

Studies on Fucoïdan

The following are studies from the PubMed website.

Alzheimer's Disease

1: Neuron, 1996 Sep;17(3):553-65

Microglial cells internalize aggregates of the Alzheimer's disease amyloid beta-protein via a scavenger receptor.

Paresce DM, Ghosh RN, Maxfield FR

Pathology Department, Columbia University, New York, New York 10032 USA

PMID: 8816718

Breast Cancer

1: Anticancer Res. 2000 Sep-Oct;20(5A):3265-71

Analysis of the in vitro inhibition of mammary adenocarcinoma cell adhesion by sulphated polysaccharides.

Liu JM, Haroun-Bouhedja F, Boisson-Vidal C

Laboratoire de Recherche sur les Macromolécules (URM 7540, URM2, CNRS/IFR\$EMER) Institut Galilée, Université 13, Villetaneuse, France

PMID:11062752

Cholesterol

1: Biol Pharm Bull. 1994 Jun;17(6):78408

Preparation of aminated fucoïdan and its evaluation as an antithrombotic and antilipemic agent

Soeda S, Ohmagari Y, Shimeno H, Nagamatsu A

Department of Biochemistry, Faculty of Pharmaceutical Sciences, Fukuoka University, Japan

PMID: 7951138

Diabetes

1: Microcirculation. 2004 Dec;11(8):645-54

Inhibition of leukocyte adherence enables venular control of capillary perfusion in streptozotocin-induced diabetic rats.

Nellore Z, Harris NR

Department of Bioengineering, Pennsylvania State University, University Park, Pennsylvania, USA

PMID 15726832

Helicobacter Pylori

1: Helicobacter. 2003 Feb;8(1):59-65

Preventive effects of Cladosiphon fucoïdan against Helicobacter pylori infection in Mongolian gerbils

Shibata H, Iimuro M, Uchiya N, Kawamori T, Nagaoka M, Ueyama S, Hashimoto S, Yokokura T, Sugimura T, Wakabayashi K

Cancer Prevention Division, National Cancer Center Research Institute, 5-1-1, Tsukiji, Chuo-ku, Tokyo 104-0045, Japan

PMID: 12603617

HIV

1: Experientia, 1989 Oct 15;4(10):996-8

Further characterization of sulfated homopolysaccharides as anti-HIV agents.

Sugawara I, Itoh W, Kimura S, Mori S, Shimada K

Department of Pathology, University of Tokyo, Japan

PMID: 2478388

HIV

1: Biochim Biophys Acta, 1992 Dec 10;1180(2):180-6
 Maleylated human serum albumin inhibits HIV-1 infection in vitro
 Takami M, Sone T, Mizumoto K, Kino K, Tsunoo H
 Division of Biochemical Genetics, Meiji Institute of Health Science, Kanagawa, Japan
 PMID 1281431

Kidney Cancer

1: J Biol Chem. 1994 Apr 1;269(13):9817-21
 Hepatocyte growth factor specifically binds to sulfoglycolipids
 Kogayashi T, Honke K, Miyazaki T, Matsumoto K, Nakamura T, Ishizuka I, Makita A
 Biochemistry Laboratory, Hokkaido University School of Medicine, Sapporo, Japan
 PMID 8144574

Leukemia

1: Nutr Cancer, 2005;52(2):189-201
 Fucoidan extracted from Cladosiphon okamuranus Tokida induces apoptosis of human T-cell leukemia virus type 1-infected T-cell lines and primary adult T-cell leukemia cells
 Haneji K, Matsuda T, Tomita M, Kawakami H, Ohshiro K, Uchihara JN, Masuda M, Takasu N, Tanaka Y, Ohta T, Mori N
 Division of Molecular Virology and Oncology, Graduate School of Medicine, University of the Ryukyus, Nishihara, Okinawa, Japan
 PMID 16201850

Leukemia

1: Am J Hematol, 2005 Jan;78(1):7-14
 Fucoidan induces apoptosis of human HS-sultan cells accompanied by activation of caspase-3 and down-regulation of ERK pathways
 Aisa Y, Miyakawa Y, Nakazato T, Shibata H, Saito K, Ikeda Y, Kizaki M
 Department of Internal Medicine, Kelo University School of Medicine, Tokyo, Japan
 PMID 15609279

Liver Cancer

1: Hepatol Res. 2006 Jul;35(3):190-8. Epub 2006 May 4
 Fucoidan prevents concanavalin A-induced liver injury through induction of endogenous IL-10 in mice
 Saito A, Yoneda M, Ookohama S, Okada M, Haneda M, Nakamura K
 Second Department of Internal Medicine, Asahikawa Medical College, Asahikawa, Japan
 PMID 16678479

Liver Cancer

1: Eur J Pharmacol. 2008 Feb 12;580(3):380-4. Epub 2007 Nov 17
 Fucoidan partly prevents CC1(4)-induced liver fibrosis
 Hayashi S, Itoh A, Isoda K, Kondoh M, Kawase M, Yagi K
 Laboratory of Bio-Functional Molecular Chemistry, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka 565-0871, Japan
 PMID 18068155

Lung Cancer

1: Experientia. 1989 Jun 15;45(6):584-8
 Blocking of lectin-like adhesion molecules on pulmonary cells inhibits lung sarcoma L-1 colonization in BALB/c-mice.
 Roszkowski W, Beuth J, Ko HL, Uhlenbruck G, Pulverer G
 National Institute of Lung Disease and Tuberculosis, Warsaw, Poland
 PMID 2737266

Lung Cancer

1: Anticancer Res. 1996 May-Jun;16(3A):1213-9

Antitumor and antiproliferative effects of a fucan extracted from *ascophyllum nodosum* against a non-small-cell bronchopulmonary carcinoma line

Riou D, Collic-Jouault S, Pinczon du Sel D, Bosch S, Siavoshian S, Le Bert V, Tomasoni C, Siquin C, Durand P, Roussakis C

IOMer (Institut des Substances et Organismes de la Mer), SMAD, Laboratoire de Pharmacologie Marine, Faculté de Pharmacie, Nantes, France

PMID 8702239

Lung Cancer

1: Anticancer Res. 1995 Sep-Oct;15(5B):1937-47

Immunological analysis of inhibition of lung metastases by fucoidan (GIV-A) prepared from brown seaweed *Sargassum thunbergia*

Itoh H, Noda H, Amano H, Ito H

Laboratory of Marine Biochemistry, Faculty of Bioresources, Mie University, Tsu Japan

PMID 8572581

Stomach Cancer

1: J Nutr Sci Vitaminol (Tokyo). 1999 Jun;45(3):325-36

Inhibitory effect of *Cladosiphon* fucoidan on the adhesion of *Helicobacter pylori* to human gastric cells

Shibata H, Kimura Takagi I, Nagaoka M, Hashimoto S, Sawada H, Ueyama S, Yokokura T

Yakult Central Institute for Microbiological Research, Tokyo, Japan

PMID 10524351

Tumor

1: Anticancer Res. 2005 May-Jun;25(3B):2129-33

Inhibitory effect of fucoidan on the adhesion of adenocarcinoma cells to fibronectin

Liu JM, Bignon J, Haroun-Bouhedja F, Bittoun P, Vassy J, Fermandjian S, Sdzieczak-Bakala J, Boisson-Vidal C

Unité INSERM 428, Faculté de Pharmacie 4 avenue de l'Observatoire 75270 Paris, France.

PMID:16158954

Tumor

1: Glycobiology. 2007 May;17(5):541-52. Epub 2007 Feb 12.

A comparative study of the anti-inflammatory, anticoagulant, antiangiogenic, and antiadhesive activities of nine different fucoidans from brown seaweeds.

Cumashi A, Ushakova NA, Preobrazhenskaya ME, D'Incecco A, Piccoli A, Totani L, Tinari N, Morozevich GE, Berman AE, Bilan MI, Usov AI, Ustyuzhanina NE, Grachev AA, Sanderson CJ, Kelly M, Rabinovich GA, Iacobelli S, Nifantiev NE; Conzorzio Interuniversitario Nazionale per la Bi-Oncologia, Italy

Department of Oncology and Neurosciences, University G. D'Annunzio Medical School & Foundation, 66013 Chieti, Italy, and Division of Immunogenetics, Hospital de Clínicas José de San Martín, Buenos Aires, Argentina

PMID 17296677