Accepted Manuscript

Full-length Article

Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role of CB₁ and CB₂ receptors and relevance for Alzheimer's disease and levodopa-induced dyskinesia

Gemma Navarro, Dasiel Borroto-Escuela, Edgar Angelats, Í ñigo Etayo, Irene Reyes-Resina, Marta Pulido-Salgado, Ana I. Rodriguez-Perez, Enric I. Canela, Josep Saura, José Luis Lanciego, José Luis Labandeira-García, Carlos A. Saura, Kjell Fuxe, Rafael Franco

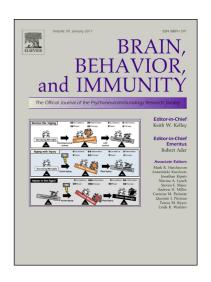
PII: S0889-1591(17)30403-8

DOI: http://dx.doi.org/10.1016/j.bbi.2017.08.015

Reference: YBRBI 3215

To appear in: Brain, Behavior, and Immunity

Received Date: 27 April 2017 Revised Date: 21 August 2017 Accepted Date: 22 August 2017



Please cite this article as: Navarro, G., Borroto-Escuela, D., Angelats, E., Etayo, I., Reyes-Resina, I., Pulido-Salgado, M., Rodriguez-Perez, A.I., Canela, E.I., Saura, J., Lanciego, J.L., Labandeira-García, J.L., Saura, C.A., Fuxe, K., Franco, R., Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role of CB₁ and CB₂ receptors and relevance for Alzheimer's disease and levodopa-induced dyskinesia, *Brain, Behavior, and Immunity* (2017), doi: http://dx.doi.org/10.1016/j.bbi.2017.08.015

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.

ACCEPTED MANUSCRIPT

Receptor-heteromer mediated regulation of endocannabinoid signaling in activated microglia. Role

of CB₁ and CB₂ receptors and relevance for Alzheimer's disease and levodopa-induced dyskinesia

Gemma Navarro^{1,2,3}, Dasiel Borroto-Escuela⁴, Edgar Angelats^{1,2}, Íñigo Etayo^{1,2}, Irene Reyes-

Resina^{1,2}, Marta Pulido-Salgado^{5,6}, Ana I. Rodriguez-Perez^{2,7}, Enric I. Canela^{1,2}, Josep Saura^{5,6}, José

Luis Lanciego^{2,8}, José Luis Labandeira-García^{2,7}, Carlos A. Saura^{2,9}, Kjell Fuxe⁴ and Rafael Franco^{1,2}

Affiliations:

1. Molecular Neurobiology laboratory. Department of Biochemistry and Molecular Biomedicine.

University of Barcelona. Diagonal 643. 08028 Barcelona, Spain.

2. Centro de Investigación en Red, Enfermedades Neurodegenerativas (CIBERNED). Instituto de

Salud Carlos III. C/ Sinesio Delgado, 4, 28029 Madrid, Spain.

3. Dept. Biochemistry and Physiology. Pharmacy School. Universitat de Barcelona. Diagonal 645.

08028 Barcelona, Spain.

4. Department of Neuroscience, Karolinska Institutet, Retzius väg 8. 17177 Stockholm, Sweden

5. Department of Biomedicine, Biochemistry and Molecular Biology Unit, School of Medicine,

University of Barcelona, IDIBAPS, Barcelona, Spain.

6. Institute of Neurosciences, University of Barcelona, Barcelona, Spain.

7. Laboratory of Neuroanatomy and Experimental Neurology, Department of Morphological

Sciences, Center for Research in Molecular Medicine and Chronic Diseases (CIMUS), University of

Santiago de Compostela, Barcelona ave. s/n, 15782 Santiago de Compostela, Spain.

8. Neuroscience Department, Center for Applied Medical Research (CIMA), University of Navarra,

Avida Pio XII, 55. 31008 Pamplona, Spain.

9. Institut de Neurociències, Department de Bioquímica i Biologia Molecular, Universitat

Autònoma de Barcelona, Campus Bellaterra. Plaça Cívica, s/n, 08193 Bellaterra, Spain.

Number of words by section. Title page: 354, abstract: 250, text: 8,251, acknowledgments: 37,

references: 2,007, figure legends: 2,051.

Number of figures: 6 figures

Total word count: 12,315.

Corresponding author:

Rafael Franco

1

Download English Version:

https://daneshyari.com/en/article/7279706

Download Persian Version:

https://daneshyari.com/article/7279706

<u>Daneshyari.com</u>