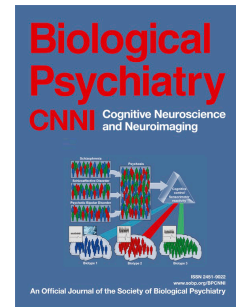


Accepted Manuscript

Phase-Amplitude Coupling of the EEG in the Auditory Cortex in Schizophrenia

Shogo Hirano, Alexander Nakhnikian, Yoji Hirano, Naoya Oribe, Shigenobu Kanba, Toshiaki Onitsuka, Margaret Levin, Kevin M. Spencer



PII: S2451-9022(17)30150-7

DOI: [10.1016/j.bpsc.2017.09.001](https://doi.org/10.1016/j.bpsc.2017.09.001)

Reference: BPSC 187

To appear in: *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*

Received Date: 16 March 2017

Revised Date: 1 September 2017

Accepted Date: 3 September 2017

Please cite this article as: Hirano S., Nakhnikian A., Hirano Y., Oribe N., Kanba S., Onitsuka T., Levin M. & Spencer K.M., Phase-Amplitude Coupling of the EEG in the Auditory Cortex in Schizophrenia, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (2017), doi: 10.1016/j.bpsc.2017.09.001.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Phase-Amplitude Coupling of the EEG in the Auditory Cortex in Schizophrenia

Shogo Hirano^{1,2}, Alexander Nakhnikian¹, Yoji Hirano^{1,2}, Naoya Oribe^{1,2,3}, Shigenobu Kanba², Toshiaki Onitsuka², Margaret Levin⁴, and Kevin M. Spencer¹

¹ Neural Dynamics Laboratory, Research Service, Veterans Affairs Boston Healthcare System, and Department of Psychiatry, Harvard Medical School, Boston, Massachusetts, USA

² Department of Neuropsychiatry, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

³ Division of Clinical Research, National Hospital Organization, Hizen Psychiatric Center, Saga, Japan

⁴ Galenea, Inc., Wakefield, Massachusetts, USA

Corresponding author:

Kevin M. Spencer, Ph.D.

Veterans Affairs Boston Healthcare System, Research 151C, 150 South Huntington Ave., Boston, MA 02130, U.S.A.

kevin_spencer@hms.harvard.edu

857-364-4630

Keywords: electroencephalography, auditory steady-state response; resting state; schizophrenia; phase-amplitude coupling; generalized Morse wavelet.

Word counts: abstract 250/250, article body 3972/4000 words

3 figures, 1 tables, 1 supplemental text, 1 supplemental figure

Short title: Phase-amplitude coupling in schizophrenia

Download English Version:

<https://daneshyari.com/en/article/8814623>

Download Persian Version:

<https://daneshyari.com/article/8814623>

[Daneshyari.com](https://daneshyari.com)