Author's response to reviews

Title: GluN2B protein deficits in the left, but not the right, hippocampus in schizophrenia

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Author's response to reviews: see over
The Editor,

BMC Psychiatry

Dear Sir/Madam,

We would like to submit our manuscript for your consideration for publication as a Research Article in *BMC Psychiatry*.

The title of this manuscript is “GluN2B protein deficits in the left, but not the right, hippocampus in schizophrenia” by Amy E. Geddes, Xu-Feng Huang, and Kelly A. Newell.

This manuscript, for this first time, reports on GluN2B protein levels in the hippocampus in a cohort of 20 schizophrenia subjects and 20 matched controls. We report a large (43%) reduction in GluN2B protein levels in the hippocampus in schizophrenia that is specific to the left hemisphere, highlighting the hippocampal lateralization in schizophrenia. We suggest that this reduction in GluN2B is associated with cognitive dysfunctions observed in schizophrenia patients. Our findings provide support for the development of GluN2B positive modulators as a novel therapeutic strategy for cognitive symptoms in schizophrenia patients.

The work described is original, has not been previously published, and has not been submitted elsewhere for publication, in whole or in part.

All authors declare they have no conflict of interest.

Yours sincerely,

Kelly A. Newell, PhD