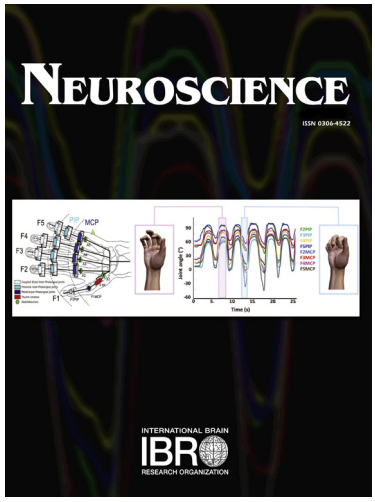
Accepted Manuscript



Longitudinal diffusion tensor imaging revealed nerve fiber alterations in *Aspm* mutated microcephaly model mice

Hiroshi Ogi, Nobuhiro Nitta, So Tando, Akira Fujimori, Ichio Aoki, Shinji Fushiki, Kyoko Itoh

PII: S0306-4522(17)30884-9
DOI: https://doi.org/10.1016/j.neuroscience.2017.12.012
Reference: NSC 18182

To appear in: *Neuroscience*

Received Date: 28 August 2017
Accepted Date: 7 December 2017

Please cite this article as: H. Ogi, N. Nitta, S. Tando, A. Fujimori, I. Aoki, S. Fushiki, K. Itoh, Longitudinal diffusion tensor imaging revealed nerve fiber alterations in *Aspm* mutated microcephaly model mice, *Neuroscience* (2017), doi: https://doi.org/10.1016/j.neuroscience.2017.12.012

Longitudinal diffusion tensor imaging revealed nerve fiber alterations in *Aspm* mutated microcephaly model mice

Hiroshi Ogi[a], Nobuhiro Nitta[b,c], So Tando[a], Akira Fujimori[d], Ichio Aoki[b,c], Shinji Fushiki[e] and Kyoko Itoh[a]*

[a]Department of Pathology and Applied Neurobiology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine (KPUM), Kyoto, 602-8566, Japan

[b]Department of Molecular Imaging and Theranostics, National Institute of Radiological Sciences (NIRS), National Institutes for Quantum and Radiological Science and Technology (QST), Chiba, 263-8555, Japan

[c]Quantum-state Controlled MRI Group, National Institutes for Quantum and Radiological Science and Technology (QST), Chiba, 263-8555, Japan

[d]Department of Basic Medical Sciences for Radiation Damages, National Institute of Radiological Sciences (NIRS), National Institutes for Quantum and Radiological Science and Technology (QST), Chiba, 263-8555, Japan

[e]The Center for Quality Assurance in Research and Development, Kyoto Prefectural University of Medicine, Kyoto, 602-8566, Japan

*** Corresponding author:**

Kyoko ITOH, M.D., Ph.D.

Department of Pathology and Applied Neurobiology**,** Graduate School of Medical Science, Kyoto Prefectural University of Medicine**,**

465 Kajii-cho, Kawaramachi-Hirokoji, Kamigyo-ku, Kyoto, 602-8566 Japan.

Fax number: +81-75-251-5849.

Telephone number: +81-75-251-5849.

E-mail: kxi14@koto.kpu-m.ac.jp