

Calponin 3 promotes invasion and drug resistance of colon cancer cells



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Calponin 3 (CNN3) is an F-actin-binding protein that regulates actin cytoskeletal rearrangement. However, the role of CNN3 in **cancer cell invasion** and **resistance** to chemotherapeutic agents has not yet been investigated. The present study was undertaken to investigate whether CNN3 influences **cancer**-related phenotypes in gastric **cancer**.

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Jul 01, 2018 · Introduction **Calponin 3** (CNN3) is one of the three isoforms in the **Calponin** family of actin-binding proteins. It is expressed in smooth muscle **cells** and non-smooth muscle **cells** and is required for cytoskeletal rearrangement and wound healing. Epithelial to Mesenchymal Transition (EMT) is important step in the development of epithelial cancers during which the **cancer** cell exploit the ...

Cited by: 1

Author: Wm Abdel-Rahman, V Nair, N Al-khayyal

Publish Year: 2018

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Calponin 3 (CNN3) is an F-actin-binding protein that regulates actin cytoskeletal rearrangement. However, the role of **CNN3** in **cancer cell invasion and resistance** to chemotherapeutic agents has not yet been investigated. The present study was undertaken to investigate whether **CNN3** influences **cancer-related** phenotypes in **gastric cancer**.

Cited by: 1

Author: Keun-Seok Hong, Hyemin Kim, Seon-Hee...

Publish Year: 2019

Name of Journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 46900

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Calponin 3 promotes invasion and drug resistance of colon cancer cells

Nair VA *et al.* CNN3 in colon cancer

Vidhya A Nair, Noura A Al-khayyal, Sivaramakrishnan Sivaperumal, Wael M Abdel-Rahman

Abstract

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www.ncbi.nlm.nih.gov › Journal List › Int J Mol Med

Bmi-1 **promotes** the **invasion and migration of colon cancer stem cells** through the downregulation of E-cadherin. ... The surface markers, CD133 and CD44, have been widely used for the selection and isolation of CCSCs from **colon cancer cells** (11 ...

Cited by: 11

Author: Zefeng Zhang, Xiaoling Bu, Hao Chen, Qi...

Publish Year: 2016

Lipocalin2 Promotes Invasion, Tumorigenicity and ...

www.ncbi.nlm.nih.gov › Journal List › PLoS One › v.7(10); 2012

Lipocalin2 **Promotes Invasion**, Tumorigenicity **and** Gemcitabine **Resistance** in Pancreatic Ductal Adenocarcinoma. ... LCN2 has been reported to **promote resistance** to **drug**-induced apoptosis, ... Ectopic expression of neutrophil gelatinase-associated lipocalin suppresses the **invasion** and liver metastasis **of colon cancer cells**.

Cited by: 60

Author: Lisa Leung, Lisa Leung, Nikolina Radulovi...

Publish Year: 2012

CCR1/CCL5 interaction promotes invasion of taxane ...

https://www.researchgate.net/publication/251234024_CCR1CCL5...

CCR1/CCL5 interaction **promotes invasion of taxane-resistant** PC3 prostate **cancer cells** by increasing secretion of MMPs 2/9 and by activating ERK and Rac signaling Article in Cytokine 64(1) · ...

CCR1/CCL5 interaction promotes invasion of taxane ...

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CCR1/CCL5 interaction **promotes invasion of taxane-resistant** PC3 prostate **cancer cells** by increasing secretion of MMPs 2/9 and by activating ERK and Rac signaling ... In **colon cancer**, the interaction of CCR1 with CCL9 induces ... suggest that the interaction of CCR1 and CCL5 **promotes invasion of PC3PR cells** by increasing secretion of MMPs 2 and ...

Cited by: 55

Author: Taku Kato, Yasunori Fujita, Keita Nakane...

Publish Year: 2013

(PDF) Phthalate exposure promotes chemotherapeutic drug ...

https://www.researchgate.net/publication/321953626_Phthalate...

Phthalate exposure **promotes chemotherapeutic drug resistance** in **colon cancer cells** Hsin-Pao Chen 2,5,* , Yung-Kuo Lee 1,3,* , Shih Yin Huang 3 , Pei-Chun Shi 3 , Ping-Chi