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Presynaptic effects of NMDA receptors enhance parvalbumin cell-mediated inhibition of pyramidal cells in mouse prefrontal cortex

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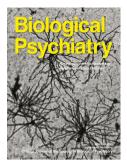
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1 Presynaptic effects of NMDA receptors enhance parvalbumin cell-mediated inhibition of 2 pyramidal cells in mouse prefrontal cortex 3 Diego E. Pafundo^{1,2}, Takeaki Miyamae¹, David A. Lewis¹ and Guillermo Gonzalez Burgos^{1,3} 4 5 1: Translational Neuroscience Program, Department of Psychiatry 2: Present address, Departamento de Fisiologia, IFIBIO-Houssay, Facultad de Medicina, 6 7 Universidad de Buenos Aires, Argentina 8 3: Corresponding Author: Translational Neuroscience Program, Department of Psychiatry, 9 University of Pittsburgh School of Medicine. W1647 Biomedical Science Tower, 200 Lothrop 10 Street, Pittsburgh PA 15261. gburgos@pitt.edu 11 12 Short title: Presynaptic NMDARs regulate PVBC-mediated inhibition 13 Abstract: 249 words Main text: 3996 words 14 Figures: 6 15 **Supplemental Figures: 2** 16 Tables: 0 17 **Supplemental Tables: 2** 18

Key words: parvalbumin; NMDA; inhibition; prefrontal cortex; basket cell; pyramidal neuron

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