

Disruption of the TWEAK/Fn14 pathway prevents 5-fluorouracil-induced diarrhea

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[Experimental Models of Inflammatory Bowel Diseases - NCBI](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4435576/>

1 Mar 2015 ... **Disruption** of the intestinal epithelial barrier and thereby the entry of luminal ... e.g. in SCID and Rag1^{-/-} mice, indicating that effector cytokines produced by ... is followed by **induction** of DSS colitis or another type of chronic colitis. **TWEAK/Fn14 pathway**: a nonredundant role in intestinal damage in mice ...

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BALB/c mice were divided into three experimental groups and subjected to the ... Symptom of **diarrhea** was also more severe in 200 mg/kg 5-FU treated group than while no effective means to **prevent** or treat mucotitis has been suggested. ... A previous study suggested that hydrogen peroxide **induced** TJ **disruption** is ...

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30 Jan 2013 ... 5-Fluorouracil **induces** **diarrhea** with changes in the expression of inflammatory cytokines and aquaporins in mouse intestines. Sakai H(1) ...

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Su1850 5-Fluorouracil-Induced Intestinal Injury Is Mediated by TWEAK/Fn14 and IL13 ... WT mice had severe **diarrhea** after 5-FU administration, while ... The TWEAK/Fn14 and IL-13 pathways may be potential targets to **prevent** intestinal side ...

[Cell death at the intestinal epithelial front line - Delgado - 2015 - The ...](#)

onlinelibrary.wiley.com/doi/10.1111/febs.13575/full ▼

11 Nov 2015 ... In contrast excessive intestinal epithelial cell death induced by irradiation

Name of journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 31616

Manuscript Type: Original Article

Basic Study

Disruption of the TWEAK/Fn14 pathway prevents 5-fluorouracil-induced diarrhea in mice

Takuhito Sezaki, Yuki Hirata, Teruki Hagiwara, Yuki I. Kawamura, Tadashi Okamura, Rieko Takanashi, Kenta Nakano, Miwa Tamura-Nakano, Linda C Burkly, Taeko Dohi

Abstract

AIM

To clarify the roles of TWEAK and its receptor Fn14 in 5-fluorouracil (5-FU)-induced diarrhea.

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| 1 | Crossref | 20 words | <1% |
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| | Molofsky, Ari B., Adam K. Savage, and Richard M. Locksley. "Interleukin-33 in Tissue Homeostasis, Injury, and Inflammation." | | |

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onlinelibrary.wiley.com/doi/10.1111/febs.13575/full

11 Nov 2015 ... In contrast excessive intestinal epithelial cell death **induced** by Nonetheless, in vivo microscopy studies of the small intestine in anaesthetized **mice**, to inhibit IEC apoptosis and **prevent** epithelial barrier **disruption** [78, 142, 146]. ... neutralization of **TWEAK** using a soluble **Fn14** receptor substantially ...

[Experimental Models of Inflammatory Bowel Diseases - ScienceDirect](https://www.sciencedirect.com/science/article/pii/S2352345X15000405)

www.sciencedirect.com/science/article/pii/S2352345X15000405

However, treatment of TRUC **mice** with anti-TNF- α therapy **prevents** ... **Induction** of ER stress through **disruption** of XPB1 causes small intestinal ... and Rag1^{-/-} **mice**, indicating that effector cytokines produced by innate cells are sufficient to ... one showing that inhibition of the Wnt **pathway** by the Wnt antagonist Dkk1 favors ...

[Interleukin-13 Damages Intestinal Mucosa via TWEAK and Fn14 in ...](https://www.academia.edu/.../Interleukin-13_Damages_Intestinal_Mucosa_via_TWEAK_and_Fn14_in_Mice_A_Pathway_Associated_With_Ulc)

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[TWEAK and Fn14 in Mice A Pathway Associated With Ulc](https://www.academia.edu/.../Interleukin-13_Damages_Intestinal_Mucosa_via_TWEAK_and_Fn14_in_Mice_A_Pathway_Associated_With_Ulc)



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5-Fluorouracil induces diarrhea with changes in the expression of ...

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作者: H Sakai - 2013 - 被引用次数: 22 - 相关文章

2013年1月30日 - Although the mechanisms of 5-fluorouracil (5-FU)-induced diarrhea remain ... and AQP5 in the intestines of mice with 5-FU-induced diarrhea.

缺少字词: tweak fn14 pathway prevents

5-Fluorouracil-induced changes of intestinal integrity biomarkers in ...

<https://www.ncbi.nlm.nih.gov/pubmed/25337561> - 翻译此页

作者: MK Song - 2013 - 被引用次数: 4 - 相关文章

This study was conducted to determine 5-fluorouracil (5-FU) induced intestinal ... METHODS: BALB/c mice were divided into three experimental groups and ... Symptom of diarrhea was also more severe in 200 mg/kg 5-FU treated group than ...

缺少字词: tweak fn14 pathway prevents

intestinal tumors induced: Topics by Science.gov

www.science.gov/topicpages/i/intestinal+tumors+induced.html

The tumor-bearing mice were treated with abdominal radiation at 5 and 10 Gy, and with ... candidate for preventing radiotherapy-induced intestinal damage in cancer patients. Diarrhea is a common dose-limiting toxicity associated with cancer inducer of apoptosis (TWEAK)/fibroblast growth factor-inducible 14 (Fn14) ...

Translational Genomics Research Institute - Contributions

https://www.researchgate.net/institution/Translational_Genomics.../publications

... rat and mouse skin using liquid chromatography-tandem mass spectrometry and promotes TWEAK-Fn14-induced cell migration and invasion via TRAF2. of a Pathogen: A Comparative Genomics Analysis Identifies a Genetic Pathway to Nanoliposomal irinotecan with fluorouracil