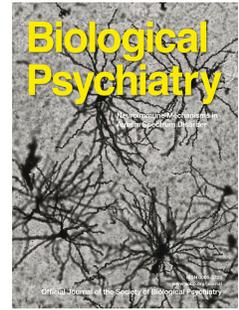


Accepted Manuscript

In Vivo Brain Glycine and Glutamate Concentrations in Patients with First-Episode Psychosis Measured by Echo-Time-Averaged Proton MR Spectroscopy at 4 Tesla

Sang-Young Kim, Marc J. Kaufman, Bruce M. Cohen, J. Eric Jensen, Joseph T. Coyle, Fei Du, Dost Öngür



PII: S0006-3223(17)31941-8

DOI: [10.1016/j.biopsych.2017.08.022](https://doi.org/10.1016/j.biopsych.2017.08.022)

Reference: BPS 13309

To appear in: *Biological Psychiatry*

Received Date: 7 March 2017

Revised Date: 26 August 2017

Accepted Date: 28 August 2017

Please cite this article as: Kim S.-Y., Kaufman M.J., Cohen B.M., Jensen J.E., Coyle J.T., Du F. & Öngür D., *In Vivo* Brain Glycine and Glutamate Concentrations in Patients with First-Episode Psychosis Measured by Echo-Time-Averaged Proton MR Spectroscopy at 4 Tesla, *Biological Psychiatry* (2017), doi: 10.1016/j.biopsych.2017.08.022.

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.

***In Vivo* Brain Glycine and Glutamate Concentrations in Patients with First-Episode Psychosis Measured by Echo-Time-Averaged Proton MR Spectroscopy at 4 Tesla**

Sang-Young Kim^{1,2}, Marc J. Kaufman^{1,3}, Bruce M. Cohen⁴, J. Eric Jensen¹, Joseph T. Coyle⁵, Fei Du^{1,2} and Dost Öngür^{2*}

¹McLean Imaging Center, McLean Hospital; Harvard Medical School, Belmont, MA, 02478, USA

²Psychotic Disorders Division, McLean Hospital; Harvard Medical School, Belmont, MA, 02478, USA

³Translational Imaging Laboratory, McLean Hospital; Harvard Medical School, Belmont, MA, 02478, USA

⁴Program for Neuropsychiatric Research, McLean Hospital; Harvard Medical School, Belmont MA, 02478, USA

⁵Laboratory for Psychiatric and Molecular Neuroscience, McLean Hospital; Harvard Medical School, Belmont, MA, 02478, USA

*Corresponding to: Dost Öngür, M.D., Ph.D., 115 Mill Street, Belmont, MA 02478, USA
Tel: 617 855 3922

Fax: 617 855 2895

Email: dongur@partners.org

The number of words: abstract (216), main text (3,976)

The number of figures and tables: figures (3), tables (3)

Supplementary information: 1

Short title: Glycine and glutamate in first-episode psychosis

Keywords: N-methyl-D-aspartate receptor, (NMDAR), glutamate (Glu), glycine (Gly), first-episode psychosis, echo-time (TE)-averaged proton MR spectroscopy

Download English Version:

<https://daneshyari.com/en/article/8814205>

Download Persian Version:

<https://daneshyari.com/article/8814205>

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