# (사)한국독성학회/한국환경성돌연변이발암원학회

## 2025 제41차 정기학술대회

미래 세대를 위한 독성학: 안전을 넘어 건강하고 지속가능한 사회로

The 41st Annual Meeting of KSOT/KEMS

# **Beyond Safety: Advancing Toxicology** for a Healthier Future and Sustainable Society

November 17 (Mon) ~ 19 (Wed), 2025

- Venue: International Convention Center Jeju, Korea

#### **Plenary Lectures**



**Next-Generation Predictive Toxicology: Scaling** Zebrafish in Vivo Phenotypic Screening

**Robyn L. Tanguay** Vice President-Elect of SOT, Oregon State University, USA



Detoxification of Chalcogen Elements, Selenium and Tellurium in Animals

Yasumitsu Ogra Chiba University, Japan



Advancing Standards to Support Translation of Stem Cells and Organoids

**Tongbiao Zhao** Chinese Academy of Sciences, Beijing, China

#### **Scientific Sessions**

Session 1: (JSOT-KSOT Joint Session) Human-Relevant Toxicology: Stem Cells, Organoids, & MPS

**Session 2:** Reproductive Toxicity

Session 3: Development of Integrated Omics-Based Safety Prediction Evaluation Technology Using Al

**Session 4:** Innovative Technologies in Toxicology

**Session 5:** Al Application in Toxicology

Session 6: Recent Cosmetics Risk Assessment

**Session 7:** Organoid-Based Modeling for Respiratory **Toxicity Assessment** 

**Session 8:** Young Scientist Forum

**Session 9:** KSOT Poster of Distinction

#### **Special Lectures**



Bridging Science, Risk Assessment, and Regulatory Challenges in Inhalation Toxicology: Titanium Dioxide and Beyond

**Gustav Bruer** Fraunhofer ITEM, Germany

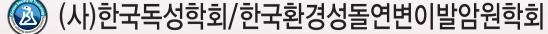


80th Anniversary of Liberation: The History and Future of Toxicology in Korea

Ki Taek Nam Yonsei University, Korea

#### **Award Lecture**

**KSOT Unbong Academic Research Award Presentation** 

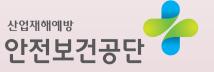




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The 41st Annual Meeting of KSOT/KEMS

# Beyond Safety: Advancing Toxicology for a Healthier Future and Sustainable Society

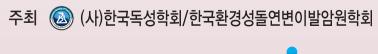
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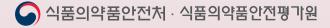
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The 41st Annual Meeting App.

Next-Generation Predictive Toxicology: Scaling Zebrafish in Vivo Phenotypic Screening Robyn L. Tanguny (Vice President-Elect of SOT, Oregon State University, USA)  14:00-15:30  Session 1: Eng Hella Hall Light (JSOT-KSOT) Joint Session Human-Relevant Toxicology: Stem Cells, Organoids, & MPS Chairperson: Minson Noh (Scoul National University)  14:00-14:25  Development of an Intestinal Model for Drug Discovery Using iPS Cell, Organoid, and Organon-a-Chip Technologies Kazuo Takayama (Institute of Science Tokyo, Japan)  14:25-14:45  Development of hiPSC-Derived Liver Organoids as an Alternative Toxicity Throughput Methods for Developmental Toxic Screening Scung-Jin Lee (Korea Institute of Toxicology)  14:45-15:10  Practical Applications and Challenges of Safety Evaluation Using Complex in Vitro Models in the Pharmaceutical Industry Takuma Iguchi (Daiichi Sankyo Co., Ltd., Japan)  15:10-15:30  Neurotoxicity Evaluation of Spironolactone Using Neural Stem Cells Hym-Jung Kim (Chung-Ang University)  15:30-15:50  Coffee Break / Poster Session  Plenary Lecture II  Detoxification of Chalcogen Elements, Selenium and Tellurium in Animals Yasumisu Ogra (Chiba University, Japan)  16:30-18:00  Session 2: Reproductive Toxicity Chairperson: Hyun-Jung Kim (Chung-Ang University)  15:30-15:00  Chairperson: SongAeh Park (National Institute of Food and Drug Safety Evaluation)  16:30-17:00  A Cohort Study Integrating Multi-Omics for		D 11 11		
New Commercial Cheir (President of KSOT, Changbuk National University)   Segroyoun Xing (Director General, National Institute of Food and Drug Safety Evaluation)   Jeong-Doo Heo (President of Korea Institute of Toxicology)	12:00-13:00			
Syung-Chall Choi (President of KSOT, Changlas National University)   Segroyoun Kang (Direct General, National Institute of Food and Drug Safety Evaluation)   Jeong-Doo Heo (President of Korea Institute of Toxicology)   Next-Generation Predictive Toxicology; Scaling Zebrafish in Wor Phenotypic Screening   Robyn L. Tanguay (Vice President-Elect of SOT, Oregon State University, USA)   14:00-15:30		Council Meeting		
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Neurotoxicity Evaluation of Spironolactone Using Neural Stem Cells Hyun-Jung Kim (Chung-Ang University)  15:30-15:50  Coffee Break / Poster Session  15:50-16:30  Halla Hall  Detoxification of Chalcogen Elements, Selenium and Tellurium in Animals Yasumitsu Ogra (Chiba University, Japan)  Session 3:  Development of Integrated Omics-Based Safety Prediction Evaluation Technology Using Al (Sponsored by NIFDS)  Chairperson: SangAeh Park (National Institute of Food and Drug Safety Evaluation)  16:30-17:00  A Cohort Study Integrating Multi-Omics for Precision Therapeutics in Cardiovascular, Kidney, and Metabolic Health Soo Heon Kwak (Seoul National University Hospital)  17:00-17:30  Data Science Approaches to Multi-Omics Analysis for Drug Response and Toxicity Prediction Seunggeun Lee (Seoul National University)  17:30-18:00  Translational Metabolomics: LC-MS/MS-Driven Biomarker Discovery in Diabetic Kidney Disease and Glaucoma Hyunbeom Lee (Korea Institute of Science and Hyunbeom Lee (Chungnam National University)		Practical Applications and Challenges of Safety Evaluation Using Complex <i>in Vitro</i> Models in the Pharmaceutical Industry	Evaluation of Exosome-Derived BPA on the Reproductive and Developmental Toxicity	
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122/1112/12/5 7.1	16:30-18:00	Safety Prediction Evaluation Technology Using Al (Sponsored by NIFDS) Chairperson: SangAeh Park (National Institute of Food and Drug Safety Evaluation)  16:30-17:00 A Cohort Study Integrating Multi-Omics for Precision Therapeutics in Cardiovascular, Kidney, and Metabolic Health Soo Heon Kwak (Seoul National University Hospital)  17:00-17:30 Data Science Approaches to Multi-Omics Analysis for Drug Response and Toxicity Prediction	Chairperson: Hyun-Jung Kim (Chung-Ang University  16:30-17:00  Bridging Data Gaps and Biases in Public Bio-Big Data for Al-Driven Alternatives to Animal Testing Minsoo Noh (Seoul National University)  17:00-17:30  Holotomography and Artificial Intelligence: Label-Free 3D Imaging, Classification, and Inference of Live Unlabeled Organoids	

November 18, 2025 (Tuesday)			
09:00-09:30 Halla Hall	KSOT Unbong Academic Research Award Presentation Chairperson: Kyu-Bong Kim (Dankook University)		
	NRF2-Mediated Regulation of HIF-2α and Cancer Stem Cell Properties Mi-Kyoung Kwak(The Catholic University of Korea)		
09:30-11:00	Session 5: Halla Hall Al Application in Toxicology Chairperson: Ji-Eun Kim (The Catholic University of Korea)	Session 6: Samda Hall Recent Cosmetics Risk Assessment Chairperson: Kyung-Min Lim (Ewha Womans University)	
	09:30-10:00 Adverse Outcome Pathway Framework Based Explainable Al Model for Toxicity Prediction Jinhee Choi (University of Seoul)	09:30-10:00 Advancement of Cosmetic Risk Assessment: Current Trends and Challenges in Cosmetics Ingredients (Others) and Colorants Jung Dae Lee (Dankook University)	
	10:00-10:30 Toxicity Prediction in Al Agent Era Hyun Kil Shin (Korea Institute of Toxicology)	10:00-10:30 Safety Assessment of Cosmetic Ingredients: Practical Case Studies Woo-Hyuck Choi (LG H&H)	
	10:30-11:00  Machine Learning–Driven Prediction of Clinical Toxicity from a Curated Database  Myeong Gyu Kim (Ewha Womans University)	10:30-11:00 Recent Trends in New Approach Methodologies for Safety Assessment of Cosmetics Taehyung Yoon (National Institute of Food and Drug Safety Evaluation)	
11:00-11:20	Coffee Break		
11:20-12:00 Halla Hall	Plenary Lecture III  Chairperson: Mi-Kyoung Kwak (The Catholic University of Korea)		
	Advancing Standards to Support Translation of Stem Cells and Organoids Tongbiao Zhao (Chinese Academy of Sciences, China)		
12:00-13:30	Lunch Poster Session		
13:30-14:10	Special Lecture I  Chairperson: Kyuhong Lee (Korea Institute of Toxicology)	Special Lecture II  Chairperson: Donghak Kim (Konkuk University)	
	Bridging Science, Risk Assessment, and Regulatory Challenges in Inhalation Toxicology: Titanium Dioxide and Beyond Gustav Bruer (Fraunhofer ITEM, Germany)	80th Anniversary of Liberation : The History and Future of Toxicology in Korea Ki Taek Nam (Yonsei University)	
14:10-15:40	Session 7: Halla Hall	Session 8: Samda Hall	
	Organoid-Based Modeling for Respiratory Toxicity Assessment  Chairperson: Taehoon Shin (Jeju National University)	Young Scientist Forum  Chairperson: Bumseok Kim (Jeonbuk National University)	
	14:10-14:40 Lung Organoids as a Model for Unraveling the Cellular and Molecular Toxicity of Air Pollutants Seok-Ho Hong (Kangwon National University)	14:10-14:35 3D Human Liver Organoids to Model "Liver Disease in a Dish" Hyun Young Kim (Dankook University)	
	14:40-15:10 Organoid Modelling of Human Alveolar Development and Lung Diseases Kyungtae Lim (Korea University)	14:35-15:00 Induction of IgE in Non-Allergic Conditions Jaechul Lim (Seoul National University)	
	15:10-15:40 Toxicity Assessment of Industrial Chemical Substances in the Respiratory System Se-Ran Yang (Kangwon National University)	15:00-15:25 Next-Generation Gene and Cell Therapeutics in Alzheimer's Disease Hanseul Park (Chungbuk National University)	
		15:25-15:50 Leveraging Chief Cell-Derived Organoids to Study Cancer Development Mechanisms Haengdueng Jeong (Hanyang University)	
15:50-16:10	Awards Ceremony & Closing Remarks	Halla Hall	





Ocean View Hall



Banquet

18:20

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