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臺大圖書館學科服務組  
2014年8月14日

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# PUBMED 簡介

- ✘ PubMed為美國國家醫學圖書館的美國國家生物技術資訊中心 (National Center for Biotechnology Information, 簡稱NCBI) 所研發生物醫學相關文獻的Web-based 檢索系統。
- ✘ 以收錄生命科學相關文獻為主，並收錄資訊科學、航太科學等其他學科文獻，收錄年代自1950年起。
- ✘ 提供部分免費及付費全文連結服務，並包含即將出版的醫學文獻。
- ✘ **LinkOut本館電子全文功能**：檢索結果出現醫圖logo，代表本院有訂購全文，點選該logo即可linkout連結至全文；院外連線亦可。

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- + 基本檢索
- + 醫學標題表
- + 進階檢索
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- + 檢索結果分類群組(filter)

## ✘ 檢索結果

- + 顯示內容
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  - + 儲存結果
- ## ✘ 個人化服務(My NCBI)

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---

- × 1. 作者檢索
- × 2. 刊名檢索
- × 3. 單篇文章檢索(Single Citation Matcher)
- × 4. 關鍵詞(keywords)或標題(subject)檢索

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## ✘ 輸入型式：

+ last name(姓) 空格 initials(名字的首字縮寫)，不用標點符號。

+ 例如：呂廷璋教授：Lu TJ

## ✘ 多位作者：Yang LC Hsieh CC 或

Yang LC **AND** Hsieh CC

## ✘ 若作者名稱是標題詞彙或一般詞彙，可在作者名稱後面加[au]，以獲得更精確結果

+ 例如：Brain[au]



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10 years  
Custom range...**Species**Humans  
Other Animals[Clear all](#)[Show additional filters](#)**Results: 1 to 20 of 95**

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- [Characterization and immunomodulatory activity of polysaccharides derived from \*Dendrobium tosaense\*.](#)  
1. Yang LC, **Lu TJ**, Hsieh CC, Lin WC.  
Carbohydr Polym. 2014 Oct 13;111:856-63. doi: 10.1016/j.carbpol.2014.05.007. Epub 2014 May 14.  
PMID: 25037425 [PubMed - in process]  
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- [In vitro spatially organizing the differentiation in individual multicellular stem cell aggregates.](#)  
2. Qi H, Huang G, Han YL, Lin W, Li X, Wang S, **Lu TJ**, Xu F.  
Crit Rev Biotechnol. 2014 Jul 15:1-12. [Epub ahead of print]  
PMID: 25025275 [PubMed - as supplied by publisher]  
[Related citations](#)
- [A 3-D elasticity theory based model for acoustic radiation from multilayered anisotropic plates.](#)  
3. Shen C, Xin FX, **Lu TJ**.  
J Acoust Soc Am. 2014 May;135(5):EL232-8. doi: 10.1121/1.4871579.  
PMID: 24815294 [PubMed - in process]  
[Related citations](#)
- [Nano-optical conveyor belt, part II: Demonstration of handoff between near-field optical traps.](#)  
4. Zheng Y, Ryan J, Hansen P, Cheng YT, **Lu TJ**, Hesselink L.  
Nano Lett. 2014 Jun 11;14(6):2971-6. doi: 10.1021/nl404045n. Epub 2014 May 9.  
PMID: 24807058 [PubMed - in process]  
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- [BioPen: direct writing of functional materials at the point of care.](#)  
5. Han YL, Hu J, Gong GM, **Lu TJ**, Xu F.

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8

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## Results: 2

- [Characterization and immunomodulatory activity of polysaccharides derived from \*Dendrobium tosaense\*.](#)  
1. **Yang LC, Lu TJ, Hsieh CC, Lin WC.**  
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PMID: 25037425 [PubMed - in process]  
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- [Structurally characterized arabinogalactan from \*Anoectochilus formosanus\* as an immunomodulator against CT26 colon cancer in BALB/c mice.](#)  
2. **Yang LC, Hsieh CC, Lu TJ, Lin WC.**  
Phytomedicine. 2014 Apr 15;21(5):647-55. doi: 10.1016/j.phymed.2013.10.032. Epub 2013 Dec 4.  
PMID: 24315348 [PubMed - in process]  
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# 作者檢索-作者名稱後面加[AU]

The image shows a screenshot of the PubMed website search results for the query "Brain[au]". The search bar at the top is highlighted with a red box. The search results are displayed in a list format, with the first result being a review article. Two callout boxes are present: one labeled "檢索細節" (Search details) pointing to the "Search details" panel on the right, and another labeled "檢索歷史" (Search history) pointing to the "Recent Activity" panel on the right. The "Search details" panel shows the search query "Brain[au]" and a "Search" button. The "Recent Activity" panel shows a search history entry for "Brain[au] (1623)".

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- Full text

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- 5 years

Results: 1 to 20 of 1623

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1. [International Society of Geriatric Oncology Consensus on Geriatric Assessment in Older Patients With Cancer.](#)

Wildiers H, Heeren P, Puts M, Topinkova E, Janssen-Heijnen ML, Extermann M, Falandry C, Artz A, **Brain** E, Colloca G, Flamaing J, Karnakis T, Kenis C, Audisio RA, Mohile S, Repetto L, Van Leeuwen B, Milisen K, Hurria A.

J Clin Oncol. 2014 Jul 28. pii: JCO.2013.54.8347. [Epub ahead of print] Review.

PMID: 25071125 [PubMed - as supplied by publisher]

[Related citations](#)

4. [Nonadherence with antipsychotic medication in schizophrenia: strategies.](#)

Haddad PM, **Brain** C, Scott J.

Patient Relat Outcome Meas. 2014 Jun 23;5:43-62. doi: 10.2147/PROM.S42735. eCollection 2014. Review.

PMID: 25061342 [PubMed] [Free PMC Article](#)

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5. [Single-chain factor XII exhibits activity when complexed to polyphosphate.](#)

Engel R, **Brain** CM, Paget J, Lionikiene AS, Mutch NJ.

J Thromb Haemost. 2014 Jul 14. doi: 10.1111/jth.12663. [Epub ahead of print] Review.

PMID: 25039405 [PubMed - as supplied by publisher]

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6. [Antiproliferative Effects of CDK4/6 Inhibition in CDK4-amplified Human Liposarcoma in vitro and in vivo.](#)

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Brain[au]

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- ✘ 查詢某一份期刊出版的文獻
- ✘ 輸入型式：期刊的全名、縮寫或是ISSN
  - + 全名： **Carbohydrate polymers**
  - + 縮寫： **Carbohydr Polym**
  - + ISSN： 0144-8617
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("carbohydrate"[All Fields] AND  
"polymers"[All Fields]) OR  
"carbohydrate polymers"[All Fields]

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Results: 1

Isolation of a novel *Carbohydr Polym*

1. Le Non  
*Carbohydr Polym*. 2014 Oct 13;111:971-8. doi: 10.1016/j.carbpol.2014.05.012. Epub 2014 May 13.  
PMID: 25037438 [PubMed - in process]  
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Facile size-regulated synthesis of silver nanoparticles on cellulose

2. Zahran MK, Ahmed HB, El-Rafie MH.  
*Carbohydr Polym*. 2014 Oct 13;111:971-8. doi: 10.1016/j.carbpol.2014.05.012. Epub 2014 May 13.  
PMID: 25037438 [PubMed - in process]  
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pH/redox responsive core cross-linked nanoparticles from thiolated carboxymethyl chitosan for in vitro release study of methotrexate.

3. Gao C, Liu T, Dang Y, Yu Z, Wang W, Guo J, Zhang X, He G, Zheng H, Yin Y, Kong X.  
*Carbohydr Polym*. 2014 Oct 13;111:964-70. doi: 10.1016/j.carbpol.2014.05.012. Epub 2014 May 13.  
PMID: 25037437 [PubMed - in process]  
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Influence of HNO3/H3PO4-NANO2 mediated oxidation on the structure and properties of cellulose fibers.

4. Xu Y, Liu X, Liu X, Tan J, Zhu H.  
*Carbohydr Polym*. 2014 Oct 13;111:955-63. doi: 10.1016/j.carbpol.2014.05.029. Epub 2014 May 23.  
PMID: 25037436 [PubMed - in process]  
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Purification and antioxidant activities of intracellular zinc polysaccharides from *Pleurotus cornucopiae* SS-03.

5. Zhang J, Ma Z, Zheng L, Zhai G, Wang L, Jia M, Jia L.  
*Carbohydr Polym*. 2014 Oct 13;111:947-54. doi: 10.1016/j.carbpol.2014.04.074. Epub 2014 May 29.  
PMID: 25037435 [PubMed - in process]  
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Influence of culture medium growth variables on *Ganoderma lucidum* exopolysaccharides structural features.

6. Fereshteh A, Gholami F, Rezaei M, Dini M, Mousavi S, Nasser F, ...

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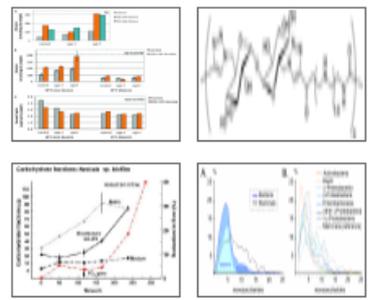
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PMC Images search for carbohydrate polymers



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Titles with your search terms

- Composition, properties and health benefits of indigestible carbohydrate [Int J Biol Macromol. 2013]
- Comparative analysis of crystallinity changes in cellulose I polymers [Biomacromolecules. 2011]
- Detection of bacteria with carbohydrate-functionalized [J Am Chem Soc. 2004]

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[Synthetic Enantiopure Carbohydrate Polymers that are Highly Soluble in Water and Noncytotoxic.](#)

1. Dane EL, Chin SL, Grinstaff MW.  
ACS Macro Lett. 2013 Oct 15;2(10):887-890.  
PMID: 24575361 [PubMed]  
[Related citations](#)

[Multi-Functionalization of Polymers by Strain-Promoted Cycloadditions.](#)

2. Ledin PA, Kolishetti N, Boons GJ.  
Macromolecules. 2013 Oct 8;46(19):7759-7768.  
PMID: 24511157 [PubMed]  
[Related citations](#)

[Complete genome sequence of Granulicella mallensis type strain MP5ACTX8\(T\), an acidobacterium from tundra soil.](#)

3. Rawat SR, Männistö MK, Starovoytov V, Goodwin L, Nolan M, Hauser LJ, Land M, Davenport KW, Woyke T, Häggblom MM.  
Stand Genomic Sci. 2013 Sep 30;9(1):71-82. doi: 10.4056/signs.4328031. eCollection 2013 Oct 16.  
PMID: 24501646 [PubMed] [Free PMC Article](#)  
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[Dynamics of intracellular polymers in enhanced biological phosphorus removal processes under different organic carbon concentrations.](#)

4. Xing L, Ren L, Tang B, Wu G, Guan Y.  
Biomed Res Int. 2013;2013:761082. doi: 10.1155/2013/761082. Epub 2013 Dec 4.  
PMID: 24381942 [PubMed - indexed for MEDLINE] [Free PMC Article](#)  
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[The fungal symbiont of Acromyrmex leaf-cutting ants expresses the full spectrum of genes to degrade cellulose and other plant cell wall polysaccharides.](#)

5. Grell MN, Linde T, Nygaard S, Nielsen KL, Boomsma JJ, Lange J

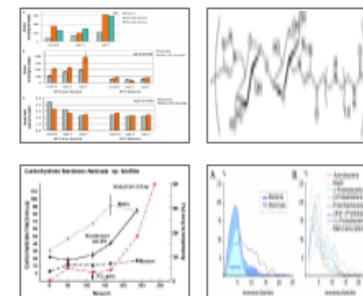
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### Carbohydrate polymers

★ **NLM Title Abbreviation:** Carbohydr Polym  
**ISO Abbreviation:** Carbohydr Polym  
**Title(s):** Carbohydrate polymers.

**Publication Start Year:** 1981

★ **Frequency:** Quarterly

**Country of Publication:** England

**Publisher:** London [Eng.] : Applied Science Publishers, c1981-

**Latest Publisher:** <1992-> : Barking : Elsevier Applied Science Publishers

**Description:** v. : ill.

**Language:** English

**Other Languages:** English(Summary)

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 1879-1344 (Electronic)  
 0144-8617 (Linking)

**Acid-Free:** No

**Coden:** CAPOD8

**LCCN:** 82641511  
 sn 82000495

**Electronic Links:** <http://www.sciencedirect.com/science/journal/01448617>

**In:** PubMed: v89n1, June 5 2012-; selected citations only before this date

**Selectively In:** Index medicus v89n1, June 5 2012-  
 MEDLINE v89n1, June 5 2012-

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 2. Zahran MK, Ahmed HB, El-Rafie MH.  
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 3. Gao C, Liu T, Dang Y, Yu Z, Wang W, Guo J, Zhang X, He G, Zheng H, Yin Y, Kong X.  
**Carbohydr Polym.** 2014 Oct 13;111:964-70. doi: 10.1016/j.carbpol.2014.05.012. Epub 2014 May 13.  
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 4. Xu Y, Liu X, Liu X, Tan J, Zhu H.  
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 5. Zhang J, Ma Z, Zheng L, Zhai G, Wang L, Jia M, Jia L.  
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**Characterization of an aqueous extract and indigestible polysaccharide from Anoectochilus formosanus.**

**Characterization of an aqueous extract and indigestible polysaccharide from Anoectochilus formosanus.**

Yang LC<sup>1</sup>, Lin WC.

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**Abstract**

*Anoectochilus formosanus* (Orchidaceae) is a folk medicine in Asia. This study investigated the in vivo and in vitro prebiotic effects of an aqueous extract of *A. formosanus* (SAEAF) and of an indigestible polysaccharide (AFP) isolated from SAEAF. Chemical analyses showed AFP was mainly composed of arabinogalactan type II (AG-II), with an average molecular weight of 29 kDa. Following 4 weeks of oral administration to rats, SAEAF exhibited prebiotic effects including a decrease in cecum pH and increases of calcium absorption and fecal bifidobacteria. Furthermore, through a bioactivity-guided separation strategy, AFP was proven to be a bifidogenic component in vitro fecal strains fermentation and in vivo administration to mice. In RT-PCR analysis of *Bifidobacterium*, AFP increased the expression of ABC transporter related to nutrient uptake. Thus, AFP, a polysaccharide from *A. formosanus*, was demonstrated to be a prebiotic that has a positive health effect on gut microbiota.

PMID: 22793881 [PubMed - indexed for MEDLINE]



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2. Ching-Shu Lai, Shiming Li, Yutaka Miyauchi, Michiko Suzawa, Chi-Tang Ho and Min-Hsiung Pan\*. Potent anti-cancer effects of citrus peel flavonoids in human prostate xenograft tumors. *Food & Function*. 2013, 4 (6), 944 - 949.
3. ~~Pan, Min-Hsiung\*, Lai, Ching-Shu, Wang, Hong, Lo, Chih-Yu, Ho, Chi-Tang, Li, Shiming.~~ Black tea in chemoprevention of cancer and other human diseases. *Food Science and Human Wellness*, 2013, 2, 13-22.
4. Yi-Shiou Chiou, Shengmin Sang, Chi-Tang Ho, Ying-Jan Wang\* and Min-Hsiung Pan\*. Peracetylated (-)-epigallocatechin-3-gallate (AcEGCG) potently prevents skin carcinogenesis by suppressing the PKD1-dependent signaling pathway in CD34+ skin stem cells and skin tumors. *Carcinogenesis*. 2013. PMID: 23385063 [PubMed - as supplied by publisher] (SCI IF= 5.702. rank: 23/194=11.86% in ONCOLOGY, JCR 2011).(Corresponding author)
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6. Ming-Fen Lee, Min-Lung Liu, An-Chin Cheng, Mei-Ling Tsai, Chi-Tang Ho, Wen-Shiung Liou, Min-Hsiung Pan\*. Pterostilbene inhibits dimethylnitrosamine -induced liver fibrosis in rats. *Food Chemistry*. 2013, 138, 802-807 (SCI IF= 3.655. rank: 3/71=4.23% in CHEMISTRY, APPLIED, JCR 2011). (Corresponding author)
7. Ming-Fen Lee, Mei-Ling Tsai, Pei-Pei Sun, Ling-Lung Chien, An-Chin Cheng, Nianhan Jia-Lin Ma, Chi-Tang Ho, Min-Hsiung Pan\*. Phyto-power dietary supplement potently inhibits dimethylnitrosamine-induced liver fibrosis in rats. *Food & Function*. 2012. 4 (3):470-5. (SCI IF= 1.179. rank: 64/128=50% in Food Science & technology, JCR 2011).



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**Potent anti-cancer effects of citrus peel flavonoids in human prostate xenograft tumors.**Lai CS<sup>1</sup>, Li S, Miyauchi Y, Suzawa M, Ho CT, Pan MH.

## + Author information

**Abstract**

Prostate cancer is one of the most prevalent malignancies and is the second leading cause of cancer-related deaths in men. Fruit and vegetable consumption is a novel, non-toxic therapeutic approach that can be used to prevent and treat prostate cancer. Citrus peels and their extracts have been reported to have potent pharmacological activities and health benefits due to the abundance of flavonoids in citrus fruits, particularly in the peels. Our previous studies demonstrated that oral administration of Gold Lotion (GL), an extract of multiple varieties of citrus peels containing abundant flavonoids, including a large percentage of polymethoxyflavones (PMFs), effectively suppressed azoxymethane (AOM)-induced colonic tumorigenesis. However, the efficacy of GL against prostate cancer has not yet been investigated. Here, we explored the anti-tumor effects of GL using a human prostate tumor xenograft mouse model. Our data demonstrated that treatment with GL by both intraperitoneal (i.p.) injection and oral administration dramatically reduced both the weights (57%-100% inhibition) and volumes (78%-94% inhibition) of the tumors without any observed toxicity. These inhibitory effects were accompanied by mechanistic down-regulation of the protein levels of inflammatory enzymes (inducible nitric oxide synthase, iNOS and cyclooxygenase-2, COX-2), metastasis (matrix metalloproteinase-2, MMP-2 and MMP-9), angiogenesis (vascular endothelial growth factor, VEGF), and proliferative molecules, as well as by the induction of apoptosis in prostate tumors. Our findings suggest that GL is an effective anti-cancer agent that may potentially serve as a novel therapeutic option for prostate cancer treatment.

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1. [No authors listed]  
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PMID: 25080575 [PubMed - as supplied by publisher]
- [Developing Interventions for Cancer-Related Cognitive Dysfunction in Childhood Cancer Survivors.](#)  
2. Castellino SM, Ullrich NJ, Whelen MJ, Lange BJ.  
J Natl Cancer Inst. 2014 Jul 30;106(8). pii: dju186. Print 2014 Aug. Review.  
PMID: 25080574 [PubMed - as supplied by publisher]
- [Does adding an appended oncology module to the Global Trigger Tool increase its value?](#)  
3. Mattsson TO, Knudsen JL, Brixen K, Herrstedt J.  
Int J Qual Health Care. 2014 Jul 30. pii: mzu072. [Epub ahead of print]  
PMID: 25080549 [PubMed - as supplied by publisher]
- [ACUTE HEPATIC ISCHEMIC- REPERFUSION INJURY INDUCES A RENAL CORTICAL 'STRESS RESPONSE', RENAL 'CYTORESISTANCE' AND AN ENDOTOXIN HYPER-RESPONSIVE STATE.](#)  
4. Zager RA, Johnson AC, Frostad KB.  
Am J Physiol Renal Physiol. 2014 Jul 30. pii: ajprenal.00378.2014. [Epub ahead of print]  
PMID: 25080526 [PubMed - as supplied by publisher]
- [Five-year Relative Survival Rate of Bladder Cancer in the USA, Europe and Japan.](#)  
5. Matsuda T, Hori M.  
Jpn J Clin Oncol. 2014 Aug;44(8):776. No abstract available.  
PMID: 25080514 [PubMed - as supplied by publisher]
- [Coping with colorectal cancer: a qualitative exploration with patients and their family members.](#)  
6. Asiedu GB, Eustace RW, Eton DT, Radecki Breitkopf C.  
Fam Pract. 2014 Jul 30. pii: cmu040. [Epub ahead of print]  
PMID: 25080507 [PubMed - as supplied by publisher]
- [Mutant cohesin drives chromosomal instability in early colorectal adenomas.](#)  
7. Cucco F, Servadio A, Gatti V, Bianchi P, Mannini L, Prodosmo A, De Vitis E, Basso G, Friuli A, Laghi L, Soddù S, Fontanini G, Musio A.  
Hum Mol Genet. 2014 Jul 30. pii: ddu394. [Epub ahead of print]

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Meta-analysis of genome-wide association studies identifies two loci associated with circulating osteoprotegerin levels. Kwan JS, Hsu YH, Cheung CL, Dupuis J, Saint-Pierre A, Eriksson J, Handelman SK, Aragaki A, Karasik D, Pramstaller PP, Kooperberg C, LaCroix AZ, Larson MG, Lau KS, Lorentzon M, Pichler I, Sham PC, Taliun D, Vandenput L, Kiel DP, Hicks AA, Jackson RD, Ohlsson C, Benjamin EJ, Kung AW. Hum Mol Genet. 2014 Jul 30. pii: ddu386. [Epub ahead of print] PMID: 25080503 [PubMed - as supplied by publisher]
Nanoparticle-Mediated Combinatorial Targeting of Multiple Human Dendritic Cell (DC) Subsets Leads to Enhanced T Cell Activation via IL-15-Dependent DC Crosstalk. Sehgal K, Raghet J Immunol. 2014 Jul PMID: 25080481 [PubMed - as supplied by publisher]
Hematogenous dissemination of tumor cells. Müller C, Holtsch Gasch C, Stoupie K, Riethdorf S. Sci Transl Med. 2014 Jul PMID: 25080476 [PubMed - as supplied by publisher]
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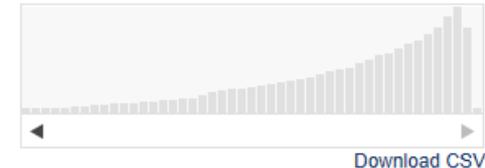
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- ✘ 對同一概念採用固定的詞彙表達方式，以達到控制詞彙目的，方便生物醫學領域的學者或從業人員彼此間的溝通，更可用以陳述資料內容的主題意涵並提供檢索。

# MESH的樹狀結構表

- ✘ MeSH共有2萬多個標題，分為16大類，每大類採樹狀結構(tree structure)，下依層級細分小標題，可顯示標題之間的類屬關係。
- ✘ 樹狀結構標題表中可顯示每個分類的層級關係。最上層顯示者，表示該標題詞所代表的主題意涵較廣(generic)，而愈下層顯示者，則表示該標題詞所代表的主題意涵愈為專指(specific)。如此上下標題層級的呈現方式，更可比擬為各標題詞間的廣義詞(broad terms)及狹義詞(narrow terms)關係。



# FOOD MICROBIOLOGY的TREE STRUCTURE

廣義詞



狹義詞

# 書目記錄中的MESH TERMS

Int J Food Microbiol. 2014 Jul 16;182-183:1-8. doi: 10.1016/j.ijfoodmicro.2014.05.001. Epub 2014 May 9.

**Biocontrol activity of an alkaline serine protease from *Aureobasidium pullulans* expressed in *Pichia pastoris* against four postharvest pathogens on apple.**

Banani H<sup>1</sup>, Spadaro D<sup>2</sup>, Zhang D<sup>1</sup>, Matic S<sup>1</sup>, Garibaldi A<sup>1</sup>, Gullino ML<sup>3</sup>.

⊕ Author information

## MeSH Terms

Antifungal Agents/pharmacology

Ascomycota/enzymology\*

Ascomycota/genetics

Food Handling

Food Microbiology/methods\*

Hyphae/drug effects

Malus/microbiology\*

Mitosporic Fungi/drug effects\*

Pest Control, Biological/standards\*

Pichia/genetics\*

Recombinant Proteins/pharmacology

Serine Endopeptidases/metabolism

Serine Endopeptidases/pharmacology\*

Spores, Fungal/drug effects

有被MEDLINE收錄的書目資料會有MeSH terms，反應出該篇論文涉及的主題；MeSH term前面若有\*號，則為主要標題；沒有\*者為次要標題。



# PubMed

PubMed comprises more than 21 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

## Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#) 

## PubMed Tools

[PubMed Mobile](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

## More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities](#)

[LinkOut](#)



Display Settings: Full

Send to:

### Functional Food

Components of the usual diet that may provide health benefits beyond basic nutrients. Examples of functional foods include soy, nuts, chocolate, and cranberries (From NCCAM Backgrounder, March 2004, p3). Soy, for example, provides not only protein but also PHYTOESTROGENS (isoflavones), which help reduce total blood cholesterol by lowering LDL CHOLESTEROL.

Year introduced: 2010

PubMed search builder options

Subheadings:

- adverse effects
- analysis
- classification
- economics
- etiology
- history
- microbiology
- organization and administration
- pharmacology
- standards
- statistics and numerical data
- supply and distribution
- therapeutic use
- toxicity
- utilization

副標題

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.

擴大縮小檢索範圍

Tree Number(s): J02.500.525.425

Entry Terms:

- Food, Functional
- Foods, Functional
- Functional Foods

Previous Indexing:

- [Dietary Supplements \(1999-2009\)](#)
- [Food Additives \(1998-2009\)](#)
- [Food, Fortified \(1998-2009\)](#)

See Also:

- [Dietary Supplements](#)

All MeSH Categories

Technology and Food and Beverages Category

Food and Beverages

Food

Foods, Specialized

Functional Food

樹狀結構表

#### PubMed Search Builder

Empty search builder box

Add to search builder AND

Search PubMed

YouTube Tutorial

#### Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

#### Recent Activity

Turn Off Clear

Functional Food MeSH

functional food (1) MeSH

An immunomagnetic separation-real-time PCR system for the detection of Alic PubMed

Automated immunomagnetic separation for the detection of Escherichia coli O1: PubMed

Supplementation of Bolton broth with triclosan improves detection of PubMed

See more...

"functional food"[MeSH Terms] OR functional food[Text Word]

Search

## Functional Food

Components of the usual diet that may provide health benefits beyond basic nutrients. Examples of functional foods include soy, nuts, chocolate, and cranberries (From NCCAM Backgrounder, March 2004, p3). Soy, for example, provides not only protein but also PHYTOESTROGENS (isoflavones), which help reduce total blood cholesterol by lowering LDL CHOLESTEROL.

Year introduced: 2010

PubMed search builder options

Subheadings:

- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> adverse effects | <input type="checkbox"/> history                         | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> analysis                   | <input type="checkbox"/> microbiology                    | <input type="checkbox"/> supply and distribution       |
| <input type="checkbox"/> classification             | <input type="checkbox"/> organization and administration | <input type="checkbox"/> therapeutic use               |
| <input type="checkbox"/> economics                  | <input type="checkbox"/> pharmacology                    | <input type="checkbox"/> toxicity                      |
| <input type="checkbox"/> etiology                   | <input type="checkbox"/> standards                       | <input type="checkbox"/> utilization                   |

Restrict to MeSH Major Topic. **1.**

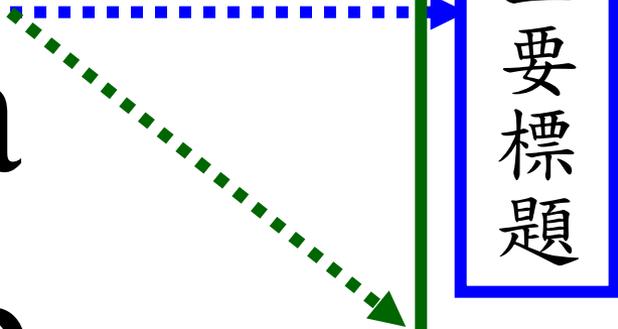
Do not include MeSH terms found below this term in the MeSH hierarchy. **2.**

檢索策略	檢索結果	說明
"Functional Food/adverse effects"[Majr] (勾1)	15	比對書目資料中MeSH Terms的 <b>主要標題</b> 是否有符合查詢條件的 <b>主題詞</b> 及其 <b>狹義詞</b>
"Functional Food/adverse effects"[Mesh:NoExp] (勾2)	31	比對書目資料中的MeSH Terms是否有符合查詢條件者
"Functional Food/adverse effects"[Mesh] (都不勾)	33	比對書目資料中MeSH Terms是否有符合查詢條件的 <b>主題詞</b> 及其 <b>狹義詞</b>
"Functional Food/adverse effects"[Majr:NoExp] (皆勾)	13	比對書目資料中MeSH Terms的 <b>主要標題</b> 是否有符合查詢條件者

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.



a  
b  
c  
d



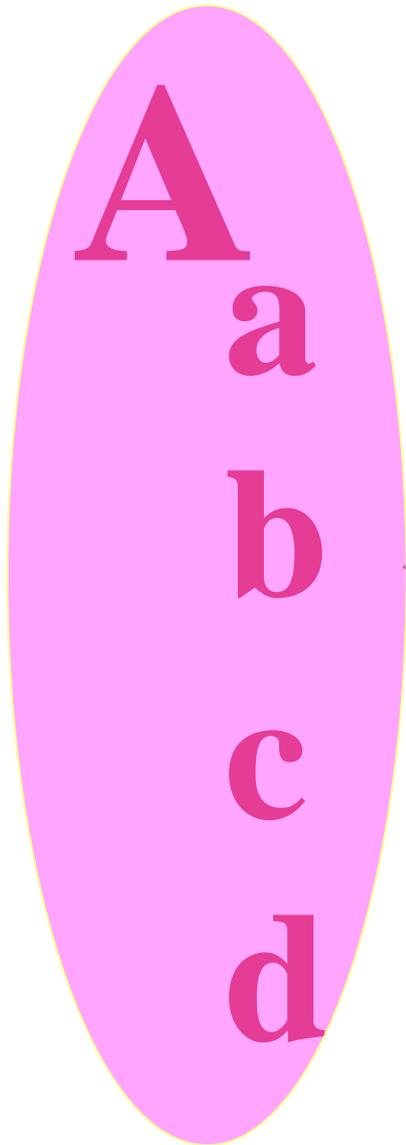
"Functional Food/adverse effects"  
[Majr:NoExp] (皆勾)

<b>13</b>	比對書目資料中MeSH Terms的 <b>主要標題</b> 是否有符合查詢條件者
-----------	---

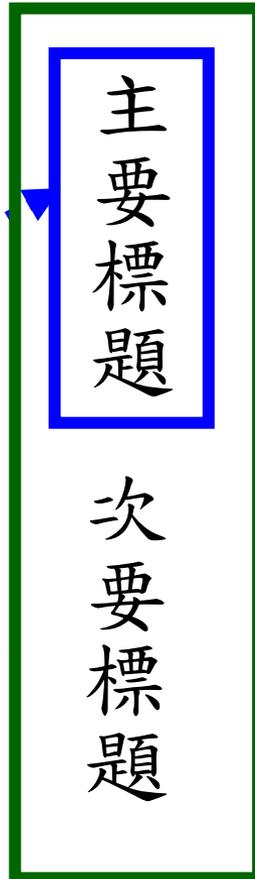
"Functional Food/adverse effects"  
[Mesh:NoExp] (勾2)

<b>31</b>	比對書目資料中的MeSH Terms是否有符合查詢條件者
-----------	------------------------------

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.



- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.



"Functional Food/adverse effects"  
[Majr] (勾1)

兼具廣度與深度的檢索策略

15	比對書目資料中MeSH Terms的 <b>主要標題</b> 是否有符合查詢條件的 <b>主題詞</b> 及其 <b>狹義詞</b>
----	--

"Functional Food/adverse effects"  
[Mesh] (都不勾)

33	比對書目資料中MeSH Terms是否有符合查詢條件的 <b>主題詞</b> 及其 <b>狹義詞</b>
----	--

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.

# 以MESH功能進行檢索的優點

- ✘ 可以協助使用者找出精確符合主題的資料
- ✘ 無須煩惱因縮寫、別名而遺漏相關資料
- ✘ 使用同義詞也可準確查詢出相關資料
- ✘ 使用MeSH Tree
  - + 可依需求擴展或縮小查詢範圍
  - + 可瞭解醫學主題詞之間的關聯

# 進階檢索 & 歷史檢索

點選“Advanced” 進入

# 進階檢索

PubMed "Functional Food/adverse effects"[Mesh]



Search



RSS

Save search

Advanced

Help

Show additional filters

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

Filters: Manage Filters

## Article types

Clinical Trial  
Review  
More ...

## Text availability

Abstract  
Free full text  
Full text

## Publication dates

5 years  
10 years  
Custom range...

## Species

Humans  
Other Animals

Clear all

Show additional filters

Results: 1 to 20 of 33

<< First < Prev Page 1 of 2 Next > Last >>

[Cooked navy and black bean diets improve biomarkers of colon health and reduce inflammation during colitis.](#)

Zhang C, Monk JM, Lu JT, Zarepoor L, Wu W, Liu R, Pauls KP, Wood GA, Robinson L, Tsao R, Power KA.  
Br J Nutr. 2014 May;111(9):1549-63. doi: 10.1017/S0007114513004352. Epub 2014 Feb 13.  
PMID: 24521520 [PubMed - indexed for MEDLINE]  
[Related citations](#)

[Comparison of cytotoxic extracts from fruiting bodies, infected insects and cultured mycelia of Cordyceps formosana.](#)

Lu RL, Bao GH, Hu FL, Huang B, Li CR, Li ZZ.  
Food Chem. 2014 Feb 15;145:1066-71. doi: 10.1016/j.foodchem.2013.09.001. Epub 2013 Sep 13.  
PMID: 24128585 [PubMed - indexed for MEDLINE]  
[Related citations](#)

[Occurrence of selected perfluorinated alkyl acids in lunch meals served at school canteens in Italy and their relevance for children's intake.](#)

Dellatte E, Brambilla G, De Filippis SP, di Domenico A, Pulkrabova J, Eschauzier C, Klenow S, Heinemeyer G, de Voogt P.  
Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2013;30(9):1590-7. doi: 10.1080/19440049.2013.813648. Epub 2013 Jul 16.  
PMID: 23859821 [PubMed - indexed for MEDLINE]  
[Related citations](#)

[Chocolate: delicious beauty or harmful beast?](#)

4. Stebbing J, Gajapathy V, Lowdell C.

## New feature

Try the new Display Settings option - Sort by Relevance

## Titles with your search terms

Healthy and adverse effects of plant-derived functional metabo [Crit Rev Food Sci Nutr. 2013]  
[See more...](#)

## Find related data

Database: Select

Find items

## Search details

"Functional Food/adverse effects" [Mesh]

Search

[See more...](#)

# PubMed Advanced Search Builder



Use the builder below to create your search

[Edit](#)

[Clear](#)

## Builder

Search

AND

- All Fields
- Affiliation
- All Fields
- Author
- Author - Corporate
- Author - First
- Author - Full
- Author - Last
- Book
- Date - Completion
- Date - Create
- Date - Entrez
- Date - MeSH
- Date - Modification
- Date - Publication
- EC/RN Number
- Editor
- Filter
- Grant Number
- ISBN
- Investigator

Show index list

Show index list

(ginsenoside) AND taiwan[Affiliation]

[Edit](#)

## Builder

	All Fields	ginsenoside	-	<a href="#">Show index list</a>
AND	Affiliation	taiwan	-	<a href="#">Show index list</a>
AND	All Fields		- +	<a href="#">Show index list</a>

Search

or [Add to history](#)[Show additional filters](#)[Display Settings:](#)  Summary, 20 per page, Sorted by Recently Added[Send to:](#)  [Filters:](#) [Man](#)

## Article types

More ...

## Text availability

Abstract

Free full text

Full text

## Publication dates

5 years

10 years

Custom range...

## Species

Humans

Other Animals

[Clear all](#)[Show additional filters](#)

## Results: 1 to 20 of 39

&lt;&lt; First &lt; Prev Page 1 of 2 Next &gt; Last &gt;&gt;

- [Treatment of stress urinary incontinence by ginsenoside rh2.](#)
1. Chen YH, Lin YN, Chen WC, Hsieh WT, Chen HY.  
Am J Chin Med. 2014;42(4):817-31. doi: 10.1142/S0192415X14500529.  
PMID: 25004877 [PubMed - in process]  
[Related citations](#)
- [A well-refined in vitro model derived from human embryonic stem cell for screening phytochemicals with midbrain dopaminergic differentiation-boosting potential for improving Parkinson's disease.](#)
2. Hsieh WT, Chiang BH.  
J Agric Food Chem. 2014 Jul 9;62(27):6326-36. doi: 10.1021/jf501640a. Epub 2014 Jun 30.  
PMID: 24933592 [PubMed - in process]  
[Related citations](#)
- [Bioconversion of ginsenosides in the american ginseng \( xī yáng shēn\) extraction residue by fermentation with lingzhi \( líng zhī, ganoderma lucidum\).](#)
3. Yang Hsu B, Hui Chen C, Jang Lu T, Sun Hwang J

# 歷史檢索(Search History)

- 每次檢索，系統都會產生一個檢索號碼，本區可看到所有檢索步驟的歷史紀錄。
- 如要運用先前的檢索策略，可直接輸入檢索號碼，並運用布林邏輯加以運算。

例如：**#2 AND #6**

- 若超過8小時未使用PubMed，系統會自動消除歷史紀錄。

PubMed (bioconversion) AND taiwan[Affiliation]

RSS Save search **Advanced**

[Show additional filters](#)

[Display Settings](#)

Sorted

[Send to:](#)

Article types

Clinical Trial

Review

More ...

Text availability

Abstract

Results: 1 to 20 of 29

<< First < Prev Page 1 of 2 Next > Last >>

[Immobilization of Clostridium cellulolyticum d-Psicose 3-Epimerase on Artificial Oil Bodies.](#)

1. Tseng CW, Liao CY, Sun Y, Peng CC, Tzen JT, Guo RT, Liu JR.

J Agric Food Chem. 2014 Jul 16;62(28):6771-6. doi: 10.1021/jf502022w. Epub 2014 Jul 8.

(((ginsenoside) AND taiwan[Affiliation])) OR ((Tea saponin) AND taiwan[Affiliation])

[Edit](#)

Builder

All Fields

(ginsenoside) AND taiwan[Affiliation]



[Show index list](#)

OR

All Fields

(Tea saponin) AND taiwan[Affiliation]



[Show index list](#)

AND

All Fields



[Show index list](#)

Search or [Add to history](#)

History

[Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
#8	<a href="#">Add</a>	Search (bioconversion) AND taiwan[Affiliation]	29	04:25:18
#7	<a href="#">Add</a>	Search (ginsenoside) AND taiwan[Affiliation]	39	04:21:21
#6	<a href="#">Add</a>	Search (Tea saponin) AND taiwan[Affiliation]	3	04:21:05

方法1：直接點選Add

PubMed Advanced Search Builder

方法2：自行輸入



#6 or #7

[Cancel](#)

[Clear](#)

or [Add to history](#)

History

[Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
<a href="#">#8</a>	<a href="#">Add</a>	Search (bioconversion) AND taiwan[Affiliation]	<a href="#">29</a>	04:25:18
<a href="#">#7</a>	<a href="#">Add</a>	Search (ginsenoside) AND taiwan[Affiliation]	<a href="#">39</a>	04:21:21
<a href="#">#6</a>	<a href="#">Add</a>	Search (Tea saponin) AND taiwan[Affiliation]	<a href="#">3</a>	04:21:05

# 檢索結果分類群組(FILTERS)

✘ 使用者可根據下列條件將檢索結果進行分類群組，以便得到最符合需求的文獻：

- 全文取得(Text availability)
- 出版日期(Publication dates)
- 研究對象(Species)
- 文獻類型(Article types)
- 語文(Languages)
- 研究性別(Sex)
- 主題分類(Subjects)
- 期刊分類(Journal categories)
- 研究對象的年齡(Ages)
- 查詢特定欄位(Search fields)

PubMed "Tea saponin" or ginsenoside

RSS Save search Advanced

Show additional filters

- Article types
  - Clinical Trial
  - Review
  - More ...
- Text availability
  - Abstract
  - Free full text
  - Full text
- Publication dates
  - 5 years
  - 10 years
  - Custom range...
- Species
  - Humans
  - Other Animals

**Additional filters**

- Article types
- Text availability
- PubMed Commons
- Publication dates
- Species
- Languages
- Sex
- Subjects
- Journal categories
- Ages
- Search fields

**Show**



Clear all  
Show additional filters

- Stereoselective Skin Anti-Photoaging Properties of Ginsenoside Rg1 in Keratinocytes.  
Lim CJ, Choi WY, Jung HJ. Biol Pharm Bull. 2014 Jul 24. [Epub ahead of print] PMID: 25056231 [PubMed - as supplied by publisher] [Related citations](#)
- Non-antibiotic agent ginsenoside 20(S)-Rh2 inhibits NorA-mediated DNA gyrase activity in vitro and in vivo as a potential NorA inhibitor.  
Zhang J, Sun Y, Wang Y, Lu M, He J, Liu J, Cao HJ, Li J, Zhang J, Li J. Eur J Pharmacol. 2014 Jul 20. pii: S0014-2999(14)00182-2. PMID: 25054686 [PubMed - as supplied by publisher] [Related citations](#)
- Effect of ginsenoside Rh2 on the migratory capacity and inhibiting activator protein-1

Article types  
Clinical Trial  
Review  
More ...

Text availability  
Abstract  
Free full text  
Full text

PubMed Commons  
Reader comments

Publication dates  
5 years  
10 years  
Custom range...

Species  
Humans  
Other Animals

Subjects  
AIDS  
Cancer  
Systematic Reviews  
More ...

Journal categories  
Core clinical journals  
Dental journals  
MEDLINE  
Nursing journals

Ages  
Child: birth-18 years  
Infant: birth-23 months  
Adult: 19+ years  
Adult: 19-44 years  
Aged: 65+ years  
More ...

Search fields  
Choose ...  
Languages  
English  
More ...

Sex  
Female  
Male

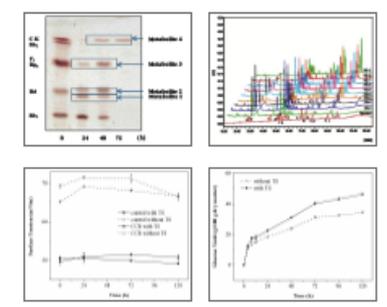
Clear all  
Show additional filters

Sign in to NCBI

Help



PMC Images search for "Tea saponin" or ginsenoside



See more (949)...

Titles with your search terms

Ginsenoside Rd attenuates myocardial ischemia/reperfusion injury via ... [PLoS One. 2013]  
Antidepressant-like effects of ginsenoside Rg1 are due to activation of the ... [Br J Pharmacol. 2012]  
Effects of ginseng rhizome and ginsenoside Ro on testosterone 5α-reductase ... [Phytother Res. 2012]

# 檢索結果

1. 顯示格式(**Display Formats**)
  2. 書目資料(**Citation Summary**)
  3. 書目狀態(**Citation Status**)
-

Show additional filters

**Display Settings:** Summary, 20 per page, Sorted by Recently Added

Send to: Filters: Manage Filters

Article types

- Clinical Trial
- Review
- More ...

Text availability

- Abstract
- Free full text
- Full text

PubMed Commons

Reader comments

Publication dates

- 5 years
- 10 years
- Custom range...

Species

- Humans
- Other Animals

Subjects

- AIDS
- Cancer
- Systematic Reviews
- More ...

Journal categories

- Core clinical journals
- Dental journals
- MEDLINE
- Nursing journals

Ages

- Child: birth-18 years
- Infant: birth-23 months
- Adult: 19+ years
- Adult: 19-44 years
- Aged: 65+ years
- More ...

Format	Items per page	Sort by
<input checked="" type="radio"/> Summary	<input type="radio"/> 5	<input checked="" type="radio"/> Recently Added
<input type="radio"/> Summary (text)	<input type="radio"/> 10	<input type="radio"/> Pub Date
<input type="radio"/> Abstract	<input checked="" type="radio"/> 20	<input type="radio"/> First Author
<input type="radio"/> Abstract (text)	<input type="radio"/> 50	<input type="radio"/> Last Author
<input type="radio"/> MEDLINE	<input type="radio"/> 100	<input type="radio"/> Journal
<input type="radio"/> XML	<input type="radio"/> 200	<input type="radio"/> Title
<input type="radio"/> PMID List		<input type="radio"/> Relevance

Apply

PMID: 25060691 [PubMed - as supplied by publisher]

[Related citations](#)

- [Identification of the propanaxatriol synthase gene CYP6H for ginsenoside biosynthesis in Panax quinquefolius.](#)

3. Wang L, Zhao SJ, Liang YL, Sun Y, Cao HJ, Han Y.

Funct Integr Genomics. 2014 Jul 24. [Epub ahead of print]

PMID: 25056561 [PubMed - as supplied by publisher]

[Related citations](#)

- [Stereoselective Skin Anti-Photoaging Properties of Ginsenoside Rg3 in UV-B-Irradiated Keratinocytes.](#)

4. Lim CJ, Choi WY, Jung HJ.

Biol Pharm Bull. 2014 Jul 24. [Epub ahead of print]

PMID: 25056231 [PubMed - as supplied by publisher] **Free Article**

[Related citations](#)

- [Non-antibiotic agent ginsenoside 20\(S\)-Rh2 enhanced the antibacterial effects of ciprofloxacin in vitro and in vivo as a potential NorA inhibitor.](#)

5. Zhang J, Sun Y, Wang Y, Lu M, He J, Liu J, Chen Q, Zhang X, Zhou F, Wang G, Sun X.

Eur J Pharmacol. 2014 Jul 20. pii: S0014-2999(14)00557-3. doi: 10.1016/j.ejphar.2014.07.020. [Epub ahead of print]

PMID: 25054686 [PubMed - as supplied by publisher]

[Related citations](#)

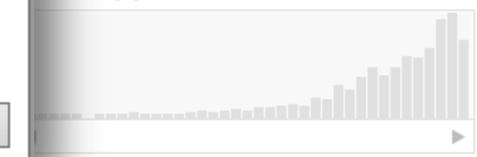
- [Effect of ginsenoside Rh2 on the migratory ability of HepG2 liver carcinoma cells: Recruiting histone deacetylase and inhibiting activator protein 1 transcription factors.](#)

6.

New feature

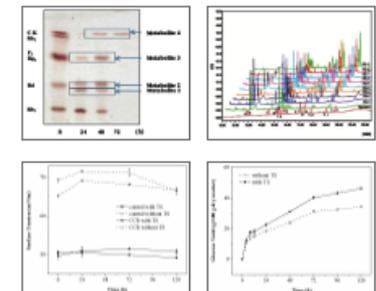
by the new Display Settings option - Sort by Relevance

Results by year



Download CSV

PMC Images search for "Tea saponin" or ginsenoside



See more (949)...

Titles with your search terms

Ginsenoside Rd attenuates myocardial ischemia/reperfusion injury via . [PLoS One. 2013]

Antidepressant-like effects of ginsenoside Rg1 are due to activation of the [Br J Pharmacol. 2012]

Effects of ginseng rhizome and ginsenoside Ro on testosterone 5α-reductase [Phytother Res. 2012]

# 書目資料(Citation Summary)

[Stereoselective Skin Anti-Photoaging Properties of Ginsenoside Rg3 in UV-B-Irradiated Keratinocytes.](#)

Lim CJ, Choi WY, Jung HJ.

Authors

Biol Pharm Bull. 2014 Jul 24. [Epub ahead of print]

Source

Article Title

PMID: 25056231 [PubMed - as supplied by publisher]

Free Article

[Related citations](#)

PMID

ation

it

Volume ( I

Free Full Text

umber

文章的身分證號，  
用以申請館際合作

Food Chem. 2013 Dec 15;141(4):4186-93. doi: 10.1016/j.foodchem.2013.06.134. Epub 2013 Jul 5.

Linkout 本館電子全文

Full text links



# Biotransformation of ginsenoside Rd in the ginseng extraction residue (lucidum).

基本書目資料

Hsu BY<sup>1</sup>, Lu TJ, Chen CH, Wang SJ, Hwang LS.

## Author information

摘要

<sup>1</sup>Graduate Institute of Food Science and Technology, National Taiwan University, No. 1, Sec. 4, Roosevelt Road, Taipei 106, Taiwan

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## Abstract

Ginseng and lingzhi (*Ganoderma lucidum*) both are valuable traditional Chinese medicines and have been extensively utilised in functional foods and traditional medicines in many Asian countries. However, massive quantity of ginseng residue is produced after extraction of ginseng which still contains a lot of bioactive compounds such as ginsenosides. The goal of this study was to reuse the American ginseng extraction residue as the fermentation medium of *G. lucidum* to produce bioactive ginsenoside enriched biotransformation products. The changes of ginsenosides in the fermentation products were analysed during fermentation. Our results showed that after 30 days of fermentation, ginsenoside Rg1, Rd, and compound K (CK) significantly increased, especially Rd, while other ginsenosides (Re, Rb1 and Rc) decreased during fermentation. Ginsenoside Rd is the major ginsenoside in the final fermentation product. Furthermore, the biotransformation of ginsenosides was the major reaction in this fermentation process.

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Yu SH<sup>1</sup>, Huang HY, Korivi M, Hsu MF, Huang CY, Hou CW, Chen CY, Kao CL, Lee RP, Lee SD, Kuo CH.

### Author information

#### Abstract

**BACKGROUND:** Previous studies reported divergent results on nutraceutical actions and free radical scavenging capability of ginseng extracts. Variations in ginsenoside profile of ginseng due to different soil and cultivating season may contribute to the inconsistency. To circumvent this drawback, we assessed the effect of major ginsenoside-Rg1 (Rg1) on skeletal muscle antioxidant defense system against exhaustive exercise-induced oxidative stress.

**METHODS:** Forty weight-matched rats were evenly divided into control (N = 20) and Rg1 (N = 20) groups. Rg1 was orally administered at the dose of 0.1 mg/kg bodyweight per day for 10-week. After this long-term Rg1 administration, ten rats from each group performed an exhaustive swimming, and remaining rats considered as non-exercise control. Tibialis anterior (TA) muscle was harvested from both groups of control and exercise rats.

**RESULTS:** Exhaustive exercise significantly ( $p < 0.05$ ) increased the lipid peroxidation (MDA) levels. The increased oxidative stress after exercise was also confirmed by decreased antioxidant enzyme activities (GSH/GSSG ratio) in control rats. However, these changes were completely attenuated by Rg1. GPx activities were significantly ( $p < 0.05$ ) increased by Rg1 in non-exercise control rats. GR and glutathione S-transferase (GST) activities were significantly increased by Rg1 in exercise rats.

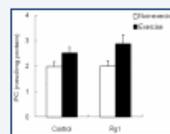
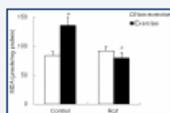
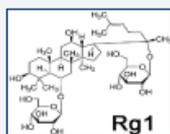
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## Steroid-like compounds in Chinese medicines promote blood circulation via inhibition of Na(+)/K(+)-ATPase.

Chen RJ<sup>1</sup>, Chung TY, Li FY, Yang WH, Jinn TR, Tzen JT.

### Author information

#### Abstract

**AIM:** To examine if steroid-like compounds found in many Chinese medicinal products conventionally used for the treatment of cardiovascular diseases act as active components via the same molecular mechanism triggered by cardiac glycosides, such as ouabain.

**METHODS:** The inhibitory potency of ouabain and the identified steroid-like compounds on Na(+)/K(+)-ATPase activity were measured. Molecular modeling was exhibited for the docking of these compounds to Na(+)/K(+)-ATPase.

**RESULTS:** All the examined steroid-like compounds displayed more or less inhibition on Na(+)/K(+)-ATPase, with the most potent (equivalent to ouabain) exhibiting significantly higher inhibitory potency than the others. In the pentacyclic triterpenoid compounds, oleanolic acid were moderate inhibitors of Na(+)/K(+)-ATPase, and their inhibitory potency was comparable to that of ouabain. The high inhibitory potency of ursolic acid or oleanolic acid was due to the formation of a hydrogen bond between its carboxyl group and the deep cavity close to two K(+) binding sites of Na(+)/K(+)-ATPase. Moreover, the drastic difference observed between ouabain, bufalin, ginsenoside Rh2, and pentacyclic triterpenoids is ascribed mainly to the number of hydrogen bonds and pi-pi interaction between the compounds and residues around the deep cavity of Na(+)/K(+)-ATPase.

**CONCLUSION:** Steroid-like compounds seem to contribute to therapeutic effects of many cardioactive Chinese medicines. Steroid-like compounds such as Prunella vulgaris L, rich in ursolic acid, oleanolic acid and their glycoside derivatives may be adequate sources for the inhibition on Na(+)/K(+)-ATPase.

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## Inhibition of Na(+)/K(+) -ATPase by antcins, unique steroid-like compounds in Antrodia camphorata.

Chung TY<sup>1</sup>, Li FY, Chang CJ, Jinn TR, Tzen JT.

### Author information

### Abstract

The inhibition of Na(+)/K(+) -ATPase by versatile steroid-like compounds contributes to the putative therapeutic effects of many Chinese medicinal cardiac products via the same molecular mechanism triggered by cardiac glycosides. Five major steroid-like compounds, antcin A, B, C, H, and K were isolated from Niuchangchih (*Antrodia camphorata*), a unique Taiwan mushroom, and all inhibited Na(+)/K(+) -ATPase. Antcin A exhibited significantly higher inhibitory potency than the other four antcins, though weaker than ginsenoside Rh2. In contrast, cortisone (an analogous steroid with anti-inflammatory effects stronger than antcin A) showed no detectable inhibitory potency. Molecular modeling has shown that antcins bind to Na(+)/K(+) -ATPase with the steroidal skeleton structurally upside-down in comparison with ginsenoside Rh2. The inhibitory potency of antcin A is attributed to steroidal hydrophobic interaction within the binding pocket and the formation of three hydrogen bonds between its carboxyl group and two cationic residues around the cavity entrance of Na(+)/K(+) -ATPase. The presence of an additional carbonyl or hydroxyl group at C7 of the other four antcins leads to severe repulsion in the hydrophobic pocket, and thus significantly reduces inhibitory potency. It is proposed that antcin A is a bi-functional compound that exerts anti-inflammatory effects and that enhances blood circulation via two different molecular mechanisms.

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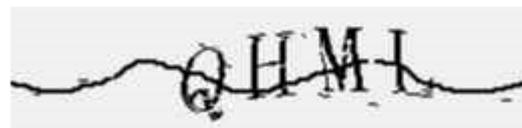
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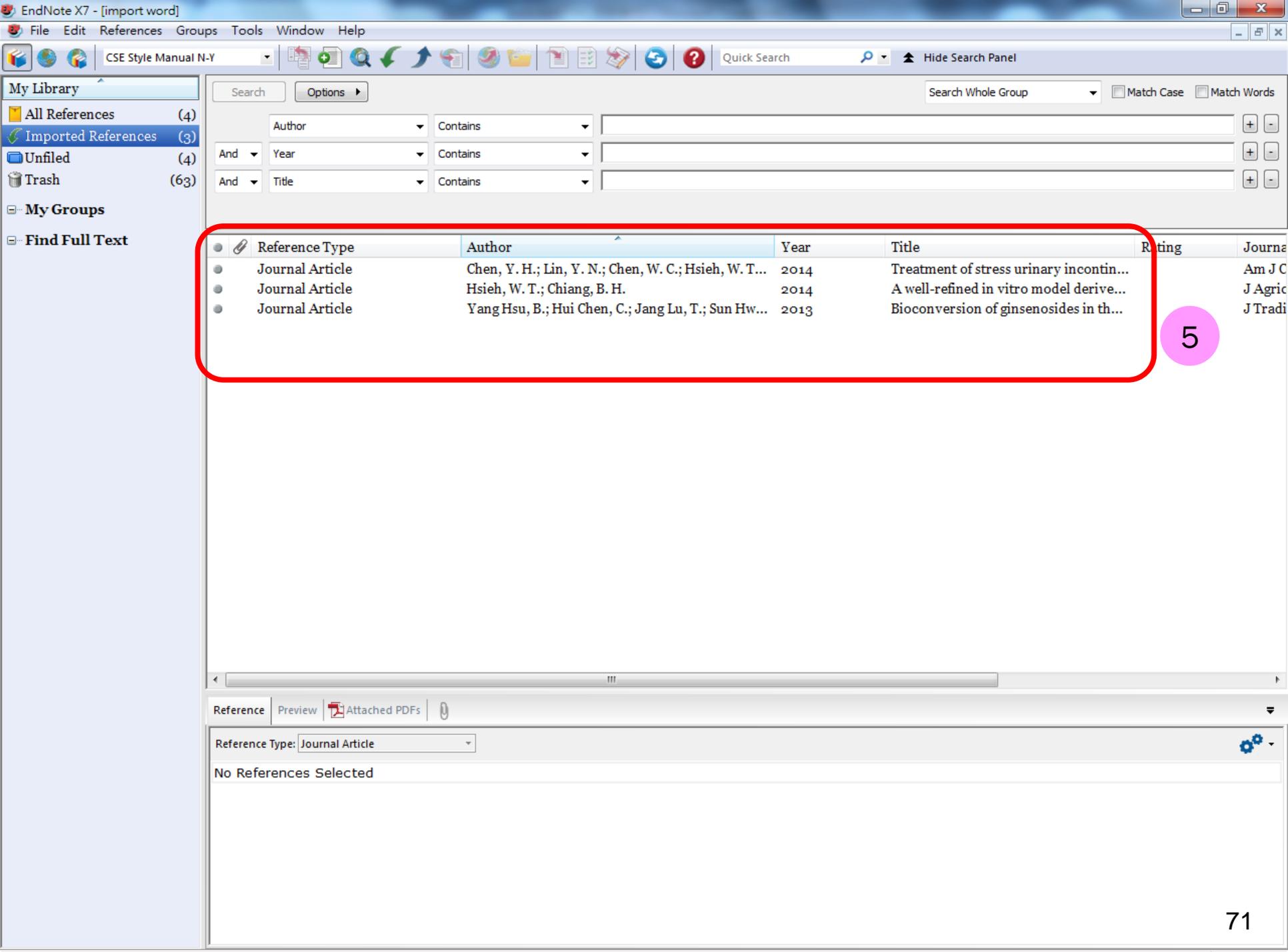
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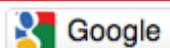
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- 4. [Preliminary X-ray diffraction analysis of thermostable  \$\beta\$ -1,4-xylanase f...](#)  
Lv P, Zhang L, Luo H, Chen CC, Huang CH, Peng W, Wang K, Ko TP, RT.  
Acta Crystallogr F Struct Biol Commun. 2014 Jan;70(Pt 1):105-7. doi: 10.1107/S20...  
PMID: 24419629 [PubMed - in process]  
[Related citations](#)
- 5. [1H, 13C and 15N backbone and side-chain resonance assignments of a family 36 carbohydrate binding module of xylanase from Paenibacillus campinasensis.](#)  
Wang YS, Ko CH, Chang HT, Yang KJ, Chen YJ, Huang SJ, Fang PJ, Chang CF, Tzou DL.

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### Most recent citations:

Kuo HJ, Wei ZY, Lu PC, Huang PL, Lee KT. [Bioconversion of pinosresinol into matairesinol by use of recombinant Escherichia coli](#). Appl Environ Microbiol. 2014 May;80(9):2687-92. doi: 10.1128/AEM.03397-13. Epub 2014 Feb 21. PubMed PMID: 24561584; PubMed Central PMCID: PMC3993289.

Yang Hsu B, Hui Chen C, Jang Lu T, Sun Hwang L. [Bioconversion of ginsenosides in the american qinseng \( xī yáng shēn\) extraction residue by fermentation with lingzhi \( líng zhī, ganoderma lucidum\)](#). J Tradit Complement Med. 2013 Apr;3(2):95-101. doi: 10.4103/2225-4110.110416. PubMed PMID: 24716163; PubMed Central PMCID: PMC3924966.

Yang LM, Chang SF, Lin WK, Chou BH, Wang LH, Liu PC, Lin SJ. [Oxygenated compounds from the bioconversion of isostevic acid and their inhibition of TNF-α and COX-2 expressions in LPS-stimulated RAW 264.7 cells](#). Phytochemistry. 2012 Mar;75:90-8. doi: 10.1016/j.phytochem.2011.12.006. Epub 2012 Jan 5. PubMed PMID: 22226038.

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<a href="#">Other Citations</a>	<a href="#">edit</a> 0	<a href="#">Private</a>	Standard
<a href="#">bioconversion@TW</a>	<a href="#">edit</a> 4	<a href="#">Private</a>	PubMed

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Filters: Manage Filters

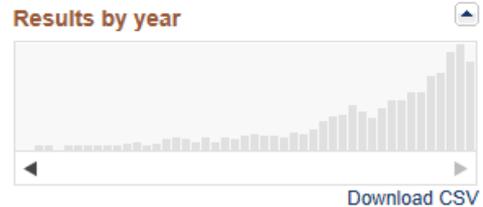
- Article types
  - Clinical Trial
  - Review
  - More ...
- Text availability
  - Abstract
  - Free full text
  - Full text
- Publication dates
  - 5 years
  - 10 years
  - Custom range...
- Species
  - Humans
  - Other Animals

Results: 1 to 20 of 2428

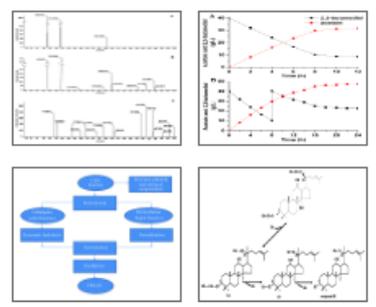
<< First < Prev Page 1 of 122 Next > Last >>

- [Production of Xylose from Meranti Wood Sawdust by Dilute Acid Hydrolysis.](#)  
1. Rafiqul IS, Sakinah AM, Karim MR.  
Appl Biochem Biotechnol. 2014 Aug 1. [Epub ahead of print]  
PMID: 25082763 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Epidemic based modeling of enzymatic hydrolysis of lignocellulosic biomass.](#)  
2. Tai C, Arellano MG, Keshwani DR.  
Biotechnol Prog. 2014 Jul 30. doi: 10.1002/btpr.1960. [Epub ahead of print]  
PMID: 25079785 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Hydration of acrylonitrile to produce acrylamide using biocatalyst in a membrane dispersion microreactor.](#)  
3. Li J, Chen J, Wang Y, Luo G, Yu H.  
Bioresour Technol. 2014 Jul 14;169C:416-420. doi: 10.1016/j.biortech.2014.07.034. [Epub ahead of print]  
PMID: 25079206 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Metabolic engineering of Pediococcus acidilactici BD16 for production of vanillin through ferulic acid catabolic pathway and process optimization using response surface methodology.](#)  
4. Kaur B, Chakraborty D, Kumar B.  
Appl Microbiol Biotechnol. 2014 Jul 31. [Epub ahead of print]  
PMID: 25077778 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Identification and use of an alkane transporter plug-in for applications in biocatalysis and whole-cell biosensing of alkanes.](#)  
5. Grant C, Deszcz D, Wei YC, Martínez-Torres RJ, Morris P, Folliard T, Sreenivasan R, Ward J, Dalby P, Woodley JM, Baganz F.  
Sci Rep. 2014 Jul 28;4:5844. doi: 10.1038/srep05844.  
PMID: 25068650 [PubMed - in process]  
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- [Anticipating the fate and impact of organic environmental contaminants: A new approach applied to the pharmaceutical fursemide.](#)  
6.

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PMC Images search for "bioconversion"



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- Acute blood pressure lowering, vasoprotective, and antiplatelet properties of [Hypertension. 2008]
- Bioconversion of lignocellulosic biomass: biochemical and [J Ind Microbiol Biotechnol. 2008]
- Microalgal carbohydrates: an overview of the

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Your PubMed filter list

Create custom filter

Active	Name	Type
<input checked="" type="checkbox"/>	Case Reports	Standard filter
<input checked="" type="checkbox"/>	English	Standard filter
<input checked="" type="checkbox"/>	Free Full Text	Standard filter
<input checked="" type="checkbox"/>	Full Text	Standard filter
<input checked="" type="checkbox"/>	Published in the last 5 years	Standard filter
<input checked="" type="checkbox"/>	Review	Standard filter

Browse/Search for PubMed Filters

Select category:

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  LinkOut
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Search with terms (optional):

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<input type="checkbox"/>	Clinical Trial	
<input checked="" type="checkbox"/>	English	
<input type="checkbox"/>	English & Humans	
<input checked="" type="checkbox"/>	Free Full Text	links to Web accessible full text articles (all available free of charge)
<input checked="" type="checkbox"/>	Full Text	links to Web accessible full text articles (some may require subscription)
<input type="checkbox"/>	Humans	
<input type="checkbox"/>	Items with Abstracts	
<input checked="" type="checkbox"/>	Published in the last 5 years	
<input checked="" type="checkbox"/>	Review	articles that review the literature on a subject

# 將LINKOUT臺大醫圖電子全文設定為分類群組

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<input checked="" type="checkbox"/>	English & Humans	
<input checked="" type="checkbox"/>	Links to Gene	Standard filter
<input checked="" type="checkbox"/>	Meta-analysis	Standard filter
<input checked="" type="checkbox"/>	National Taiwan University Medical Library-Taipei, Taiwan	Standard filter
<input checked="" type="checkbox"/>	Practice Guideline	Standard filter
<input checked="" type="checkbox"/>	Published in the last 5 years	Standard filter
<input checked="" type="checkbox"/>	Randomized Controlled Trial	Standard filter
<input checked="" type="checkbox"/>	Review	Standard filter
<input checked="" type="checkbox"/>	Systematic Reviews	Standard filter
<input checked="" type="checkbox"/>	Therapy/Narrow	Standard filter

輸入National Taiwan University Medical Library

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Select category:

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national taiwan university medical Search

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<input checked="" type="checkbox"/>	<input type="checkbox"/>		National Taiwan University Medical Library-Taipei, Taiwan ( <a href="#">website</a> )	

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1. [Taste characteristics based quan...](#)  
Cui S, Yang L, Wang J, Wang X.  
J Sci Food Agric. 2014 Aug 4. doi: 10.1111/j.1365-2656.2014.04811.x. PMID: 25087639 [PubMed - as supplied by publisher] [Related citations](#)

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2. [Ginsenoside Rb3 Protects Cardiomyocytes against Ischemia-Reperfusion Injury via the Inhibition of JNK-Mediated NF-κB Pathway: A Mouse Cardiomyocyte Model.](#)  
Ma L, Liu H, Xie Z, Yang S, Xu W, Hou J, Yu B.  
PLoS One. 2014 Aug 1;9(8):e103628. doi: 10.1371/journal.pone.0103628. eCollection 2014. PMID: 25084093 [PubMed - in process] [Free PMC Article](#) [Related citations](#)

3. [Association of GLP-1 secretion with anti-hyperlipidemic effect of ginsenosides in high-fat diet fed rats.](#)  
Liu C, Hu MY, Zhang M, Li F, Li J, Zhang J, Li Y, Guo HF, Xu P, Liu L, Liu XD.  
Metabolism. 2014 Jun 22. pii: S0026-0495(14)00182-6. doi: 10.1016/j.metabol.2014.06.015. [Epub ahead of print] PMID: 25060691 [PubMed - as supplied by publisher] [Related citations](#)

4. [Identification of the protoanaxatriol synthase gene CYP6H for ginsenoside biosynthesis in Panax quinquefolius.](#)  
Wang L, Zhao SJ, Liang YL, Sun Y, Cao HJ, Han Y.  
Funct Integr Genomics. 2014 Jul 24. [Epub ahead of print] PMID: 25056561 [PubMed - as supplied by publisher] [Related citations](#)

5. [Stereoselective Skin Anti-Photoaging Properties of Ginsenoside Rg3 in UV-B-Irradiated Keratinocytes.](#)  
Lim CJ, Choi WY, Jung HJ.  
Biol Pharm Bull. 2014 Jul 24. [Epub ahead of print] PMID: 25056231 [PubMed - as supplied by publisher] [Free Article](#) [Related citations](#)

6. [Non-antibiotic agent ginsenoside 20\(S\)-Rh2 enhanced the antibacterial effects of ciprofloxacin in vitro and in vivo as a potential NorA inhibitor.](#)

Filter your results:

- All (2302)
- Case Reports (0)
- English (1914)
- Free Full Text (601)
- Full text (1852)
- National Taiwan University Medical Library (1180)
- Published in the last 5 years (1119)
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Results by year



PMC Images search for Tea saponin or ginsenoside

