



한국실험동물학회

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2024

# KALAS

## International Symposium

JULY 24 | WED | – 27 | SAT |

📍 ICC JEJU, Jeju Island, KOREA

## IMPACT

Innovative Models for Predictive And Comparative Translational research

### Plenary Lecture

JULY 25  
| THU |



**Jesús Ruberte** ENG  
Autonomous University of Barcelona  
**Insights from rodent models for understanding Diabetic Retinopathy**

JULY 26  
| FRI |



**Inhee Mook** ENG  
Seoul Natl. Univ.  
**The current insights into Alzheimer's disease research and advancements in therapeutic development**

### Organized by

Korean Association for Laboratory Animal Science (KALAS)

### Sponsored by

TBA

### JULY 24 (WED)

<b>Symposium 1</b> <b>Zebrafish animal model to study in vivo mechanisms of disease</b> Uncovering the secrets of tissue regeneration: From gene discovery to elucidating the mechanisms Zebrafish model to study muscle development and regeneration Application of zebrafish model to study peripheral nervous system disorders Neurotoxic effects of $\beta$ -citronellol via KYN to 3-HK metabolic activation	14:00-15:40 / Halla Hall A / ENG Jun Su Kang (Wisconsin Univ.) Seong Kyu Choe (Wonkwang Univ.) Ji Eun Lee (Sungkyunkwan Univ.) Su Hyun Kim (Korea Univ.)
<b>Symposium 2 (IACUC)</b> <b>Post-experiment management of laboratory animals for 3R</b> Considerations for End-Experimental Animals Sharing and Utilization of Animal Biological Resources Laboratory animal rehoming Sharing and Utilization of the Surplus of Experimental Animals	14:00-15:40 / Halla Hall B / ENG Ji Min Lee (Seoul Natl. Univ.) So Young Yune (Ministry of Food and Drug Safety) Jae-Hun Ahn (Seoul Natl. Univ. Hospital) Seung Hyeok Seok (Seoul Natl. Univ.)
<b>AAALAC International</b> <b>Part 1: One-point Lesson to Achieve AAALAC International Accreditation</b> Overview and Update of AAALAC International Accreditation Program Step 1: Preparing the Program Description and Site Visit Step 2: Expectation of the Post Site visit communication and Council Deliberations	14:00-15:40 / Samda Hall / ENG Montip Gettayacamin (AAALAC International) Young-Shin Joo (The Catholic University of Korea) Seung Hyeok Seok (Seoul Natl. Univ.)
<b>Symposium 3</b> <b>Unraveling Immune Networks: Insights from Animal Models</b> TBA Regulation of macrophage activation in cardiovascular diseases Transgenic mouse models: Invaluable tools for humoral immunity Microglial inflammasome-dependent regulation of blood-brain barrier integrity	16:00-17:40 / Halla Hall A / KOR Ju Won Park (University of Hawai'i at Mānoa) Sung Ho Park (UNIST) Youn Soo Choi (Seoul Natl. Univ.) Je Wook Yu (Yonsei Univ.)
<b>Symposium 4 (KLAT Education 1 With KIT)</b> <b>Anatomy and practical Methods for Animal Testing I</b> Assessment of Rodent Respiratory Toxicity and Respiratory Function Experimental technique in gastrointestinal research using rodents Assessment of brain and nervous system function Characteristics and Key Research Methods of the Hematopoietic System	16:00-17:40 / Halla Hall B / KOR Se Ran Yang (Kangwon Natl. Univ.) Jong Hwang Park (Chonnam Natl. Univ.) Jae Ho Shin (Eulji University) Yi Rang Na (Seoul Natl. Univ. Hospital)
<b>AAALAC International</b> <b>Part 2: Our Journey Balancing the Animal Welfare and Good Science by Voluntary Accreditation</b> Program Management Personnel and Research Management Internal Oversight of the Animal Care and Use Program Overall Veterinary Care Provision and Communication Functional Physical Plant	16:00-17:40 / Samda Hall / ENG Hae-Jin Yoon (Korea Institute of Toxicology) Jungmin Lee (Samsung Medical Center) Ji Yeon Hwang (Seoul National University Bundang Hospital) Young-Shin Joo (The Catholic University of Korea) Jeong Hee Park (Korean Animal Technology (KOATECH))

### JULY 25 (THU)

<b>Plenary Lecture 1</b> Insights from rodent models for understanding Diabetic Retinopathy	10:00-11:00 / Halla Hall A, B / ENG Jesús Ruberte (Autonomous University of Barcelona)
<b>Symposium 5</b> <b>Frontiers in Metabolic Regulation: Paving the Way for Therapeutic Insights in Metabolic Diseases and Beyond</b> Elucidating adipocytes functions through development Role of CRT2 in metabolic disorders Targeting Immunometabolic Functions of Adipose Tissue Macrophages: Therapeutic Perspectives from Animal Model Studies	11:00-12:40 / Halla Hall A / ENG Joan Sanchez-Gurmaches (Cincinnati Children's Hospital) Seung Hoi Koo (Korea Univ.) Yun Hee Lee (Seoul Natl. Univ.) ChunA Kim (KRIBB)
<b>Symposium 6</b> TBA Fibrotic Niche-enriched Single-Cell Transcriptomics Uncovers Novel Age-Associated Cell Type in Liver	11:00-12:40 / Halla Hall B / KOR ChunA Kim (KRIBB)
<b>Symposium 7</b> <b>Utility of the Minipigs as Laboratory Animals</b> Development of wound healing agents using minipigs The use of miniature swine for preclinical modeling in cardiovascular research Dermal Toxicity and Efficacy Study using Yucatan Minipig Pharmacokinetic and vaccine research model of miniature pig based on DPF condition	11:00-12:40 / Samda Hall / KOR Sokho Kim (Kunsan National University) Se-Il Park (Yonsei Univ.) Jeong Ho Hwang (Korea Institute of Toxicology) Hyunil Kim (Optipharm Inc.)
<b>Academy Award Presentation</b>	14:00-14:40 / Halla Hall A
<b>Symposium 8</b> <b>Modeling Human Brain Development and Diseases</b> Modeling Neurodevelopmental Disorders Using Human Pluripotent Stem Cells Epitranscriptomic regulations in neurodevelopment and neurodegeneration Human spinal cord organoids as a model system for human neurodevelopment and disease Decoding immune-microbiome-brain axis in a neurodevelopmental disorder mouse model	14:50-16:30 / Halla Hall A / ENG Hyunsoo Shawn Je (Duke-NUS Medical School) Ki Jun Yoon (KAIST) Ju Hyun Lee (KIST) Eun Ha Kim (Korea Univ.)
<b>Symposium 9</b> <b>Recent Trends in Stem Cell &amp; Organoid Research</b> Hair follicle stem cell and tissue regeneration Organoid Modelling of Human Fetal Lung Development Biomaterials and devices for advanced organoid engineering Salivary Gland Organoids for Investigating the Etiology of Xerostomia	14:50-16:30 / Halla Hall B / ENG Han Seul Yang (KAIST) Kyung Tae Lim (Korea Univ.) Seung Woo Cho (Yonsei Univ.) Hyung Sik Kim (Pusan Natl. Univ.)
<b>Symposium 10</b> <b>Exploring Sensory Impairments: In Vivo Studies on Animal Models with Vision and Hearing Defects</b> Establishing Patient-mimicking Mutant Mice for the Development of Gene Editing Therapy Therapeutic Application on Angiogenesis-related Ocular Diseases Allele-specific antisense oligonucleotide ameliorates KCNQ4-related autosomal dominant hearing loss In Vivo Base Editing in Humanized Mice Mimicking Patients with Retinoschisis	14:50-16:30 / Samda Hall / KOR Young Hoon Sung (Ulsan Natl. Univ.) Seok Jae Lee (Seoul Natl. Univ. Hospital) Seung Hyun Jang (Yonsei Univ.) Dong Hyun Jo (Seoul Natl. Univ.)

### JULY 26 (FRI)

<b>Symposium 11</b> <b>Revolution of laboratory rodent health monitoring</b> Health Monitoring of Laboratory Rodent Colonies—Talking about (R)evolution Prevalence of Parvovirus in rodent. – How can we deal with Chappavovirus in SPF rodent? Strategy for Multiplex Real-Time PCR kit development	09:00-10:40 / Halla Hall A / ENG Byeong Cheol Kang (Seoul Natl. Univ.) Yang Kyu Choi (Konkuk Univ.) Ki Taek Nam (Yonsei Univ.)
<b>Symposium 12</b> <b>Cell-Gen Immunotherapy using Humanized Animal Models</b> In vivo and in vitro studies for evaluation of tumorigenicity of cell therapy product Development of CD19 CAR-NK therapy targeting pericytes in the tumor microenvironment using a glioblastoma-blood vessel assembloid xenograft model Assessing the Impact of CRISPR/Cas9 based ex vivo HSC Gene Therapy: Insights from Rhesus Macaque Competitive Repopulation Model	09:00-10:40 / Halla Hall B / ENG Yoji Sato (National Institute of Health Sciences) Kyung Sun Kang (Seoul Natl. Univ.) Byung Chul Lee (Sookmyung Women's Univ.)
<b>Symposium 13 (KMPC 1)</b> <b>Liver diseases in animal models</b> TBA TBA TBA TBA	09:00-10:40 / Samda Hall / KOR Mi-Ock Lee (Seoul Natl. Univ.) Won-Il Jeong (KAIST) Jun-Won Yun (Seoul Natl. Univ.) Kyoung-Jin Oh (KRIBB)
<b>Plenary Lecture 2</b> The current insights into Alzheimer's disease research and advancements in therapeutic development	11:00-12:00 / Halla Hall A, B / ENG Inhee Mook (Seoul Natl. Univ.)
<b>Symposium 14</b> <b>Immunosuppressive treatment and immune monitoring protocol for the preclinical NHP study of xeno solid organ transplantation</b> Immunosuppressive treatment protocol for the xeno solid organ transplantation of NHP preclinical model in China TBA Immunosuppressive treatment protocol for the xeno solid organ transplantation of NHP preclinical model in Korea Monitoring examinations after the xeno solid organ transplantation of NHP preclinical model in Korea	14:00-15:50 / Halla Hall A / ENG Hidetaka Hara (Yunnan Agricultural Univ.) Eiji Kobayashi (The Jikei University School of Medicine) Jae Seok Yang (Yonsei Univ. Sevrance Hospital) Eun Jee Oh (Catholic Univ. Seoul St. Mary's Hospital)
<b>Symposium 15 (KLAT Education 2)</b> <b>Anatomy and practical Methods for Animal Testing II</b> Anatomy and practical Methods for Laboratory animal eyes Normal anatomy and evaluation methods of bone Mouse models for liver cancer; Anatomy, Modeling, and Histopathology	14:00-15:30 / Halla Hall B / KOR Won Tae Kim (KEYPRIME RESEARCH) Jin Seok Kang (Namseoul Univ.) Seung Ho Heo (Asan Medical Center)
<b>Symposium 16</b> <b>Research trends and perspectives of animal models for functional gastrointestinal disease</b> FD(functional dyspepsia) animal models and screening test Effects of vagotomy on GI motility and evaluation as a model animal Development of gastrointestinal disease model animals using Helicobacter pylori Use of human/animal-derived intestinal stem cells and their differentiated cells to mimic intestinal metabolism and physiology	14:00-15:50 / Samda Hall / KOR Chang Gue Son (Daejeon Univ.) Young Su Yang (Korea Institute of Toxicology) Yung Choon Yoo (Konyang Univ.) Kazuya Maeda (Kitasato Univ.)

### JULY 27 (SAT)

<b>Roundtable Meeting</b>	09:30-11:10 / Halla Hall A / KOR
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