

電子ジャーナルで論文を探してみよう！

-PubMed-

PubMedで
次の条件に合う論文を探してみよう。

＞キーワード:「fucoidan」「cancer」

検索結果の画面にAbstract(抄録)を
表示してみよう

PubMed

- 医学系、生命科学系学術雑誌に掲載された論文を検索できる
- 1946年～現在まで収録
- 無料のデータベースなのでどこからでも利用できる。[北大図書館の「データベース一覧」](#)から利用すると[論文の本文へのリンク](#)も表示できる。

キーワード入力のポイント

1. 曖昧な語の検索: 前方一致検索 = 語尾に * をつける
例) librar* → library, librarian, librarians, ...
2. 熟語の検索: ダブルクォーテーション「”」でくくる
例) “fish oil” “lung cancer”
3. 著者名の検索: 姓 + 名 + ミドルネーム 名とミドルネームはイニシャルのみ
例) Smith R / suzuki a
※2002年以降出版の文献はフルネームで検索可能
4. 雑誌名の検索: 完全な雑誌名、略誌名のいずれからも検索
例) 「CBP」でも「Comparative Biochemistry and Physiology」でも同じ結果
5. キーワードや条件の掛け合わせ (論理演算)
「AND」(両方の語を含む) 「OR」(どちらかの語を含む) 「NOT」(前者を含むが後者を含まない) などをつなぐ (スペースで区切ると自動的にAND検索、入力は大文字で)

PubMedで調べる1

目標④: キーワード:「fucoidan」+「cancer」

- リモートアクセス
(学外から電子リソースを使う)
- 英語多読マラソン
- 電子ジャーナル
- 電子ブック
- データベース一覧
- 北方資料データベース
- HUSCAP
- 講習会を依頼
- 図書館へのご支援

●よく使われるデータベース

- [Web of Science Core Collection] ^R ⇒世界の雑誌論文(引用情報)を検索できます。(もっと詳しく)
- [JCR: Journal Citation Reports] ^R ⇒雑誌のインパクトファクターを調べるものです。(もっと詳しく)
- [CiNii] ^R ^F ⇒国立情報学研究所が提供している情報検索サービスです。(もっと詳しく)
- [SciFinder Web] ^R ⇒化学を中心とする科学情報の論文を検索できます。(もっと詳しく)
- [Reaxys] ^R ⇒化学反応, 合成法など多岐にわたる情報も検索できます。(もっと詳しく)
- [医中誌Web] ^R ⇒国内の医学・看護学などの論文が検索できます。(も
- [MEDLINE EBSCOhost版] ⇒医学やヘルスケア関連の文献データベース
- [PubMed北大版] ^R ^F ⇒米国立医学図書館が提供しているMEDLINE
- [ウエストロー・ジャパンWESTLAW JAPAN] ^R ⇒ウエストロー・ジャ
- [LEX/DBインターネット] ⇒明治8(1875)年以降の判例を収録しています
- [日経BP記事検索サービス] ^R ⇒記事検索や本文閲覧・印刷ができます
- [JapanKnowledgeLib] ^R ⇒事典類や叢書、雑誌記事などを収録してい
- [ざっさくプラス] ^R ⇒明治以降の邦文雑誌記事を検索できます。(もっ

図書館ホームページ
↓
データベース一覧
↓
PubMed北大版

PubMedで調べる2

目標④: キーワード:「fucoidan」+「cancer」

The screenshot shows the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To'. Below this is the 'PubMed.gov' logo and a search bar containing the text 'PubMed'. A red box highlights the search bar and the 'Advanced' link below it. A blue box labeled '検索ボックス' (Search Box) points to the search bar. Another blue box labeled '詳細検索' (Advanced Search) points to the 'Advanced' link. Below the search bar, there is a banner with the text 'PubMed comprises more than 28 million citations from MEDLINE, life science journals, and books. Citations may include links to full-text content from PubMed Central and publisher web sites.' Below the banner, there are three columns of links: 'Using PubMed', 'PubMed Tools', and 'More Resources'. A blue box labeled '使い方' (Usage) points to the 'PubMed Quick Start Guide' link. A blue box labeled 'ツール' (Tools) points to the 'PubMed Mobile' link. A blue box labeled 'その他の機能' (Other Features) points to the 'MeSH Database' link. At the bottom, there are sections for 'Latest Literature' and 'Trending Articles'.

PubMedで調べる3

目標④: キーワード:「fucoidan」+「cancer」

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed

Advanced

PubMed

PubMed comprises more than 28 million citations for biomedical literature from MEDLINE, life science journals, and 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 \(API\)](#)
- [LinkOut](#)



「fucoidan cancer」
で検索

PubMedで調べる4

目標④: キーワード:「fucoidan」+「cancer」

The image shows a screenshot of the PubMed website search results for the query "fucoidan cancer". The search bar at the top contains "fucoidan cancer" and a "Search" button. Below the search bar, there are options for "Format" (set to "Summary"), "Sort by" (set to "Most Recent"), and "Per page" (set to "20"). A red box highlights these options, with an arrow pointing to a text box that reads "Format · Sort by · Per page (表示形式 · 並び順 · 表示件数)".

On the left side, there is a sidebar with various filters. A red box highlights the "Article types" section, which includes "Clinical Trial", "Review", and "Customize...". Below this, there are sections for "Text availability" (Abstract, Free full text, Full text), "Publication dates" (5 years, 10 years, Custom range...), and "Species" (Humans, Other Animals). A red box highlights the "Clear all" button and the "Show additional filters" link. A text box below this sidebar reads "・条件の絞り込み" and "・絞り込んだ条件のクリア".

The main search results area shows "Items: 1 to 20 of 289". A green box highlights the first result: "Fucoidan Promotes Apoptosis and Inhibits EMT of Breast Cancer Cells" by He X, Xue M, Jiang S, Li W, Yu J, Xiang S. Below this, a text box reads "1件の論文情報".

At the bottom right, there is a red box highlighting the "Format" dropdown menu, with text that reads "Formatを「Summary」から「Abstract」へ変更".

Other visible elements include a "Results by year" bar chart, a "Download CSV" button, and a "Search details" section showing the search query: ("fucoidan"[Supplementary Concept] OR "fucoidan"[All Fields]) AND ("neoplasms"[MeSH Terms] OR "neoplasms"[All Fields] OR "cancer"[All Fields]).

PubMedで調べる5

目標④: キーワード:「fucoidan」+「cancer」

Format: Summary ▼ Sort

- Format
- Summary
- Summary (text)
- Abstract**
- Abstract (text)
- MEDLINE
- XML
- PMID List

PMID: 29600526

Biol Pharm Bull. 2019;42(3):442-447. doi: 10.1248/bpb.b18-00777.

Fucoidan Promotes Apoptosis and Inhibits EMT of Breast Cancer Cells

He X^{1,2,3}, Xue M⁴, Jiang S⁵, Li W⁴, Yu J², Xiang S⁴.

Author information

Abstract

Fucoidan is an active component of seaweed, and could inhibit proliferation and induce apoptotic cell death in several tumor cells. However, the function of fucoidan in breast cancer is largely unknown. In the present study, we evaluated the anti-cancer potential of fucoidan in human breast cancer MCF-7 cells. Adult Sprague-Dawley rats were randomized to receive fucoidan (200 or 400 mg/kg·body weight per day) or normal saline via gastric gavage for 3 consecutive days. Serum samples were prepared from these rats, and used for subsequent experiments to examine the potential effects in MCF-7 cells. Cell viability was determined using a 3-(4,5-dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium bromide (MTT) assay. Apoptosis was examined with Hoechst33258 staining and flow cytometry. Cell migration and invasion were measured by wound scratch assay and Transwell assay, respectively. Western blot and enzyme-linked immunosorbent assay (ELISA) were used to examine the expression of secretory E-cadherin and matrix metalloproteinase-9 (MMP-9). Conditioned serum from fucoidan-treated rats significantly suppressed cell proliferation and enhanced apoptosis. Cell migration and invasion were also significantly decreased. Observed effects of conditioned serum were associated with upregulation of E-cadherin and downregulation of MMP-9. Conditioned serum of rats treated with fucoidan could inhibit the proliferation and promote apoptosis of MCF-7 cells. Cell invasion and migration were inhibited, possibly via decreased epithelial-mesenchymal transition (EMT) process. Fucoidan may be a promising therapeutic agent for human breast cancers.

KEYWORDS: apoptosis; breast cancer cell; drug serum; epithelial-mesenchymal transition

PMID: 30828076 DOI: 10.1248/bpb.b18-00777

Free full text
Similar articles

J-STAGE 北大 図書館 Full Text Navi

収録誌の情報、DOI

論題、著者名

アブストラクト(抄録)とキーワード

この例では「全文へのリンク」(J-Stage)をクリック

PMIDとレコード状態

全文へのリンク

PubMedで調べる6

目標④: キーワード:「fucoidan」+「cancer」

The screenshot shows the top part of a journal article page. At the top, there are navigation links like 'J-STAGE', 'Support & News', 'Sign in', 'Cart', and 'EN'. Below that, the journal title 'Pharmaceutical Bulletin' is displayed along with ISSN information. The article title 'Fucoidan Promotes Apoptosis and Inhibits EMT of Breast Cancer Cells' is visible, along with the authors' names: 'Weiwei Li, Jinming Yu, Shuai Xiang'. A red box highlights the 'Download PDF (2296K)' button, with a red arrow pointing from it to the right. Below the button, there is a text box containing the instruction: 「Download PDF」をクリック (Click 'Download PDF').

This is the full article page. The title is 'Fucoidan Promotes Apoptosis and Inhibits EMT of Breast Cancer Cells'. The authors are Xinjia He, Meilan Xue, Shu Jiang, Weiwei Li, Jinming Yu, and Shuai Xiang. The article is published in 'Biol. Pharm. Bull.' 42, 442-447 (2019). The abstract states: 'Fucoidan is an active component of seaweed, and could inhibit proliferation and induce apoptotic cell death in several tumor cells. However, the function of fucoidan in breast cancer is largely unknown. In the present study, we evaluated the anti-cancer potential of fucoidan in human breast cancer MCF-7 cells. Adult Sprague-Dawley rats were randomized to receive fucoidan (100 or 400 mg/kg-body weight per day) or normal saline via gastric gavage for 3 consecutive days. Serum samples were prepared from these rats, and used for subsequent experiments to examine the potential effects in MCF-7 cells. Cell viability was determined using a 3-(4,5-dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium bromide (MTT) assay. Apoptosis was examined with Hoechst33258 staining and flow cytometry. Cell migration and invasion were measured by wound scratch assay and Transwell assay, respectively. Western blot and enzyme-linked immunosorbent assay (ELISA) were used to examine the expression of secretory E-cadherin and matrix metalloproteinase-9 (MMP-9). Conditioned serum from fucoidan-treated rats significantly suppressed cell proliferation and enhanced apoptosis. Cell migration and invasion were also significantly decreased. Observed effects of conditioned serum were associated with upregulation of E-cadherin and downregulation of MMP-9. Conditioned serum of rats treated with fucoidan could inhibit the proliferation and promote apoptosis of MCF-7 cells. Cell invasion and migration were inhibited, possibly via decreased epithelial-mesenchymal transition (EMT) process. Fucoidan may be a promising therapeutic agent for human breast cancers.' The article includes an introduction, materials and methods, and a conclusion. The introduction discusses the biological properties of fucoidan and its potential as a therapeutic agent for breast cancer. The materials and methods section describes the cell lines, reagents, and experimental procedures used in the study.

PubMedの調べ方捕足1

検索結果にチェック
をつけると

Format: Summary - Sort by: Most Recent - Per page: 20 -

Send to - Filters: Manage Filters

Choose Destination

- File
- Clipboard
- Collections
- E-mail
- Order
- My Bibliography
- Citation manager

1. [First characterization of fucosidases in spiders.](#)
Berrella NN, Fuzita FJ, Moreti R, Verhaert PDEM, Lopes AR.
Arch Insect Biochem Physiol. 2018 Mar 30:e21462. doi: 10.1002/arch.21462. [Epub ahead of print]. PMID: 29600526
[Similar articles](#)

2. [Fucoidan-coated CuS nanoparticles for chemo-and photothermal therapy.](#)
Jiang B, Moorthy MS, Manivasagan P, Xu L, Song K, Lee KD, Kwak M, Kim H, Nguyen VP, Manivasagan P, Jung MJ, Kim SW, Oh J, Kang HW.
Oncotarget. 2018 Jan 3;9(16):12649-12661. doi: 10.18632/oncotarget.23898. eCollection 2018 Jan 3. PMID: 29560098 Free PMC Article
[Similar articles](#)

3. [The effect of fucoidan on intestinal flora and intestinal barrier function in mice.](#)
Zhou M, Ji X, Liang H, Liu Y, Wang B, Sun L, Li W.
Food Funct. 2018 Feb 21;9(2):1214-1223. doi: 10.1039/c7fo01677h. PMID: 29384543
[Similar articles](#)

4. [Doxorubicin-fucoidan-gold nanoparticles composite for dual-chemo-photothermal treatment on eye tumors.](#)
Kim H, Nguyen VP, Manivasagan P, Jung MJ, Kim SW, Oh J, Kang HW.
Oncotarget. 2017 Dec 9;8(69):113719-113733. doi: 10.18632/oncotarget.23092. eCollection 2017 Dec 26. PMID: 29371941 Free PMC Article
[Similar articles](#)

※Formatを「Summary」→「Abstract」に切り替えてから保存すると、Abstractを含む形で保存・送信できます。

PubMedの調べ方補足2

＜MeSHを使った検索＞

MeSHとは米国国立医学図書館(NLM)が作成するシソーラスMedical Subject Headings (医学主題見出し)の略称

シソーラス・・・様々な医学用語を統一して上位語・下位語を整理した
統制語辞書

例えば

癌について調べたい・・・

論文中の表現

cancer, tumor, neoplasm

・・・様々な表現が存在

MeSH

neoplasms

論文内容を表わす言葉として
Mesh用語 "Neoplasms"を
付与しキーワードを統一

PubMedの参考資料

岩下愛, 山下ユミ共著『図解PubMedの使い方
第6版』 日本医学図書館協会, 2013

➡ 水産学部図書室の論文の書き方コーナー
(490. 7/IWA)にあり

アカデミックスキルガイド 3-18
「PubMedの使い方～MeSH編～」

➡ 図書館のHP→「学習・教育支援情報」>「学習支援情報(本学学生向け)」>「レポート
を作成したい／勉強したい→学習に役立つサービス」>「学習サポート」、にて公開。