

General Information

• 2019 KALAS International Symposium

- **Date** July 17 (Wed) - 20 (Sat), 2019
- **Venue** ICC JEJU, Jeju Island, Korea
- **Organizer** Korean Association for Laboratory Animal Science (KALAS)
- **Sponsor** Korean Federation of Science & Technology Societies (KOFST)
Ministry of Agriculture Food and Rual Affairs (MAFRA)
National Institute of Food and Drug Safety Evaluation (NIFDS)
Rural Development Administration (RDA)
JEJU Tourism Organization (IJTO)
Korean College of Laboratory Animal Medicine (KCLAM)
Korea Mouse Phenotyping Center (KMPC)

• Event

Date	Event	Time	Room
July 17 (Wed)	IACUC Meeting	14:00-15:40	Halla Hall B
	Council Meeting	14:00-17:00	Meeting Room
	Board Meeting	17:00-18:00	Meeting Room
July 18 (Thu)	Opening Ceremony	10:00-10:20	Halla Hall A
	Luncheon 1-3	12:00-13:00	Halla Hall A, B Samda Hall
	Plenary Lecture 1	14:00-15:00	Halla Hall A
	General Meeting & Welcome Reception	18:00-19:00	Ocean View 5F
July 19 (Fri)	Plenary Lecture 2	11:00-12:00	Halla Hall A
	NIBR Workshop	11:00-12:00	Samda Hall
	Luncheon 4-6	12:00-13:00	Halla Hall A, B Samda Hall
	Giveaway & Closing Ceremony	15:50-16:10	Halla Hall A
July 20 (Sat)	Workshop	09:30-11:00	Samda Hall

• Important Dates

- Early Bird Registration Due : June 19 (Wed), 2019
- Abstract Submission Due : June 19 (Wed), 2019

• Registration Fees

Classification	Early bird [2019. 4. 18 - 6. 19]		On-site registration [2019. 7. 17 - 7. 19]	
	Registration fee	+ 2019 Annual fee	Registration fee	+ 2019 Annual fee
Student member	₩ 80,000		₩ 100,000	
General member	₩ 150,000	₩ 180,000	₩ 200,000	₩ 230,000
	₩ 150,000	₩ 200,000	₩ 200,000	₩ 250,000
Council member	₩ 150,000	₩ 200,000	₩ 200,000	₩ 250,000
	₩ 150,000	₩ 200,000	₩ 200,000	₩ 250,000
International member	₩ 150,000		₩ 150,000	
Non-member	₩ 250,000		₩ 300,000	
Exhibitor	₩ 60,000		₩ 80,000	

• Hotel Reservation

Please refer to our website (<http://nm.kalas.or.kr/>)

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July 17 (Wed) - 20 (Sat), 2019
ICC JEJU, Jeju Island, KOREA
Abstract Submission & Registration:
April 18 (Thu) - June 19 (Wed)



The 2019 KALAS Summer International Symposium, entitled with 'Infection, Inflammation and Information', will be held at Jeju International Convention Center (Jeju ICC) in Jeju island from July 16 (Wed) to 19 (Sat) in 2019.

The International Symposium is composed with 2 plenary lectures: 'The impact of the microbiota on animal models and how to handle it' (Prof. Axel Kornerup Hansen, University of Copenhagen) and 'The crucial role of small GTPase Rab25 in cancer and other diseases' (Prof. Ki Taek Nam, Yonsei Univ.), and 17 program sessions including humanized animal models. New Challenge; Lab animal resources, Immune disorders research using lab animal models, Nanotherapy, Single cell genomics in disease models, Marmoset models in biomedical research, Understanding the link between inflammation and cancer, Policy of laboratory animal in drug development, Translational research for biomedical application of gene therapy and genome editing, Natural compound based drug development, Toxicological studies of ultrafine or nanoparticles, Design and management of gnotobiotic grade animal facilities, Role of attending veterinarians and post-approval monitoring program, KLAT Education: GLP/CRO and Lab animal technicians, KLAT Education: Role of laboratory animal technicians in the development of new drugs and medical devices, Nagoya protocols workshop by NIBR, IACUC workshop, etc.

The 1st KALAS-JALAS joint symposium entitled with "Marmoset models in biomedical research" will be also held on July 17. Several young speakers from AFLAS will participate in this international symposium. In addition, lab animal equipments, devices, and facilities from Lab animal-related industries is exhibited during the symposium.

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

I wish all of you participants to 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 really appreciate for those who support for this international symposium. Thank you!

Beom Jun Lee, DVM, Ph.D.
President of KALAS

July 17 (Wed)

Symposium 1 (KLAT Education) 14:00-15:40 / Halla Hall A

GLP/CRO and laboratory animal technicians

Non-clinical tests in new drug development

Yeon Shik Choi (Korea Polytechnics)

Importance of laboratory animal technicians in GLP Kang Hyun Han (KIT)

The skills and role of the laboratory animal technicians in CRO

Do Hyung Kim (KNOTUS)

Comparing the accreditation system of laboratory animal technician in advanced countries
Dae Hwan Kim (KALAT)

Symposium 2 (IACUC) 14:00-15:40 / Halla Hall B

Special considerations of the rehoming plan in protocols

Guidelines for the rehoming of animals used in laboratory studies

Moon Seok Yoon (QIA)

Laboratory animal rehoming program review of foreign countries

Jong Hyun Yoo (Ewha Womans Univ.)

Trends in laboratory animal use in biomedical researches

Byeong Han Lee (KBI0)

Discussion

Symposium 3 (KCLAM) 16:00-17:40 / Halla Hall A

Role of attending veterinarians and post-approval monitoring program

The importance of postapproval monitoring

Dong Jae Kim (DGIST)

Practical examples of PAM in the facility using mice and rats

Jae Bum Ahn (Gachon Univ.)

Post-approval monitoring: SNUH-IACUC Dong Won Lee (Seoul Natl. Univ.)

The role and responsibility of attending veterinarians in laboratory animal facilities
Byeong Han Lee (KBI0)

Colloquium 16:00-17:40 / Halla Hall B

July 18 (Thu)

Symposium 4 10:20-12:00 / Halla Hall A

Humanized animal models

Strategy for development of an animal model that embodied human white matter stroke
Jeong Ho Hwang (KIT)

Translational hematology research for disease modeling and cell therapy using non-human primate hematopoietic stem cells

Kyung Rok Yu (Catholic Univ.)

The effects of HLA mismatched cells in increasing the frequency of CD4+ CD8+ thymocytes in humanized mice model
Ji Yoon Lee (CHA Univ.)

Development of human liver disease models using liver-humanized chimeric mice
Chise Tateno Mukaidani (PhoenixBio, Co., Ltd., Japan)

Symposium 5 (NIFDS) 10:20-12:00 / Halla Hall B

New challenge; laboratory animal resources

Comparative analysis of korn mice established at ministry of food and drug safety in the responses against various diseases

Dae Youn Hwang (Pusan Natl. Univ.)

Overview of center for mouse models of human diseases

Han Woong Lee (Yonsei Univ.)

Utilization of bio-resources of laboratory animal and current status

Min Soo Seo (DGMIF)

Symposium 6 10:20-12:00 / Samda Hall

Pathogenesis and therapeutic mechanism of immune diseases through experimental animal models

Mitochondrial pyruvate dehydrogenase is a metabolic checkpoint for polarization of immune cell
In Kyu Lee (Kyungpook Natl. Univ.)

Rheumatoid arthritis animal model to bedside

Mizuko Mamura (Tokyo Univ., Japan)

IL4 receptor activation in metastatic breast and colon cancer

Barbara M, Fingleton (Vanderbilt Univ., USA)

Selection of Smad2 for TGF-beta to suppress dendritic cells in melanoma

Jeong Hwan Yoon (Kyungpook Natl. Univ. Hosp.)

Plenary Lecture 1 14:00-15:00 / Halla Hall A

The impact of the microbiota on animal models and how to handle it

Axel Kormerup Hansen (Univ. of Copenhagen, Denmark)

Academy Award Presentation 15:00-15:40 / Halla Hall A

Symposium 7 (KLAT Education) 14:00-16:00 / Samda Hall

Role of laboratory animal technicians in the development of new drugs and medical devices

Quiz Event

Planning Committee

Trends in the use of genetic modified animals used in new drug development
Hee Young Yang (DGMIF)

Evaluation of efficacy of new drugs using laboratory animals

Ig Jun Cho (KBI0)

Current status of utilization of animal alternative tests in new drugs and medical devices
Bae Hwan Kim (Keimyung Univ.)

Laboratory animal modeling and medical product evaluation

Moon Yong Song (KCL)

Symposium 8 16:20-18:00 / Halla Hall A

Nanotherapy

Nanomaterials for chondrogenesis
Keun Hong Park (CHA Univ.)

Formation of biomedical nano-assembly for anti-cancer therapy and anti-inflammation
In Kyu Park (Chonnam Natl. Univ.)

Application of nanoarchitected scaffolds for tissue regeneration

Hee Seok Yang (Dankook Univ.)

Dynamic nanoparticle assemblies for biomedical imaging and targeted therapy
Daishun Ling (Zhejiang Univ., China)

Symposium 9 16:20-18:00 / Halla Hall B

Single cell genomics in disease models

Lineage differentiation of innate T cell

You Jeong Lee (POSTECH)

TNF promotes SREBP activity to regulate macrophage polarization and tissue repair
Sung Ho Park (UNIST)

Single-cell transcriptomics of the mouse kidney reveals potential cellular targets of kidney disease
Ji Hwan Park (GIST)

Single cell genomics of beige fat cells in animal model

Je Kyung Seong (Seoul Natl. Univ.)

Symposium 10 (KALAS-JALAS 1st Joint Session) 16:20-18:00 / Samda Hall

Marmoset models in biomedical research

MR Neuroimaging of disease models in the common marmoset

Fumiko Seki (CIEA, Japan)

Development of fundamental production technology for marmoset as a human disease model animal
Ena Nakatsukasa (Niigata Univ., Japan)

The use of a non-human primate model in reproductive medicine

Seung Yub Ku (Seoul Natl. Univ.)

Brain research with primate model: elucidating the parallel basal ganglia circuits for controlled and habitual behavior
Hyoung F. Kim (Seoul Natl. Univ.)

July 19 (Fri)

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

Understanding the link between inflammation and cancer

Immune cell regulation of the induction of pre-cancerous metaplasia in the stomach
James Goldenring (VUMC, USA)

Real-time dynamics of cancer cell recognition by innate immune cells in live mouse bone marrow
Young Min Hyun (Yonsei Univ.)

ROS generation of pro-inflammatory macrophage through NADPH oxidase 2 via endocytosis of monomeric TLR4-MD2 complex
Won Il Jeong (KAIST)

Mechanism of Helicobacter pylori-induced IL-1b production in neutrophils
Jong Hwan Park (Chonnam Natl. Univ.)

Symposium 12 (NIFDS) 09:00-10:40 / Halla Hall B

Policy of laboratory animals in drug development

Direction of laboratory animal policy in Korea

So Hyang Lee (MFDS)

Guideline on health monitoring of laboratory rodents and rabbits in Korea

Yang Kyu Choi (Konkuk Univ.)

Study of pricing for disease mouse model resource

Kebin H Hur (Global I&Company Group)

Application of GLP in biological testing for medical devices

Jae Sung Kwon (Yonsei Univ.)

Symposium 13 09:00-10:40 / Samda Hall

Translational research for biomedical application of gene therapy and genome editing

In vivo gene therapy and genome editing for vision; translational research using animal models of retinopathy
Jeong Hun Kim (Seoul Natl. Univ.)

New Horizon of biomedical research in the era of genome editing

Sang Su Bae (Hanyang Univ.)

Efficient and specific gene knockdown by small interfering RNAs for biomedical application
Linfeng Huang (City Univ. of Hong Kong, Hong Kong)

Cables2 regulates mouse gastrulation by stimulating Wnt/b-catenin signalling pathway
Dinh Thi Huong Tra (Univ. of Tsukuba, Japan)

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

The crucial role of small GTPase Rab25 in cancer and other diseases
Ki Taek Nam (Yonsei Univ.)

Nagoya protocols workshop by NIBR 11:00-12:00 / Samda Hall

Access to genetic resources and benefit-sharing

Hyun Kyung Oh (NIBR)

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

Natural compound based drug development

Investigation of natural products for auditory disorder in animal model

Tong Ho Kang (Kyunghee Univ.)

Development of natural products-based therapeutic candidates against neurodevelopmental disorders
Chan Young Shin (Konkuk Univ.)

Alleviation effects of dolichos lablab on irritable bowel syndrome-like symptoms through gut-brain axis
Mi Rim Jin (Gachon Univ.)

Hair cycle regulatory effects of Jeju algae
Hee Kyoung Kang (Jeju Natl. Univ.)

Anti-inflammatory and anti-nociceptive activities of crude aqueous extract and fractions of Psychotria samentosa leaves

Ratnayake, W. M. K. M. (Univ. of Sri Jayewardenepura, Sri Lanka)

Symposium 15 (NIFDS) 14:00-15:50 / Halla Hall B

Toxicological studies of ultrafine or nanoparticles

Getting to the heart of nanoparticle toxicology

Rodger Duffin (Univ. of Edinburgh, UK)

Biological effects of various nanomaterials in zebrafish embryo

Jin Young Jeong (KRIBB)

Development of ISO standard for evaluating nanotoxicity using zebrafish

June Woo Park (KIT)

Physicochemical parameters related with the toxicity of multiwalled carbon nanotubes
Wan Seob Cho (Dong-A Univ.)

Rational use of laboratory animals in venom and antivenom research: toward improved management of snakebite envenomation in the tropics

Mohammed Abdullah Alshawsh (Univ. of Malayae, Malaysia)

Symposium 16 (Special Subcommittee) 14:00-15:50 / Samda Hall

Design and management of gnotobiotic grade animal facilities

Understanding the operational requirements and equipment of germ free & gnotobiotic animal facilities
Chan Hyung Hong (Woojungbio Inc.)

Design case study and management for medium- and large-size animal facilities
Nam Jo Kim (Nara Control Inc.)

Sterilization method and theory for clean room management

Jae Gil Kim (Hanshin Medical Inc.)

Establishment and use of a new laboratory animal species common marmoset (callithrix jacchus) at Lee Kong Chian school of medicine, animal research facilities
Esther Wong Poh Ying (Nanyang Technological Univ., Singapore)

July 20 (Sat)

Workshop 09:30-11:10 / Samda Hall