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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 53338

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Basic Study

AlCl₃ exposure regulates neuronal development through modulating DNA modification

Cheng XJ *et al.* AlCl₃ and neuronal development.

Xue-Jun Cheng, Fu-Lai Guan, Qian Li, Gong Dai, Hai-Feng Li, Xue-Kun Li

Abstract

BACKGROUND

As the third most abundant element, aluminum is widespread in the environment. Previous studies have shown that aluminum has a neurotoxic effect and its exposure can impair neuronal development and cognitive function.



AICl3 regulates neuronal development through modulat

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Stem cells under the influence of alcohol: effects of ...

https://link.springer.com/article/10.1007/s00018-018-2931-8

Oct 10, 2018 · Stem cells drive embryonic and fetal development. In several adult tissues, they retain the ability to self-renew and differentiate into a variety of specialized cells, thus contributing to tissue homeostasis and repair throughout life span. Alcohol consumption is associated with an increased risk for several diseases and conditions. Growing and developing tissues are particularly vulnerable ...

Cited by: 3 Author: Giuliana Di Rocco, Silvia Baldari, Giovam... Publish Year: 2019

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https://www.nature.com/articles/pr2007133

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Author: Jian Feng, Shaun Fouse, Guoping Fan

Publish Year: 2007

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4852014>

Oct 27, 2015 · A major concern of aluminum (Al) toxicity in humans and animals has been raised during the last decades.¹ In 2007, Al was included in the priority list of hazardous substances identified by The Agency for Toxic Substances and Disease Registry.² **Exposure** to Al is very common during daily life due to the facts that it is widely distributed in the environment, and ...

Cited by: 12

Author: Hussain S. Al Dera

Publish Year: 2016

Epigenetic effects of stress and corticosteroids in the brain

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3329877>

Apr 19, 2012 · **DNA modifications. DNA methylation of cytosines** adjacent guanines (CpG sites) is a major epigenetic mark. CpG islands, which are regions of the genome with a high concentration of CpG pairs are often located within the promoter or enhancer regions of genes.

Cited by: 86

Author: Richard G. Hunter

Publish Year: 2012

Dnmt1 and Dnmt3a maintain DNA methylation and regulate ...

<https://www.nature.com/articles/nn.2514>

Mar 14, 2010 · We conclude that Dnmt1 and Dnmt3a are required for synaptic plasticity, learning and



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[Epigenetics and the Modulation of Neuroinflammation](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3805872>

Regulation of Neuroinflammation by Non-coding RNA. A third mechanism of epigenetic **regulation** of gene expression is **through** non-coding RNAs. RNA molecules that do not code for protein are prevalent within total RNA samples [], and modulate gene expression and protein translation **through** a number of mechanisms. The most well studied form of non-coding RNA is microRNA (miRNA). miRNAs employ ...

Cited by: 56 **Author:** Gwenn A. Garden

Publish Year: 2013

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<https://www.nature.com/articles/nn.2514>

Mar 14, 2010 - The long-lasting changes in synaptic plasticity that underlie learning and memory require changes in **neuronal** gene expression. Epigenetic mechanisms such as histone **modification** 1 and **DNA** ...

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Cited by: 848 **Author:** Jian Feng, Yu Zhou, Yu Zhou, Susan L C...