

GENERAL INFORMATION

Date

July 23 (Wed) - 26 (Sat), 2025

Venue

ICC JEJU, Jeju Island, Korea

Organizer

 KOREAN ASSOCIATION
FOR LABORATORY ANIMAL SCIENCE

 MINISTRY OF FOOD AND DRUG SAFETY
National Institute
of Food and Drug Safety Evaluation

Sponsor

 국가독성과학연구소
Korea Institute of Toxicology

 KMPCC 국가모델동물연구소
Korea Model animal Priority Center

 KMEDIhub
Korea Model Ecosystem Institute

 KBIOHEALTH
국립생물자원관생명과학연구소

 KRIBB
Korea Research Institute of Bioscience and Biotechnology

 KFRI
KOREA FOOD RESEARCH INSTITUTE

 KCLAM/KSLAV
한국실험동물학회

 KRICP
Korea Research Institute of Chemical Technology

 KOSTEP
Korea Federation of Science & Technology Societies

 제주관광공사
JEJU TOURISM ORGANIZATION

Event

Date	Event	Time	Room
July 23 (Wed)	Council Meeting	11:30-13:00	Ocean View(5F)
July 24 (Thu)	Opening Ceremony	09:30-09:40	Halla Hall A
	Board Meeting	10:40-11:30	Meeting Room(3F)
	40th Anniversary Vision Declaration	11:30-11:40	Halla Hall A
	Plenary Lecture 1	11:40-12:30	Halla Hall A
	Luncheon 1-3	12:40-13:00	Halla Hall A, B Samda Hall
	KALAS-CALAS Joint Round Table Meeting	Still undecided	Meeting Room(3F)
July 25 (Fri)	General Meeting & Welcome Reception	17:00-19:00	Tamna Hall (5F)
	Plenary Lecture 2	11:00-11:50	Halla Hall A
	Luncheon 4-6	12:00-12:20	Halla Hall A, B Samda Hall
July 26 (Sat)	Giveaway & Closing Ceremony	16:00-16:40	Halla Hall A
	Satellite Meeting	09:30-11:10	Halla Hall A

Important Dates

Registration : April 28 (Mon) - July 9 (Wed)

Abstract Submission Due : April 28 (Mon) - June 13 (Fri)

Registration Fees

Classification		Early Bird		On-site (2025. 7. 23-25)	
Member	Student	Registration Fee	+ 2025 Annual Fee	Registration Fee	+ 2025 Annual Fee
		₩120,000	₩140,000	₩170,000	₩190,000
	General	Registration Fee	+ 2025 Annual Fee	Registration Fee	+ 2025 Annual Fee
		₩220,000	₩250,000	₩270,000	₩300,000
	Council	Registration Fee	+ 2025 Annual Fee	Registration Fee	+ 2025 Annual Fee
		₩220,000	₩270,000	₩270,000	₩320,000
Non-member	Student	₩150,000		₩190,000	
	General	₩330,000		₩380,000	
International Member		₩220,000		₩220,000	
Exhibitor		₩80,000		₩120,000	

Hotel Reservation

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

Korean Association for Laboratory Animal Science (KALAS)

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40th Anniversary

www.kalas.or.kr

2025 KALAS

40th Anniversary International Symposium

JULY 23 (WED) – 26 (SAT)

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GIANTS
Global Insights in AdvaNcing Translational Sciences

Organized by

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INVITATION

Welcome Message

It is our great pleasure to warmly invite you to the 2025 KALAS (Korean Association for Laboratory Animal Science) 40th Anniversary International Symposium, entitled with ‘GIANTS (Global Insights in AdvaNcing Translational Sciences)’ at Jeju International Convention Center (Jeju ICC) in Jeju island from July 23 (Wed) to 26 (Sat) in 2025.

The bioscience is rapidly changing and developing, and along with the development of the life science, responsibility in the field of laboratory animals is becoming more important. To celebrate the 40th anniversary, a total of 20 sessions of various lectures have been prepared to reflect the trend of the latest research. These include two keynote lectures, eight sponsored symposiums, a IACUC session, two KLAT educational sessions, a KALAS-CALAS joint symposium, and so on.

The symposium will be supported by several institutions and organizations including KOFST(Korean Federation of Science and Technology Societies), KIT(Korea Institute of Toxicology), KMPC(Korea Model Animal Priority Center), NIFDS(National Institute of Food and Drug Safety Evaluation), KMEDIhub, KBIOhealth, KRIBB(Korea Research Institute of Bioscience and Biotechnology), KFRI(Korea Food Research Institute), KCLAM(Korean College of Laboratory Animal Medicine), KIRMS(Korea Institute of Radiological and Medical Sciences), and I would like to thank everyone who participated in this symposium.

I hope all participants will enjoy this KALAS 40th Anniversary International Symposium, where they can broaden their academic knowledge and cherish precious memories in Jeju Island. Once again, I would like to express my sincere gratitude to those who support and contribute to this international symposium.

Yang-Kyu Choi
President, KALAS

JULY 23 (WED)

Symposium 1 [K-MEDI hub, KBIO HEALTH] 14:00-15:40 / Halla Hall A / KOR

Current Trends in Nonclinical Testing With Non-Rodent Animal Models: Focus on Common Marmosets and Pigs

The Minipig in Medical Device Development Ryounghoon Jeon (K-MEDI hub)
Research on Tissue-Engineered Scaffolds Combined with Stem Cell Therapies Utilizing Animal Models Sang Jin Lee (Univ. of Hong Kong)
Research Methodology Developments for Common Marmoset (Callithrix Jacchus) Dohyun Lee (OSONG Medical Innovation Foundation)
Bridging the Rodent to Human Translational Gap: Marmoset as a Model System for Biomedical Research Jung Eun Park (Univ. of Pittsburgh)

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

MPS and Organoid Research and Laboratory Animal Science

Advanced Human Microphysiological Systems for Disease Modeling and Drug Development Deok-Ho Kim (Johns Hopkins Univ.)
MPS and Organoids as New Alternative Methods (NAMs): Current & Upcoming Trend Nakwon Choi (Korea Univ.)
Microfluidics-Embedded 3D Perfusion Cell Culture System Jeung Sang Go (Pusan Natl. Univ.)
Therapeutic Organoid Platform, "Tissue Reforming Technology Platform" and Animal Model Jaejin Cho (Seoul Natl. Univ.)

Symposium 3 [IACUC] 14:00-15:40 / Samda Hall / KOR

Strengthening Biosafety Risk Assessment and Management in Laboratory Animal Research

Risk Assessment Strategies for Research Involving Biological Agents Won-Jong Jang (KonKuk Univ.)
Biosafety Management for Animal Experiments in ABL-3 Laboratories Kyung Min Lee (International Vaccine institute)
Current Status and Future Development of Biosafety Education Programs Tae Jong Son (Korea Disease Control and Prevention Agency)
Predicting Hazards in Laboratory Work by Deep Learning towards Risk Assessment and Safety Management Takaaki Harada (Nagoya Univ.)

Symposium 4 [KFRI] 16:00-17:40 / Halla Hall A / KOR

Animal Models in Nutrition Research and Functional Food Development

Integrating Chrono-Nutrition and Probiotics in Organoids for Functional Food Development Miri Park (KFRI)
Alterations in Mitochondria-Associated Molecular Patterns and the Role of Dietary Components in Improving Inflammation and Metabolic Disease Yu Geon Lee (KFRI)
Development of New Concept Efficacy Evaluation Analysis Technology Utilizing Mouse Resources for Modeling Human Disease Hea-Jong Chung (KBSI)
Effects of the Complex of Panicum Miliaceum Extract and Triticum Aestivum Extract on Hair Condition Pan-Young Jeong (Novarex Co., Ltd.)

Symposium 5 [KIT] 16:00-17:40 / Halla Hall B / KOR

The Use of Non-Human Primates in Non-Clinical Studies Ranges From Management to Research

Considerations for Research with NHPs Eun Ju Song (Emory Univ.)
Approaches to Microbiological Quality Control in Laboratory Non-Human Primates Kyoung-Sun Lee (OSONG Medical Innovation Foundation)
Application of Non-Human Primates in Advanced Biopharmaceuticals Development Han Na Suh (KIT)

Symposium 6 [KLAT Education 1] 16:00-17:40 / Samda Hall / KOR

Microbiological Quality Control for Laboratory Rodents

Major Rodent Diseases in Korean Laboratory Animal Facilities Joon-Suk Park (K-MEDI hub)
Disease Control Strategies for Laboratory Rodents: Quarantine, Disinfection, and Sterilization Jungmin Lee (Samsung Medical Center)
Health Monitoring Techniques for Laboratory Rodent Hwan Kim (IBS)
Cleaning Methods for Infected Rodents and Applicable Cases Yonghun Sung (Korea Polytechnic)

JULY 24 (THU)

Symposium 7 09:40-11:20 / Halla Hall A / ENG

Stem Cells and Tissue Regeneration

Rare Begets Common: Skin Diseases Reveal Basic Human Biology Ting Chen (NIBS, Beijing)
Aging and Rejuvenation of Skin Stem Cells and Their Niches Sekyu Choi (POSTECH)
Organoid Modelling of Human Lung Development and Cell Fate Alteration in Human Congenital Pulmonary Diseases Kyungtae Lim (Korea Univ.)
The Specification and Diversification of Enteroendocrine Cells from Intestinal Stem Cells Rongwen Xi (NIBS, Beijing)

Symposium 8 [KIRAMS] 09:40-11:20 / Halla Hall B / KOR

Molecular Imaging Techniques for Evaluation of Drug Development and Disease Animal Models

Radiopharmaceuticals for Noninvasive Theranostics Imaging Yun-Sang Lee (Seoul Natl. Univ.)
MR Molecular Imaging for Drug Development and Disease Diagnostics Using Animal Models Yongmin Chang (Kyungpook Natl. Univ.)
Preclinical Evaluation and Imaging of Radiopharmaceuticals Using PET Se Jong Oh (KIRAMS)
Pharmacokinetic Study Using C-14 in New Drug Development Mihye Kwon (KIRAMS)

Symposium 9 [KCLAM] 09:40-11:20 / Samda Hall / KOR

Optimizing Post-Approval Monitoring: Navigating the Roles of IACUC, AV, LAT, and Researchers

Enhanced PAM: Experience and Implementation at HKUMED's AAALAC International Accredited Program Connie Leung (The Univ. of Hong Kong)
AV and LAT Roles in Post-Approval Monitoring (PAM) Ji-Yeon Hwang (Seoul Natl. Univ. Bundang Hospital)
Program Review and PAM: Similar Goals, Different Approaches Young-Shin Joo (The Catholic Univ. of Korea)

Plenary Lecture 1 11:40-12:30 / Halla Hall A, B / ENG

Hippo-YAP/TAZ Signaling: A Crucial Pathway in Cell Fate Dynamics Dae-Sik Lim (KAIST)

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

Symposium 10 14:50-16:30 / Halla Hall A / ENG

In Vivo Explorations of Vascular Function and Dysfunction

Mechanism and Potential Therapies for Brain Arteriovenous Malformation Suk P. Oh (Barrow Neurological Institute)
Dissecting Cellular Dynamics through Genetic Ablation and Labeling of Vascular Cells Junyeop Lee (Asan Medical Center)
Animal Model and Its Application in Vascular Biology: Endothelial Migration and Differentiation Heon-Woo Lee (Kyung Hee Univ.)
Immune-Vascular Crosstalk within the Tumor Microenvironment Keehoon Jung (Seoul Natl. Univ.)

Symposium 11 [KMPC] 14:50-16:30 / Halla Hall B / KOR

The Next Waves in Signaling Crosstalk From Cellular to Systemic Metabolism

Glutamatergic Metabolic Synapse: Hepatocyte-Kupffer Cell Interactions in Liver Disease Won-Il Jeong (KAIST)
Enhanced Adipose Tissue Reservoir Capacity after Lactation Improves Insulin Sensitivity and Protects against Type 2 Diabetes Joon Ho Moon (Seoul Natl. Univ. Bundang Hospital)
Selenium's Paradoxical Role in Ferroptosis Modulation Namgyu lee (Dankook Univ.)
Modulating Chronic Inflammation to Lower Cancer Risk: Mechanisms and Therapeutic Approaches Jongho Park (Keimyung Univ.)

Symposium 12 [KALAS-CALAS] 14:50-16:30 / Samda Hall / ENG

Preclinical Studies of Xenografts and Tissue Transplantation

Homozygous Editing of Multiple Genes for Accelerated Generation of Xenotransplantation Pigs Sen Wu (China Agricultural Univ.)
Major Progress in Xenotransplantation Preclinical and Clinical Research in China Dengke Pan (Clonorgan Biotechnology Co., Ltd.)
Current Progress in Corneal Xenotransplantation in South Korea Mee Kum Kim (Seoul Natl. Univ.)
The Clinical Usefulness of Xenogeneic Skin Substitutes Jun Hur (Hallym Univ. Hangang Sacred Heart hospital)

JULY 25 (FRI)

Symposium 13 09:00-10:40 / Halla Hall A / ENG

Metabolic Mechanisms in Health and Diseases

Phosphatidylethanolamine Content in the Endoplasmic Reticulum Regulates SREBP-1 Activation and Lipogenesis Shunxing Rong (UT Southwestern)
Urolithin A: A Gut Metabolite as a Novel Therapeutic for Cardiac Dysfunction in Heart Failure Chang-Myung Oh (GIST)
Exercise-Driven Musculoskeletal Alteration and Health Hyeonwoo Kim (KAIST)
Dynamic Regulation of Anaplerotic Flux in Metabolic Disease Haejin Yoon (UNIST)

Symposium 14 [KRIBB] 09:00-10:40 / Halla Hall B / ENG

Translational Research Platform Using Animal Models for Inherited Retinal Disease (IRD)

Potential Role of Retinal Astrocytes in Retinopathy of Prematurity Marcus Fruttiger (UCL)
Autonomous Tissue-Sensing Needle Injection System for Ocular Diseases WonHyoung Ryu (Yonsei Univ.)
Novel Bio-Imaging Technologies for Gene and Cell Therapy Tae Geol Lee (KRISS)
Translational Research Platform for IRD in SNUH GEC-GCT Jeong Hun Kim (Seoul Natl. Univ.)

Symposium 15 [INFDS] 09:00-10:40 / Samda Hall / ENG

Humanize Mouse Models for Preclinical Research

Generation of a NOG-W41-Based Humanized Mouse Model for In Vivo Human Hematopoiesis Ryoji Ito (CIEM)
4-1BB Co-Stimulation, a Promising Strategy for Treating Cancers Su-Hyung Park (KAIST)
Enhanced Human Leukocyte Engraftment and Reduced GvHD Symptoms in CD47; Rag2;IL2ry Triple Knockout Mice Seung-Ho Heo (Asan Medical Center)
Target Discovery for Cancer Immunotherapy Using Humanized Mouse Models Sung-Yup Cho (Seoul Natl. Univ.)

Plenary Lecture 2 11:00-11:50 / Halla Hall A, B / ENG

Adipocyte Heterogeneity and the Regulation of Energy Metabolism Christian Wolfrum (NTU Singapore)

Symposium 16 14:00-15:50 / Halla Hall A / ENG

Development of 3D Composite Constructs with Immune Modulatory Functions and Tissue Regeneration Technologies

Current Status of Human Tissue Substitutes Developed Using Transgenic Animals Hyunil Kim (Optipharm Inc.)
Humanized Mouse Models in Hematopoietic Research: From Disease Mechanisms to Therapeutics Kyung-Rok Yu (Seoul Natl. Univ.)
Expanding the Frontiers of Spatial Cellular Analysis: Applications of SLACS in Animal Models and Organoid Systems Chungwon Lee (Meteor Biotech)
Advancing Liver Tissue Engineering: Improving Endothelial Cell Attachment in Decellularized Liver Scaffolds Kyung-Mee Park (Chungbuk Natl. Univ.)
Bioengineered Liver Crosslinked with Nano-Graphene Oxide Enables Efficient Liver Regeneration via MMP Suppression and Immunomodulation Da-Hyun Kim (Sungshin Women's Univ.)

Symposium 17 14:00-15:50 / Halla Hall B / ENG

Latest Research Trends in Development of Experimental Animal Models and Biomarkers, and AI-Based Behavioral Analysis Technologies for Substance Use Disorder

TRPA1 as a Therapeutic Target for Cocaine Addictive Disorders Choon-Gon Jang (Sungkyunkwan Univ.)
Impaired Decision-Making in Methamphetamine-Dependent Rats: Neural Mechanism and Novel Treatment Kiyofumi Yamada (Fujita Health Univ.)
Inhaled Synthetic Cannabinoid Self-Administration Model and Its Application in Vaccine Development for Drug Abuse Jaesuk Yun (Chungbuk Natl. Univ.)
Non-human Primate Models for Addiction Research: Behavior and Imaging Dohyun Lee (OSONG Medical Innovation Foundation)

Symposium 18 [KLAT Education 2] 14:00-15:50 / Samda Hall / KOR

Application and Management of Genetically Modified Animals

Health Risks and Optimized Management in Genetically Engineered Lab Animals Taehoon Shin (Jeju Natl. Univ.)
Generation and Use of Genetically-Engineered Mouse Models using CRISPR-Cas9 Young Hoon Sung (Asan Medical Center)
Generation of Mouse Models and Experimental Applications Kyoungmi Kim (Seoul Natl. Univ.)

JULY 26 (SAT)

Satellite Meeting

09:30-11:10 / Halla Hall A