

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 61155

Manuscript Type: MINIREVIEWS

Contributions of aversive environmental stress to migraine chronification: Research update of migraine pathophysiology

Liu TH *et al.* Aversive environmental stress to migraine chronification

Tang-Hua Liu, Zhen Wang, Fang Xie, Yan-Qing Liu, Qing Lin

Abstract

Clinical studies have suggested that internal and/or external aversive cues may produce a negative affective-motivational component whereby maladaptive responses (plasticity) of dural afferent neurons are initiated contributing to migraine chronification. However, pathophysiological processes and neural circuitry involved in

Match Overview

1	Crossref 71 words Bie, B.. "Synaptic plasticity and pain aversion", <i>European Journal of Pharmacology</i> , 20110930	2%
2	Internet 68 words crawled on 29-Apr-2020 royalsocietypublishing.org	2%
3	Internet 66 words crawled on 22-Sep-2019 fjfsdata01prod.blob.core.windows.net	2%
4	Internet 58 words crawled on 06-Nov-2020 jneuroinflammation.biomedcentral.com	1%
5	Internet 56 words crawled on 18-Jul-2020 www.slideshare.net	1%
6	Internet 47 words crawled on 19-Nov-2020 journals.lww.com	1%
7	Crossref 43 words Fu-Jung Hsiao, Jing Xiang, Wei-Ta Chen. "Chapter 2 Magn... oencephalography", Springer Science and Business Media L	1%
8	Crossref 33 words "Headache and Comorbidities in Childhood and Adolescenc e", Springer Science and Business Media LLC, 2017	1%
9	Internet 17 words crawled on 19-Nov-2018 onlinelibrary.wiley.com	<1%

[ALL](#)
[IMAGES](#)
[VIDEOS](#)

49,100 Results

Any time ▾

[From transformation to chronification of migraine ...](#)

<https://thejournalofheadacheandpain.biomedcentral.com/...> ▾

Apr 29, 2020 - A variety of potential candidate genes in drug addiction have been shown to possibly play a role in **migraine chronification**, especially in patients with analgesic overuse . It is remarkable that some of these genes involved in serotonergic and dopaminergic pathways, also have been described to play a role in **migraine pathophysiology** [49, 50]. Oxidative stress is a subject increasing in popularity regarding its relation to the **pathophysiology of migraine**.

Cited by: 1

Author: M Torres-Ferrús, F Ursitti, A Alpuente, F ...

Publish Year: 2020

[Migraine and the Environment - Friedman - 2009 - Headache ...](#)

<https://headachejournal.onlinelibrary.wiley.com/...>

May 27, 2009 - **Migraine** is a common problem worldwide with significant morbidity and economic impact. 1 The direct costs of **migraine** are directly related to the severity of **migraine** pain and disability, and rise dramatically with prescription medication usage. 2, 3 The indirect costs exceed the costs of medical care, however, and work-related disability is the most important determinant of the economic ...

Cited by: 172

Author: Deborah I. Friedman, Timothy De Ver Dye

Publish Year: 2009

[The Stress and Migraine Interaction - Sauro - 2009 ...](#)

<https://headachejournal.onlinelibrary.wiley.com/...>

Sep 29, 2009 - **Stress** is the factor listed most often by **migraine** sufferers as a trigger for their attacks, but in addition there is evidence that **stress** can help initiate **migraine** in those predisposed to the disorder, and may also contribute to **migraine chronification**. **Migraine attacks** themselves can act as a stressor, thereby potentially leading to a vicious circle of increasing **migraine** frequency.

Cited by: 207

Author: Khara M. Sauro, Werner J. Becker

Publish Year: 2009

[Mechanisms of migraine as a chronic evolutive condition ...](#)

<https://link.springer.com/article/10.1186/s10194...> ▾

Dec 23, 2019 - **Migraine** is a recurrent, disabling neurological disorder, involving intense head pain and associated with other unpleasant symptoms. **Migraine** affects about 15% of the general population [] and causes substantial personal suffering and impaired quality of life with a significant socioeconomic

ALL

IMAGES

VIDEOS

TOOLS ▾

Pathophysiology of Migraine: A Disorder of Sensory ...

<https://journals.physiology.org/doi/full/10.1152/physrev.00034.2015>

Feb 08, 2017 · The nature of their exact mechanisms in **migraine** and their **contribution** to symptoms is not clear, but it certainly seems likely that a single **pathophysiology** through the brain stem PAG-RVM pathway can result in altered perception of noxious somatosensory stimuli, as well as changes to homeostatic processes that contribute to symptoms of altered feeding and sleep through the ...

Cited by: 608

Author: Peter J Goadsby, Philip R Holland, Marga...

Publish Year: 2017

From transformation to chronification of migraine ...

<https://thejournalofheadacheandpain.biomedcentral.com/...> ▾

Apr 29, 2020 · A variety of potential candidate genes in drug addiction have been shown to possibly play a role in **migraine chronification**, especially in patients with analgesic overuse . It is remarkable that some of these genes involved in serotonergic and dopaminergic pathways, also have been described to play a role in **migraine pathophysiology** [49, 50]. Oxidative stress is a subject increasing in popularity regarding its relation to the **pathophysiology** of **migraine**.

Cited by: 1

Author: M Torres-Ferrús, F Ursitti, A Alpuente, F ...

Publish Year: 2020

Migraine and its psychiatric comorbidities | Journal of ...

<https://jnnp.bmj.com/content/87/7/741> ▾

Jul 01, 2016 · Chronic repeated stress (including repeated **migraines**) leads to allostatic dysfunction, manifested as both structural and functional damage.^{38, 39} These negative changes impact pain processing, induce central sensitivity, and might affect the pain experience in patients with migraine.^{33, 39} In response to a painful heat stimulus, patients with **migraine** have more activation on their functional MRI (fMRI) studies in the perigenual cortex than patients without **migraine**, ...

Cited by: 147

Author: Mia Tova Minen, Olivia Begasse De Dhae...

Publish Year: 2016

Mechanisms of migraine as a chronic evolutive condition ...

<https://thejournalofheadacheandpain.biomedcentral.com/...> ▾

Dec 23, 2019 · **Migraine** is a recurrent, disabling neurological disorder, involving intense head pain and associated with other unpleasant symptoms. **Migraine** affects about 15% of the general population [] and causes substantial personal suffering and impaired quality of life with a significant socioeconomic impact. The toll of chronic **migraine** on individual and society is even bigger, as up to 45% of patients ...

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

46,100 Results

Any time ▾

Open links in new tab

From transformation to chronification of migraine ...

<https://thejournalofheadacheandpain.biomedcentral.com/...> ▾

Apr 29, 2020 · A variety of potential candidate genes in drug addiction have been shown to possibly play a role in **migraine chronification**, especially in patients with analgesic overuse . It is remarkable that some of these genes involved in serotonergic and dopaminergic pathways, also have been described to play a **role in migraine pathophysiology** [49, 50]. **Oxidative stress** is a subject increasing in popularity regarding its relation to the **pathophysiology of migraine**.

Cited by: 2

Author: M Torres-Ferrús, F Ursitti, A Alpuente, F Bru...

Publish Year: 2020

Mechanisms of migraine as a chronic evolutive condition ...

<https://thejournalofheadacheandpain.biomedcentral.com/...> ▾

Dec 23, 2019 · A number of risk factors have been identified to double the risk for **migraine chronification** , including de novo increased **migraine** attack frequency and overuse of acute **migraine** medications [173,174,175], ineffective acute treatment that could lead to medication overuse , depression , which is a common comorbidity of **migraine**, and lifestyle factors such as **stress**, high caffeine intake and obesity ...

Cited by: 17

Author: Anna P Andreou, Anna P Andreou, Lars Edv...

Publish Year: 2019

Chronic migraine: risk factors, mechanisms and treatment ...

<https://www.nature.com/articles/nrneurol.2016.93>

Jul 08, 2016 · The **pathophysiology of migraine chronification** can be understood as a threshold problem: certain predisposing factors combined with frequent headache pain lower the threshold of **migraine** attacks ...

Cited by: 221

Author: Arne May, Laura H. Schulte

Publish Year: 2016

Pathophysiology of Migraine: A Disorder of Sensory ...

<https://journals.physiology.org/doi/full/10.1152/physrev.00034.2015>

Feb 08, 2017 · The nature of their exact mechanisms in **migraine** and their **contribution** to symptoms is not clear, but it certainly seems likely that a single **pathophysiology** through the brain stem PAG-RVM pathway can result in altered perception of noxious somatosensory stimuli, as well as changes to homeostatic processes that contribute to symptoms of altered feeding and sleep through the ...