Accepted Manuscript

Title: Global field synchronization of 40nullHz auditory steady-state response: does it change with attentional demands?

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PII: S0304-3940(18)30210-6

DOI: https://doi.org/10.1016/j.neulet.2018.03.033

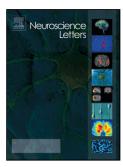
Reference: NSL 33492

To appear in: Neuroscience Letters

Received date: 22-12-2017 Revised date: 15-3-2018 Accepted date: 16-3-2018

Please cite this article as: Inga Griskova-Bulanova, Evaldas Pipinis, Aleksandras Voicikas, Thomas Koenig, Global field synchronization of 40x202f;Hz auditory steady-state response: does it change with attentional demands?, Neuroscience Letters https://doi.org/10.1016/j.neulet.2018.03.033

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Global field synchronization of 40Hz auditory steady-state response: does it change with attentional demands?

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Highlights

- A net-effect of attentional demands on auditory steady-state response was studied
- Auditory stimulation at 40 Hz results in global synchronization
- Stronger synchronization occurs during stimuli counting and resting with closed eyes
- Synchronization during distracting task is lower independently of stimulation

Abstract

Auditory steady-state responses (ASSRs) are increasingly used in research of neuropsychiatric disorders and for brain-computer interface applications. However, results on attentional modulation of ASSRs are inconclusive. The evaluation of large-scale effects of task-related modulation on ASSRs might give better estimation of the induced changes.

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