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August, 12, 2015

Dear Editor,

We wish to submit a new manuscript entitled "A quantitative study of network robustness in resting state fMRI in young and elder conditions" for consideration by the Neurobiology of Aging.

We confirm that this work is original and has not been published elsewhere nor is it currently under consideration for publication elsewhere.

In this paper, we report on resilience to both random and specific brain injuries in resting state fMRI connectivity networks in young and old adults. This is significant because it provides a quantitative method to study resting state network connectivity in normal aging with a potential to foster our understanding in pathological signatures in neurodegenerative disorders. The paper should be of interest to readers in the areas of neurobiology aging, functional magnetic resonance imaging and others.

The literature reviewed in our work suggests that graph-based networkanalyses are capable of uncovering system-level changes associated withaging in the resting brain. The paper follows a perturbational approach to quantify informational efficiency in both young and elder conditions, able to provide novel insights into the underlying physiological mechanisms involved in aging. Please address all correspondence concerning this manuscript to me at jd.gomezramirez@gmail.com.

Thank you for your consideration of this manuscript.

Sincerely,

Jaime Gomez Ramirez, PhD