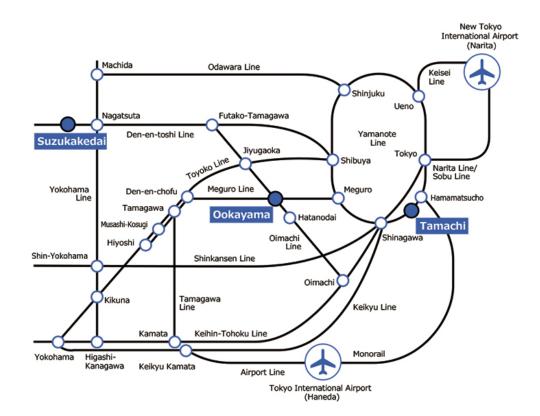
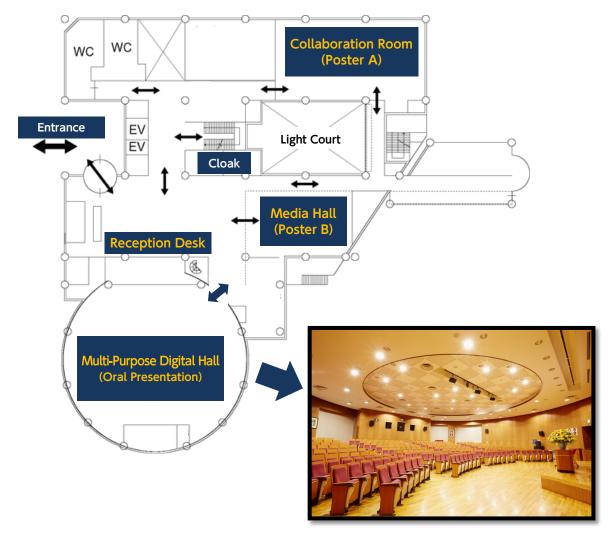


Access to Ookayama Campus, Tokyo

Location: 2-12-1 Ookayama, Meguro-ku, Tokyo, Japan (1 minute walk from the station) Nearest station: Ookayama Station on the Tokyu Oimachi and Tokyu Meguro Lines.



Oral Presentation: Multi-Purpose Digital Hall (West Bldg. 9, Floor 2) Poster Presentation: Collaboration Room & Media Hall (West Bldg. 9, Floor 2)



Networking: Communication Lounge (Cafeteria, Floor 2)

The 2nd International Symposium on Biomedical Engineering

Sponsored by Ministry of Education, Culture, Sports, Science and Technology (MEXT)

Organizers:

Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University Laboratory for Future Interdisciplinary Research of Science and Technology, Tokyo Institute of Technology Research Institute for Nanodevice and Bio Systems, Hiroshima University Research Institute of Electronics, Shizuoka University

Organizing Committee:

Yuji Miyahara, Tokyo Medical and Dental University Kohji Mitsubayashi, Tokyo Medical and Dental University Kenji Kawashima, Tokyo Medical and Dental University Fumio Koyama, Tokyo Institute of Technology Hideki Hosoda, Tokyo Institute of Technology Shin Yokoyama, Hiroshima University Hidenori Mimura, Shizuoka University Koji Mori, Shizuoka University

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Program at a Glance

November 9

- 13:00-13:20 Opening Session
- 13:20-14:45 Session A
- 14:45-16:15 Poster Session 1 and Coffee Break
- 16:25-18:05 Academic-Industrial Collaboration Session
- 18:15-20:00 Networking

November 10

- 10:00-11:25 Session B
- 11:25-13:15 Poster Session 2 and Lunch (Light meals will be served.)
- 13:25-14:50 Session C
- 14:50-15:10 Coffee Break
- 15:10-16:35 Session D
- 16:35-16:50 Closing Session

Program

November 9 -

Opening Ses	sion Chair: Fumio Koyama, Tokyo Institute of Technology						
13:00-13:05	Opening Remarks: Yoshinao Mishima, President, Tokyo Institute of Technology						
13:05-13:10	Greeting: Tomonori Nishii, Director, Scientific Research Institutes Division, Research Promotion Bureau, MEXT						
13:10-13:20	Introduction of Research Center for Biomedical Engineering: Yuji Miyahara, Tokyo Medical and Dental University						
Session A	Chair: Masato Sone, Tokyo Institute of Technology						
13:20-14:00	Etienne Burdet, Imperial College London (Invited) "Human-robot Interaction Control Framework for Neurorehabilitation"						
14:00-14:15	Yasuharu Koike, Tokyo Institute of Technology "Neurorehabilitation with Brain-machine Interface"						
14:15-14:30	Joon-wan KIM, Tokyo Institute of Technology "Micro/nano Patterning for Biomaterial Controlled by Electrostatic Force"						
14:30-14:45	Hiroyasu Kanetaka, Tohoku University "Biomedical Engineering Investigation for Medical Application of Nickel-free Shape Memory and Super Elastic Alloy"						
14:45-16:15	Poster Session 1 and Coffee Break						
Academic-Industrial Collaboration Session							
	Chair: Tadahiko Shinshi, Tokyo Institute of Technology						
16:25-16:50	Takashi Yamane, Kobe University (Invited) "Development and Evaluation of Mechanical Circulatory Support Devices"						
16:50-17:15	Akihiro Miyauchi, Hitachi Ltd. (Invited) "Formation of Surface Structure by Nanoimprint and Biomimetics"						
17:15-17:40	Masayuki Tsuji, Cadence Design Systems (Invited) "Real-time Processing of Computer-Aided Diagnosis System for Colorectal Tumor Classification in NBI Endoscopy Using CNN Features by Implementing to Tensilica Vision P6 DSP"						
17:40-18:05	Akifumi Koike, ANSeeN Inc. (Invited) "Material Identification CT Using X-ray Attenuation Length Detection Line Sensor"						
Networking	Chair: Takeshi Hatsuzawa, Tokyo Institute of Technology						

18:15-20:00

November 10 ------

Session B	Chair: Kenji Kawashima, Tokyo Medical and Dental University						
10:00-10:40	Wim E. Hennink, Utrecht University (Invited) "Nanogels for the Intracellular Delivery of Proteins for Cancer Treatment"						
10:40-10:55	Yoshikazu Nakajima, Tokyo Medical and Dental University "Integration of Sensing, Simulation and AI Analysis in Medicine"						
10:55-11:10	Koji Toma, Tokyo Medical and Dental University "Reusable Immunosensors Allowing Semi-continuous Measurement for Clinical and Environmental Medicine"						
11:10-11:25	Horacio Cabral, The University of Tokyo "Ligand Strategies for Tumor-targeted Nanomedicine"						
11:25-13:15	Poster Session 2 & Lunch						
Session C	Chair: Takamaro Kikkawa, Hiroshima University						
13:25-14:05	Emily Porter, National University of Ireland, Galway (Invited) "Microwave Radar for Breast Cancer Detection: Progress and Looking Towards the Future"						
14:05-14:20	Shin Yokoyama, Hiroshima University "Biosensors Using Silicon Optical Resonators"						
14:20-14:35	Shin-Ichiro Kuroki, Hiroshima University "4H-SiC Self-aligned Gate MOSFETs and Logic Inverters for Harsh Environment Electronics"						
14:35-14:50	Takeshi Ohshima, National Institutes for Quantum and Radiological Science and Technology "Ultra-radiation-hardened Semiconductor Devices Using Silicon Carbide"						
14:50-15:10	Coffee Break						
Session D	Chair: Keiichiro Kagawa, Shizuoka University						
15:10-15:50	Zhongping Chen, University of California, Irvine (Invited) "Advances in Integrated Multimodality Intravascular Imaging for Assessing and Characterizing Atherosclerotic Plaques"						
15:50-16:05	Masahito Yamazaki, Shizuoka University "Mode of Action of Antimicrobial Peptides and Cell-penetrating Peptides — Single GUV Studies —"						
16:05-16:20	Wataru Inami, Shizuoka University "Electron beam addressable potentiometric sensor for nanoscale imaging of ion distribution"						
16:20-16:35	Keisuke Tominaga, Kobe University "Terahertz Spectroscopy and Theoretical Calculation on Biologically Important Molecules and Pharmaceutical Molecules"						
Closing Ses	sion Chair: Hideki Hosoda, Tokyo Institute of Technology						
16:35-16:50	Award Ceremony						

INSTRUCTIONS FOR POSTER PRESENTERS

- PREPARATION OF YOUR POSTERS

Posters must be printed and brought by presenters.

Sending posters to the organizer in advance cannot be accepted. Recommended poster size meets the DIN A0 format:

Height 118.9 cm and Width 84.1 cm

Maximum poster size must fit to the board dimensions (The poster board size is 90 cm in width).

- MOUNTING AND REMOVING YOUR POSTERS

Posters are displayed at the designated board with your poster numbers by the presenters. Locations are on the 2nd floor of the West Bldg. 9, Ookayama Campus, Tokyo Tech. The posters will be numbered and split between the two rooms: A and B.

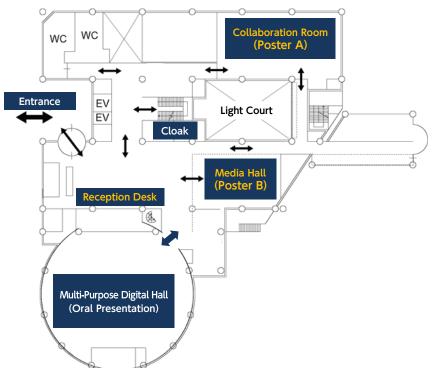
Posters must be pinned on the boards by using detachable pins. The poster boards and pins are provided by the organizer.

November 9

Location A is Collaboration Room: Poster Numbers from 9-A-1 to 9-A-44. Location B is Media Hall: Poster Numbers from 9-B-45 to 9-B-67.

November 10

Location A is Collaboration Room: Poster Numbers from 10-A-68 to 10-A-111 Location B is Media Hall: Poster Numbers from 10-B-112 to 10-B-135



November 9

The posters must be mounted by 12:00 (JST) and removed at 16:15-16:25.

November 10

The posters must be mounted by 9:00 (JST) and removed at 13:15-13:25.

Posters which are not picked up by required time will be removed and discarded by the organizer. Do not leave anything valuable at the poster areas. The organizer cannot be responsible for lost or stolen items.

- POSTER SESSION

The Poster Session 1 is held at 14:45-16:15 on Thursday, November 9, during Coffee Break. The Poster Session 2 is held at 11:25-13:15 on Friday, November 10, during Lunch Break.

Numbers stand for date, location and presenter number.

	date	-	location	-	presenter number
ex.	9	-	А	-	1
ex.	10	-	В	-	1