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Basic Study

ADSCs alleviate TNBS-induced colitis in rats by influencing intestinal epithelial cell regeneration, Wnt signaling and T cell immunity

Gao JG *et al.* ADSCs alleviate TNBS-induced colitis

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Abstract

BACKGROUND

Conventional Crohn's disease (CD) treatments are supportive rather than curative and have serious side effects. Adipose-derived mesenchymal stem

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Nov 10, 2015 · **Intestine** and the immune system. The immune system within the **intestine** is a complex system; combining coordinated responses between the innate and adaptive immune systems within the **intestinal** mucosa [26–28].The innate and adaptive responses are composed of both cellular and non-cellular components (Fig. 2).In the innate response, the non-cellular (humoral) components range from ...

Cited by: 99**Author:** Janelle A. Jiminez, Janelle A. Jiminez, Trin...**Publish Year:** 2015

[Stem cells as potential therapeutic targets for ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2900153>

2. INTRODUCTION. Inflammatory bowel disease is an autoimmune disease associated with uncontrolled innate and adaptive **immunity**. IBD is defined by an inflammation of the gastrointestinal tract, associated with unrestrained immune response with increased abnormal **T cell** activity.

[Adipose-Derived Mesenchymal Stem Cells Alleviate ...](#)

<https://www.researchgate.net/publication/23770276...>

ASCs can reduce the proliferation and regulate the function of activated immune cells in vitro through **cell-cell** interaction and paracrine **signaling**, **affecting** both innate and adaptive **immunity** [6].



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Mesenchymal stem cells alleviate TNBS-induced colitis by ...

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Mesenchymal stem cells alleviate TNBS-induced **colitis** by modulating inflammatory **and** autoimmune responses Article in World Journal of Gastroenterology 19(29):4702-17 · August 2013 with 31 Reads

Systematic Exposition of Mesenchymal Stem Cell for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6327253>

3. Different Sources of **Mesenchymal Stem Cells** Involved in IBD. BMMSCs therapy was the most widely employed allogeneic-based **stem cells** therapy in laboratory investigations or clinical science studies [].BMMSCs infusion facilitated **intestinal** mucosal permeability reconstruction and oxidative stress relief and exerted neuroprotective function in 2,4,6-trinitrobenzene sulfonic acid **colitis** ...

Cited by: 5

Author: Jingjing Kang, Li Zhang, Xiao Luo, Xiang...

Publish Year: 2018

Protective effect of adipose tissue-derived mesenchymal ...

<https://www.sciencedirect.com/science/article/pii/S003960601930529X>

Methods. Seven days after induction of **colitis** with 2,4,6-trinitrobenzene sulfonic acid, Wistar **rats** were submitted to a transection of the descending colon followed by end-to-end anastomosis and were then treated with 2×10^6 adipose tissue-derived **mesenchymal** stromal **cells** (from the preperitoneal fat) or an acellular culture solution instilled onto the surface of the anastomosis.

Author: Valter Alvarenga, Pedro Teixeira da Si... **Publish Year:** 2019

Subcutaneous adipose tissue-derived stem cells facilitate ...

<https://www.researchgate.net/publication/5598194...>

Subcutaneous adipose tissue-derived **stem cells** facilitate colonic mucosal recovery from 2,4,6-trinitrobenzene sulfonic acid (**TNBS**)-induced **colitis** in **rats**

The Achievements and Challenges of Mesenchymal Stem Cell ...

<https://www.hindawi.com/journals/sci/2020/7819824> ▾

The Achievements **and** Challenges of **Mesenchymal Stem Cell**-Based Therapy in Inflammatory Bowel Disease **and** Its Associated Colorectal Cancer Dickson Kofi Wiredu Ocansey , 1 , 2 Wei Qiu , 3 Jingyan