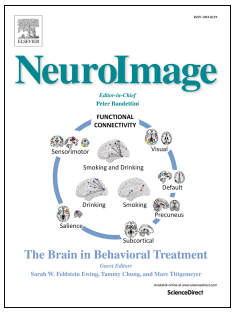
# Accepted Manuscript




A transferable high-intensity intermittent exercise improves executive performance in association with dorsolateral prefrontal activation in young adults

Sylwester Kujach, Kyeongho Byun, Kazuki Hyodo, Kazuya Suwabe, Takemune Fukuie, Radoslaw Laskowski, Ippeita Dan, Hideaki Soya

PII: S1053-8119(17)31017-0

DOI: 10.1016/j.neuroimage.2017.12.003

Reference: YNIMG 14518

To appear in: *NeuroImage*

Received Date: 8 September 2017

Revised Date: 22 November 2017

Accepted Date: 1 December 2017

Please cite this article as: Kujach, S., Byun, K., Hyodo, K., Suwabe, K., Fukuie, T., Laskowski, R., Dan, I., Soya, H., A transferable high-intensity intermittent exercise improves executive performance in association with dorsolateral prefrontal activation in young adults, *NeuroImage* (2018), doi: 10.1016/j.neuroimage.2017.12.003.

# A transferable high-intensity intermittent exercise improves executive performance in association with dorsolateral prefrontal activation in young adults

Sylwester Kujach[1, 3, a], Kyeongho Byun[2, a], Kazuki Hyodo[1], Kazuya Suwabe[2], Takemune Fukuie[1], Radoslaw Laskowski[1, 2, 3], Ippeita Dan[4], Hideaki Soya[1, 2, b]

[1] Laboratory of Exercise Biochemistry and Neuroendocrinology; [2] Department of Sports Neuroscience, Advanced Research Initiative for Human High Performance (ARIHHP), Faculty of Health and Sports Sciences, University of Tsukuba, Ibaraki, Japan

[3] Department of Physiology, Gdansk University of Physical Education and Sport, Gdansk, Poland

[4] Applied Cognitive Neuroscience Lab, Research and Development Initiatives, Chuo University, Tokyo, Japan

[a] S.K. and K.B. contributed equally to this work.

[b] Corresponding author:

**Hideaki Soya, Ph. D.**
Laboratory of Exercise Biochemistry and Neuroendocrinology; Advanced Research Initiative for Human High Performance (ARHHP), Faculty of Sports and Health and Sports Sciences, University of Tsukuba, 1-1-1 Tennodai, Tsukuba 305-8574, Japan
Tel/Fax: +81-29-853-2620
E-mail: soya.hideaki.gt@u.tsukuba.ac.jp