



Facilitating Collaboration in Biomedical Engineering Research

The 4th KAIST-KU
Workshop and Joint Symposium

February 22nd (Mon.), 2021

10:00-17:15

Hybrid Symposium via Zoom and at sites
Kumamoto University (IRCMS, IROAST) and
KAIST

Speakers

Akio KOBAYASHI

Jessie Sungyun JEON

Shinichiro SAWA

Daisuke KUROTAKI

Jong-Eun PARK

Tokio TANI

Jinkuk KIM

Pilhan KIM

Hidenobu MIZUNO

Won-Il JEONG

Masashi MURAMATSU

Ji Eun OH

Kei-ichiro ISHIGURO

Takuro NIIDOME

Hyun Jung CHUNG

Yufeng ZHENG

Registration is required to join.
See website for details.

ircms.kumamoto-u.ac.jp



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KAIST

 Kumamoto University

ircms

 **IROAST**
International Research Organization for
Advanced Science and Technology

The 4th KAIST-KU Workshop and Joint Symposium

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Time	Speaker	Affiliation	Title
10:00-10:05			Opening Remarks
Symposium 1		“Communication biology and engineering”	
10:05-10:25	Akio KOBAYASHI	IMEG, KU	Genetic regulation of cellular lineages in the kidney
10:25-10:45	Jessie Sungyun JEON	DME, KAIST	Lab on a chip in disease modeling and drug screening
10:45-11:05	Shinichiro SAWA	FAST, KU	Identification of Plant attractant of Plant parasitic nematodes, <i>M. incognita</i> .
11:05-11:10	Break		
Symposium 2		“Nucleic acids and Bioinformatics”	
11:10-11:30	Daisuke KUROTAKE	YCU/ IRCMS, KU	3D chromatin structure dynamics during dendritic cell differentiation and activation
11:30-11:50	Jong-Eun PARK	GSMSE, KAIST	Towards integrated atlas of human immunity
11:50-12:10	Tokio TANI	FAST, KU	Shaping the nucleus: mechanisms and diseases
12:10-12:30	Jinkuk KIM	GSMSE, KAIST	ASO therapy for neurological diseases
12:30-13:30	Break		
“My Collaboration experience”			
13:30-13:45	Pilhan KIM	GSMSE, KAIST	Integrating cutting-edge intravital imaging technology for biomedical research
13:45-14:00	Hideobu MIZUNO	IRCMS, KU	A versatile vector system for in vivo single-cell labeling and gene manipulation
Flash Talks			
14:00-14:30	Laboratories from KAIST and KU		
14:30-14:40	Break		
Symposium 3		“Homeostasis and Disease”	
14:40-15:00	Won-Il JEONG	GSMSE, KAIST	Glutamate signaling drives alcoholic steatosis
15:00-15:20	Masashi MURAMATSU	IRDA, KU	NFAT signal for maintaining vascular integrity through controlling endothelium cell competition
15:20-15:40	Ji Eun OH	GSMSE, KAIST	Memory B cell recruitment to the vaginal mucosa is required for luminal antibody secretion
15:40-16:00	Kei-ichiro ISHIGURO	IMEG, KU	MEIOSIN directs the switch from mitosis to meiosis
16:00-16:10	Break		
Symposium 4		“Biomaterials & Biotechnology”	
16:10-16:30	Takuro NIIDOME	FAST, KU	Surface coating of bioresorbable coronary stents and their corrosion behaviors
16:30-16:50	Hyun Jung CHUNG	DBS, KAIST	Diagnostics at point-of-care: nanoengineering approaches
16:50-17:10	Yufeng ZHENG	IROAST, KU	Nanostructured magnesium alloys processed for biomedical applications
17:10-17:15			Closing Remarks

Affiliation

KU: Kumamoto University, Japan

IRCMS: International Research Center for Medical Sciences, Kumamoto University

IROAST: International Research Organization for Advanced Science & Technology, Kumamoto University

FAST: Faculty of Advanced Science and Technology, Kumamoto University

IMEG: Institute of Molecular Embryology and Genetics, Kumamoto University

IRDA: Institute of Resource Development and Analysis, Kumamoto University

YCU: Yokohama City University, Japan

KAIST: Korea Advanced Institute of Science and Technology, Korea

GSMSE: Graduate School of Medical Science and Engineering, KAIST

DME: Department of Mechanical Engineering, KAIST

DBS: Department of Biological Science, KAIST