

ASHBi / HBRC JOINT SEMINAR

Resolving Brain Structure, Function and Connectivity in Human and Non-human Primates

Lecturer: **Takuya Hayashi M.D., Ph.D.**

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Date **Friday, 21 February 2025**

Time **17:00 – 18:00 [JST]**

Venue **Conference Room
(B1F, Faculty of Medicine Bldg.B)**

Language **English**

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Abstract

The human brain's remarkable capacity for skilled motor behavior, complex cognition, and creativity emerges from its highly organized yet dynamic structure. Despite advances in neuroscience, the mechanisms underlying this sophisticated organization remain poorly understood. Our research employs next-generation high-resolution magnetic resonance imaging (MRI) to assess whole-brain function in vivo through an evolutionary comparative approach. This presentation will focus on our recent findings regarding multimodal cortical microstructure, functions, social cognition and language/vocal processing across primate species, with implications for clinical applications.

Organizer : Human Brain Research Center
Institute for the Advanced Study of Human Biology (WPI-ASHBi)

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