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Microglia-mediated neuroprotection, TREM2 and Alzheimer's disease: Evidence from Optical Imaging

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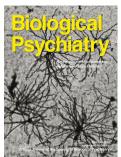
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Microglia-mediated neuroprotection, TREM2 and Alzheimer's disease: Evidence from Optical Imaging

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3 4 Carlo Condello^{1,2†}, Peng Yuan^{3†}, Jaime Grutzendler^{4,5‡} 5 6 7 ¹Institute for Neurodegenerative Diseases, Weill Institute for Neurosciences, University 8 of California, San Francisco, CA 94158, USA; ²Department of Neurology, University of 9 California, San Francisco, CA 94158, USA; ³Department of Biology, Stanford University, 10 Palo Alto, CA 94305, USA; Departments of ⁴Neurology and ⁵Neuroscience, Yale School 11 of Medicine, New Haven, Connecticut 06511, USA 12 13 14 [†]These authors contributed equally to this work. 15 16 [‡]To whom correspondence should be addressed: Dr. Jaime Grutzendler, Department of 17 Neurology, 300 George Street, Suite 8300G, New Haven, CT 06511; Tel: (203) 737-18 2765; e-mail: jaime.grutzendler@yale.edu 19 Short title: Microglia Neuroprotection and TREM2 in Alzheimer's 20 Key words: Microglia barrier; TREM2; axonal dystrophy; Alzheimer's disease; optical 21 imaging; neuroprotection 22 Abstract word count: 176 23 Total word count: 4,708 24 Figures: 3 25 Supplementary material: zero 26

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