

Accepted Manuscript

Physiological neuronal decline in healthy aging human brain — An in vivo study with MRI and short echo-time whole-brain ^1H MR spectroscopic imaging

Xiao-Qi Ding, Andrew A. Maudsley, Mohammad Sabati, Sulaiman Sheriff, Birte Schmitz, Martin Schütze, Paul Bronzlik, Kai G. Kahl, Heinrich Lanfermann

PII: S1053-8119(16)30132-X
DOI: doi: [10.1016/j.neuroimage.2016.05.014](https://doi.org/10.1016/j.neuroimage.2016.05.014)
Reference: YNIMG 13171

To appear in: *NeuroImage*

Received date: 14 January 2016
Revised date: 28 April 2016
Accepted date: 4 May 2016



Please cite this article as: Ding, Xiao-Qi, Maudsley, Andrew A., Sabati, Mohammad, Sheriff, Sulaiman, Schmitz, Birte, Schütze, Martin, Bronzlik, Paul, Kahl, Kai G., Lanfermann, Heinrich, Physiological neuronal decline in healthy aging human brain — An in vivo study with MRI and short echo-time whole-brain ^1H MR spectroscopic imaging, *NeuroImage* (2016), doi: [10.1016/j.neuroimage.2016.05.014](https://doi.org/10.1016/j.neuroimage.2016.05.014)

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.

Physiological neuronal decline in healthy aging human brain – an in vivo study with MRI and short echo-time whole-brain ^1H MR spectroscopic imaging

Xiao-Qi Ding ^{a*}, Andrew A. Maudsley ^b, Mohammad Sabati ^{b,c}, Sulaiman Sheriff ^b, Birte Schmitz ^a, Martin Schütze ^a, Paul Bronzlik ^a, Kai G. Kahl ^d, Heinrich Lanfermann ^a

^a Institute of Diagnostic and Interventional Neuroradiology, Hannover Medical School, Hannover, Germany

^b Department of Radiology, University of Miami School of Medicine, Miami, FL, USA

^c Department of Radiology, Cumming School of Medicine, University of Calgary, Calgary, AB, Canada

^d Department of Psychiatry, Social Psychiatry and Psychotherapy, Hannover Medical School, Hannover, Germany

Grant support:

This work was partially supported by Deutsche Forschungsgemeinschaft and by NIH grant R01 EB016064 (A.A.M.).

Corresponding author:

Xiao-Qi Ding, Ph.D., M.D.

Institute of Diagnostic and Interventional Neuroradiology

Hannover Medical School, Carl-Neuberg-Str. 1

30625 Hannover, Germany

Tel.: 0049 511 532 3401, Fax: 0049 511 532 5876

Email: ding.xiaoqi@mh-hannover.de

Download English Version:

<https://daneshyari.com/en/article/6023261>

Download Persian Version:

<https://daneshyari.com/article/6023261>

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