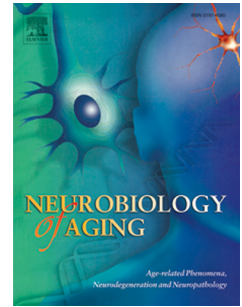


# Accepted Manuscript

Memory Improvement via Slow Oscillatory Stimulation during Sleep in Older Adults

Carmen E. Westerberg, Susan M. Florczak, Sandra Weintraub, M.-Marsel Mesulam,  
Lisa Marshall, Phyllis C. Zee, Ken A. Paller



PII: S0197-4580(15)00295-X

DOI: [10.1016/j.neurobiolaging.2015.05.014](https://doi.org/10.1016/j.neurobiolaging.2015.05.014)

Reference: NBA 9278

To appear in: *Neurobiology of Aging*

Received Date: 8 January 2015

Revised Date: 20 May 2015

Accepted Date: 22 May 2015

Please cite this article as: Westerberg, C.E., Florczak, S.M., Weintraub, S., Mesulam, M.-M., Marshall, L., Zee, P.C., Paller, K.A., Memory Improvement via Slow Oscillatory Stimulation during Sleep in Older Adults, *Neurobiology of Aging* (2015), doi: 10.1016/j.neurobiolaging.2015.05.014.

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.

Running title: Counteracting age-related sleep and memory decline

Memory Improvement via Slow Oscillatory Stimulation during Sleep in Older Adults

Carmen E. Westerberg<sup>a,b,c</sup>, Susan M. Florczak<sup>b,c</sup>, Sandra Weintraub<sup>c,d,e</sup>, M.-Marsel Mesulam<sup>c,d,f</sup>,  
Lisa Marshall<sup>g</sup>, Phyllis C. Zee<sup>c,f</sup>, & Ken A. Paller<sup>b,c</sup>

<sup>a</sup>Department of Psychology, Texas State University, San Marcos, TX 78666, USA; <sup>b</sup>Department of Psychology, <sup>c</sup>Interdepartmental Neuroscience Program, Northwestern University, Evanston, IL 60208, USA; <sup>d</sup>Cognitive Neurology and Alzheimer's Disease Center, <sup>e</sup>Department of Psychiatry and Behavioral Sciences, <sup>f</sup>Department of Neurology, Feinberg School of Medicine, Northwestern University, Chicago, IL 60611, USA; <sup>g</sup>Institute of Experimental and Clinical Pharmacology and Toxicology, University of Lübeck, 23562, Germany

Corresponding Author:  
Carmen E. Westerberg  
Department of Psychology  
Texas State University  
601 University Drive  
San Marcos, TX 78666

Phone: 512-245-3152  
Fax: 512-245-3153  
Email: cw54@txstate.edu

Download English Version:

<https://daneshyari.com/en/article/6803958>

Download Persian Version:

<https://daneshyari.com/article/6803958>

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