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Basic Study

Effect of acetyl-L-carnitine on hypersensitivity in acute recurrent caerulein-induced pancreatitis and microglial activation along the brain's pain circuitry

Microglial activation during recurrent caerulein pancreatitis

Abstract

BACKGROUND

Acute pancreatitis (AP) and recurring AP are serious health care problems causing excruciating pain and potentially lethal outcomes due to sepsis. The validated caerulein- (CAE) induced mouse model of acute/recurring AP produces secondary persistent hypersensitivity and anxiety-like behavioral changes for study.

Match Overview

1	Crossref 64 words Sabrina L. McIlwrath, Marena A. Montera, Katherine M. Gott, Yirong Yang, Colin M. Wilson, Reed Selwyn, Karin N. Westlun	1%
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Epigenetic Mechanisms of Chronic Pain

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC25765319>

Chronic **pain**: a major clinical and socioeconomic problem. Chronic **pain** is characterized by persistent nociceptive **hypersensitivity** [1, 2], experienced by patients as a marked reduction in thresholds required to induce **pain**, such that innocuous stimuli cause **pain** (allodynia), and an amplification of responses to noxious stimuli at the site of injury (primary hyperalgesia) and surrounding ...

Cited by: 189

Author: Giannina Descalzi, Daigo Ikegami, Toshikaz...

Publish Year: 2015

Brain Regions Involved in Fatigue Sensation: Reduced ...

<https://www.researchgate.net/publication/11051556...>

When we studied the cerebral uptake of acetylcarnitine by using [2-(11)C]acetyl-L-carnitine in 8 patients with CFS and in 8 normal age- and sex-matched controls, a significant decrease was found ...

Dietary Factors - Oregon State University

<https://lpi.oregonstate.edu/book/export/html/1091> ▾

A 2019 systematic review identified three placebo-controlled interventions that examined the **effect** of oral supplementation with **acetyl-L-carnitine** (ALCAR; 1.5-3.0 g/day for one year) in individuals with diabetic peripheral neuropathy (3, 88). Low-quality evidence suggested a lower level of **pain** with ALCAR, as measured with a visual scale analog.

Acetyl-L-Carnitine Treatment Following Spinal Cord Injury ...

<https://www.researchgate.net/publication/221974699...>

In ensuing studies, the administration of an alternative biofuel **acetyl-L-carnitine** (ALC) at 1 h post-SCI was found to significantly maintain mitochondrial function at 24 h after injury, and ...

Functional Assessment and Treatment of Alcohol Use ...

<https://www.sciencedirect.com/science/article/pii/B978032354856400016X>

Jan 01, 2019 · **Acute** administration of l-carnitine with alcohol had no **effect** on blood alcohol level but decreased mean plasma acetate AUC by 23% and increased urinary acetylcarnitine levels, implying that supplemental l-carnitine was trapping excess acetyl groups produced in ethanol metabolism. 96 **Acetyl-l-carnitine** successfully reversed alcohol-induced ...

Author: Jeffrey Becker, Itai Danovitch

Publish Year: 2019