

# ASHBi SEMINAR

Physiological and genetic approaches to identify primate cortico-basal ganglia structures generating anxiety

**Dr. Ken-ichi Amemori**

Program-Specific Associate Professor, Hakubi Center for  
Advanced Research and Primate Research Institute, Kyoto University

**Date:** Friday, 24<sup>th</sup> January 2020

**Time:** 16:00–17:00

**Venue:** Seminar Room, Ground Floor, Faculty of Medicine Bldg. B

A fundamental goal of psychiatry is to control mood and anxiety in humans. Despite its importance, we have not yet elucidated the brain mechanism of mood and anxiety disorders. It is thus critical to systematically study the causal role of the emotional circuit in the non-human primates (NHPs), whose brain structures are homologous to humans. We introduced an approach-avoidance conflict task to elicit anxiety-like behavior and identified a cortico-striatal circuitry that causally generates anxiety states by combining multiple physiological methods. We will further employ cutting-edge genetic techniques and functional imaging to approach the structural basis of “anxiety circuitry” in NHPs and humans.

**Organizer:** Prof. Tadashi Isa

[E-mail] isa.tadashi.7u@kyoto-u.ac.jp [Tel] 075-753-4351

Hosted by Institute for the Advanced Study of Human Biology (WPI-ASHBi)

