

Accepted Manuscript

Selective A_{2A} receptor antagonist prevents microglia-mediated neuroinflammation and protects retinal ganglion cells from high intraocular pressure-induced transient ischemic injury

Maria H. Madeira, Raquel Boia, Filipe Elvas, Tiago Martins, Rodrigo A. Cunha, António Francisco Ambrósio, Ana Raquel Santiago

PII: S1931-5244(15)00409-0

DOI: [10.1016/j.trsl.2015.11.005](https://doi.org/10.1016/j.trsl.2015.11.005)

Reference: TRSL 983

To appear in: *Translational Research*

Received Date: 8 October 2015

Revised Date: 13 November 2015

Accepted Date: 17 November 2015

Please cite this article as: Madeira MH, Boia R, Elvas F, Martins T, Cunha RA, Ambrósio AF, Santiago AR, Selective A_{2A} receptor antagonist prevents microglia-mediated neuroinflammation and protects retinal ganglion cells from high intraocular pressure-induced transient ischemic injury, *Translational Research* (2015), doi: 10.1016/j.trsl.2015.11.005.

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 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.



Selective A_{2A} receptor antagonist prevents microglia-mediated neuroinflammation and protects retinal ganglion cells from high intraocular pressure-induced transient ischemic injury

Maria H. Madeira^{a,b,*}, Raquel Boia^{a,b,*}, Filipe Elvas^{1,3}, Tiago Martins^{a,c}, Rodrigo A. Cunha^{b,d,e}, António Francisco Ambrósio^{a,b,c,e}, Ana Raquel Santiago^{a,b,c,e,#}

^a Institute for Biomedical Imaging and Life Sciences (IBILI), Faculty of Medicine, University of Coimbra, 3004-548 Coimbra, Portugal

^b CNC.IBILI, University of Coimbra, 3004-517 Coimbra, Portugal

^c Association for Innovation and Biomedical Research on Light (AIBILI), 3000-548 Coimbra, Portugal

^d Center for Neuroscience and Cell Biology, University of Coimbra, 3004-517 Coimbra, Portugal

^e Faculty of Medicine, University of Coimbra, 3000-548 Coimbra, Portugal

* These authors contributed equally to this work.

[#]Corresponding author. IBILI, Faculty of Medicine, University of Coimbra, Azinhaga de Santa Comba, 3004-548 Coimbra, Portugal. Phone: +351 239480226 E-mail: asantiago@fmed.uc.pt

Running head: A_{2A}R blockade as a therapeutic strategy for glaucoma

Abbreviations

A_{2A}R, adenosine A_{2A} receptor; CNS, central nervous system; CTCF, corrected total cell fluorescence; EHP, elevated hydrostatic pressure; GCL, ganglion cell layer; IL, interleukin; INL, inner nuclear layer; iNOS, inducible nitric oxide synthase; IOP, intraocular pressure; IPL, inner plexiform layer; I-R, ischemia-reperfusion LPS, lipopolysaccharide; M-CSF, macrophage-colony stimulating factor; NO, nitric oxide ONL, outer nuclear layer; OPL, outer plexiform layer; PBS, phosphate-buffered saline; RGC, retinal ganglion cell; TNF, tumor necrosis factor.

Download English Version:

<https://daneshyari.com/en/article/6156077>

Download Persian Version:

<https://daneshyari.com/article/6156077>

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