CAB ABTRACTS

Date revised: 30 July 2021

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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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- What is the susceptibility of farmed ostriches to avian influenza?

Date Coverage
1910 – present

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1910 – 1931
1932 – 1972
1973 – present

Update Frequency
Weekly

Geographic Coverage
International

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

AU,AUFN,AULN 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.

⊟ **Indexing (details)** 🗐 Cite

SU 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 Author	Moy, G A; McNay, E C
AF Correspondence author	Moy, G A University at Albany, Albany, NY 12222, USA. emcnay@albany.edu

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	
URL	URL	http://www.sciencedirect.com/science/article/pii/S0031938412004039	
PD	Publication date	2013	
DCRE	Date created	2013-02-13	
	Source attribution	CAB Abstracts, © Publisher specific	
AN	Accession number	20133055980	
	Document URL	http://search.proquest.com/professional/docview/1288593440?accountid=137296	
	Copyright	©2013 CAB International	
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: *AND ABANY(YES)* 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.

Field Name	Field Code	Example	Description and Notes
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.
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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Interntaional 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")	Uncontrolled subject terms.

Field Name	Field Code	Example	Description and Notes
		if(crop* NEAR/2 rotation)	
Language	LA	la(english)	The language in which the document was originally published.
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.
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Field Name	Field Code	Example	Description and Notes
			See also Notes below.
Volume	VO	vo(109)	Also searchable via the Look Up Citation tool.

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[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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Abstract included

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Classification , Document type, Language

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

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Author, Publication title, Subject

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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 term(s) to include or exclude and apply them to ("narrow") your search results. "Narrow results by" filters in CAB ABSTRACTS include:

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Brief citation	Complete record minus Abstract and Indexing	✓	✓
Citation / Abstract	Complete record	✓[1]	✓
Full text	Complete record with full text	✓[1]	✓
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