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Basic Study

Metabolic neural activity in idiopathic tinnitus patients after repetitive transcranial magnetic stimulation

Kan Y *et al.* Metabolic changes in tinnitus after rTMS

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Abstract

BACKGROUND

The central mechanism of idiopathic tinnitus is related to hyperactivity of cortical and subcortical auditory and non-auditory areas. Repetitive

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<https://www.ncbi.nlm.nih.gov/pubmed/15806046> ▼ 翻译此页

作者: T Kleinjung - 2005 - 被引用次数: 277 - 相关文章

OBJECTIVES: The pathophysiologic mechanisms of **idiopathic tinnitus** remain unclear. Recent studies demonstrated focal **brain** activation in the auditory cortex of **patients** with chronic **tinnitus**. Low-frequency **repetitive transcranial magnetic stimulation** (rTMS) is able to reduce cortical hyperexcitability.

Effects of repetitive transcranial magnetic stimulation on chronic tinnitus

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2117746/> ▼ 翻译此页

作者: S Rossi - 2007 - 被引用次数: 153 - 相关文章

When asked **after** the study was over, 71.4% of **patients** failed to identify the temporal ... Table 1 Full papers on **repetitive transcranial magnetic stimulation** studies The origin of **tinnitus** was mainly **idiopathic** and associated with hypoacusia. **tinnitus** and **metabolic brain activity** associated with **tinnitus** remain open and ...

Transcranial Magnetic Stimulation in the Treatment of Tinnitus ...

<https://www.intechopen.com/.../transcranial-magnetic-stimulation.../transcran...> ▼ 翻译此页

作者: YZ Yilmaz - 2018 - 相关文章

2018年9月12日 - **Repetitive** use of **TMS** in **tinnitus** is very novel; however, it is ... There is an increase in spontaneous activity in **patients** with **tinnitus**. ... Salvi and Ahroon reported that spontaneous **neural activity** in the ... **Idiopathic** stapedial muscle spasm ... hearing loss and temporary ringing of ears **after** the concert [30].

Low-Frequency Repetitive Transcranial Magnetic Stimulation to the ...

<https://jamanetwork.com/journals/jamaotolaryngology/fullarticle/716200> - 翻译此页

作者: JF Piccirillo - 2011 - 被引用次数: 54 - 相关文章



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Original articles Long-term effects of repetitive transcranial magnetic stimulation (rTMS) in patients with chronic tinnitus. This effect of an rTMS-induced "virtual lesion" in the left temporoparietal cortex confirms the hypothesis of critical involvement of temporoparietal regions for tinnitus perception.

Cited by: 286

Author: Tobias Kleinjung, Peter Eichhammer, Bert...

Publish Year: 2005

Repetitive transcranial magnetic stimulation improves both ...

www.ncbi.nlm.nih.gov › Journal List › Scientific Reports

Oct 14, 2015 · In the last decade, **repetitive transcranial magnetic stimulation** (rTMS) over the **temporal** or **temporoparietal cortex** has been investigated for the **treatment** of **tinnitus**, which appears to originate from **maladaptive cortical** reorganization.

Cited by: 6

Author: Dai Zhang, Yuewen Ma

Publish Year: 2015

Repetitive Transcranial Magnetic Stimulation for Tinnitus ...

https://www.researchgate.net/publication/227662291_Repetitive...

Interference of ongoing neuronal **activity** and brain **stimulation** motivated this study to combine **repetitive transcranial magnetic stimulation** (rTMS) and relaxation techniques in **tinnitus patients**.

Long-Term Effects of Repetitive Transcranial Magnetic ...

<https://journals.sagepub.com/doi/10.1016/j.otohns.2004.09.134>

Low-frequency **repetitive transcranial magnetic stimulation** (rTMS) is able to reduce cortical hyperexcitability. STUDY DESIGN: Fusing of the individual PET-scan with the structural MRI-scan (T1, MPRAGE) allowed us to identify exactly the area of increased **metabolic activity** in the **auditory** cortex of **patients** with **chronic tinnitus**. With the use of a neuronavigational system, this target area was exactly stimulated by the figure 8-shaped **magnetic** ...

Cited by: 286

Author: Tobias Kleinjung, Peter Eichhammer, Bert...