

The 5th KU-KAIST Joint Symposium

Date:

October 20th-21st, 2022

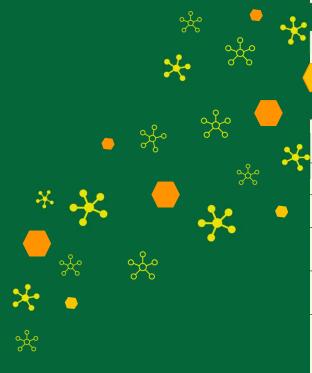
Venue:

Online&Onsite

Online/Zoom

Meeting ID: 420 844 8328 (No passcode)

Onsite (Kumamoto University members only) IRCMS Lounge, Kumamoto University



9:00-18:30(JST) Oct. 20, 2022

Opening Remarks

Toshio Suda (IRCMS, Kumamoto University)

Session I - Hepatic Metabolism and Fibrosis (9:10-10:50)

Yuichiro Arima IRCMS, KU	NASH/NAFLD treatment using "opto-metabolism"
Won-il Jeong GSMSE, KAIST	Hepatic glutamate and mGluR5 in liver fibrosis
Pilhan Kim GSMSF KAIST	Intravital imaging of hepatic steatosis and fibrosis

Session II – Keynote (11:00-11:50)

Keisuke Ito	Mitochondrial contributions to hematopoietic
IRCMS, KU & Albert Einstein	homeostasis and the pathogenesis of
College of Medicine, USA	hematological disorders

Session III - Micro-Nano environment & Genetic Engineering (14:00-16:00)

Jinju Han GSMSE, KAIST	AGO1 affects social behaviors by shaping brain structure
Hidenobu Mizuno IRCMS, KU	Imaging neuronal activity pattern in developing neocotex
Hyun Jung Chung Department of Biological Science, KAIST	Nanomedicine approaches for in vivo gene editing and therapy
Ji Min Lee GSMSE,KAIST	Reprogramming epigenetic crosstalk and genome modification in disease

Session IV - Nano-technologies & Diesease (16:10-17:40)

Yoon Sung Nam Department of Materials Science and Engineering, KAIST	Enzyme-free Nucleic Acid Assay via Target- mediated Quantum dot-DNA Nanogel Formation
Daisuke Kurotaki IRCMS, KU	3D chromatin structure dynamics during dendrition cell differentiation and activation
Sungmin Son Department of Bio and Brain Engineering, KAIST	Multiplexed RNA detection with Cas13 droplets

Session V - KU-KAIST joint research result (17:50-18:30)

Hitoshi Takizawa IRCMS, KU	Microbiota-regulated hematopoiesis

9:00-12:10(JST) Oct. 21, 2022

Session VI - Nano-technologies & Diesease (9:00-12:10)

Sho Kubota IRCMS, Kumamoto University	Inflammatory stress tolerance of hematopoietic stem cell is activated by Hmga2
Ji Eun Oh GSMSE, KAIST	Humoral immunity in different mucosal systems
Tatsuya Morishima IRCMS, KU	Mitochondrial tRNA modification regulates terminal erythroid differentiation
Ji Ho Park Department of Bio and Brain Engineering, KAIST	Cargo-switching nanomedicine for the treatment of atherosclerosis
Sangyong Jon Department of Biological Science, KAIST	Bilirubin nanomedicine for anti-inflammatory and anti-cancer therapy

Closing Remarks

Injune Kim (GSMSE, Korea Advanced Institute of Science and Technology)

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