Program

November 25, 2022

Opening Sess	ion Chair: Yoshikazu Nakajima, Tokyo Medical and Dental University		
10:00~10:10	Opening Remarks: Yujiro Tanaka, President, Tokyo Medical and Dental University		
10:10~10:20	Greeting: Ichiro Kuronuma, Research Promotion Bureau, Ministry of Education,		
	Culture, Sports, Science and Technology (MEXT)		
10:20~10:30	-10:30 Introduction of Research Center for Biomedical Engineering		
	Hiroyuki Kagechika, Tokyo Medical and Dental University		

Session A	Chair: Tso-Fu Mark CHANG, Tokyo Institute of Technology		
10:30~11:00	Hsu,Yung-Jung, National Yang Ming Chiao Tung University		
	"Semiconductor Heterostructures for Photocatalytic Applications"		
11:00~11:30	Naohiro Sugita, Tokyo Institute of Technology		
	"Application of ultrasound cavitation and bubble dynamics in medical diagnosis and		
	treatment"		
11:30~12:00	Wei Qiu, Lund University		
	"Acoustophoresis – fundamentals and biomedical applications of ultrasound particle manipulation in microfluidics"		

12:00~13:00 Lunch Break

Session B	Chair: Hiroshi Inokawa, Shizuoka University	
13:00~13:30	Joao Seco, DKFZ German Cancer Research Center	
	"FLASH radiation therapy: a quantum leap in reducing radiation side effects"	
13:30~14:00	Mitsutoshi Setou Hamamatsu University School of Medicine	
	"Imaging mass spectrometry and its application to aging research"	
14:00~14:30	Yukari Nakano and Yasuo Terasawa, Nidek Co., Ltd.	
	"Recent progress in artificial vision research"	

SessionC	Chair: Shin-ichiro Kuroki, Hiroshima University	
14:30~15:00	Tetsuhiko Teshima, NTT Research Inc., Medical & Health Informatics Laboratories	
	"Transformative bioelectronic and biointerfaces"	
15:00∼ 15:30 Mikihito Kajiya, Hiroshima University		
	"New avenues for regenerative medicine opened by 3D cell clumps culture	
techniques and nanodevices."		
15:30~16:00	Ryo Miyake, The University of Tokyo	
	"Paper-based analysis chip and the applications"	

16:00~16:15 Break

Session D	Chair: Yoshikazu Nakajima, Tokyo Medical and Dental University
16:15~16:45	Carlos Escobeto, Queen's University
	"Magnetotactic Bacteria Behavior Studies in Microfluidic Environments
	with Clinically Relevant Stressors"
16:45~17:15	Takahiro Arakawa¹ and Kohji Mitsubayashi², ¹Tokyo University of Technology, ²
	Tokyo Medical and Dental University
	"Wearable biosensor and gas sensor for non-invasive monitoring of human
	metabolism"
17:15~17:45	Takeshi Hori, Tokyo Medical and Dental University
	"Microphysiological systems and 3D cell cultures for accelerating human placenta
	research."

Closing Session	Chair:	Yoshikazu Nakajima, Tokyo Medical and Dental University
17:45~17:50	Closing Remarks:	Akinobu Teramoto, Hiroshima University