Keio University

WPI-Bio2Q
2nd Symposium

Integrating Biology, Microbiome and Quantum Computing for Healthy Longevity

Date
July 27, 2023 (Thursday)
9:30AM-5:50PM JST (UTC+9)

Venue
Hybrid (Onsite & Zoom Online) / Free Admission
Onsite: Keio University Shinanomachi Campus
Large Conference Room, 11th floor, Building 2
35 Shinanomachi, Shinjuku-ku, Tokyo 160-8582, Japan

Speakers (Alphabetical Order):

Gloria CHOI
MIT Department of Brain and Cognitive Sciences, USA

Sloan DEVLIN
Harvard Medical School, USA

Jun HUH
Harvard Medical School, USA

Erika SASAKI
CIEA Department of Marmoset Biology and Medicine, JAPAN

Toshiro SATO
Keio University School of Medicine, JAPAN

Haruhiko SIOMI
Keio University School of Medicine, JAPAN

Kunimichi SUZUKI
MRC Laboratory of Molecular Biology, Cambridge, UK

Shu TANAKA
Keio University Faculty of Science and Technology, JAPAN

Timur TUGANBAEV
Keio University School of Medicine, JAPAN

Mihoko YOSHINO
Keio University School of Medicine, JAPAN

*Symposium content is subject to change.*
Integrating Biology, Microbiome and Quantum Computing for Healthy Longevity

DATE: July 27, 2023, 9:30 AM-5:50 PM (Japan Standard Time)
ONSITE: Large Conference Room, 11th floor, Building 2 Shinanomachi Campus, Keio University, 35 Shinanomachi, Shinjuku-ku, Tokyo, Japan
ONLINE: Zoom
CONTACT: Keio University WPI-Bio2Q Office bio2q@info.keio.ac.jp +81-(0)3-6709-8106
LANGUAGE: The symposium will be held in English.
ADMISSION: Free
REGISTRATION: CLICK or SCAN the QR code. CLICK or SCAN to register.

9:30 AM-9:40 AM Opening Remarks
Ryosuke TAKAHASHI / Program Officer, WPI-Bio2Q (online)
Kenya HONDA /Center Director of Bio2Q / Keio University School of Medicine

9:40 AM-12:40 PM
chaired by Kenya HONDA
① Jun HUH / Harvard Medical School, USA
Unexpected Roles of the Gut Microbiome and the Host Immune System in Controlling Animal Behaviors
② Timur TUGANBAEV / Keio University School of Medicine, Japan
Microbiome-Empowered Drug Efficacy Optimization
③ Sloan DEVLIN / Harvard Medical School, USA
Host-Produced, Bacterially Modified Gut Metabolites
[Short Break]

chaired by Koji ATARASHI
④ Mihoko YOSHINO / Keio University School of Medicine, Japan
Effects of Diet versus Gastric Bypass on Metabolic Function in Diabetes
⑤ Haruhiko SIOMI / Keio University School of Medicine, Japan
Development of Preimplantation Embryos Requires Transposon Expression
⑥ Toshiro SATO / Keio University School of Medicine, Japan
Understanding of Human Disease Biology using Organoids

12:40 PM-2:00 PM [Lunch Break]

2:00 PM-3:00 PM
One-on-One Networking, Meet the Speakers ①②③④⑤⑥;

3:00 PM-5:00 PM
chaired by Michisuke YUZAKI
⑦ Gloria CHOI / MIT Department of Brain and Cognitive Sciences, USA
Neuroimmune Interactions Shaping Social Behavior
⑧ Kunimichi SUZUKI / MRC Laboratory of Molecular Biology, Cambridge, UK
Structure-Guided Control of the Connectivity
[Short Break]

chaired by Hideaki KAWAGUCHI
⑨ Erika SASAKI / CIEA Department of Marmoset Biology and Medicine, Japan
A Non-Human Primate Model for Understanding Mechanisms of Healthy Longevity
⑩ Shu TANAKA / Keio University Faculty of Science and Technology, Japan
Quantum Annealing: Current Status and Future Challenges

5:00 PM-5:10 PM Closing Remarks
Takanori KANAI / Dean, Keio University School of Medicine, Japan
Ottea SAMPETREAN / Administrative director of Bio2Q /Keio University School of Medicine, Japan

5:10 PM-5:50 PM
One-on-One Networking, Meet the Speakers ⑦⑧⑨⑩