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Basic Study

Effect of cholesterol on interstitial Cajal-like cells from guinea pig gallbladders isolated and cultured *in vitro*

Bei-Bei Fu, Xu-Jin Huang, Shuo-Dong Wu, Ying Fan

Abstract

BACKGROUND

Loss and/or dysfunction of interstitial Cajal-like cells (ICLCs) in the gallbladder may promote cholesterol gallstone formation by decreaseing gallbladder motility.

AIM

To study the effect of cholesterol on the proliferation and apoptosis of ICLCs from

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Ursodeoxycholic acid protects interstitial Cajal-like ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6289353

An in vitro study found that the apoptotic rate of ICLCs significant increased after **co-culture** with **isolated neutrophils** from **guinea pigs** that were subjected to **bile duct ligation** 24. In the present study, we observed similar results in which an increased number of **inflammatory cells** infiltrated the tissue in the model group.

Cited by: 1 **Author:** Jiang-fan Wan, Jiang-fan Wan, Shi-feng ...
Publish Year: 2018

Ursodeoxycholic acid protects interstitial Cajal-like ...

https://www.nature.com/articles/aps2017206

May 17, 2018 · An in vitro study found that the **apoptotic rate of ICLCs** significant increased after **co-culture** with **isolated neutrophils from guinea pigs** that were subjected to **bile duct ligation** ...

Cited by: 1 **Author:** Jiang-fan Wan, Jiang-fan Wan, Shi-feng ...
Publish Year: 2018

Telocytes and interstitial cells of Cajal in the biliary ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6010895

Briefly, **cholesterol accumulation** in the **gallbladder smooth muscle cells** destroys the signal transduction mediated by protein G resulting from CCK-A binding to its receptor. 52 On the other hand, an excess of **cholesterol** in the membrane of the caveolae probably reduces membrane fluidity, 53 further leading to disturbances in **cytosolic calcium homeostasis**.

Cited by: 2 **Author:** Lei Chen, Baoping Yu
Publish Year: 2018

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4,760 Results Any time

C-Kit expression in the gallbladder of guinea pig with ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5010843

A total of 45 **guinea pigs** were randomly assigned into three groups: the control group (**guinea pigs** fed a standard diet, normal group); the model group (**guinea pigs** fed a **cholesterol gallstone** ... +

Author: Hua Feng, Fang Wang, Changmiao W... **Publish Year:** 2016

The role of interstitial Cajal-like cells in the formation ...

https://link.springer.com/article/10.1007/s12072-015-9623-3

Mar 19, 2015 · To investigate the **effect of interstitial Cajal-like cells** (ICLCs) on contraction of **gallbladder muscle strips**; and to analyze the changes of ICLCs during ... +

Cited by: 4 **Author:** Ying Fan, Shuodong Wu, Beibei Fu, Cha...
Publish Year: 2015

Ursodeoxycholic acid protects interstitial Cajal-like ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6289353

An in vitro study found that the apoptotic rate of ICLCs significant increased after **co-culture** with **isolated neutrophils** from **guinea pigs** that were subjected to **bile duct ligation** 24. In the ... +

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Publish Year: 2018

Ursodeoxycholic acid protects interstitial Cajal-like ...

www.nature.com/articles/aps2017206

May 17, 2018 · **Hypomotility** is a common symptom of gallstone disease, which is accompanied by a loss of interstitial Cajal-like cells (ICLCs) in the gallbladder. **Ursodeoxycholic acid** ... +

Cited by: 1 **Author:** Jiang-fan Wan, Jiang-fan Wan, Shi-feng ...
Publish Year: 2018

Telocytes and interstitial cells of Cajal in the biliary ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6010895

3. ERA OF TCS IN THE BILIARY SYSTEM. In 2007, Lavoie et al35 identified the presence of TCs in the gallbladder of **guinea pig**. Around the same time, in human gallbladder, Hinescu et al36 also ... +

Cited by: 2 **Author:** Lei Chen, Baoping Yu