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Name of Journal: *World Journal of Psychiatry*

Manuscript NO: 57599

Manuscript Type: REVIEW

**The mechanism of repetitive transcranial magnetic stimulation for anti-depression:
Evidence from preclinical studies**

Di Luan, Ming-Ge Zhao, Ya-Chen Shi, Ling Li, Yu-Jia Cao, Hai-Xia Feng, Zhi-Jun Zhang

Abstract

This review summarizes anti-depressant mechanisms of repetitive transcranial magnetic stimulation in preclinical studies, including anti-inflammatory effects mediated by



Paraneoplastic Syndromes in Cholangiocarcinoma



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Unusual Paraneoplastic Presentation of Cholangiocarcinoma

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4606393>

Oct 01, 2015 · Various paraneoplastic cutaneous manifestations of cholangiocarcinoma have been reported, such as **alopecia and migratory erythema**. However, in the literature, only one case report of subacute cutaneous lupus erythematosus (SCLE) presenting as a paraneoplastic syndrome of cholangiocarcinoma has been reported.

Cited by: 1 **Author:** Aman Opneja, Sonia Mahajan, Sargam K...

Publish Year: 2015

A sensory neuropathy associated with cholangiocarcinoma ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5743886>

May 07, 2019 · A **pure sensory neuropathy (also referred to as a sensory ganglionopathy)** is one of a handful of recognised neurological paraneoplastic syndromes. Current guidelines recommend that in cases of sensory neuropathy, a search for an underlying malignancy be pursued for up to four years. In this case, a cholangiocarcinoma was detected six years after disease onset and in the absence of an ...

Author: Alexander M Rossor, Julian Blake, Th... **Publish Year:** 2017

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However, **the mechanism-based treatments** for this **disorder** remain elusive. **Repetitive transcranial magnetic stimulation (rTMS)**, a non-invasive procedure that could stimulate electrical activity by a **pulsed magnetic field** in the brain, is considered to be an effective treatment for **depression**.

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The use of **repetitive transcranial magnetic stimulation (rTMS)** as a therapeutic tool in neuropsychiatry is increasing, and careful assessment of the supporting scientific **evidence** is needed. Most **studies** to date investigating the efficacy of rTMS in medication-resistant depression have had small sample sizes and have used different methods and ...



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Noninvasive Brain Stimulation to Enhance Functional ...

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Oct 24, 2018 · Noninvasive brain **stimulation** (NIBS) techniques, such as **repetitive transcranial magnetic stimulation** (rTMS) and **transcranial** direct current **stimulation** (tDCS), have shown promising therapeutic potential in stroke patient **studies**. 5,6 The rationale behind rTMS or tDCS therapy is to modulate cortical excitability, increase neural plasticity, and ...

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Transcranial Magnetic Stimulation for Depression - Review ...

<https://psychscenehub.com/psychinsights/...>

Jan 29, 2018 · 3. Neurobiological **mechanisms of repetitive transcranial magnetic stimulation** on the underlying neuro circuitry in unipolar depression Baeken, C., & De Raedt, R. (2011). Neurobiological **mechanisms of repetitive transcranial magnetic stimulation** on the underlying neuro circuitry in unipolar depression.

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What is a repetitive transcranial magnetic stimulation? ▾

When to consider transcranial magnetic therapy (TMS) for depression? ▾

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Transcranial magnetic stimulation



Transcranial magnetic stimulation, also known as repetitive transcranial magnetic stimulation, is a noninvasive form of brain stimulation in which a changing magnetic field is used to cause electric current at a specific area of the brain through electromagnetic induction. An electric pulse generator, or stimulator, is connected to a magnetic coil, which in turn is connected to the scalp. The stimulator generates a changing electric current within the coil which induces a magnetic field; this field then causes a second inductance of inverted electric charge within the brain itself.



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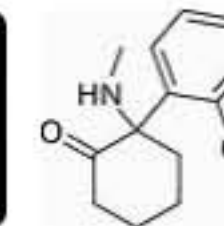
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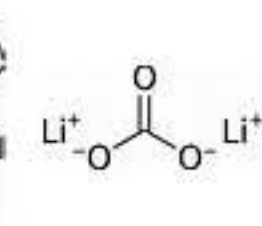
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