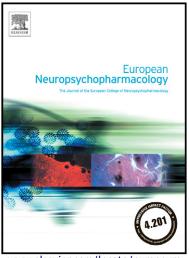
Author's Accepted Manuscript

Neuropeptide S receptor gene variation modulates anterior cingulate cortex Glx levels during CCK-4 induced panic

Tillmann Ruland, Katharina Domschke, Valerie Schütte, Maxim Zavorotnyy, Harald Kugel, Swantje Notzon, Nadja Vennewald, Patricia Ohrmann, Volker Arolt, Bettina Pfleiderer, Peter Zwanzger



www.elsevier.com/locate/euroneuro

PII: S0924-977X(15)00229-1

DOI: http://dx.doi.org/10.1016/j.euroneuro.2015.07.011

Reference: NEUPSY11069

To appear in: European Neuropsychopharmacology

Received date: 24 April 2015 Revised date: 16 June 2015 Accepted date: 14 July 2015

Cite this article as: Tillmann Ruland, Katharina Domschke, Valerie Schütte, Maxim Zavorotnyy, Harald Kugel, Swantje Notzon, Nadja Vennewald, Patricia Ohrmann, Volker Arolt, Bettina Pfleiderer, Peter Zwanzger, Neuropeptide S receptor gene variation modulates anterior cingulate cortex Glx levels during CCK-4 induced panic, *European Neuropsychopharmacology*, http://dx.doi.org/10.1016/j.euroneuro.2015.07.011

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.

ACCEPTED MANUSCRIPT

Neuropeptide S receptor gene variation modulates anterior cingulate cortex Glx levels during CCK-4 induced panic

Tillmann Ruland, M.D.^{1,*}, Katharina Domschke, M.A., M.D., Ph.D.^{2,*}, Valerie Schütte¹, Maxim Zavorotnyy, M.D.^{1,3}, Harald Kugel, Ph.D.⁴, Swantje Notzon, M.D.¹, Nadja Vennewald, Ph.D.¹, Patricia Ohrmann, M.D.¹, Volker Arolt, M.D.¹, Bettina Pfleiderer, M.D., Ph.D.^{4,#}, Peter Zwanzger, M.D.^{1,5,6,#}

Running title: NPSR1 and Glx in CCK-4 induced panic

*Corresponding author: Prof. Peter Zwanzger, MD, kbo-Inn-Salzach Hospital, Gabersee 7, D-83512 Wasserburg am Inn, Germany, Tel: + 49 8071 71 215; email: peter.zwanzger@kbo.de

¹ Mood and Anxiety Disorders Research Unit, Department of Psychiatry and Psychotherapy, University of Muenster, Germany

² Department of Psychiatry, Psychosomatics and Psychotherapy, University of Wuerzburg, Germany

³ Department of Psychiatry and Psychotherapy, University of Marburg, Germany

⁴ Department of Clinical Radiology, University of Muenster, Germany

⁵ kbo-Inn-Salzach-Klinikum, Wasserburg am Inn, Germany

⁶ Department of Psychiatry and Psychotherapy, Ludwig-Maximilians-University of Munich, Munich, Germany

^{*} Both authors contributed equally to this work and should be considered shared first authors.

[#] Both authors contributed equally to this work and should be considered shared last authors.

Download English Version:

https://daneshyari.com/en/article/10298628

Download Persian Version:

https://daneshyari.com/article/10298628

<u>Daneshyari.com</u>