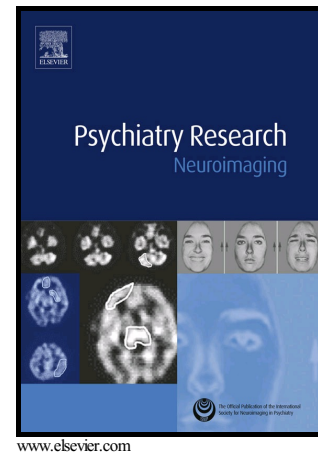


Author's Accepted Manuscript

GABA and Glutamate in Children with Tourette syndrome: A ^1H MR Spectroscopy Study at 7 T

E. Mark Mahone, Nicolaas A. Puts, Richard A.E. Edden, Matthew Ryan, Harvey S. Singer



PII: S0925-4927(17)30163-4
DOI: <https://doi.org/10.1016/j.psychresns.2017.12.005>
Reference: PSYN10779

To appear in: *Psychiatry Research: Neuroimaging*

Received date: 1 June 2017
Revised date: 6 October 2017
Accepted date: 30 December 2017

Cite this article as: E. Mark Mahone, Nicolaas A. Puts, Richard A.E. Edden, Matthew Ryan and Harvey S. Singer, GABA and Glutamate in Children with Tourette syndrome: A ^1H MR Spectroscopy Study at 7 T, *Psychiatry Research: Neuroimaging*, <https://doi.org/10.1016/j.psychresns.2017.12.005>

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 galley proof before it is published in its final citable 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.

RUNNING HEAD: GABA and Glutamate in Tourette syndrome

GABA and Glutamate in Children with Tourette syndrome:

A ^1H MR Spectroscopy Study at 7 Tesla

E. Mark Mahone^{a,b*}, Nicolaas A. Puts^{c,d}, Richard A. E. Edden^{c,d},

Matthew Ryan^b, & Harvey S. Singer^e

^aDepartment of Neuropsychology, Kennedy Krieger Institute, 1750 E. Fairmount Ave.,
Baltimore, MD 21231 USA

^bDepartment of Psychiatry and Behavioral Sciences, The Johns Hopkins University School of
Medicine, 600 N Wolfe St., Baltimore, MD 21287, USA

^cRussell H. Morgan Department of Radiology and Radiological Science, The Johns Hopkins
University School of Medicine, 600 N Wolfe St., Baltimore, MD 21287, USA

^dF.M. Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Institute, 707 N
Broadway, Baltimore, MD 21205, USA

^eDepartment of Neurology, The Johns Hopkins University School of Medicine, 600 N Wolfe St.,
Baltimore, MD 21287, USA

*Corresponding Author: E. Mark Mahone, Ph.D., Department of Neuropsychology, Kennedy
Krieger Institute, 1750 E. Fairmount Ave., Baltimore, MD 21231 USA; phone (443-923-4446),
fax (443-923-4425); email (mahone@kennedykrieger.org)

Download English Version:

<https://daneshyari.com/en/article/6816932>

Download Persian Version:

<https://daneshyari.com/article/6816932>

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