

Accepted Manuscript

In utero exposure to fine particulate matter results in an altered neuroimmune phenotype in adult mice



Joshua A. Kulas, Jordan V. Hettwer, Mona Sohrabi, Justine E. Melvin, Gunjan D. Manocha, Kendra L. Puig, Matthew W. Gorr, Vineeta Tanwar, Michael P. McDonald, Loren E. Wold, Colin K. Combs

PII: S0269-7491(17)34290-2
DOI: 10.1016/j.envpol.2018.05.047
Reference: ENPO 11142
To appear in: *Environmental Pollution*
Received Date: 13 October 2017
Accepted Date: 15 May 2018

Please cite this article as: Joshua A. Kulas, Jordan V. Hettwer, Mona Sohrabi, Justine E. Melvin, Gunjan D. Manocha, Kendra L. Puig, Matthew W. Gorr, Vineeta Tanwar, Michael P. McDonald, Loren E. Wold, Colin K. Combs, In utero exposure to fine particulate matter results in an altered neuroimmune phenotype in adult mice, *Environmental Pollution* (2018), doi: 10.1016/j.envpol.2018.05.047

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.

1 **In utero exposure to fine particulate matter results in an altered neuroimmune phenotype**
2 **in adult mice**

3
4 Joshua A. Kulas¹, Jordan V. Hettwer¹, Mona Sohrabi¹, Justine E. Melvin¹, Gunjan D. Manocha¹,
5 Kendra L. Puig¹, Matthew W. Gorr², Vineeta Tanwar², Michael P. McDonald³, Loren E. Wold²,
6 Colin K. Combs¹

7
8 ¹Department of Biomedical Sciences, UND School of Medicine and Health Sciences, Grand
9 Forks, North Dakota, United States of America

10 ²Dorothy M. Davis Heart and Lung Research Institute and Department of Physiology and Cell
11 Biology, The Ohio State University College of Medicine, Columbus, Ohio, United States of
12 America; College of Nursing, The Ohio State University, Columbus, Ohio, United States of
13 America.

14 ³ Department of Neurology, The University of Tennessee Health Science Center, 855 Monroe
15 Avenue, Suite 415, Memphis, Tennessee, United States of America

16 **Correspondence:** Colin K. Combs, PhD, Professor, Department of Biomedical Sciences,
17 University of North Dakota School of Medicine and Health Sciences, Suite W315, 1301 North
18 Columbia Road Stop 9037, Grand Forks, ND, USA, 58202-9037, Phone: 701-777-4025, Fax:
19 701-777-2382, Email: colin.combs@med.und.edu

20
21 **Running Title:** *In utero* PM_{2.5} alters offspring immune phenotype

22 **Acknowledgements:** This publication was supported by NIH 5R01AG042819 and NIH
23 5R01ES019923.

24 **Declaration:** The authors declare that they have no competing financial interests.

Download English Version:

<https://daneshyari.com/en/article/8856040>

Download Persian Version:

<https://daneshyari.com/article/8856040>

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