A unique document identification number assigned by the information provider.
All fields	ALL	all(caffeine AND "high fat diet")	Searches all fields. Use adjacency and/or Boolean operators to narrow search results.
All fields + text	--	caffeine AND "high fat diet"	Same as ALL field code: searches all fields.
Author ¹ Author First Name Author Last Name	AU AUFN AULN	au(mcnay e c) or au(ribero, a*) aufn(mark) or aufn(m*) auln(taylor)	Includes all authors.
First author	FAU	fau(moy, g a)	First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse.

Field Name	Field Code	Example	Description and Notes
Author affiliation	AF	af("university at Albany" AND ny)	Includes as much data as is available in the original document, such as department, organization, address, city, state, country, author email, etc.
CAS® Registry Number	RN	rn(58-08-2)	Also searchable with SUBST field code. Displays as part of "Substance".
Classification (CABICODES)	CC	cc(VV140) cc(animal models of human nutrition) cc(QQ*)	Broad subject categories, to be used in conjunction with descriptor terms. Use truncation for broader retrieval.
Conference information	CF	cf(hydrocolloids) cf("malaria and ecosystems")	Displays as part of Conference title field. May contain Conference name, location, year, etc.
Document title	TI	ti(Caffeine AND "cognitive impairment")	Includes the Title, Foreign Language Title, Alternate Title and Subtitle, when available.
Title only	TIO	tio("water resource*")	Searches only the Title, not Subtitle or Alternate Title.
Original title	OTI	oti(gatto and asma)	Includes Alternate Title, Subtitle, and Original language of document title, if available. Field code TI also searches the Alternate title.
Document type	DTYPE	dtype(article)	
First available	FAV	fav(2013-02-19) fav(<20160726)	Indicates the first time the document was loaded on PQD. It will not change regardless of how many times the record is subsequently reloaded, as long as the Accession Number does not change. Date range searching is supported.
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International Standard Serial Number	ISSN	issn(0031-9384)	
Issue	ISS	iss(2)	Also searchable via the Look Up Citation tool.
Identifier (keyword)	IF	if("source fat") if(crop* NEAR/2 rotation)	Uncontrolled subject terms.
Language	LA	la(english)	The language in which the document was originally published.

Field Name	Field Code	Example	Description and Notes
Location	LOC	loc(malaysia) loc(south east asia)	
Pagination	PG	pg(101) pg(69-74)	The start page is also searchable on the Look Up Citation tool.
Publication date	PD	pd(2013) pd(2008-2011) pd(>2009)	Date range searching is supported.
Publication title ¹	PUB	pub("Physiology & behavior")	Title of publication where document originally appears.
Publication type	PSTYPE	pstype(thesis)	
Publication year	YR	yr(2013) yr(2009-2011) yr(>2012)	Date range searching is supported.
Publisher	PB	pb(Elsevier)	Publisher name, address, and sometimes URLs or availability information.
Publisher location	PBLOC	pbloc("New York")	
Subject ¹	SU	su(hippocampus)	Controlled subject terms. SU also searches the uncontrolled terms in Identifiers (IF).
Substance	SUBST	subst(58-08-2)	One or more CAS Registry numbers are included in articles referring to chemicals. Searchable with both SUBST and RN.
Taxonomic term	TXTERM	txterm(vitis vinifera)	Taxonomic terms are displayed with the other controlled subject terms in Subject.
Updated	UD	ud(2013-02-19) ud(>20161231)	The date(s) the record was loaded as a result of an update provided by the supplier. Date range searching is supported.
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Volume	VO	vo(109)	Also searchable via the Look Up Citation tool.

¹ A Lookup/Browse feature is available for this field in the Advanced Search dropdown or in Browse fields.

² 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.

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Author, Publication title, Subject

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