

*The University of Tokyo Research Institute  
for Biomedical Science and Engineering*  
Next Generation Biomedical Measurement  
Research Network Program

# The 5<sup>th</sup> INTERNATIONAL SYMPOSIUM

2024

March 30<sup>th</sup>

(Sat) 13:00 – 17:00

Ito Hall

Venue : Ito Hall (Ito International Research Center, Hongo Campus)

Language : English / Japanese (simultaneous interpretation)

Symposium Fees : Free

Registration : QR code, Website “[biomse utokyo](https://biomse.utokyo.ac.jp)”

Enter

※ On-demand delivery will be available later.



Registration



On-demand  
Viewing

【BioMSE Symposium Secretariat】 Tel : 03-5841-0892, 0975 / E-mail : [biomse@coi.t.u-tokyo.ac.jp](mailto:biomse@coi.t.u-tokyo.ac.jp)

【Organizer】 The University of Tokyo Research Institute for Biomedical Science and Engineering (BioMSE)

【Support】 The World-leading Innovative Graduate Study Program for Life Science and Technology (WINGS-LST)

# Program

- 13:00 – 13:05 **Opening Remarks : Nobuhito Saito** (Executive Vice President)  
13:05 – 13:10 **Greeting : Masaomi Nangaku** (Dean of Graduate School of Medicine)  
13:10 – 13:15 **Greeting : Yasuhiro Kato** (Dean of Graduate School of Engineering)  
13:15 – 13:25 **Overview : Ichiro Sakuma** (Biomedical Science and Engineering · Director)

Program 1

- 13:25 – 13:55 **“Tissue Biomechanics and Translational Biomechanics for Patient-Specific Therapies”**

**Chui Chee Kong** (National university of Singapore · Associate Professor)

He is an Associate Professor in the Control and Mechatronics Division, Department of Mechanical Engineering, National University of Singapore, Singapore. His research group focuses on medical devices, robotics, imaging, and simulations. He also participates in several non-medical-related projects, including the automation of drug development and intelligent thermal control.



Program 2

- 13:55 – 14:25 **“Novel modifiable endocrine and metabolic predictors of type 2 diabetes and cardiovascular disease”**

**Olle Melander** (Lund University · Professor)

Olle Melander is professor and chair of Internal Medicine at Lund University, Sweden, since 2010 and specialist of Internal Medicine and senior consultant at Department of Internal Medicine at Skåne University Hospital, Malmö, Sweden. He has been main tutor for 20 completed PhD projects. His research is on prevention of type 2 diabetes and cardiovascular disease and his specialty is identification of metabolic and hormonal disturbances which can be traced and modified long before disease onset. He is author of 736 articles with 82075 citations and a h-index of 116 (Scopus).



14:25 – 14:35 – Break Time –

Program 3

- 14:35 – 15:05 **“Gut microbiota in cardiometabolic diseases – evidence from large human cohorts”**

**Marju Orho-Melander** (Lund University · Professor)

Marju Orho-Melander is professor of genetic epidemiology at the Department of Clinical Sciences in Malmö, Lund University, since 2010. She has MSc in biochemistry from Helsinki University 1995 and PhD in experimental endocrinology from Lund University 1999. Her main research interest is on prediction and prevention of cardiometabolic diseases with focus on the role of diet, the gut microbiome and human genetic variation in cardiometabolic diseases utilizing large population cohorts. She is author of 313 articles with 33324 citations and an h-index of 81 (Scopus).



Program 4

- 15:05 – 15:20 **“Technology development for diagnoses of the air way stenosis by the respiratory sound of a analysis technique”**

**Shinichi Tokuno** (Graduate School of Engineering · Project Professor)

Program 5

- 15:20 – 15:35 **“Development of a pancreatic fracture characteristic measurement system towards the automatic stapler device to prevent pancreatic leakage”**

**Etsuko Kobayashi** (Graduate School of Engineering · Professor)

Program 6

- 15:35 – 15:50 **“Development of objective and quantitative assessment tool for chronic musculoskeletal pain using non-contact methods in the “new normal” society”**

**Noriko Yoshimura** (The University of Tokyo Hospital · Project Professor)

15:50 – 16:00 – Break Time –

Program 7

- 16:00 – 16:30 **“Prospects for digital bioassay 2.0”**

**Hiroyuki Noji** (Graduate School of Engineering · Professor)

16:30 – 16:55 **Q&A**

16:55 – 17:00 **Closing Remarks : Minoru Ono** (Biomedical Science and Engineering · Vice Director)