

Effect of dietary flaxseed on the growth, recurrence and metastasis of human breast cancer cells

National Library of Canada - The inhibitory effect of flaxseed on the growth and metastasis of estrogen receptor negative human breast cancer xenografts attributed to both its lignan and oil components



Description: -

-effect of dietary flaxseed on the growth, recurrence and metastasis of human breast cancer cells

- Canadian theses = -- Theses canadiennes effect of dietary flaxseed on the growth, recurrence and metastasis of human breast cancer cells

Notes: Thesis (M.Sc.) -- University of Toronto, 2002.

This edition was published in 2002



Filesize: 45.85 MB

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Flax & Breast Cancer Survival

Ingenuity Pathway Analysis showed activation of pathways that promote apoptosis and cell adhesion, and inhibition of pathways that promote cell proliferation and migration. When omega-3s are part of a well-balanced diet—which includes vitamin C, vitamin E beta-carotene, and selenium—they may be most effective in preventing and even treating breast cancer. While flax seed oil has great health benefits there are virtually no lignans contained in the oil.

Flaxseeds and Breast Cancer

Ingram D Sanders K Kolybaba M Lopez D Case control study of phyto oestrogens and breast cancer In: Lancet 1997 Oct 4 350 9083 :990 4 The lower excretion of enterolactone by breast cancer patients in our study accords with the findings of a previous small study seven cases in which enterolactone excretion was significantly lower in post-menopausal breast cancer patients than in omnivorous and vegetarian controls. PLoS ONE 9, e86987 2014. Some research shows that flaxseed does not improve LDL cholesterol levels in postmenopausal women with normal or high cholesterol.

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Flaxseed also seems to make platelets, the blood cells involved in clotting, less sticky. Coverslip samples were incubated with the primary antibody and Vimentin overnight at 4 °C, followed by the secondary antibody labeled with Cy3 for 1 h at room temperature. After the indicated treatment, cells were washed with phosphate buffered saline PBS and fixed with 4% paraformaldehyde in PBS for 30 min.

Flaxseed and its components reduce metastasis after surgical excision of solid human breast tumor in nude mice

Six weeks after 4T-1 breast cancer cell implantation into the mammary glands, the mice were sacrificed, and the lung tissues were harvested.

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Western blot analysis Cell lysates were prepared with NETN buffer 1% NP-40, 1 mM EDTA, 20 mM Tris—Cl, pH 7.

Flaxseed Lignans and Cancer

R performed natural product extractions, analyzed data, and wrote the manuscript.

Verminoside from *Pseudolysimachion rotundum* var. *subintegrum* sensitizes cisplatin

Am J Clin Nutr 2004 Feb;79 2 :318-25.

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