

## Accepted Manuscript

Immunization with *Mycobacterium vaccae* induces an anti-inflammatory milieu in the CNS: attenuation of stress-induced microglial priming, alarmins and anxiety-like behavior

Matthew G. Frank, Laura K. Fonken, Samuel D. Dolzani, Jessica L. Annis, Philip H. Siebler, Dominic Schmidt, Linda R. Watkins, Steven F. Maier, Christopher A. Lowry

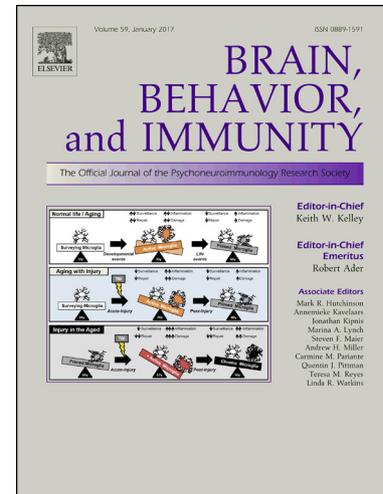
PII: S0889-1591(18)30196-X  
DOI: <https://doi.org/10.1016/j.bbi.2018.05.020>  
Reference: YBRBI 3409

To appear in: *Brain, Behavior, and Immunity*

Received Date: 27 December 2017  
Revised Date: 17 May 2018  
Accepted Date: 24 May 2018

Please cite this article as: Frank, M.G., Fonken, L.K., Dolzani, S.D., Annis, J.L., Siebler, P.H., Schmidt, D., Watkins, L.R., Maier, S.F., Lowry, C.A., Immunization with *Mycobacterium vaccae* induces an anti-inflammatory milieu in the CNS: attenuation of stress-induced microglial priming, alarmins and anxiety-like behavior, *Brain, Behavior, and Immunity* (2018), doi: <https://doi.org/10.1016/j.bbi.2018.05.020>

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.



Running head: *M. vaccae* attenuates effects of stress

**Immunization with *Mycobacterium vaccae* induces an anti-inflammatory milieu in the CNS: attenuation of stress-induced microglial priming, alarmins and anxiety-like behavior**

Matthew G. Frank<sup>\*1,2</sup>, Laura K. Fonken<sup>1,2</sup>, Samuel D. Dolzani<sup>1,2</sup>, Jessica L. Annis<sup>1,2</sup>,  
Philip H. Siebler<sup>3</sup>, Dominic Schmidt<sup>3</sup>, Linda R. Watkins<sup>1,2</sup>, Steven F. Maier<sup>1,2</sup>,  
Christopher A. Lowry<sup>2,3,4,5,6,7</sup>

<sup>1</sup>Department of Psychology and Neuroscience, University of Colorado Boulder, Boulder, CO 80309, USA

<sup>2</sup>Center for Neuroscience, University of Colorado Boulder, Boulder, CO 80309, USA

<sup>3</sup>Department of Integrative Physiology, University of Colorado Boulder, Boulder, CO 80309, USA

<sup>4</sup>Department of Physical Medicine & Rehabilitation, University of Colorado Anschutz Medical Campus, Aurora, CO 80045, USA

<sup>5</sup>Center for Neuroscience, University of Colorado Anschutz Medical Campus, Aurora, CO 80045, USA

<sup>6</sup>Rocky Mountain Mental Illness Research Education and Clinical Center (MIRECC), Denver Veterans Affairs Medical Center (VAMC), Denver, CO 80220, USA

<sup>7</sup>Military and Veteran Microbiome Consortium for Research and Education (MVM-CoRE), Denver, CO 80220, USA

\* Corresponding Author:

Download English Version:

<https://daneshyari.com/en/article/8960747>

Download Persian Version:

<https://daneshyari.com/article/8960747>

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