

# 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)**

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

**Session II – Keynote (11:00-11:50)**

<b>Keisuke Ito</b> IRCMS, KU & Albert Einstein College of Medicine, USA	Mitochondrial contributions to hematopoietic homeostasis and the pathogenesis of hematological disorders
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**Session III – Micro-Nano environment & Genetic Engineering (14:00-16:00)**

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

**Session IV – Nano-technologies & Disease (16:10-17:40)**

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

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

<b>Hitoshi Takizawa</b> IRCMS, KU	Microbiota-regulated hematopoiesis
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9:00-12:10(JST) Oct. 21, 2022

**Session VI – Nano-technologies & Disease (9:00-12:10)**

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