

# Accepted Manuscript

Opposing Roles of the Triggering Receptor Expressed on Myeloid Cells 2 (TREM2) and TREM-like Transcript 2 (TREML2) in Microglia Activation

Honghua Zheng, Chia-Chen Liu, Yuka Atagi, Xiao-Fen Chen, Lin Jia, Longyu Yang, Wencan He, Xilin Zhang, Silvia S. Kang, Terrone L. Rosenberry, John D. Fryer, Yun-Wu Zhang, Huaxi Xu, Guojun Bu

PII: S0197-4580(16)00202-5

DOI: [10.1016/j.neurobiolaging.2016.03.004](https://doi.org/10.1016/j.neurobiolaging.2016.03.004)

Reference: NBA 9549

To appear in: *Neurobiology of Aging*

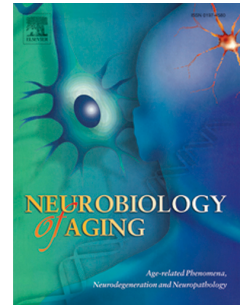
Received Date: 16 September 2015

Revised Date: 14 February 2016

Accepted Date: 6 March 2016

Please cite this article as: Zheng, H., Liu, C.-C., Atagi, Y., Chen, X.-F., Jia, L., Yang, L., He, W., Zhang, X., Kang, S.S., Rosenberry, T.L., Fryer, J.D., Zhang, Y.-W., Xu, H., Bu, G., Opposing Roles of the Triggering Receptor Expressed on Myeloid Cells 2 (TREM2) and TREM-like Transcript 2 (TREML2) in Microglia Activation, *Neurobiology of Aging* (2016), doi: 10.1016/j.neurobiolaging.2016.03.004.

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.



## **Opposing Roles of the Triggering Receptor Expressed on Myeloid Cells 2 (TREM2) and TREM-like Transcript 2 (TREML2) in Microglia Activation**

Honghua Zheng<sup>a,‡</sup>, Chia-Chen Liu<sup>b,‡</sup>, Yuka Atagi<sup>b</sup>, Xiao-Fen Chen<sup>a</sup>, Lin Jia<sup>a</sup>, Longyu Yang<sup>a</sup>, Wencan He<sup>a</sup>,  
Xilin Zhang<sup>a</sup>, Silvia S. Kang<sup>b</sup>, Terrone L. Rosenberry<sup>b</sup>, John D. Fryer<sup>b,c</sup>, Yun-Wu Zhang<sup>a,d</sup>, Huaxi Xu<sup>a,d</sup>,  
and Guojun Bu<sup>a,b,c,§</sup>

<sup>a</sup>Fujian Provincial Key Laboratory of Neurodegenerative Disease and Aging Research, Institute of Neuroscience, Medical College, Xiamen University, Xiamen 361102, PR China

<sup>b</sup>Department of Neuroscience, Mayo Clinic, Jacksonville, FL 32224

<sup>c</sup>Neurobiology of Disease Graduate Program, Mayo Clinic, Jacksonville, FL 32224

<sup>d</sup>Degenerative Disease Research Program, Sanford-Burnham Medical Research Institute, La Jolla, CA, 92037

\*Running title: *Opposing roles of TREM2 and TREML2*

<sup>§</sup>To whom correspondence should be addressed: Guojun Bu, Department of Neuroscience, Mayo Clinic, 4500 San Pablo Road, Jacksonville, FL 32224, USA, Tel.: (904)956-3419; Fax: (904)953-7370; E-mail: [bu.guojun@mayo.edu](mailto:bu.guojun@mayo.edu).

<sup>‡</sup>These authors contributed equally to this work.

**Keywords:** TREM2; TREML2; proliferation; microglia; inflammation

Download English Version:

<https://daneshyari.com/en/article/6803464>

Download Persian Version:

<https://daneshyari.com/article/6803464>

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