

# Food Science and Technology Abstracts

## ONTAP® Food Science and Technology Abstracts (File 251)

### FILE DESCRIPTION

**Food Science and Technology Abstracts (FSTA)™** is produced by the International Food Information Service (IFIS Publishing), an independent, not for profit organisation whose primary objective is to provide quality information products and services designed to meet the needs of all those working in the food sector. FSTA™ is the largest and most respected collection of food science, food technology and food related human nutrition abstracts. It is compiled by a team of specialist scientists dedicated to producing a database of consistent high quality and timeliness. Continual development of coverage allows FSTA™ to maintain its position as the market-leading food science database. There are more than 109,000 patent records including more than 11,000 Japanese patents.

FSTA™ covers journal articles (approximately 80%), patents, theses, standards, legislation, books, reviews, and conference proceedings. IFIS works hard to include sources that are not always easy to obtain, making it a key resource for industrial, academic and governmental users alike.

### SUBJECT COVERAGE

FSTA™ keeps you up-to-date in all areas related to food and beverages including the latest in research, new product development, quality assurance and control, food safety, food composition, regulations and consumer trends. It covers a wide range of topics in food science, food technology, and food related human nutrition including the following:

- Analytical Techniques
- Automation
- Biochemistry
- Biotechnology
- Business
- Catering
- Chemistry
- Consumer Research
- Economics
- Engineering
- Fermented Foods
- Food Composition
- Food Processing
- Food Safety
- Frozen Foods
- Functional Foods
- Hygiene & Toxicology
- Infant & Dietetic Foods
- Marketing
- Microbiology
- New Equipment
- Nutrition
- Packaging
- Patents
- Physics
- Public Health
- Quality Control
- Scientific & Technological Developments
- Standards & Legislation
- Storage
- Transport & Distribution
- **Food Commodities:**
- Alcoholic & Non-Alcoholic Beverages
- Fruits, Vegetables & Nuts
- Cocoa, Chocolate & Sugar Confectionery Products
- Sugars, Syrups & Starches
- Cereals & Bakery Products
- Fats, Oils & Margarine
- Milk & Dairy Products
- Eggs & Egg Products
- Fish & Marine Products
- Meat, Poultry & Game
- Additives, Spices & Condiments

### SOURCES

As of October 2009, FSTA had more than 4,600 serial publications. Approximately, 4,500 are journals and 100 other publications include patents, books, and standards. Original publications in more than 40 languages have been included with all abstracts produced in English.

### TIPS

#### USE FILE 51

to find information in the basic food science, nutrition, chemistry, biology, agriculture, physics, biotechnology, microbiology; the science and technology of food processing.

#### USE /DE

to search for a subject:

SELECT DIET THERAPY/DE

#### USE THE ONLINE THESAURUS

to check and select Descriptor terms:

EXPAND (ESSENTIAL OILS)

#### USE SECTION HEADINGS

to search broad categories:

SELECT SH=FRUITS, VEGETABLES?

#### USE RANK

to see what other terms could be used as descriptors:

SELECT FAT(W)SUBSTITUTE?/DE  
RANK DE

### DIALOG FILE DATA

Inclusive Dates: 1969 to the present (File 51)  
1998 - 2000 (File 251)

Update Frequency: Closed (File 251)  
Weekly (Approximately 700 records per update) (File 51)

File Size: More than 863,000 records as of October 2009 (File 51)  
16,416 records (File 251)

### CONTACT

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## SAMPLE RECORD

DIALOG(R)File 51:Food Sci.&Tech.Abs  
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**AA=** 0001855653 FSTA ACCESSION NO.: 2009-12-Mg3620

**/TI** Antioxidant enzymes in barley green biomass.

**AU=** Ehrenbergerova, J.; Brezinova Belcredi, N.; Kopacek, J.; Melisova, L.;  
Hrstkova, P.; Macuchova, S.; Vaculova, K.; Paulickova, I.

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ehren@mendelu.cz

**JN=,PY=** Plant Foods for Human Nutrition 2009 , v64 (2) 122-128

**DT=,RT=,SN=** DOCUMENT TYPE: Journal Article RECORD TYPE: Abstract ISSN: 0921-9668

DOI: <http://dx.doi.org/10.1007/s11130-009-0113-4>

**LA=** LANGUAGE: English

**/AB** Green biomass of young barley plants exhibited statistically significant  
higher activity of superoxide dismutase (SOD) and catalase (CAT) at  
sampling I (in the phase of plant development DC 29) compared to the later  
sampling II (DC 31). Significant effects of varieties, years and  
interactions of the studied factors on the activity of the studied  
antioxidants were determined. During the experiment period (2005-2007), the  
variety Sebastian provided statistically significant higher average SOD  
activity (486 U.g-1) versus the variety Malz (416 U.g-1 dry matter) and  
line KM1910 (418 U.g-1 dry matter). No statistically significant difference  
was recorded between the latter two varieties. Average catalase activity of  
the varieties did not show any significant difference. Significantly higher  
CAT activity in the sampling I was recorded on average of years and  
locations in the variety Sebastian and hull-less line KM1910 (935 and 907  
U.g-1) compared to the variety Malz (675 U.g-1). We can state that green  
biomass of young spring barley plants taken during the growth phase DC 29  
was a significant source of enzymes catalase and superoxide dismutase in  
the course of the experiment (2005-2007). (c)Springer Science+Business  
Media, LLC 2009.

**/DE** DESCRIPTORS: ANTIOXIDATIVE ACTIVITY; BARLEY; CATALASES; OXIDATION;  
OXIDOREDUCTASES; PEROXIDASES; SUPEROXIDE DISMUTASES; VAR

**/SH,SH=** SECTION HEADINGS: Cereals & bakery products--Minor cereals &  
pseudocereals

**SC=** SECTION CODES: M (Cereals & bakery products)

RECORD HISTORY: Created: Oct 05, 2009 (20091005)

DIALOG UPDATE DATE: 20091008; 07:00:57 EST

SEARCH OPTIONS

BASIC INDEX

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields	Word	S GREEN(W)BIOMASS
/AB	AB	Abstract <sup>1</sup>	Word	S SUPEROXIDE(W)DISMUTASE/AB
/DE	DE	Descriptor (includes Brand/Trade Name) <sup>2</sup>	Word & Phrase	S ANTIOXIDATIVE(W)ACTIVITY/DE
/SH	SH	Section Heading <sup>3</sup>	Word & Phrase	S SUPEROXIDE DISMUTASES/DE
/TI	TI	Title	Word	S CEREALS(1W)BAKERY/SH
/TN	TN	Brand/Trade Name <sup>3,4</sup>	Word	S "CEREALS & BAKERY?"/SH
			Word	S ANTIOXIDANT(W)ENZYMES/TI
			Word	S QUICK(W)FIBRE/TN

<sup>1</sup> Abstracts available for 95% of records.

<sup>4</sup> Available from January 1998 forward.

<sup>2</sup> Also /DF.

<sup>3</sup> Searchable in the Basic Index and in the Additional Indexes.

ADDITIONAL INDEXES

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AA=	AA	FSTA Accession Number	Phrase	S AA=2009-12-Mg3620
AU=	AU	Author	Phrase	S AU=KOPACEK J.
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN)	Phrase	S BN=1555812082
CS=	CS	Corporate Source	Word	S CS=(DEPARTMENT(1W)CROP)
DT=	DT	Document Type	Phrase	S DT=JOURNAL ARTICLE
—	HD	History Date		
—	II	Digital Object Identifier		
JN=	JN	Journal Name	Phrase	S JN=PLANT FOODS?
LA=	LA	Language	Phrase	S LA=ENGLISH
—	NT	Notes		
PA=	PA	Patent Assignee	Phrase	S PA=LYCKE BY AMYLEX AS
PC=	PC	Patent Country	Phrase	S PC=CS
				S PC=CZECHOSLOVAK PATENT
PN=	PN	Patent Number	Phrase	S PN=CS 277 321
				S PN=CS 277321
PR=	PR	Priority Information	Phrase	S PR=CS 84-6275
PU=	PU	Publisher	Word	S PU=(SPRINGER(W)VERLAG)
PY=	PY	Publication Year	Phrase	S PY=2009
RT=	RT	Record Type	Phrase	S RT=ABSTRACT
SC=	SC	Section Heading Code	Phrase	S SC=M
SH=	SH	Section Heading <sup>3</sup>	Phrase	S SH="CEREALS & BAKERY"?
SL=	SL	Summary Language	Phrase	S SL=ENGLISH
SN=	SN	International Standard Serial Number (ISSN) <sup>5</sup>	Phrase	S SN=0921-9668
				S SN=09219668
SO=	SO	Source Information <sup>6</sup>	Word	S SO=(PLANT(W)FOOD(1W)HUMAN)
TN=	TN	Brand/Trade Name <sup>3,4</sup>	Phrase	S TN=BARLEY BALANCE
UD=	—	Update	Phrase	S UD=9999

<sup>5</sup> Included from 1988 forward.

<sup>6</sup> Source data varies with document type. SO may include Journal Name, Volume, Issue, Pagination, Publication Date, Publisher, Patent Number, and Notes.

**SPECIAL FEATURES**

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

<b>LIMIT</b>	/ABS -- Abstract Present /ENG -- English-Language Publications /NOABS -- No Abstract Present /NONENG -- Non-English Language Publications /YYYY -- Publication Year	S BARLEY/ABS S SAFFRON/ENG S S1/NOABS S UD=?/NONENG S SC=M/2009
<b>SORT</b>	AU, CS, JN, PY, SH, TI	SORT S1/ALL/TI SORT S3/ALL/PY/D
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Other RANK codes include: DE	RANK DE RANK AU S4
<b>RD, ID</b>	Remove duplicates (RD) or identify duplicates (ID,IDO).	RD S5
<b>CURRENT</b>	Search only the most recent year plus one (CURRENT1) to five (CURRENT5) years.	B 51 CURRENT2

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number
2	--	Full Record except Abstract
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields <sup>1</sup>
5	--	Full Record <sup>1</sup>
6	Short	Title and Publication Year
7	Long	Bibliographic Citation and Abstract <sup>1</sup>
8	Free	Title, Indexing, and Publication Year
9	Full	Full Record <sup>1</sup>
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.

<b>USER DEFINED FORMATS</b>	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/TI,SO/1-5 PRINT S2/TI,AB/ALL
<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S3/5/1-10 TAG PRINT S1/9/ALL TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 00100005/5 DISPLAY 00074483/TI,AU PRINT 00501964/9

**FOR ONLINE HELP:**

See HELP FIELDS 51 for searchable fields; HELP FORMAT 51 for output formats; HELP LIMIT 51 for limits; HELP RATES 51 for cost information; HELP SORT 51 for sorts.