

GENERAL INFORMATION

2022 KALAS
International Symposium

2022 KALAS International Symposium

Date	July 20 (Wed) - 23 (Sat), 2022
Venue	ICC JEJU, Jeju Island, Korea
Organizer	Korean Association for Laboratory Animal Science (KALAS)
Sponsor	Korean Federation of Science & Technology Societies (KOFST) National Institute of Food and Drug Safety Evaluation (NIFDS) Jeju Convention & Visitors Bureau (JCVB) Korea Institute of Toxicology (KIT) Korea Mouse Phenotyping Center (KMPC)

Event

Date	Event	Time	Room
July 20 [Wed]	Council Meeting	11:30-13:00	Samda Hall
	Board Meeting	18:00-19:00	Meeting Room
July 21 [Thu]	Opening Ceremony	9:40-10:00	Halla Hall A
	Plenary Lecture 1	10:00-11:00	Halla Hall A
	Luncheon 1-3	13:00-13:20	Halla Hall A, B Samda Hall
	General Meeting & Welcome Reception	17:00-19:00	Tamna Hall (5F)
July 22 [FRI]	Plenary Lecture 2	11:00-12:00	Halla Hall A
	Luncheon 4-6	12:10-12:30	Halla Hall A, B Samda Hall
	Giveaway & Closing Ceremony	15:50-16:20	Halla Hall A
July 23 [Sat]	Workshop	9:30-11:00	Halla Hall A

Important Dates

- Registration: 04.25 (Mon) - 06.30 (Thu)
- Abstract Submission Due : 04.25 (Mon) - 06.20 (Mon)

Registration Fees

Classification		Early Bird (~2022.6.20.)		On-site (2022.7.20. ~22)	
Member	Student	Registration fee ₩ 100,000	+ 2022 Annual fee ₩ 120,000	Registration fee ₩ 150,000	+ 2022 Annual fee ₩ 170,000
	General	Registration fee ₩ 200,000	+ 2022 Annual fee ₩ 230,000	Registration fee ₩ 250,000	+ 2022 Annual fee ₩ 280,000
Non-member	Council	Registration fee ₩ 200,000	+ 2022 Annual fee ₩ 250,000	Registration fee ₩ 250,000	+ 2022 Annual fee ₩ 300,000
	Student	₩ 120,000		₩ 170,000	
	General	₩ 300,000		₩ 350,000	
	International Member	₩ 200,000		₩ 200,000	
	Exhibitor	₩ 80,000		₩ 100,000	

Hotel Reservation

Please refer to our website (www.kalas.or.kr)

Korean Association for Laboratory Animal Science (KALAS)

#310 22, Teheran-ro 7-gil, Gangnam-gu, Seoul, Korea (06130)

Tel. +82-2-364-1909 Fax. +82-2-584-1909

E-mail. kalas@kalas.or.kr www.kalas.or.kr

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ICC JEJU | Jeju Island | Korea

UNBIAS Unveiling Bio-network using Animal System

Organized by



www.kalas.or.kr

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It is our great pleasure to warmly invite you to the 2022 KALAS International Symposium, entitled with 'UNBIAS (Unveiling Bio-network using Animal System)' at Jeju International Convention Center (Jeju ICC) in Jeju island from July 20 (Wed) to 23 (Sat) in 2022.

The International Symposium is composed with 2 plenary lectures: 'Microbiome and nutrition in animal health and diseases' (Prof. Won-Jae Lee, Seoul Natl. Univ.) and 'Defining and engineering the gut stem cell microenvironment' (Prof. Tae-Hee Kim, The Hospital for Sick Children & University of Toronto), and 16 program sessions including Cancer model, Zebra-fish, Marmoset, Gut-brain axis, Mitochondrial dynamics and therapy, IBD preclinical models, Liver diseases, IACUC, Research ethics, KALAS educational sessions, etc.

The symposium will be supported by several institutions, agencies and organizations including KOFST, NIFDS, JCVB, KIT, KMPC, etc. and I would like to thank all those concerned in this symposium.

We hope that all participants will enjoy this KALAS international symposium that give an opportunity to broaden your academic knowledge, and carry back with you fond memories from Jeju island. Once again, I sincerely appreciate for those who support and contribute to this international symposium.

KilSoo Kim
President, KALAS



JULY 20 (WED)

Symposium 1 14:00-15:40 / Halla Hall A / ENG

Current status of pig to NHP heart and kidney xenotransplantation

Xenotransplantation steps from research to clinical application
Wayne Hawthorne (University of Sydney)

Current status and results of genetic engineered pig to monkey preclinical kidney xeno-transplantation in Korea

Progress and breakthrough in preclinical and clinical xenotransplantation of pig hearts with multiple genetical modifications
Ik-jin Yun (Konkuk University Hospital)

Results of pig to monkey heterotopic cardiac xenotransplantation in Korea
Paolo Brenner (Clinic of Grosshadern, University of Munich (LMU))
Hyun Keun Chee (Konkuk University Medical Center)

Symposium 2 [IACUC] 14:00-15:40 / Halla Hall B / ENG

COVID-19's impacts on IACUC communication

A COVID-19 pandemic: the survey for animal use and care staff in Korea
Na Ahn (Jangan Univ.)

Conduct of IACUC meetings and semiannual facility inspections under the pandemic situation
Gwi Hyang Lee (The Catholic Univ.)

Utilizing various modes of communication at SNU IACUC office during the COVID-19 pandemic
Ji Min Lee (Seoul Natl. Univ.)

Guidance for IACUC regarding animal care and use during COVID-19 Pandemic – AAALAC International expectation
Montip Gettayacamin (AAALAC)

Symposium 3 16:00-17:40 / Halla Hall A / KOR

Studies on brain and vascular functions using novel mouse models

Animal models for studying the onset of arteriovenous malformations
Yong Hwan Kim (Barrow Neurological Institute)

Harmful effects of polystyrene nanoplastics on developing brain
Da Yong Lee (KRIBB)

Mouse models of 22q11.2 deletion syndrome for studying neuroanatomical abnormalities
Tae-Yeon Eom (St Jude Children's Research Hospital)

Reward learning improves social information processing in the medial prefrontal cortex
Doyun Lee (IBS)

Symposium 4 [KLAT Education 1 With KIT] 16:00-17:40 / Halla Hall B / KOR

Advanced experimental techniques and practical considerations in preclinical animal study

Efficacy and toxicity evaluation of anticancer drugs in tumor-bearing mice
Soon-Oh Hong (Kolon Life Science)

Delivery of antisense oligonucleotides to the mouse brain and neurobehavioral evaluations
Jeong-Wook Ghim (SoVarGen)

Intrathecal injection and neurologic examination in beagle dogs
Won-Tae Kim (KIT)

JULY 21 (THU)

Plenary Lecture 1 10:00-11:00 / Halla Hall A / KOR

Microbiome and nutrition in animal health and diseases
Won-Jae Lee (Seoul Natl. Univ.)

Symposium 5 11:00-12:40 / Halla Hall A / ENG

Mitochondrial dynamics and therapy

In adipocytes, DNMT1 is an epigenetic safeguard of mitochondrial dynamics
Jae Bum Kim (Seoul Natl. Univ.)

Mitochondria-targeted drug delivery systems for anti-tumor therapy
Han Chang Kang (The Catholic Univ.)

Regulation of metabolic switch in aged skeletal muscle by RNA binding protein
Jiyun Ahn (KFRI)

Fluorescence imaging of mitochondrial DNA base excision repair (BER) process
Yong Woong Jun (Stanford Univ.)

Symposium 6 [KMPC 1] 11:00-12:40 / Halla Hall B / KOR

Non mammalian -zebrafish

Disease modeling of rare neurological disorders in zebrafish
Cheol-Hee Kim (Chungnam Natl. Univ.)

Zebrafish as a model for neurodegenerative diseases and neurotoxicity
Hae Chul Park (Korea Univ.)

A novel gene switch optimized for zebrafish transgenesis
Hyunju Ro (Chungnam Natl. Univ.)

Symposium 7 [NIFDS 1] 11:00-12:40 / Samda Hall / KOR

Preclinical non-human primate research for pharmaceuticals development

Validation of scrub typhus vaccine in nonhuman primates infection model
Nam-Hyuk Cho (Seoul Natl. Univ.)

Safety evaluation of vaccines for nonhuman primates
Doo-Wan Cho (KIT)

The preclinical research with marmosets in Korea
Byeong-Cheol Kang (Seoul Natl. Univ.)

Studying multiple sclerosis (MS) with advanced MRI and pathology using marmoset model
Seung-Kwon Ha (University of Pittsburgh)

Academy Award Presentation 14:00-14:40 / Halla Hall A

Inflammatory response in the mid colon of ICR mice treated with polystyrene microplastics for two weeks
Yun Ju Choi (Pusan Natl Univ.)

Establishment of particulate matter-induced lung injury model in mouse
Se Yong Park (Seoul Natl. Univ.)

Surgical removal of a telemetry system in a cynomolgus monkey (*Macaca fascicularis*): a 12-month observation study
Doo-Wan Cho (KIT)

Symposium 8 14:50-16:30 / Halla Hall A / ENG

Current topics of the microbiota-gut brain axis in health and disease

Gut feelings about the brain: Rodent models of the microbiome-gut-brain axis
John Cryan (University College Cork)

Beneficial effects of human gut microbiota *Akkermansia muciniphila* on cognitive function in neurodegenerative mouse models
Chul-Ho Lee (KRIBB)

Microbiome interactions with the nervous system in health and disease
Elaine Hsiao (UCLA)

Transfer of a healthy microbiota reduces amyloid and tau pathology in an Alzheimer's disease animal model
Jin-Woo Bae (Kyung Hee Univ.)

Symposium 9 [KMPC2] 14:50-16:30 / Halla Hall B / KOR

In vitro and in vivo models for cancer research

Patient-derived cancer organoid hub platform for refractory or rare cancer
Yun-Hee Kim (National Cancer Center Korea)

Preclinical murine models for cancer research : CDX vs Syngeneic model
Seung Hyun Oh (Gachon Univ.)

Patient-derived xenograft model for cancer research
Sung Yup Cho (Seoul Natl. Univ.)

Companion animals as alternative models for translational cancer research
Kyong-Ah Yoon (Konkuk Univ.)

Symposium 10 [NIFDS 2] 14:50-16:30 / Samda Hall / KOR

Development of medicines to respond to global public health crises

Nanobiotechnology for diagnosis and vaccine against Viral Disease X in animal and human
Daesub Song (Seoul Natl. Univ.)

Current status of mRNA vaccine development for the preparedness of emerging infectious diseases in Korea
Kee-Jong Hong (Gachon Univ.)

Development of next generation COVID-19 vaccine using adenovirus vector platform
Kwang-Soo Shin (CELLID)

JULY 22 (FRI)

Symposium 11 09:00-10:40 / Halla Hall A / ENG

IBD preclinical models and new treatment modalities

The role of macrophages in gut inflammation
Seung Hyeok Seok (Seoul Natl. Univ.)

Understanding neuro-immune crosstalk in the gut using animal models to develop novel therapeutic strategies for intestinal inflammation
Gianluca Mateoli (KU Leuven)

Gene therapy of genetic diseases via CRISPR systems
Daesik Kim (Sungkyunkwan Univ.)

Application of ex-vivo generated macrophages as potential cell therapy
Yi Rang Na (Seoul Natl. Univ. Hospital)

Symposium 12 09:00-10:40 / Halla Hall B / KOR

Current translational research for human diseases using marmoset

Translational research for retinopathy using marmoset
Jeong Hun Kim (Seoul Natl. Univ.)

Characterization and age-related changes of primary marmoset retinal pigment epithelial cells
Ha Young Jang (Seoul Natl. Univ. Hospital)

Generation of immortalized marmoset cell lines by a CRISPR-Cas9-mediated gene targeting
Young Hoon Sung (University of Ulsan & Asan Medical Center)

Development of genetically engineered marmoset models of early onset Alzheimer's disease: Initial experiences
Jung Eun Park (University of Pittsburgh)

Symposium 13 [Special Subcommittee] 09:00-10:40 / Samda Hall / KOR

Animal facility design and operation strategy for user safety

Efficacy evaluation and inhalation toxicity study for new inhaled drug development of respiratory diseases
Sung-Hwan Kim (KIT)

Establishing and maintaining a gnotobiotic mouse facility
Hyunghung Jhun (KFRI)

Animal imaging facility
Jae Jun Lee (Osong Medical Innovation Foundation)

Facility for non human primates
Ji-su Kim (KRIBB, PRC)

Plenary Lecture 2 11:00-12:00 / Halla Hall A / ENG

Defining and engineering the gut stem cell microenvironment
Tae-Hee Kim (The Hospital for Sick Children & University of Toronto)

Symposium 14 14:00-15:50 / Halla Hall A / ENG

The precision medicine initiative for liver disease through metabolic analysis

Metabolic crosstalks in regulation of hepatic lipid homeostasis
Nika Danial (Dana-Farber Cancer institute (Harvard Medical School))

Altered fuel metabolism in the pathogenesis of NAFLD
Dong Wook Choi (Chungnam Natl. Univ.)

Role of mitochondrial stress response in hepatic steatosis and liver cancer progression
Hyon-Seung Yi (Chungnam Natl. Univ.)

Hepatic glutamate and mGluR5 in liver fibrosis
Won-Il Jeong (KAIST)

Symposium 15 [KLAT Education 2] 14:00-15:50 / Halla Hall B / KOR

Laboratory animal facility management

Facility management and environmental enrichment for nonhuman primate
Young-Su Yang (KIT)

Laboratory animal facility management of environmental monitoring and COVID-19 pandemic
Kyoungmin Roh (Seoul Natl. Univ. Hospital)

Disinfection and sterilization in laboratory animal facilities
Hyunghung Jhun (KFRI)

Symposium 16 14:00-15:40 / Samda Hall / KOR

Research ethics and responsible research

Research misconduct under the academic promotion act and the national R&D innovation act
Ju-Hong Jeon (Seoul Natl. Univ.)

How does research ethics committee operate?
Chin Ho Cho (Seoul Natl. Univ.)

How to identify and deal with conflicts of interest in research
Hyobin Lee (Chungnam Natl. Univ.)

JULY 23 (SAT)

Workshop 09:30-11:10 / Halla Hall A

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