

## Accepted Manuscript

Title: Increased training compensates for OX1R blockage-impairment of spatial memory and c-Fos expression in different cortical and subcortical areas

Authors: Soleil García-Brito, Laura Aldavert-Vera, Gemma Huguet, Adam Álvarez, Elisabet Kádár, Pilar Segura-Torres



PII: S0166-4328(18)30264-X  
DOI: <https://doi.org/10.1016/j.bbr.2018.05.028>  
Reference: BBR 11449

To appear in: *Behavioural Brain Research*

Received date: 19-2-2018  
Revised date: 21-5-2018  
Accepted date: 26-5-2018

Please cite this article as: García-Brito S, Aldavert-Vera L, Huguet G, Álvarez A, Kádár E, Segura-Torres P, Increased training compensates for OX1R blockage-impairment of spatial memory and c-Fos expression in different cortical and subcortical areas, *Behavioural Brain Research* (2018), <https://doi.org/10.1016/j.bbr.2018.05.028>

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**TITLE:**

**Increased training compensates for OX1R blockage-impairment of spatial memory and c-Fos expression in different cortical and subcortical areas**

**AUTHORS:**

**Soleil García-Brito, MSc**<sup>1</sup>

Laura Aldavert-Vera, PhD<sup>1</sup>

Gemma Huguet, PhD<sup>2</sup>

Adam Álvarez, MSc<sup>1</sup>

Elisabet Kádár, PhD<sup>2</sup>

Pilar Segura-Torres, PhD<sup>1</sup>

<sup>1</sup> Universitat Autònoma de Barcelona, Departament de Psicobiologia i de Metodologia de les Ciències de la Salut, Institut de Neurociències, 08193 Bellaterra, Barcelona, Spain

<sup>2</sup> Universitat de Girona, Departament de Biologia, 17071 Girona, Spain

**Corresponding author:**

**Soleil García-Brito.** Universitat Autònoma de Barcelona, Departament de Psicobiologia i de Metodologia de les Ciències de la Salut, Institut de Neurociències, 08193 Bellaterra, Barcelona, Spain

*E-mail address: soleilcristina.garcia@uab.cat*

**Research Highlights**

- Blocking OX1R impairs spatial learning in MWM in a training-dependent manner.
- Strong vs weak training in a spatial task increases HPC-thalamic-cortical activity.
- SB-334867 diminishes c-Fos expression in areas with a high density of OX1R.
- Training compensates for SB-334867 impairing effects on MWM and c-Fos expression.
- Activation of DG, gRSC, PL and CL could prevent impairment of MWM by SB-334867.

**ABSTRACT**

It has been suggested that the orexin system modulates learning and memory-related processes. However, the possible influence that training could have on the effect of the blockade of orexin-A selective receptor (OX1R) on a spatial memory task has not

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