

Agenda

Dates: July 17th, 2025

Venue: Research Center for Advanced Science and Technology,
the University of Tokyo RCAST building 4, lecture hall

9:30 - 9:50

Registration

9:50 - 10:00

Takayuki Oka

Nanon Technologies Japan

Opening Remarks

10:00 - 10:30

Dr. Shutaro Katsurabayashi

Faculty of Pharmaceutical Sciences, Fukuoka University

Environmental Factors Influencing Synaptic Transmission:
A Glial Perspective

10:30 - 11:00

Dr. Tomoya Kubota

**Division of Health Sciences, The University of Osaka Graduate
School of Medicine**

The functional analysis of the mutant channels associated with
neuromuscular channelopathies

11:00 - 11:15

Coffee Break

11:15 - 11:45

Dr. Hideaki Kato

**Research Center for Advanced Science and Technology,
The University of Tokyo**

High-throughput engineering of optogenetics tools

11:45 - 12:15

Dr. Alexandre SANTINHO

Oria Bioscience

Next-generation organelle preparations enable high-through-
put electrophysiology studies of intracellular membrane
proteins.

12:15 - 13:30

Lunch break / Nanion KK Tokyo Lab Tour (Optional)

13:30 - 14:00

Dr. Chai-Ann Ng

Victor Chang Cardiac Research Institute

APC for enhanced variant classification and penetrance
stratification for SCN5A-related Brugada Syndrome

14:00 - 14:30

Dr. Yuichiro Miyaoka

**Regenerative Medicine Project, Tokyo Metropolitan Institute
of Medical Science**

Establishment of tetraploid iPS cells and its application to
cardiomyocyte differentiation

14:30 - 14:45

Coffee break

14:45 - 15:15

Dr. Will Seibertz

Nanon Technologies GmbH

Uncovering atrial fibrillation mechanisms with high-throughput
electrophysiological techniques

15:15 - 15:45

Dr. Shin Hamamoto

Synthetic Biology Laboratory, The University of Tokyo

Electrophysiological measurement of ion transport proteins in
microbial and organelle membranes and utilization as
heterologous expression system

15:45 - 16:00

Coffee break

16:00 - 16:30

Dr. Takeshi Akiyoshi

Faculty of Pharmacy/School of Medicine, Keio University

Determination of Intrinsic Clearance Per Transporter Molecule
for Plasma Membrane Transporters

16:30 - 17:00

Martin Ziller

Nanon Technologies GmbH

Impedance-based cellular profiling: A High-Resolution Window
into Cellular Behavior and Drug Response

17:00 - 17:10

Closing Remarks

17:30

Dinner hosted by Nanion Technologies Japan