

## **Microbiome workshop**

Nov. 11 Thursday, Workshop 1B, 10:00 – 12:30

### Description

This panel draws together a diverse group of speakers whose presentations are set within a variety of microbiome research. The different topics to be addressed will cover the microbiome research related up-to-date topics, technical advices on microbiome research, including how to start and plan a microbiome twin study and what equipments are necessary for data collection.

### Co-Chairs:

Guest Ass. Prof. Chika Honda

Guest A/Professor, Osaka University Center for Twin Research

Guest A/Professor, Shiga University of Medical Science

### o Short Bio

Chika Honda is Guest Assistant Professor at Center for Twin Research, Osaka University and has been engaged in expanding Osaka University Twin Registry for the last decade.

She has developed various twin research projects inside and outside Japan, and her research interests includes microbiome, osteoporosis and other diseases linked with ones lifestyle.

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David Laszlo Tarnoki, MD, PhD

Medical Imaging Centre, Semmelweis University, Budapest



Program:

10.00-10.30am

Dr. Jun Kunisawa (Osaka, Japan): Microbiome and health: current topics

10.30-11.00am

Andrei-Florin Baleanu and Dr Ruth Bowyer (UK): Microbiome analysis in twins: experiences, practical issues and statistical insights from the TwinsUK cohort

11.00-11.30am

Dr. Rie Tomizawa (Osaka, Japan): Microbiome twin research in Japan

11.30am-12.00pm:

Helga Szabo: Microbiome research: Hungarian experiences

12.00-12.30pm: Discussion

Speakers

**1. Prof. Dr. Jun Kunisawa**

Microbiome and health: current topics

Center for Vaccine and Adjuvant Research (CVAR), National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN)

Jun Kunisawa is Director of Center for Vaccine and Adjuvant Research (CVAR), National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN) and also serves as Adjunct Professor at Osaka University, Kobe University, The University of Tokyo, Hiroshima

University and Waseda University. His research has been focusing on the immune regulation by gut environment (e.g., diets and commensal bacteria) and its association with immune diseases and health. He is also doing translational research for the development of vaccines, medicines, and functional foods.

[kunisawa@nibiohn.go.jp](mailto:kunisawa@nibiohn.go.jp)



## 2. Andrei-Florin Baleanu and Dr Ruth Bowyer

Microbiome analysis in twins: experiences, practical issues and statistical insights from the TwinsUK cohort

workplace: Department of Twin Research and Genetic Epidemiology, King's College, London, UK

### Andrei-Florin Baleanu

Andrei is the Specialist Chief Technician who oversees microbiome sample collection, processing, storage, and many other things. He joined Twins UK 6 years ago as a lab technician and developed a career here, particularly working on the stool samples. He has a background in microbiology as jobs and a degree in Forensic Science.

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### Dr. Ruth Bowyer

Ruth is an interdisciplinary researcher and data scientist interested in how micro and macro ecosystems and processes interact with human health. Her background spans biological, environmental and ecological sciences, and she completed her PhD on environmental factors influencing the human gut microbiome in 2019. Her current interests particularly lie in ageing biology, multimorbidity and integrating geospatial questions into epidemiological studies. She currently works as a Research Associate at *King's College London* on COVID-19 related projects in *the Department of Twin Research and Genetic Epidemiology* and has explored how the twin structure can be utilised in understanding distal environmental influences on health. She believes a systemic consideration of forces shaping the environment and the health of ecosystems will better help us protect human health in the challenging years ahead (the OneHealth framework). Outside of research she is an avid (if not fast) runner and is particularly joyous when a dog gets on the tube.

ruth.c.bowyer@kcl.ac.uk



### **3. Dr. Rie Tomizawa, PhD**

Microbiome twin research in Japan

Osaka University Twin Registry, Osaka University, Japan

Rie Tomizawa, MS, is Lecturer at Graduate school of Nursing, Osaka City University, and also serve as Guest Lecturer at Center for Twin Research, Graduate School of Medicine, Osaka University. She has been in charge of managing the Osaka University Twin Registry, sampling, and research data preparation. Her recent work of gut microbiome research on twins is conducted in collaboration with Prof. Jun Kunizawa where they explore the value of the twin cohort on this subject.

r-tomizawa@sahs.med.osaka-u.ac.jp



#### **4. Helga Szabó, MD**

Microbiome research: Hungarian experiences

Medical Imaging Centre, Semmelweis University, Hungary

Dr. Helga Szabó is graduated as a Doctor of Medicine from the Faculty of General Medicine of Semmelweis University. She is currently researching as a PhD student at the Medical Imaging Centre, Semmelweis University, Budapest, Hungary. Her topic is the Association between Gut Microbiome and Carotid Atherosclerosis, which she has been researching with great enthusiasm for the fourth year in a row.

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