

Global Initiative for Sports Neuroscience 2017

For Development of Exercise Prescription Enhancing Cognitive Functions

27th of February, 2017

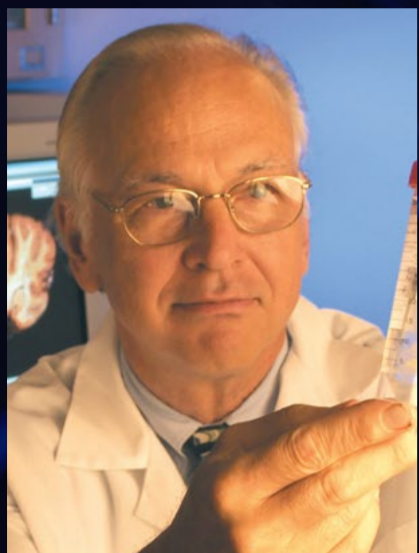
09:00 - 16:20

216 Room at 5C Bldg.

University of Tsukuba



Keynote Lecture I



Exercise and Neuroscience: Exercise Builds Brain Health

Carl W. Cotman, Ph.D.
University of California, Irvine

Keynote Lecture II

Brain glucose handling and insulin peptides

Ignacio Torres Aleman, Ph.D.
The Cajal Institute



Global Collaboration I University of California, Irvine

Exercise Medicine & Sports Sciences Initiative of UCI

James W. Hicks, Ph.D.
University of California, Irvine

Mechanisms of episodic memory and modifiable biomarkers for age related cognitive changes

Michael A Yassa, Ph.D.
University of California, Irvine · University of Tsukuba

Acute mild exercise improves mnemonic discrimination in young adults

Kazuya Suwabe, M.S.
University of Tsukuba

Acute mild exercise improves mnemonic discrimination performance by increased pattern separation-related DG/CA3 connectivity in young adults

Kyeongho Byun, Ph.D.
University of Tsukuba · University of California, Irvine

Global Collaboration II The Cajal Institute

Dopamine D2 receptor-mediated astrocytic glycogenolysis in the exercising hippocampus

Takashi Matsui, Ph.D.
University of Tsukuba · The Cajal Institute

Global Collaboration III The Rockefeller University

Importance of glutamate allostasis for the beneficial exercise effects upon depression and memory

Masahiro Okamoto, Ph.D.
University of Tsukuba · The Rockefeller University

Future Collaborations

The cognitive and neural effects of a 20-week dance-based exercise program on elderly Africans at high risk for Alzheimer's disease

Mark A. Gluck, Ph.D.
Rutgers University-Newark, USA

Neuroprotective potential of physical exercise in Alzheimer disease models: role of adult neurogenesis

María Llorens-Martín, Ph.D.
Universidad Autónoma de Madrid, Spain

Synergistic enhancing effects of mild exercise with Astaxanthin supplements on hippocampus-based cognitive functions

Jang Soo Yook, Ph.D.
University of Tsukuba

Future Prospects in Sports Neuroscience

Potential exercise regimen that improves endurance, cognition and motivation

Hideaki Soya, Ph.D.
University of Tsukuba



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