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Basic Study

Sporamin suppresses the growth of xenografted colorectal carcinoma in BALB/c athymic mice by inhibiting liver β -catenin and vascular endothelial growth factor expression

Yang C *et al.* Sporamin suppresses growth of colorectal carcinoma

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Abstract

BACKGROUND

Colorectal cancer (CRC) **1** is the third most common malignancy of the digestive tract and the fifth leading cause of cancer-related mortality in China. Sporamin, a Kunitz-type trypsin inhibitor isolated from sweet potato, is a potential anti-cancer agent with activity against a number of malignant tumor cells *in vitro*. The liver secretes a myriad of endocrine factors that may facilitate the growth and transformation of tumors in the development of CRC.

AIM

To investigate the effects of sporamin on liver morphology and biomarkers of xenografted CRC in the livers of BALB/c athymic mice.

METHODS

Match Overview

1	Crossref 36 words Lu Wang, Weiwei Li, Kai Li, Yi Guo et al. "The oncogenic ro ... s of nuclear receptor coactivator 1 in human esophageal car	1%
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Silibinin Suppresses Growth of Human Colorectal Carcinoma SW480 ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2864479/> - 翻译此页

作者: M Kaur - 2010 - 被引用次数: 88 - 相关文章

Silibinin treatment **inhibited** cell **growth**, induced cell death, and decreased ... In a SW480 **tumor xenograft** study, 100- and 200-mg/kg doses of silibinin Silibinin **Suppresses** Human CRC SW480 **Tumor Xenograft Growth in Nude Mice** Silibinin treatment **suppresses** β -catenin, cyclin D1, c-Myc, and CDK8 **expression** in ...

Inhibition of colorectal cancer liver metastasis in BALB/c mice ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6313052/> - 翻译此页

作者: W Zhang - 2019 - 相关文章

2018年11月16日 - **Inhibition** of **colorectal cancer liver** metastasis in **BALB/c mice** following ... with oHSV2 alone slowed the **growth** of subcutaneous **xenograft** tumors without ... cytokine interleukin-10 and **inhibited** the **expression** of the negative immune (B) The **mice** were weighed every 2 days following the first treatment.

FOXQ1 promotes cancer metastasis by PI3K/AKT signaling regulation

...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5446504/> - 翻译此页

作者: JY Liu - 2017 - 被引用次数: 7 - 相关文章

2017年5月15日 - Here, **expression** of FOXQ1 was higher in **colorectal cancer** tissue samples and cancer cell lines ... of FOXQ1 significantly promoted **colorectal cancer growth** in vivo. ... Finally, FOXQ1-dependent **inhibition** of **colorectal cancer** cell migration Six-week-old **athymic** male **BALB/c nude mice** (Shanghai Slack ...

ERK inhibition enhances TSA-induced gastric cancer apoptosis via NF

...

https://www.researchgate.net/.../229064392_ERK_inhibition_enhances_TSA... - 翻译此页

PD98059 enhanced TSA-induced cell **growth** arrest, apoptosis and ... p27, subsequently resulting in **tumor growth inhibition** in **liver**, breast and gastric ... cytochrome **c**, and activate NF- κ B-mediated acquired resistance to HDACIs. ... enhances the antitumor effects of **sporamin** in human pancreatic **cancer** cells B.-J. Jiang.

Quercetin inhibition of tumor invasion via suppressing PKC??/ERK/AP

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TGF-Beta Suppresses VEGFA-Mediated Angiogenesis in Colon ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3607554/> - 翻译此页

作者: L Geng - 2013 - 被引用次数: 59 - 相关文章

These cells readily formed **xenograft** tumors in athymic **nude mice**. ... Here we show that TGF-**beta** signaling **inhibits expression** of **vascular endothelial growth factor** A CBS, GEO and parental FET **colon carcinoma** cells [9] were cultured at 37°C of Smad4 **expression** predicts **liver** metastasis in human **colorectal cancer**.

Liver Metastasis of SW480 Cells in Nude Mice BALB/c. | Download ...

<https://www.researchgate.net/.../Liver-Metastasis-of-SW480-Cells-in-Nude-M...> - 翻译此页

APRIL Induces Tumorigenesis and Metastasis of **Colorectal Cancer** Cells via Activation of the ... The protein contents of **vascular endothelial growth factor** (VEGF), matrix ... tumor and **liver** metastasis of CRC in **nude mice**, probably by **inhibiting** the ... First, APRIL receptor TACI **expression** is significantly higher in regulatory T ...

Gambogic acid (GA) inhibited tumor growth in a xenograft mouse ...

<https://www.researchgate.net/.../Gambogic-acid-GA-inhibited-tumor-growth-...> - 翻译此页

The **BALB/c nude mice** were injected with U266 cells for some days followed by treatment with ... In addition, the **tumor** size (b), weight (c) and body weight (d) were measured. ... factor-1/**vascular endothelial growth factor expression** via **inhibiting** ... tau, and **b-tubulin III** were **suppressed** when cells were exposed to GA at the ...

Molecular Medicine Reports - Spandidos Publications

<https://www.spandidos-publications.com/mmr/articlesbydate.jsp> -04/04/2019, Long noncoding RNA STCAT16 **suppresses** cell **growth** and its 26/03/2019,

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Regulation by vascular endothelial growth factor of human colon ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC295707/> ▼ 翻译此页

作者: RS Warren - 1995 - 被引用次数: 835 - 相关文章

VEGF monoclonal antibody administration in tumor-bearing athymic mice led to a dose- and time-dependent inhibition of growth of subcutaneous xenografts and to a ... In hepatic metastases of VEGF antibody-treated mice, neither blood vessels nor ... Expression of vascular permeability factor (vascular endothelial growth ...

Regulation by vascular endothelial growth factor of human colon ...

<https://www.ncbi.nlm.nih.gov/pubmed/7535799> ▼ 翻译此页

作者: RS Warren - 1995 - 被引用次数: 835 - 相关文章

Regulation by vascular endothelial growth factor of human colon cancer tumorigenesis in a mouse model of experimental liver metastasis. ... and hepatic tumorigenesis, we examined the expression of vascular endothelial growth factor ... tumor-bearing athymic mice led to a dose- and time-dependent inhibition of growth of ...

The anti-tumor effect is enhanced by simultaneously targeting VEGF ...

<https://www.ncbi.nlm.nih.gov/pubmed/25788276> ▼ 翻译此页

作者: T Goi - 2015 - 被引用次数: 16 - 相关文章

2015年3月20日 - Hematogenous metastasis, mainly hepatic metastasis, is a frequent metastatic mode ... Two angiogenic growth factors, in particular, Vascular endothelial growth ... effect by inhibiting these two factors in human colorectal cancer. ... levels of VEGF/PROK1 expression was injected subcutaneously into mice, ...

TGF-Beta Suppresses VEGFA-Mediated Angiogenesis in Colon ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3607554/> ▼ 翻译此页

作者: L Geng - 2013 - 被引用次数: 60 - 相关文章

These cells readily formed xenograft tumors in athymic nude mice. ... Here we show that TGF-beta signaling inhibits expression of vascular endothelial growth factor A ... CBS, GEO and parental FET colon carcinoma cells [9] were cultured at 37°C of Smad4 expression predicts liver metastasis in human colorectal cancer.

Inositol Hexaphosphate and Inositol Inhibit Colorectal Cancer ... - NCBI

<https://www.ncbi.nlm.nih.gov/pubmed/27187454> ▼ 翻译此页