

# Next-Generation Supermicrosurgery Consortium

20th Virtual Conference

## The Future of Surgery

TUE, Nov 19, 2024, 18:00 - 20:00 (JST)



### 1. Opening speech

**The latest insights on super microsurgery 20**  
- Objective Evaluation of Lymphedema Using Bioimpedance -

**Isao Koshima, MD, PhD**

Professor and Center Chief,  
Department of Plastic and Reconstructive Surgery,  
International Center for Lymphedema,  
Hiroshima University Hospital

### 2. Invited Lecture

**Innovations and Democratization  
in Lymphedema Diagnosis**

**Shinsuke Akita, M.D., Ph.D.**

Associate Professor  
Department of Plastic, Reconstructive and Aesthetic Surgery,  
Chiba University Hospital

**Ryoma Ogawa, Ph.D. (Eng.)**

Japan Society for the Promotion of Science Research Fellowship for  
Young Scientists - Post Doctoral  
Special-appointed Assistant Professor in Mechanical Engineering  
Multiphase Flow and Visualization, Takei Lab, Graduate School of  
Engineering, Chiba University, Japan  
Entrepreneur in Residence (EIR) in Innovation management organization, Chiba University



### 3. Q&A, Panel Discussion

Panelist: Prof. Koshima, Associate Prof. Akita, Special-appointed Assistant Prof. Eng. Ogawa, Dr. Sachin India, Dr. Liu (China)  
We may also have additional special guests participating. Please look forward to it!

#### ■ Registration and Fees : <https://cpk.jp/reg/2>

Participation fees for organizations such as companies and public institutions are as follows: 15,000 yen per person, 28,000 yen for two people, and 40,000 yen for three people.

\* Special frequency ticket are also available. Please contact the secretariat.

\* Free for healthcare professionals, academia, and students (excluding adult students).

Seminar venue URL: <https://cpk.jp/s/2159>

Registration



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### Outline

The evolution of surgical treatment for lymphedema has been accompanied by advancements in various diagnostic and therapeutic devices that support super microsurgery, contributing to the improvement of the quality of life (QOL) for lymphedema patients. However, objective evaluation of lymphedema diagnosis and post-disease progression is still limited to a few medical institutions, and diagnostic criteria for treatment have not yet been widely shared among healthcare providers. The team at Chiba University, led by Dr. Akita, is working on the development of low-cost, minimally invasive diagnostic devices, taking into account past and present approaches to lymphedema diagnosis and treatment. As a condition for broader implementation in society, the goal is to create user-friendly devices that allow anyone, anywhere, to easily check the condition of swelling. In this lecture, we will present the latest developments in the devices currently under development, as well as our vision for the future.

President Isao Koshima (Professor of the department of Plastic and Reconstructive Surgery at Hiroshima University Hospital) of this research society will present the latest findings and global trends related to the invited lecture.

After the lecture, there will be a lively online panel discussion with the speakers.

We hope you will join us for this informative event!

### Supplementary Information [Career & Achievements]



#### Shinsuke Akita, M.D., Ph.D.

Associate Professor  
Department of Plastic, Reconstructive and Aesthetic Surgery,  
Chiba University Hospital

<Profile>

Associate Professor, Department of Plastic, Reconstructive and Aesthetic Surgery, Chiba University Hospital  
Lecturer, Center for Frontier Medical Engineering, Chiba University  
2002 Graduated from Chiba University School of Medicine  
2013 Completed doctoral studies at Chiba University Graduate School  
Councilor, Japan Society of Plastic and Reconstructive Surgery  
Board Member, Japanese Society of Lymphedema Surgery  
Board Member, Franco-Japonaise de Médecine



#### Ryoma Ogawa, Ph.D. Eng.

Japan Society for the Promotion of Science Research Fellowship for Young Scientists - Post Doctoral  
Special-appointed Assistant Professor in Mechanical Engineering Multiphase Flow and Visualization, Takei Lab, Graduate School of Engineering, Chiba University, Japan  
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Special-appointed Assistant Professor in Mechanical Engineering Multiphase Flow and Visualization, Takei Lab, Graduate School of Engineering, Chiba University, Japan  
Entrepreneur in Residence (EIR) in Innovation management organization, Chiba University  
2019 Graduated from the School of Engineering, Chiba University  
2019 Visiting Researcher at the University of Edinburgh, UK  
2022 Completed Master's Program at Chiba University Graduate School  
2023 Completed Doctoral Program at Chiba University Graduate School

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