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- 1** **Crossref Posted Content** 2117 words
Jinghong Chen, Ying Sun, Jinbao Wei, Peijun Ju, Qinjie Li, John H. Winston. "Estrogen re-enhanced prenatal stress ..." 43%
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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 64478

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Estrogen augmented visceral pain and colonic neuron modulation in a double-hit model of prenatal & adult stress

Estrogen re-enhanced visceral hyperalgesia

Jinghong Chen, Ying Sun, Peijun Ju, Jinbao Wei, Qinjie Li, JH Winston

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<https://www.researchgate.net/publication/7561776...>

To **model** a process of functional abdominal **pain** in females we studied the time course and **estrogen** dependency of a hyperalgesic state induced by ovariectomy in **adult** mice.

Adrenergic Stimulation Mediates Visceral Hypersensitivity ...

<https://www.researchgate.net/publication/26866651...>

Based on the evidence implicating **estrogen** exacerbates **visceral** hypersensitivity in female rodents in pre-clinical models, we predicted that chronic **prenatal stress** (CPS) plus chronic **adult stress** ...

Neonatal maternal separation alters stress-induced ...

<https://journals.physiology.org/doi/full/10.1152/ajpgi.00240.2001>

Although untested in this **model**, other possibilities underlying the **stress**-induced **visceral** hyperalgesia include alterations in dorsal column-mediated **pain modulation** or sensitization of **visceral** afferent **nerve** terminals by autonomically mediated changes in target cells in the **colon** following acute **stress**, such as mast cell degranulation or ...

Cited by: 530

Author: Santosh V Coutinho, Paul M Plotsky, Marci...

Publish Year: 2002

Sexually Dimorphic Effects of Unpredictable Early Life ...

<https://www.researchgate.net/publication/235370800...>

Numerous studies indicate that **estrogen modulation** of **visceral pain** is mediated in certain areas of the central nervous system, including the amygdala, prefrontal regions, cingulate, and insula ...

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Estrogen alters spinal NMDA receptor activity via a PKA ...

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In OVX rats with **visceral pain** caused by **colonic** inflammation, **estrogen** replacement was shown to facilitate nociceptive processing by increasing the activation of ...

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Estrogen-dependent abdominal hyperalgesia induced by ...

<https://www.researchgate.net/publication/7561776...>

To **model** a process of functional abdominal **pain** in females we studied the time course and **estrogen** dependency of a hyperalgesic state induced by ovariectomy in **adult** mice.

(PDF) Estrogen Modulates the Visceromotor Reflex and ...

<https://www.researchgate.net/publication/10770073...>

Ji et al. • **Estrogen** Modulation of Colorectal **Pain** J. Neurosci., May 1, 2003 • 23(9):3908–3915 • 3911 effect of 50 g of **estrogen** on the response of SUSTAINED neu-

Stress-Induced Chronic Visceral Pain of Gastrointestinal ...

europepmc.org/abstract/MED/20212222

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[PDF] visceral sensitization and pain regulation Estrogen re ...

<https://www.researchgate.net/publication/346808834...>

chronic **prenatal stress** (CPS) plus chronic **adult stress** (CAS) will maximize **visceral pain** sensitivity; and **estrogen** plays an important role in this hyperalgesia.

Frontiers | Stress-Induced Chronic Visceral Pain of ...

<https://www.frontiersin.org/articles/10.3389/fnsys.2017.00086> ▾

In a two "hit" **model** of post-inflammatory early life **stress**, **colonic** hypersensitivity was induced by neonatal **and adult colonic** inflammation, which caused an increase in brain-derived neurotrophic factor (BDNF) expression in the lumbosacral spinal cord due to increases in ac-H3K9 and acetylation of histone-4 at lysine-12 (Aguirre et al., 2017). In another important preclinical study performed by Winston and ...

Cited by: 32

Author: Beverley Greenwood-Van Meerveld, Beverle...

Publish Year: 2017

Stress-Induced Chronic Visceral Pain of Gastrointestinal ...

<https://europepmc.org/article/MED/29213232> ▾

Nov 22, 2017 · In a two "hit" **model** of post-inflammatory early life **stress**, **colonic** hypersensitivity was induced by neonatal **and adult colonic** inflammation, which caused an increase in brain-derived neurotrophic factor (BDNF) expression in the lumbosacral spinal cord due to increases in ac-H3K9 and acetylation of histone-4 at lysine-12 (Aguirre et al., 2017). In another important preclinical study ...

Estrogen re-enhanced prenatal stress-related visceral ...

<https://www.researchgate.net/publication/346808834...>

PDF | Background: **Visceral pain** is one of the most common sign of irritable bowel syndrome (IBS). Chronic **stress** during pregnancy may increase **visceral**... | Find, read and cite all the research ...

Frontiers | Stress-Induced Visceral Pain: Toward Animal ...

<https://www.frontiersin.org/articles/10.3389/fpsy.2015.00015> ▾

Oct 01, 2017 · **Visceral pain** is a global term used to describe **pain** originating from the internal organs, which is distinct from somatic **pain**. It is a hallmark of functional gastrointestinal disorders such as irritable-bowel syndrome (IBS). Currently, the treatment strategies targeting **visceral pain** are unsatisfactory, with development of novel therapeutics hindered by a lack of detailed knowledge of the ...

Cited by: 137

Author: Rachel D. Moloney, Siobhain M. O'Mahony, ...