Invitation

3rd Asian Congress for Alterative to Animal Experiments

Organized by Korean Society for
Alternatives to Animal Experiments.

The Asian Congress For Alternatives to Animal Experiments (ACAAE) 2022 is being organized by the Korea Society for Alternatives to Animal Experiments (KSAAE) with the cooperation of the Ministry of Food and Drug Safety (MFDS). The Organizing Committee is expecting registering participants from China, India, Japan, and Korea. The Asian Congress is scheduled to be held from 14th to 16th December, 2022, at ICC Jeju, Korea.

The Asian Congress will be the 3rd conference of its kind for researchers from Asia and will afford an opportunity for promoting alternative methods to researchers in these places, where the concept of the Three Rs is just now achieving penetration. The Asian Congress is intended to achieve multiple missions, which will include disseminating information not just on the latest advances in including pure sciences but on practical applications of the Three Rs worldwide.

2022
Chair | **Kim, Kwang-Mahn**
President of KSAAE, Yonsei University

Overview

- **Date** | Dec. 14 (Wed) ~ 16(Fri), 2022
- **Venue** | ICC Jeju, Korea
- **Organizer** | Korean Society for Alternative to Animal Experiments (KSAAE)
- **Sponsor** | KoCVAM, LUSH, AMOREPACIFIC, Biosolution

Important Deadlines

- Registration
  - ·Early Bird | Jun.01(Wed) ~ Sep.16(Fri)
  - ·Standard | Sep.16(Fri) ~ Nov.01(Tue)
- Abstract Submission
  - ·Abstract/Poster submission | ~ Nov.01(Tue)

Registration Fee

Registraton	Student	General
Early Bird	KRW170,000	KRW370,000
Standard	KRW200,000	KRW400,000
Banquet	KRW30,000	

Korean Society for Alternatives to Animal Experiments (KSAAE)
Yonsei Univ. College of Dentistry, 50-1, Yonsei-ro, Seodaemun-gu, Seoul, Republic of Korea
Tel. +82-2-2227-8243 **Fax.** +82-2-364-9961
Email. ACAAE2022@gmail.com **Website.** acaae2022.org

THE 19th
ANNUAL MEETING OF
KSAAE

3rd ASIAN CONGRESS

ALTERNATIVES TO ANIMAL EXPERIMENTS : FROM ASIA TO THE WORLD

2022
12.14.-12.16.
ICC JEJU

Organized by KSAAE JSAAE TATT Hosted by KSAAE

Sponsor KoCVAM 한국동물대체시험법검증센터 LUSH FRESH HANDMADE COSMETICS AMOREPACIFIC Biosolution Co., Ltd.

1st Day (12/14)

Time	Halla Hall	Samda Hall
13:00-13:20	Opening ceremony (Room : Halla Hall)	
13:20-14:10	**PL 1** 3D reconstructed tissue models in toxicology: from initial ideal to regulatory acceptance Dr. Helena Kandarova (ESTIV President)	
14:10-14:20	Coffee Break	
14:20-16:00	**S1** 3Rs	**S2** Novel *in Vitro* test: Development and Application
14:20-14:45	A unique method to form spheroids with various designs Prof. Nobuhiko Kojima (Yokohama City Univ.)	Using *in Vitro* and Machine Learning Approaches to Determine Dioxin-like Potencies Among Birds for Brominated Dioxin Analogues Prof. Rui Zhang (Univ. of Jinan, China)
14:45-15:10	Human iPS Cell-Derived Cardiomyocytes-Based Cardiac Safety Assessment of Drugs Dr. Kentaro Ishida (Myoridge Co. Ltd)	Potential threats of nanoplastic accumulation in human induced pluripotent stem cells Prof. Ju Hyun Park (Kangwon National Univ. , Korea)
15:10-15:35	A 3Rs approach to investigate the barrier models: a 3D perfusion tubular Organ on a chip model Dr. Lisa Franziska Drew (MIMETAS inc. from the Netherland)	Development of novel *in vitro* methods using human iPS cell technology Dr. Yasunari Kanda (National Institute of Health Science, Japan)
15:35-16:00	The Fantastic 4: Simcyp Rat, Mouse, Dog, and Monkey Simulators Dr. Devendra Pade (Certara inc.)	A robotised 1546 compound screen in a perfused 3D microfluidic angiogenesis assay Dr. Henriette Lanz (MIMETAS BV)
16:00-16:30	Coffee Break	
16:30-18:00	**S3** Education session on 3Rs	**S4** Oral Presentation from selected posters
16:30-16:55	Effort against "Challenge Contest" to educate high school students Prof. Nobuhiko Kojima (Yokohama City Univ.)	Max 9 Speakers (10 min presentation) Speakers will be selected based on posters submitted
16:55-17:20	Promotion of Proper Conduct of Animal Experiments Dr. Ichiro Miyoshi (Japanese Association for Laboratory Animal Science)	
17:20-17:45	New technology to reduce the sacrifice of experimental animals while practice anatomy Mr. David Yoo (3D MediVision)	
17:45-18:00	Activities to increase educational opportunities for 3Rs in Japan Prof. Masaharu Akita (Kamakura Women's University)	
18:30-20:00	Welcome dinner (Invited guest) (Room : CS Hotel & resort)	

2nd Day (12/15)

Time	Halla Hall	Samda Hall
09:30-10:20	**PL 2** Development of *in vitro* alternative assay methods for evaluation of chemicals-mediated immunotoxicities considering comprehensive *in vivo* toxicities Prof. Heo Yong (Daegu Catholic Univ., Korea)	
10:20-10:40	Coffee Break	
10:40-12:20	**S5** Cosmetics - safety assessment of cosmetics	**S6** Zebrafish as an alternative models for toxicology
10:40-11:05	Next Generation Risk Assessment to make safety decisions for cosmetic ingredients Dr. Matthew Dent (Unilever, UK)	Disease modeling of rare neurological disorders in zebrafish Prof. Cheol-Hee Kim (Chungnam National University, Korea)
11:05-11:30	Next generation Risk Assessment (NGRA) for skin sensitisation of cosmetic ingredients Dr. Woo-Hyuck Choi (LG H&H, Korea)	Use of zebrafish embryo assay in safety assessment of nanoparticles Dr. Wittaya Pimtong (Nanotec, Thiland)
11:30-11:55	Estimation of dermal permeation and systemic exposure of chemicals through the skin with alternative membrane and *in silico* model Prof. Hiroaki Todo (Josai Univ., Japan)	The use of Zebrafish teratogenicity assay in pharmaceutical companies Dr. Kanako Mori (Astellas Pharma)
11:55-12:20	Application of *in vitro* 3D Reconstructed Human Epidermis Models EpiKutis and EpiSkinTM to Predict Skin Irritation Potential on Formulations Dr. Jing Sang (Zhejiang Institute for Food and Drug Control, China)	Application and practice of zebrafish embryonic development and hepatotoxicity model in safety evaluation with mechanism exploration of traditional Chinese medicine and natural products Dr. Hongtao Jin (Chinese Academy of Medical Sciences &Peking Union Medical College)
12:20-14:00	Lunch seminar (Room : Halla Hall)	
14:00-14:50	**PL 3** High throughput screening and evaluation of chemical substances by Omics Prof. Xiaowei Zhang (Nanjing Univ., China)	
14:50-15:20	Coffee Break	
15:20-16:55	**S7** Medical device safety evaluation	**S8** Organ-on-a-chip as an alternative model for drug screening
15:20-15:45	*in vitro* methods for biocompatibility of medical devices: achievements for irritation and perspectives for skin sensitisation Pellevoisin Christian (MatTek, France)	Research and Development of Microphysiological Systems in Japan supported by the AMED-MPS project Prof. Seiichi Ishida (Sojo Univ., Japan)
15:45-16:05	Pre-clinical safety testing platform for medical devices Dr. Rawiwan Maniratanachote (National Science and Technoloogy Development Agency, Thailand)	Brain-on-a-chip for neurotoxicity tests Prof. Sungho Ko (CHA University)
16:05-16:30	Development and evaluation of alternative methods to skin sensitization tests for medical devices Atsuko Miyazima (National Institute of Health Sciences, Japan)	Human Mini-Brains for Neurological Disorders Prof. Hansang Cho (Sung Kyun Kwan Univ., Korea)
16:30-16:55	Development of alternative test to irritation tests for medical devices Prof. Jae-Sung Kwon (Yonsei Univ., Korea)	Identification of human blood-brain barrier shuttles for brain drug delivery using organ-on-a-chip technology Prof. Tae-Eun Park (UNIST, Korea)
17:00-18:00	**PL 4** Human-relevant replacement methods are ready to take the place of animal experiments Prof. M.A. Akbarsha (Autonomous, tiruchirappalli)	
18:00 -	Banquet (Room : Ocean view(5F))	

3rd Day (12/16)

Time	Halla Hall	Samda Hall
09:30-10:20	**PL 5** Toward ideal prediction of human responses based on physiological in vitro systems - Title: Japanese update Micro Physiologicals System (MPS) Dr. Yasuaki Sakai (Univ. of Tokyo, Former president of JSAAE)	
10:20-10:40	Coffee Break	
10:40-12:20	**S9** Omics as an alternative model; Case-studies and Perspectives	**S10** Artificial intelligenceas an alternative &predictive model
10:40-10:45	Introduction: AFSA Cosmetics Education and Training Program Dr. Catherine Willett (HSI)	Development, Validation, and Application of a Human Reproductive Toxicity Prediction Model Based on Adverse Outcome Pathway, Dr. Wei Shi (Jiangsu Province Ecology and Environment Protection Key Laboratory of Chemical Safety and Health Risk, China)
10:45-11:05	Consumer Exposure Dr. Ted Xing (L'Oréal)	
11:05-11:30	*In silico* tools and Read-Across Dr. Jin Lin (Unilever, China)	Advanced Machine Learning in Predictive Toxicology: Explainable AI Dr. Igor Tetko (Helmholzt institue, Germany)
11:30-11:55	Dosimetry: Internal Exposure Dr. Yuan Gao (Procter &Gamble)	Pushing the boundaries of *in silico* models beyond organic molecular structure-centered chemical space Dr. Hyun-Kil Shin (KIT, Korea, Institute)
11:55-12:20	Regulatory Landscape Dr. Jay Ingram (Delphic HSE)	Development of *in silico* model for skin sensitization evaluation using machine learning Dr. Kaori Ambe (Nagoya City Univ., Japan)
12:20-	Closing ceremony (Room : Halla Hall)