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Paneth cells in intestinal physiology and pathophysiology

<https://www.wjgnet.com/2150-5330/full/v8/i4/150.htm> ▾

Paneth cells locate in crypts and assist undifferentiated columnar cells, called crypt base columnar cells, and rapidly amplifying cells in the regeneration of absorptive and secretory cell types. There is some evidence that Paneth cells are involved in the configuration and function of the stem cell zone as well as intestinal morphogenesis and ...

Cited by: 21

Author: Nikolaus Gassler

Publish Year: 2017

The potential of mesenchymal stem cells in the management ...

<https://www.nature.com/articles/cddis2015189>

Aug 06, 2015 - On this basis, we will discuss the advances in anticancer therapy by using mesenchymal stem cells in this review after analyzing the pathogenesis of radiation enteropathy, introducing the advances ...

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Author: Chang Py, Qu Yq, Wang J, Dong Lh

Publish Year: 2015

Constitutive STAT5 activation regulates Paneth and Paneth ...

<https://www.life-science-alliance.org/content/2/2/e201900296> ▾

Apr 01, 2019 - Clostridium difficile impairs Paneth cells, driving intestinal inflammation that exaggerates colitis. Besides secreting bactericidal products to restrain C. difficile, Paneth cells act as guardians that constitute a niche for intestinal epithelial stem cell (IESC) regeneration. However, how IESCs are sustained to specify Paneth-like cells as their niche remains unclear.

Cited by: 1

Author: Ruixue Liu, Richard Moriggl, Richard Mori...

Publish Year: 2019

(PDF) Paneth Cells during Viral Infection and Pathogenesis

https://www.researchgate.net/publication/324802089_Paneth_Cells_during_Viral_Infection...

in Paneth cells are difficult to parse from the pathways involved in Paneth cell differentiation, since lysozyme staining is often used to quantify Paneth cell numbers. Inhibition of PI3K in mouse

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 52151

Manuscript Type: Review

Gut commensal bacteria, Paneth cells and their relations to radiation enteropathy

Gao YL *et al.* Paneth cells control intestinal radiation sensitivity

Yan-Li Gao, Li-Hong Shao, Li-Hua Dong, Peng-Yu Chang

Abstract

In steady state, the intestinal epithelium forms an important part of the gut barrier to defend against luminal bacterial attack. However, the intestinal epithelium is compromised by ionizing irradiation due to its inherent self-renewing capacity. In this process, small intestinal bacterial overgrowth is a critical event that reciprocally alters the immune milieu. In other words, intestinal bacterial dysbiosis induces inflammation in response to intestinal

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Author: Helena Tlaskalová-Hogenová, Renata Štěp...

Publish Year: 2011

Impact of Pelvic Radiotherapy on Gut Microbiota of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3867375>

Dec 18, 2013 · **Gut microbial dysbiosis** was hypothesized to be related to the occurrence of **radiation-induced** complications in cancer patients. Given the lack of clinical or experimental data on the **impact of radiation** on **gut microbiota**, a prospective observational study of **gut microbiota** was performed in gynecological cancer patients receiving pelvic radiotherapy.

Cited by: [64](#)

Author: Young-Do Nam, Hak Jae Kim, Jae-Gu Seo, ...

Publish Year: 2013



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Paneth cells directly sense gut commensals and maintain ...

<https://www.pnas.org/content/105/52/20858/tab-figures-data>

Dec 30, 2008 · We found that **Paneth cells** directly sense enteric **bacteria** through **cell**-autonomous MyD88-dependent toll-like receptor (TLR) activation, triggering expression of multiple antimicrobial factors. **Paneth cells** were essential for controlling intestinal barrier penetration by **commensal** and pathogenic **bacteria**.

Cited by: 835 **Author:** Shipra Vaishnava, Cassie L. Behrendt, A...

Publish Year: 2008

The role of gut microbiota (commensal bacteria) and the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4003137>

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Publish Year: 2011