Part **75**

Graduate School Seminar

第75回 大学院医歯学総合研究科 大学院セミナー 医歯理工学専攻、医歯理工保健学専攻科目「医歯理工学先端研究特論」【031003】 医歯学系専攻、医歯学専攻科目「医歯学総合特論」【041003】 生命理工学系専攻科目「生命理工学先端研究特論」【036009】 生命理工医療科学専攻科目「生命理工医療科学先端研究特論」【0364001】

生体医歯工学共同研究拠点第7回国際シンポジウム

The 7th International Symposium on Biomedical Engineering (ISBE2022)

日時:2022年11月25日(金)10:00~17:50

講演形式:オンラインとオンデマンド

事前登録先:https://rcbe-report.org/isbe2022/registration/ 上記 URL より参加申し込みをお願いいたします (大学院セミナーのプルダウン

メニューで "Yes" を選択してください)

登録締め切り日:2022年11月18日(金)

Program

November 25, 2022

Opening Session 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 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	Woi Oiu Lund University

11:30~12:00 Wei Qiu, Lund University

"Acoustophoresis - fundamentals and biomedical applications of ultrasound particle

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"

Session C	Chair: Suguru Kameda, 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"

 $16:45\sim17:15$ 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"

 $17:15{\sim}17:45$ 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