### **Accepted Manuscript**

Title: More pain, more gain: blocking the opioid system boosts adaptive cognitive control

Authors: Henk van Steenbergen, Daniel H. Weissman, Dan J. Stein, Susan Malcolm-Smith, Jack van Honk

PII: S0306-4530(17)30057-4

DOI: http://dx.doi.org/doi:10.1016/j.psyneuen.2017.03.002

Reference: PNEC 3567

To appear in:

Received date: 18-1-2017 Revised date: 2-3-2017 Accepted date: 3-3-2017

Please cite this article as: van Steenbergen, Henk, Weissman, Daniel H., Stein, Dan J., Malcolm-Smith, Susan, van Honk, Jack, More pain, more gain: blocking the opioid system boosts adaptive cognitive control. Psychoneuroendocrinology http://dx.doi.org/10.1016/j.psyneuen.2017.03.002

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.



RUNNNG HEAD: Van Steenbergen et al. - Opioids modulate post-error slowing

# More pain, more gain: blocking the opioid system boosts adaptive cognitive control

Henk van Steenbergen<sup>1,2</sup>, Daniel H. Weissman<sup>3</sup>, Dan J. Stein<sup>4</sup>, Susan Malcolm-Smith<sup>5</sup>, & Jack van Honk<sup>4,6,7</sup>

#### **Corresponding author:**

Henk van Steenbergen Wassenaarseweg 52 2333 AK Leiden The Netherlands

Phone number: +31 (0)71 527 3655 Fax number: +31 (0)71 527 3783

 $E\text{-}mail\ address:\ Hvan Steenbergen@fsw.leiden univ.nl$ 

Lab website: www.henkvansteenbergen.com

<sup>&</sup>lt;sup>1</sup>Leiden Institute for Brain and Cognition, The Netherlands

<sup>&</sup>lt;sup>2</sup>Institute of Psychology, Leiden University, The Netherlands

<sup>&</sup>lt;sup>3</sup>Department of Psychology, University of Michigan at Ann Arbor, USA <sup>4</sup>Department of Psychiatry and Mental Health, Groote Schuur Hospital, MRC Unit on Anxiety & Stress Disorders, University of Cape Town, Cape Town, South Africa

<sup>&</sup>lt;sup>5</sup>Applied Cognitive Science and Experimental Neuropsychology Team, Department of Psychology, University of Cape Town, Cape Town, South Africa

<sup>&</sup>lt;sup>6</sup>Institute of Infectious Diseases and Molecular Medicine, University of Cape Town, South Africa

<sup>&</sup>lt;sup>7</sup>Department of Experimental Psychology, Utrecht University, Utrecht, The Netherlands

#### Download English Version:

## https://daneshyari.com/en/article/4934456

Download Persian Version:

https://daneshyari.com/article/4934456

<u>Daneshyari.com</u>