

Accepted Manuscript

EEG correlates of visual short-term memory in older age vary with adult lifespan cognitive development

Iris Wiegand, Martin J. Lauritzen, Merete Osler, Erik Lykke Mortensen, Egill Rostrup, Lene Rask, Nelly Richard, Anna Horwitz, Krisztina Benedek, Signe Vangkilde, Anders Petersen

PII: S0197-4580(17)30357-3

DOI: [10.1016/j.neurobiolaging.2017.10.018](https://doi.org/10.1016/j.neurobiolaging.2017.10.018)

Reference: NBA 10074

To appear in: *Neurobiology of Aging*

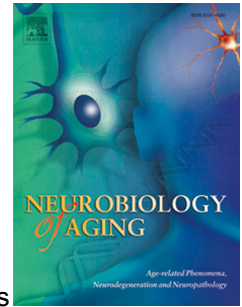
Received Date: 16 January 2017

Revised Date: 16 October 2017

Accepted Date: 21 October 2017

Please cite this article as: Wiegand, I., Lauritzen, M.J., Osler, M., Mortensen, E.L., Rostrup, E., Rask, L., Richard, N., Horwitz, A., Benedek, K., Vangkilde, S., Petersen, A., EEG correlates of visual short-term memory in older age vary with adult lifespan cognitive development, *Neurobiology of Aging* (2017), doi: [10.1016/j.neurobiolaging.2017.10.018](https://doi.org/10.1016/j.neurobiolaging.2017.10.018).

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.



EEG correlates of visual short-term memory in older age vary with adult lifespan cognitive development

Iris Wiegand^{1a,b,c}, Martin J. Lauritzen^{1,d,e,f}, Merete Osler^{f,g}, Erik Lykke Mortensen^{d,h}, Egill Rostrup^{d,i}, Lene Rask^{d,e,f}, Nelly Richard^{d,e,f}, Anna Horwitz^{d,e,f}, Krisztina Benedek^e, Signe Vangkilde^{2a}, Anders Petersen^{2a}.

^a Center for Visual Cognition, Department of Psychology, University of Copenhagen, Denmark

^b Max Planck UCL Centre for Computational Psychiatry and Ageing Research

^c Center for Lifespan Psychology, Max Planck Institute for Human Development, Germany

^d Center for Healthy Aging, University of Copenhagen, Denmark

^e Department of Clinical Neurophysiology, Rigshospitalet - Glostrup, Denmark

^f Department of Neuroscience and Pharmacology, University of Copenhagen, Denmark

^g Research Center for Prevention and Health, Rigshospitalet

^h Department of Public Health, University of Copenhagen, Denmark

ⁱ Functional Imaging Unit, Department of Clinical Physiology, Nuclear Medicine and PET, Rigshospitalet - Glostrup, Denmark

¹ Corresponding authors:

Iris Wiegand, PhD

Email: wiegand@mpib-berlin.mpg.de

Present address: Max Planck Institute for Human Development, Lentzeallee 94, 14195 Berlin, Germany

Prof. Martin J. Lauritzen

Email: martin.johannes.lauritzen@regionh.dk

Address: Department of Clinical Neurophysiology, Rigshospitalet - Glostrup, Nordre Ringvej, 2600 Glostrup, Denmark

² These authors share the last authorship

Keywords: Lifespan Cognitive Development, Visual Short-term Memory, Contralateral Delay Activity, Electroencephalography, Healthy Aging

1

Abbreviations: ACE-R: Addenbrooke's Cognitive Examination–Revised; BPP: Børge Priens Prøve; CAMB: Copenhagen Aging and Midlife Biobank; CDA: Contralateral Delay Activity; CP: Central Positivity; EEG: Electroencephalography; ERP: Event-related potential; IST: Intelligenz-Struktur Test 2000 R; MMSE: Mini-mental State Examination; TVA: Theory of Visual Attention; vSTM: visual short-term memory

Download English Version:

<https://daneshyari.com/en/article/6803141>

Download Persian Version:

<https://daneshyari.com/article/6803141>

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