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**Manuscript NO:** 50161

**Manuscript Type:** ORIGINAL ARTICLE

### *Basic Study*

**Sirtuin 1 alleviates the endoplasmic reticulum stress-mediated apoptosis of intestinal epithelial cells in ulcerative colitis**

Ren *et al.* Sirtuin 1 alleviates ulcerative colitis

Meng-Ting Ren, Meng-Li Gu, Xin-Xin Zhou, Mo-Sang Yu, Hang-Hai Pan,  
Feng Ji, Chen-Yan Ding

### **Abstract**

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## Endoplasmic Reticulum Stress in Intestinal Epithelial Cell ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4338396>

Feb 10, 2015 · Glutamine is an important fuel for rapidly-dividing cells including IECs. 2,4,6-Trinitrobenzenesulfonic acid- (TNBS-) induced colitis in rats was ameliorated by glutamine administration through reduction of ER stress, oxidative stress, colonic epithelial cell apoptosis...

Cited by: 28

Author: Katherine Luo, Stewart Siyan Cao

Publish Year: 2015

Academic Editor: Spiros D. Ladas

## Methyl-deficient diet promotes colitis and SIRT1-mediated ...

<https://gut.bmj.com/content/65/4/595> ▾

Apr 01, 2016 · Background Methyl donor deficiency (MDD) aggravates experimental colitis in rats and increases endoplasmic reticulum (ER) stress through decreased sirtuin 1 (SIRT1) in neuronal cells and myocardium. ER stress plays a key role in IBD pathogenesis. Aim We investigated whether the influence of MDD on colitis resulted from an ER stress response triggered by decreased SIRT1 expression.

Cited by: 16

Author: Hassan Melhem, Franck Hansmannel, A...

Publish Year: 2016

## Glutamine Treatment Attenuates Endoplasmic Reticulum ...

[journals.plos.org/plosone/article?id=10.1371/journal.pone.0050407](https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0050407) ▾

Nov 28, 2012 · Endoplasmic reticulum (ER) stress and apoptotic cell death play an important role in the pathogenesis and perpetuation of inflammatory bowel disease (IBD). We aimed to explore the potential of glutamine to reduce ER stress and apoptosis in a rat model of experimental IBD. Colitis was induced in male Wistar rats by intracolonic administration of 30 mg of 2,4,6-trinitrobenzene sulfonic acid (TNBS).

Published in: PLOS ONE · 2012

Authors: Irene Crespo · Beatriz Sanmiguel · Carolina Prause · Norma Possa Marroni · Maria J ...

Affiliation: University of Leon · Universidade Federal Do Rio Grande Do Sul

About: Caspase · Oxidative stress · Brefeldin A · Immunohistochemistry · Caco-2 · Phosphor...

## Activation of sirtuin 1 by catalpol-induced down ...

<https://www.sciencedirect.com/science/article/pii/S1043661817303237>

Activation of sirtuin 1 by catalpol-induced down-regulation of microRNA-132 attenuates endoplasmic reticulum stress in colitis ... Defective expression of NAD-dependent protein deacetylase sirtuin 1 (SIRT1) triggers endoplasmic reticulum (ER) stress and epithelial cell apoptosis in inflammatory bowel disease including ulcerative colitis

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## Activation of sirtuin 1 by catalpol-induced down ...

<https://www.sciencedirect.com/science/article/pii/S1043661817303237>

Activation of sirtuin 1 by catalpol-induced down-regulation of microRNA-132 attenuates endoplasmic reticulum stress in colitis. ... including ulcerative colitis and Crohn's disease, ... Rat intestinal IEC-6 epithelial cells and human Caco-2 cells were purchased from the cell bank of the Shanghai Institute (Shanghai, China). ...

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Author: Yongjian Xiong, Liqiang Shi, Liang Wang, ...

Publish Year: 2017

## Methyl-deficient diet promotes colitis and SIRT1-mediated ...

[https://www.researchgate.net/publication/271220433\\_Methyl-deficient\\_diet\\_promotes...](https://www.researchgate.net/publication/271220433_Methyl-deficient_diet_promotes...)

Methyl donor deficiency (MDD) aggravates experimental colitis in rats and increases endoplasmic reticulum (ER) stress through decreased sirtuin 1 (SIRT1) in neuronal cells and myocardium.

## New paradigms in chronic intestinal inflammation and colon ...

<onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2011.00915.x/full>

Jul 13, 2011 · New paradigms in chronic intestinal inflammation and colon cancer: role of melatonin.

Authors: ... including ulcerative colitis (UC) and Crohn's disease (CD), ... Intestinal epithelial cells have developed control mechanisms that organize the activation of the intestinal immune system.

Published in: Journal of Pineal Research · 2011

Authors: Virginia Motilva · Sofia Garciamaurino · Elena Talero · Matilde Illanes

Affiliation: University of Seville

About: Melatonin · Inflammatory bowel disease · Autophagy · Colorectal cancer · Colitis

## Intestinal Epithelial Sirtuin 1 Regulates Intestinal ...

[https://www.gastrojournal.org/article/S0016-5085\(17\)35634-2/fulltext](https://www.gastrojournal.org/article/S0016-5085(17)35634-2/fulltext)

Intestinal epithelial homeostasis is maintained by complex interactions among epithelial cells, commensal gut microorganisms, and immune cells. Disruption of this homeostasis is associated with disorders such as inflammatory bowel disease (IBD), but the mechanisms of this process are not clear. We investigated how Sirtuin 1 (SIRT1), a conserved mammalian NAD<sup>+</sup>-dependent protein ...

Cited by: 13

Author: Alicia S. Wellman, Mallikarjuna R. Metuk...

Publish Year: 2017

## New paradigms in chronic intestinal inflammation and colon



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### Activation of sirtuin 1 by catalpol-induced down ...

<https://www.sciencedirect.com/science/article/pii/S1043661817303237>

Activation of **sirtuin 1** by catalpol-induced down-regulation of microRNA-132 attenuates **endoplasmic reticulum** stress in **colitis**. ... including **ulcerative colitis** and Crohn's disease, ... Rat **intestinal IEC-6 epithelial cells** and human **Caco-2 cells** were purchased from the cell bank of the Shanghai Institute (Shanghai, China). ...

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Author: Yongjian Xiong, Liqiang Shi, Liang Wang, Zi...

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### Methyl-deficient diet promotes colitis and SIRT1-mediated ...

[https://www.researchgate.net/publication/271220433\\_Methyl-deficient\\_diet\\_promotes...](https://www.researchgate.net/publication/271220433_Methyl-deficient_diet_promotes...)

Methyl-deficient diet promotes **colitis** and SIRT1-mediated **endoplasmic reticulum** stress. ... The expression levels of ER stress and **apoptosis** markers in **intestinal epithelial cells** were upregulated ...

### Activation of sirtuin 1 by catalpol-induced down ...

[https://www.researchgate.net/publication/317871721\\_Activation\\_of\\_sirtuin\\_1\\_by\\_catalpol...](https://www.researchgate.net/publication/317871721_Activation_of_sirtuin_1_by_catalpol...)

Defective expression of NAD-dependent protein deacetylase **sirtuin 1** (SIRT1) triggers **endoplasmic reticulum** (ER) stress and **epithelial cell apoptosis** in inflammatory bowel disease.

### New paradigms in chronic intestinal inflammation and colon ...

[onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2011.00915.x/full](https://onlinelibrary.wiley.com/doi/10.1111/j.1600-079X.2011.00915.x/full)

Jul 13, 2011 · New paradigms in chronic **intestinal** inflammation and colon cancer: role of melatonin. Authors. ... including **ulcerative colitis** (UC) and Crohn's disease (CD), ... **Intestinal epithelial cells** have developed control mechanisms that organize the activation of the **intestinal** immune system.

Published in: *Journal of Pineal Research* · 2011

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Author: Alicia S. Wellman, Mallikariuna R. Metukuri...