

# ASHBi SEMINAR

**Comparative primate omics study:  
what kind of molecular signatures make us human?**

**Lecturer: Yasuhiro Go, Ph.D.**

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**Date** **Tuesday, 6 February 2024**

**Time** **15:00 – 16:00 [JST]**

**Venue** **Seminar Room**

**1F, Faculty of Medicine Bldg. B**

**\*Register via the right QR code**



## Abstract

To explore the fundamental question of "What is a human?" or "What makes us human?" we engage in comparative omics analysis using human and non-human primates from both "disease" and "evolutionary" perspectives. In the realm of disease research, we craft non-human primate models mirroring human neurodevelopmental disorders, delving into the intricacies of their brain transcriptomes. Within the evolutionary context, single-cell comparative transcriptome analysis was conducted using postmortem brains from humans and non-human apes (chimpanzees, gorillas, etc.); the latter are most closely related to humans. Beyond quantitative analysis with short-read sequence datasets, we also work on single-cell full-length expression analysis employing long-read sequences. Through these analyses, we aim to elucidate the neural underpinnings of "human-ness."

Organizer : Graduate School of Medicine

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

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