



## FSTA<sup>®</sup> – an intelligence service for the accurate discovery of scientific information related to food and health

**Eve Zhang (张屹)**  
Business Development Consultant  
for Greater China  
IFIS  
(国际食品信息服务中心大中华区业务负责人)

[e.zhang@ifis.org](mailto:e.zhang@ifis.org)



**FSTA<sup>®</sup>**  
the food science resource

# FSTA® coverage and content

- Access to **reliable, up-to-date research** in food is crucial to the welfare of humanity, including health, food security, trade and the economy
- FSTA® is the essential information resource for the sciences related to **food** and **health**, enhancing access to and usage of full-text collections
- **Global coverage** of:
  - ✓ Food commodities
  - ✓ Pure and applied sciences related to food and health e.g. agronomy (农学), animal and veterinary sciences, food safety, economics, nutrition and many more
- Research from **53 countries** in **29 languages** with English summaries
- Contains over 1.2 million\* **relevant, authoritative, high-quality** records, dating back to 1969
- Trusted by **academics, students and food scientists** worldwide

# FSTA® 收录信息范围及包含内容-来源

- ✓ Scientific journals （科技期刊）
- ✓ Research articles （研究论文）
- ✓ Patents (European patents (EPO), PCT International Applications, US Patents, Japanese Patent Applications) 专利信息（欧洲专利局 EPO、PCT全球专利申报、美国专利局、日本专利申请）
- ✓ Reviews （学术评论）
- ✓ Standards (ISO) （基于国际标准化组织ISO的标准）
- ✓ Books （图书）
- ✓ Reports （科技报告）
- ✓ Conference proceedings （科学会议录）
- ✓ Trade publications （大众科技期刊）

# About FSTA® – Key figures

- Annual totals of summaries added increasing year on year

→ 2005 = 25,334

↑ 2006 = 36,571

↑ 2007 = 39,374

↑ 2008 = 41,298

↑ 2009 = 46,515

↑ 2010 = 47,966

↑ 2011 = 51,914

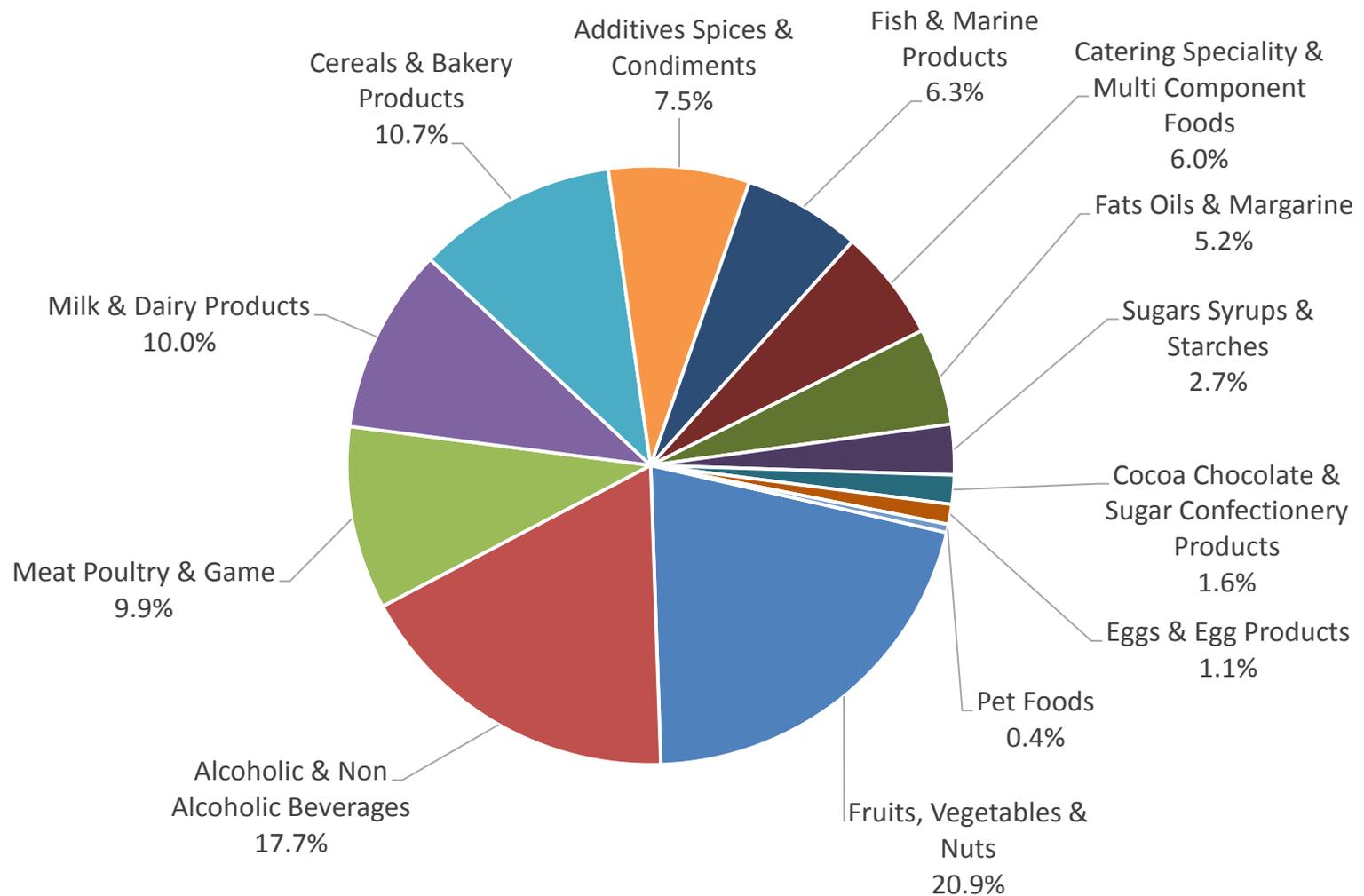
↑ 2012 = 53,699

↓ 2013 = 51,072 (Introduction of new production technology)

↑ 2014 = 61,200

↑ 2015 = 75,000 (target)

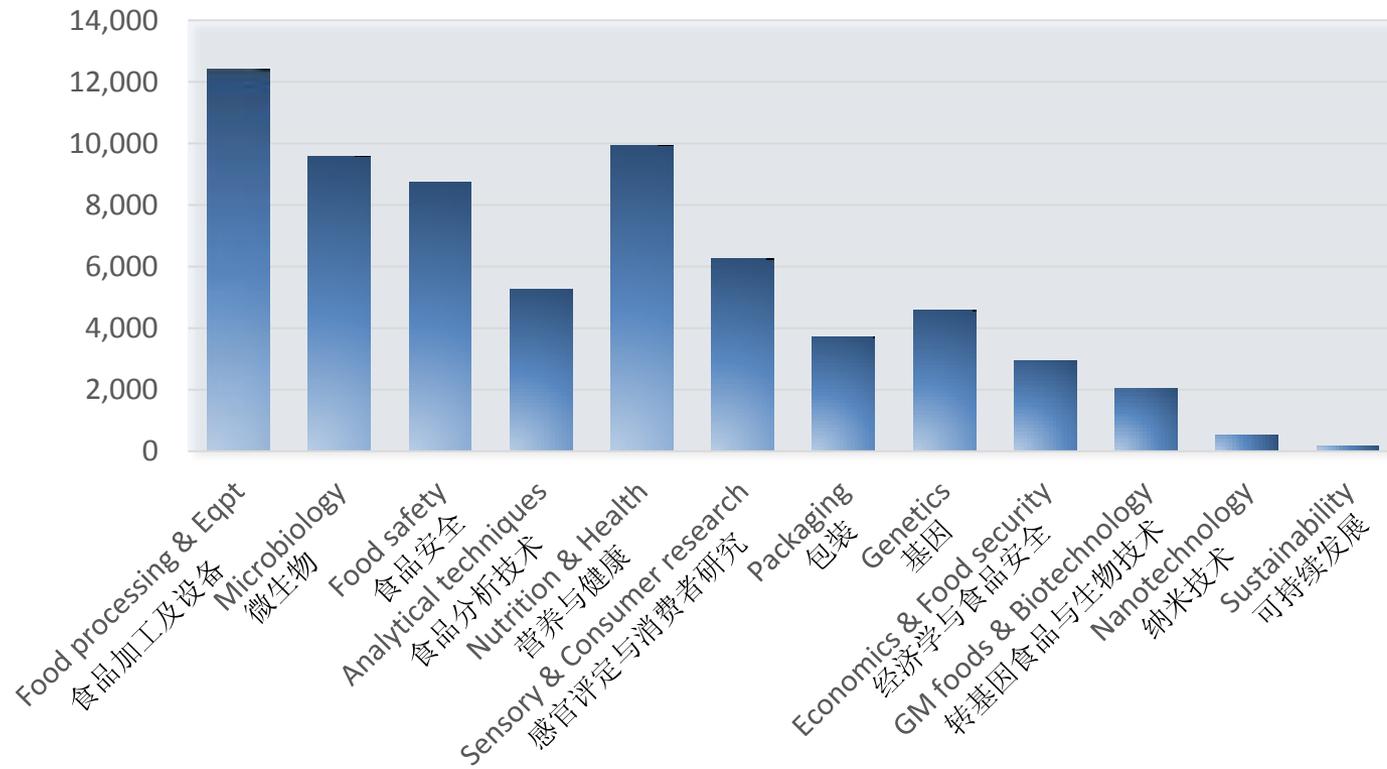
# FSTA® content: Food commodities



(Records added in 2014)

# FSTA® Searches: Topics - Pure & Applied Sciences

FSTA最常被检索到的主题 – 纯科学及应用科学



(Records added in 2014)据2014年加入数据统计

# FSTA® Top 20 Journals by record count 2010-2015 (2010-2015年间为FSTA贡献文 献最多的前20种期刊)

1. Food Chemistry (7,964)
2. Journal of Agricultural and Food Chemistry (6,311)
3. Food Science and Technology (3,454) - 中国大陆出版
4. PLoS One (3,115)
5. Food Research International (2,485)
6. Food Control (2,415)
7. Journal of Food Engineering (2,166)
8. Journal of Food Science (2,085)
9. LWT Food Science and Technology (1,994)
10. British Journal of Nutrition (1,990)
11. EFSA Journal (1,954)
12. Journal of the Science of Food and Agriculture (1,836)
13. Food and Chemical Toxicology (1,818)
14. International Journal of Food Microbiology (1,744)
15. International Journal of Food Science and Technology (1,703)
16. Meat Science (1,699)
17. Applied and Environmental Microbiology (1,481)
18. Journal of Chinese Institute of Food Science and Technology (1,479) 中国大陆出版
19. Journal of Food Protection (1,427)
20. Appetite (1,356)

# FSTA® content: China (FSTA收录的中国内容)

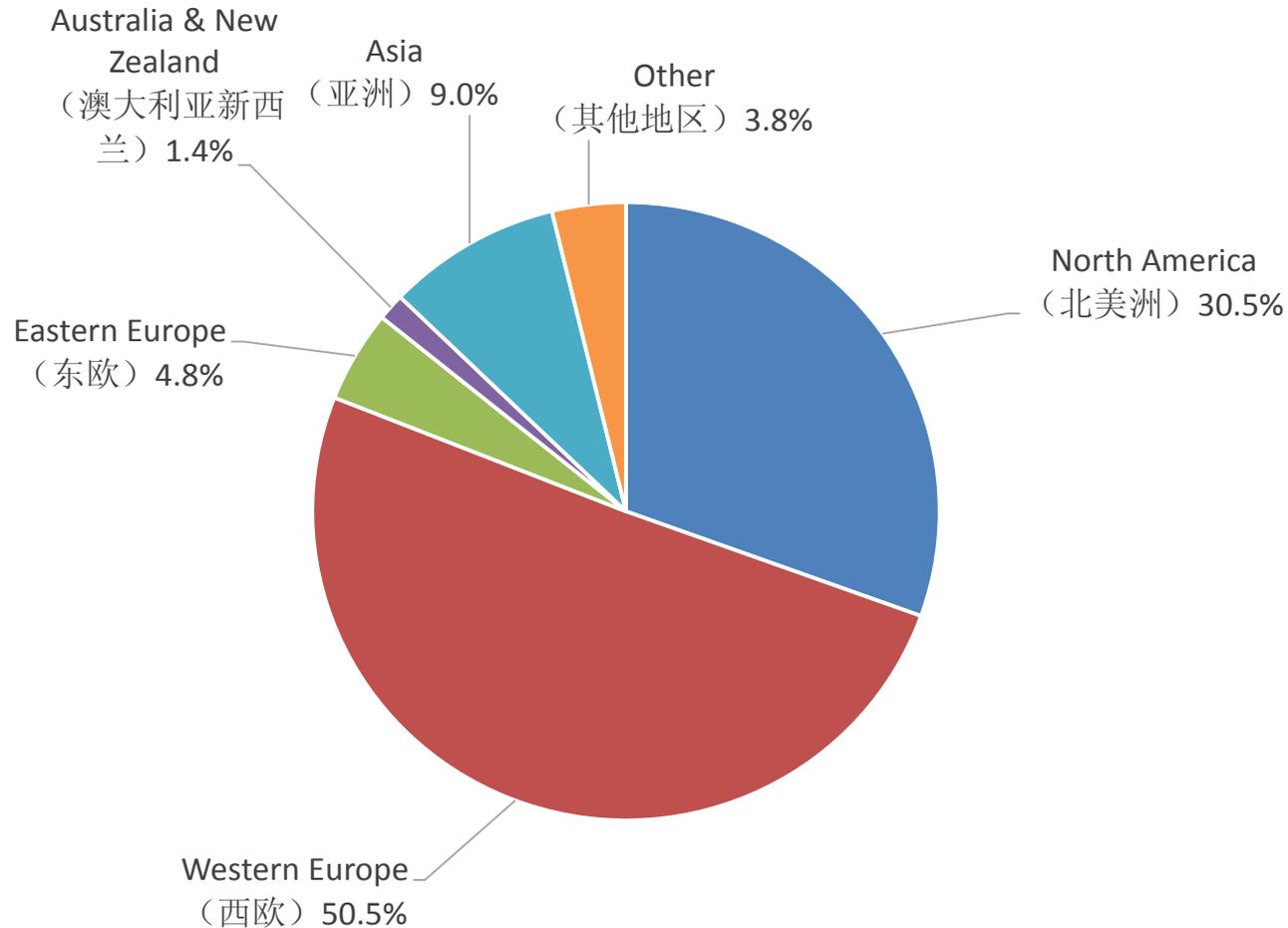
- 42 Chinese journals included in FSTA (FSTA目前收录有42种在中国出版或发行的期刊)
- Increasing journal coverage (来自中国的期刊数量正在增加)
  - 17 of these titles were added this year (2014年增加17种)
    - Additional 7,500 summaries per year (每年相应增加收录数据7500条)
- 14 further Chinese titles targeted for inclusion but not yet added (计划增加收录14种新的期刊品种)
- Recommendations for journal inclusions welcomed (欢迎大家向我们推荐高质量的相关学科期刊)

# FSTA所收录的中国出版或发表的期刊

(现刊)

LIVE COVERAGE	ISSN	Publisher
Title	ISSN	Publisher
Acta Agronomica Sinica	0496-3490	Science Press
Acta Nutrimenta Sinica	0512-7955	Editorial Board, Acta Nutrimenta Sinica
Acta Pharmacologica Sinica	1671-4083	Nature Publishing Group, part of Macmillan Publishing Group
Cereal & Feed Industry	1003-6202	Cereal & Feed Industry Magazine Press
Cereal & Food Industry	1672-5026	Zhongguo Liangyou Xuehui
China Brewing	0254-5071	Journal of China Brewing, Beijing
China Condiment	1000-9973	China Condiment Editorial Dep.
China Dairy Industry	1001-2230	National Dairy Information Center
China Food Additives	1006-2513	China Food Additives & Ingredients Association
Chinese Journal of Food Hygiene	1004-8456	
Crop Journal	2095-5421	Elsevier BV
Fisheries Science, China	1003-1111	Editorial Board of Journal of Fisheries Science
Food & Machinery	1003-5788	Changsha Ligong Daxue
Food and Drug	1672-979X	Shandong Sheng Shengwu Yaowu Yanjiuyuan Shiping yu Faxiao Gongye Bianjibu (China National Research Institute of Food and Fermentation Industries)
Food and Fermentation Industries	0253-990X	
Food and Fermentation Technology	1674-506X	Sichuan Sheng Shipin Fajiao Gongye Yanjiu Shejiyuan
Food and Nutrition in China	1006-9577	Guojia Shiwu yu Yingyang Zixun Weiyuanhui
Food Bioscience	2212-4292	Elsevier
Food Engineering, China	1673-6044	
Food Industry	1004-471X	Shanghai Shi Shipin Gongye Yanjiuso Shiping yu Faxiao Gongye Bianjibu (China National Research Institute of Food and Fermentation Industries)
Food Research and Development	1005-6521	
Food Science and Human Wellness	2213-4530	Elsevier
Food Science and Technology	1005-9989	
Food Science, China	1002-6630	Beijing Shi Shipin Yanjiusuo
Journal of Chinese Institute of Food Science and Technology	1009-7848	Chinese Institute of Food Science and Technology, China
Journal of Dalian Polytechnic University	1674-1404	Journal of Dalian Polytechnic University
Journal of Food Safety and Quality	2095-0381	Beijing Shi Shipin Yanjiusuo
Journal of Food Science and Biotechnology	1673-1689	Jiangnan University Magazine Agency
Journal of Food Science and Technology, China	2095-6002	Beijing Technology and Business University
Journal of Henan University of Technology Natural Science Edition	1673-2383	Journal of Henan University of Technology
Journal of Integrative Agriculture	2095-3119	Elsevier
Journal of Xinjiang Agricultural University	1007-8614	Xinjiang Nongye Daxue
Journal of Zhejiang University (Agriculture and Life Sciences)	1008-9209	Zhejiang University Press
Modern Food Science and Technology	1673-9078	
Packaging and Food Machinery	1005-1295	Packaging and Food Machinery Magazine Office
Rice Science	1672-6308	Elsevier
Science and Technology of Food Industry	1002-0306	Beijing Shi Shipin Yanjiusuo
Scientia Agricultura Sinica	0578-1752	Chinese Academy of Agricultural Sciences
South China Fisheries Science	2095-0780	South China Fisheries Science
Storage and Process	1009-6221	Guojia Nongchanpin Baoxian Gongcheng Jishu Yanjiu Zhongxin
Transactions of the Chinese Society of Agricultural Engineering	1002-6819	Chinese Society of Agricultural Engineering (CSAE)
Xinjiang Agricultural Sciences	1001-4330	Editorial Department of Xinjiang Agricultural Sciences

# Journal Coverage by Region (FSTA收录期刊的地理来源)



# Highly selective criteria for content

- Using our in-house **expertise**, we identify and include articles from journals in microbiology, psychology, and many other areas
- Every record is carefully selected for its **relevance** to the food industry
- Journals are only indexed cover-to-cover if every article is within **the food remit**
- The selection policy is for **food commodities**, and **related pure and applied sciences**:
  - ✓ Pre-farm gate/pre-harvest material is also included when the aspect under study will impact food quality
  - ✓ Articles from pure and applied science areas are included that contain supporting information of relevance to food and nutrition
- Using FSTA<sup>®</sup>, scientists and students can easily conduct **in-depth, targeted interdisciplinary research**

# Interdisciplinary subject coverage

In addition to the core areas of food science and technology, and nutrition, FSTA<sup>®</sup> contains content relevant to the following subjects, and is a vital resource for interdisciplinary research:

- Agricultural sciences
- Analytical techniques
- Animal sciences
- Biochemistry
- Biophysics
- Biotechnology
- Brewing and distilling
- Chemical engineering
- Culinology (厨艺)
- Endocrinology (内分泌学)
- Epidemiology (流行病学)
- Food economics/business
- Food engineering
- Food manufacture
- Food policy
- Food safety and hygiene
- Food security
- Gastroenterology (肠胃病学)
- Genetic engineering
- Genomics
- Medical sciences
- Metabolomics (代谢学)
- Microbiology
- Packaging
- Pharmaceutical sciences
- Psychology
- Public health
- Sociology
- Sport and exercise science
- Sustainability
- Tourism and hospitality
- Toxicology
- Veterinary medicine
- Viticulture and oenology (葡萄栽培与酿造)

# FSTA® Thesaurus

- Alphabetical list of all keywords used in the FSTA® index fields
- The latest edition contains 10,781 terms
- Terms are displayed within hierarchies, facilitating search construction and refinement when used to retrieve FSTA® records
- New keywords are introduced and keyword context reviewed in response to scientific innovation
- Using the thesaurus, you can:
  - ✓ Distinguish between a preferred and non-preferred term, e.g. beverages (preferred) and drinks (non-preferred)
  - ✓ Broaden or narrow searches
  - ✓ Explode searches
  - ✓ Identify related terms
  - ✓ Check the history of term usage
  - ✓ Generally improve on record retrieval and relevance

# FSTA Thesaurus – hierarchies

- **The controlled keywords are structured into extensive relational and associative subject hierarchies.**
- **The hierarchies control the context within which keywords with multiple meanings can be used in the index of FSTA records**
- **These hierarchies are designed specifically to optimise information retrieval for those searching the scientific fields covered in FSTA, i.e. food science, food technology and food-related human nutrition, and the wide range of directly relevant associated disciplines**
- **Accompanying information provided with the keywords, together with the hierarchical structure of the thesaurus, enables powerful searching based on the index**

# FSTA Thesaurus – functionality

Using the thesaurus it is possible to:

- **Identify the correct terminology to use when searching for food science literature on FSTA (e.g. corn/maize, drinks/beverages)**
- **Identify related terms and synonyms to improve the search output quality**
- **Check the scope and history of term usage (e.g. when did Sulphur change to Sulfur) so that an appropriate search strategy can be constructed**
- **Make searches more specific or more general by using appropriate narrow terms (NT) or broad terms (BT) within the hierarchical thesaurus structure**
- **Perform comprehensive searches on wide-ranging subject areas with speed, ease and confidence**

# FSTA Thesaurus – example: Salmon

BT1 Oily fish

BT2 Fish

BT3 Animals

BT3 Sea foods

BT4 Aquatic foods

BT5 Animal foods

BT6 Foods

NT1 Atlantic salmon

NT2 *Salmo salar*

NT1 Pacific salmon

NT2 Cherry salmon

NT3 Masu salmon

NT2 Chinook salmon

NT3 King salmon

NT2 Chum salmon

NT3 Keta salmon

NT3 *Oncorhynchus keta*

NT2 Coho salmon

NT2 Pink salmon

NT2 Sockeye salmon

NT3 Red salmon

NT1 Smoked salmon

# Effective, efficient searching

## Key benefits

- **Efficient search construction and filters** to find high-quality results of direct relevance
- **Easy navigation** of, and between, records
- **Drastically reduced chance of false hits** compared with other databases, saving valuable time

## Why it works so effectively

- **Deep-indexing** of records using the most comprehensive food thesaurus in the world (*example FSTA® Thesaurus section, right*)
- **Precise, comprehensive keywords**, differentiating between keywords with multiple meanings
- In-house **scientific expertise**
- **Highly-targeted content selection policy** from global sources
- **Interdisciplinary** coverage

### Spirits

BT1 Alcoholic beverages  
BT2 Beverages alcoholic  
BT3 Beverages  
NT1 Absinthe  
NT1 Aquavit  
NT1 Arak  
NT1 Awamori  
NT1 Brandies  
NT2 Armagnac  
NT2 Brandy  
NT2 Cognac  
NT2 Eau de vie  
NT2 Fruit brandies  
NT3 Apple brandy  
NT4 Calvados  
NT3 Kirsch  
NT3 Rakia  
NT3 Slivovitz  
NT2 Grappa  
NT2 Pisco  
NT1 Distillates  
NT2 Wine distillates  
NT1 Gin  
NT1 Grape spirits  
NT1 Lambanog  
NT1 Mezcal  
NT1 Ouzo  
NT1 Raki  
NT1 Rum  
NT1 Schnapps  
NT1 Shochu  
NT1 Sugar cane spirits  
NT2 Cachaca  
NT1 Tequila  
NT1 Vodka  
NT1 Whiskies  
NT2 Whiskey  
NT3 Bourbon whiskey  
NT2 Whisky  
NT3 Scotch whisky  
RT Liqueurs  
UF Grain alcohols

# Database comparisons - Sausages

## Thesaurus hierarchies

- FSTA – ‘Sausages’ with 53 NTs
- CABI – ‘Sausages’ with 1 NT (Hot dogs) and ‘Salami’
- MESH – ‘Meat products’

## Results

- FSTA – 13,522
- CAB Abstracts – 5,291
- PubMed – 4,313
- Scopus – 2,113
- SCI/CPCI on WoS – 8,612

## Conclusions

- FSTA found a significantly higher number of results
- The subject specificity of both FSTA and the FSTA thesaurus means that retrieval of results is accurate

**Sausages**  
HN use for meat sausages only from vol.  
25 (1993)  
BT1 Meat products  
BT2 Animal foods  
BT3 Foods  
NT1 Ambaritsa  
NT1 Androlla  
NT1 Beef sausages  
NT1 Bierschinken  
NT1 Bierwurst  
NT1 Blood sausages  
NT2 Black puddings  
NT1 Bockwurst  
NT1 Boiled sausages  
NT1 Bologna  
NT1 Bratwurst  
NT1 Bruehwurst  
NT1 Capocollo  
NT1 Cervelat  
NT1 Chicken sausages  
NT1 Chinese sausages  
NT1 Chistorra  
NT1 Chorizo  
NT1 Coppas  
NT1 Corn dogs  
NT1 Dry sausages  
NT1 Fermented sausages  
NT1 Fleischwurst  
NT1 Frankfurters  
NT2 Hot dogs  
NT2 Turkey frankfurters  
NT2 Wieners  
NT1 Knackwurst  
NT1 Kochwurst  
NT1 Lamb sausages  
NT1 Liver sausages  
NT1 Longaniza  
NT1 Loukanka  
NT1 Merguez  
NT1 Mettwurst  
NT1 Mortadella  
NT1 Mutton sausages  
NT1 Pepperoni  
NT1 Pork sausages  
NT1 Poultry sausages  
NT1 Rohwurst  
NT1 Salami  
NT1 Salchichon  
NT1 Saucisson  
NT1 Sausage emulsions  
NT1 Sausage meat  
NT1 Soudjouk  
NT1 Sucuk  
NT1 Summer sausages  
NT1 Turkey sausages  
NT1 Vienna sausages  
NT1 Weisswurst  
NT1 Wuerstel  
RT Sausage casings

# Current FSTA® customers



THE UNIVERSITY OF  
MELBOURNE



**NUS**  
National University  
of Singapore



NEW YORK UNIVERSITY



**McGill**



University of  
**Reading**

**UC DAVIS**  
UNIVERSITY OF CALIFORNIA

# Summary

- FSTA® is the **essential information resource** for the sciences of food and health
- Every record is indexed using **the most comprehensive food thesaurus** in the world, enabling researchers to **find highly relevant results efficiently**, saving valuable time
- Every record is carefully selected for its relevance to food, beverages and nutrition, facilitating **easy and precise interdisciplinary research**
- FSTA® is renowned for its **high quality and scientific integrity** – this is maintained by our team of expert scientists