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Basic Study

5 P2X7 receptor antagonist recovers ileum myenteric neurons after experimental ulcerative colitis

Souza RF *et al.* P2X7 receptor antagonist recovers myenteric neurons

Roberta Figueiroa Souza, Mariá Munhoz Evangelinellis, Cristina Eusébio Mendes, Marta Righetti, Múcio Cevulla Silva Lourenço, Patricia Castelucci

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Author: Marcos Vinícius da Silva, Aline Rosa Maro...

Publish Year: 2015

2014-9-9 · This study examined the P2X7 receptor and changes in the distal colon in enteric neurons of rats with experimental ulcerative colitis. The analysis was performed in the distal colons of rats with ulcerative colitis induced by the administration of 2,4,6-trinitrobenzene sulfonic acid (colitis group).

<https://link.springer.com/article/10.1007/s00418-014-1270-6> ▾

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2016-11-12 · Effects of Experimental Ulcerative Colitis on P2X7 Receptor Expression in Submucosal

Neurons and Enteric Glial Cells Marcos V. Da Silva, Aline R. Marosti, Cristina E. Mendes, Kelly Palombit, Patricia Castelucci Background/Aim: The digestive tracts of ulcerative colitis and Crohn's disease patients

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Here we report using in vivo models of **experimental colitis** that inflammation causes enteric neuron death by activating a neuronal signaling complex comprised of **P2X7 receptors** (P2X7Rs), ... +

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Activation of neuronal P2X7 receptor–pannexin-1 mediates ...

<https://www.nature.com/articles/nm.2679>

Mar 18, 2012 · Here using in vivo models of **experimental colitis** we report that inflammation causes enteric neuron death by activating a neuronal signaling complex composed of ... +

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and 6% **Calretinin-IR neurons**, respectively. Morphological changes were observed, such as increased neutrophils, disintegration of the intestinal epithelium and goblet cells and decreased collagen. ... +

Involvement of the P2X7 Purinergic Receptor in Colonic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4280204>

The present study was carried out to determine the localization of **P2X7 receptors** in the **neuromuscular** compartment of **rat distal colon**, as well as to characterize the possible ... +

Cited by: 28 **Author:** Luca Antonioli, Maria Cecilia Giron, Rocc...

Publish Year: 2014

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models of **experimental colitis** we report ... a neuronal signaling complex composed of **P2X7 receptors** (P2X7Rs), pannexin-1 (Panx1) channels, the Asc adaptor ... to **neurons** throughout the **myenteric** ...

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