Keio University WPI-Bio2Q 2nd Symposium

Integrating Biology, Microbiome and Quantum Computing for Healthy Longevity



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



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

Language : English

Speakers (Alphabetical Order) :

Gloria CHOI MIT Department of Brain and Congnitive Sciences, USA

Sloan DEVLIN Harvard Medical School, USA

Jun HUH Harvard Medical School, USA

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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.

Human Biology Microbiome Quantum **Research Center**

WPI Research Center Keio University



Organizer: Keio University Bio2Q Office Contact: bio2q@info.keio.ac.jp Website: https://www.bio2q.keio.ac.jp







Keio University WPI-Bio2Q 2nd Symposium



Integrating Biology, Microbiome and Quantum Computing for Healthy Longevity

DATE: ONSITE:	July 27, 2023, 9:30 AM-5:50 PM (Japan Standard Time) 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

- **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

Mihoko YOSHINO / Keio University School of Medicine, Japan Effects of Diet versus Gastric Bypass on Metabolic Function in Diabetes

- Haruhiko SIOMI / Keio University School of Medicine, Japan Development of Preimplantation Embryos Requires Transposon Expression
- O 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 120456;

3:00 PM-5:00 PM

chaired by Michisuke YUZAKI

Gloria CHOI / MIT Department of Brain and Cognitive Sciences, USA Neuroimmune Interactions Shaping Social Behavior

Structure-Guided Control of the Connectivity
Output: Control of the Connectivity

[Short Break]

chaired by Hideaki KAWAGUCHI

 Erika SASAKI / CIEA Department of Marmoset Biology and Medicine, Japan A Non-Human Primate Model for Understanding Mechanisms of Healthy Longevity
 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 Oltea SAMPETREAN / Administrative director of Bio2Q /Keio University School of Medicine, Japan

5:10 PM-5:50 PM

One-on-One Networking, Meet the Speakers **Ø390**

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