

(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

Invitation

존경하는 (사)한국독성학회/한국환경성돌연변이발암원학회 회원 여러분,

한국독성학회에 대한 변함없는 관심과 적극적인 참여해 주심에 깊이 감사드립니다. 올해 제41차 정기학술대회는 “미래 세대를 위한 독성학: 안전을 넘어 건강하고 지속가능한 사회로 (Beyond Safety: Advancing Toxicology for a Healthier Future and Sustainable Society)”의 주제로 11월 17일~19일 기간 동안 아름다운 제주에서 개최합니다.

이번 학술대회에서는 독성학 분야의 세계적인 석학들을 기조강연자로 모셨습니다. 미국 SOT 차기회장이자 Oregon State University의 Robyn L. Tanguay 교수, 일본 Chiba University의 Yasumitsu Ogra 교수와 중국 Chinese Academy of Sciences의 Tongbiao Zhao 교수가 수준 높은 강연을 펼칠 예정입니다. 또한 독일 Fraunhofer ITEM의 Gustav Bruer 박사 및 광복 80주년 기념 우리나라 독성학의 발자취와 미래를 조망할 연세대학교 남기택 교수의 특별강연도 준비되어 있습니다.

이 외에도 9개의 세션에서도 국내외 전문가들을 초청하여 심도 있는 학술 프로그램을 마련했습니다. 주요 주제는 오가노이드 연구 및 생식독성, AI 기반 예측독성, 차세대 독성학 혁신기술, 화장품 위해성평가, 최신 호흡독성 이슈 등으로, 향후 독성과학 연구의 새로운 방향을 함께 모색하는 장이 될 것입니다.

한국독성학회는 지속적인 국제학술교류를 통해 2024년 미국독성학회, 2019년 일본독성학회와의 MOU를 바탕으로 국제 학술 교류를 지속적으로 확대해 왔습니다. 그 일환으로 마련된 JSOT-KSOT Joint 세션에서는 한·일 양국 학회 간 협력을 통한 독성학 발전의 토대가 될 것입니다. 또한 Young Scientist Forum을 통해 신진 독성학자의 성장을 지원하며, 운봉학술대상 및 우수포스터상 시상과 독성전문가 인증식 등 다채로운 행사도 함께 진행됩니다.

이번 학술대회가 학계와 산업계의 발전은 물론, 국민 건강과 복지 증진에도 크게 기여할 것으로 기대합니다.

회원 여러분의 건강과 행복을 기원드리며, 본 행사를 준비해 주신 임원진과 후원기관·후원사에도 깊은 감사의 말씀을 드립니다.

(사)한국독성학회/한국환경성돌연변이발암원학회 회장 최 경 철

November 17, 2025 (Monday)			
12:00	Registration		
12:00-13:00	Council Meeting		
13:00-13:20 Halla Hall	Welcome Remarks Kyung-Chul Choi (President of KSOT, Chungbuk National University) Seogyoun Kang (Director General, National Institute of Food and Drug Safety Evaluation) Jeong-Doo Heo (President of Korea Institute of Toxicology)		
13:20-14:00 Halla Hall	Plenary Lecture I Eng Chairperson: Young-Jin Chun (Chung-Ang University) Next-Generation Predictive Toxicology: Scaling Zebrafish In Vivo Phenotypic Screening Robyn L. Tanguay (Vice President-Elect of SOT, Oregon State University, USA)		
14:00-15:30	Session 1: (JSOT-KSOT Joint Session) Human-Relevant Toxicology: Stem Cells, Organoids, & MPS Eng Halla Hall Chairperson: Minsoo Noh (Seoul National University) 14:00-14:25 Development of an Intestinal Model for Drug Discovery Using iPSC Cell, Organoid, and Organ-on-a-Chip Technologies Kazuo Takayama (Institute of Science Tokyo, Japan) 14:25-14:45 Development of hiPSC-Derived Liver Organoids as an Alternative Toxicity Testing Model Han-Jin Park (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 Hyun-Jung Kim (Chung-Ang University)	Session 2: Reproductive Toxicity Samda Hall Chairperson: Jeong-Hwan Che (Seoul National University Hospital) 14:00-14:30 Development and Relevance Validation of High-throughput Methods for Developmental Toxicity Screening Seung-Jin Lee (Korea Institute of Toxicology) 14:30-15:00 Deep Learning Model to Predict Synergistic Reproductive Toxicity of Consumer Product Mixtures Jongwoon Kim (Korea Research Institute of Chemical Technology) 15:00-15:30 Evaluation of Exosome-derived BPA on the Reproductive and Developmental Toxicity Beum-Soo An (Pusan National University)	
15:30-15:50	Coffee Break / Poster Session		
15:50-16:30 Halla Hall	Plenary Lecture II Eng Chairperson: Keon Wook Kang (Seoul National University) Detoxification of Chalcogen Elements, Selenium and Tellurium in Animals Yasumitsu Ogra (Chiba University, Japan)		
16:30-18:00	Session 3: Development of Integrated Omics-based Safety Prediction Evaluation Technology Using AI (Sponsored by NIFDS) Halla Hall Chairperson: TBA (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 Technology)	Session 4: Innovative Technologies in Toxicology Samda Hall Chairperson: Hyun-Jung Kim (Chung-Ang University) 16:30-17:00 Bridging Data Gaps and Biases in Public Bio-Big Data for AI-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 YongKeun Park (KAIST, Tomocube) 17:30-18:00 Toxicity Evaluation Platform Using a Respiratory Airway Organoid Model Dong Woo Lee (Gachon University)	
18:00-18:20	General Assembly Halla Hall		
18:20	Banquet Ocean View Hall		

Registration

The registration fee includes admission to all scientific sessions, the exhibition, coffee breaks, and an abstract book. Participants are encouraged to register for the 41st Annual Meeting of KSOT/KEMS by October 24, 2025, to take advantage of the reduced fee.

- Early registration can be made through the internet site of KSOT/KEMS (www.ksot.or.kr).

	Early Registration (~ October 24)	On-site Registration	Banquet
KSOT Member	₩160,000	₩200,000	₩10,000 * Banquet : November 17 (Mon) 18:20 Ocean View Hall (5F)
KSOT Student Member	₩100,000	₩120,000	
Non-Member	₩230,000	₩270,000	
Student Non-member	₩120,000	₩140,000	

- Important Dates

Deadline For Early Registration : October 24, 2025
Deadline for Abstract Submission : October 17, 2025

November 18, 2025 (Tuesday)			
09:00-09:30 Halla Hall	KSOT Unbong Academic Research Award Presentation Chairperson: Kyu-Bong Kim (Dankook University) To be announced		
09:30-11:00	Session 5: AI Application in Toxicology Halla Hall Chairperson: Ji-Eun Kim (The Catholic University of Korea) 09:30-10:00 Adverse Outcome Pathway Framework Based Explainable AI Model for Toxicity Prediction Jinhee Choi (University of Seoul) 10:00-10:30 Toxicity Prediction in AI Agent Era Hyun Kil Shin (Korea Institute of Toxicology) 10:30-11:00 Machine Learning-Driven Prediction of Clinical Toxicity from a Curated Database Myeong Gyu Kim (Ewha Womans University)	Session 6: Recent Cosmetics Risk Assessment Samda Hall Chairperson: Kyung-Min Lim (Ewha Womans University) 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 Safety Assessment of Cosmetic Ingredients: Practical Case Studies Woo-hyuck Choi (LG H&H) 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 Eng 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, Beijing, China)		
12:00-13:30	Lunch Poster Session		
13:30-14:10	Special Lecture I Eng Halla Hall Chairperson: Kyuhong Lee (Korea Institute of Toxicology) Bridging Science, Risk Assessment, and Regulatory Challenges in Inhalation Toxicology: Titanium Dioxide and Beyond Gustav Bruer (Fraunhofer ITEM, Germany)	Special Lecture II Samda Hall Chairperson: Donghak Kim (Konkuk University) 80th Anniversary of Liberation : The History and Future of Toxicology in Korea Ki Taek Nam (Yonsei University)	
14:10-15:40	Session 7: Organoid-Based Modeling for Respiratory Toxicity Assessment Halla Hall Chairperson: Taehoon Shin (Jeju 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) 14:40-15:10 Organoid Modelling of Human Alveolar Development and Lung Diseases Kyungtae Lim (Korea University) 15:10-15:40 Toxicity Assessment of Industrial Chemical Substances in the Respiratory System Se-Ran Yang (Kangwon National University)	Session 8: Young Scientist Forum Samda Hall Chairperson: Bumseok Kim (Jeonbuk National University) 14:10-14:35 3D Human Liver Organoids to Model "Liver Disease in a Dish" Hyun Young Kim (Dankook University) 14:35-15:00 Induction of IgE in Non-allergic Conditions Jaechul Lim (Seoul 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		

November 19, 2025 (Wednesday)			
09:00-11:00	Session 9: KSOT Poster of Distinction Rm. 202 Chairperson: Doyoung Kwon (Jeju National University) Ji Won Kim (Jeju National University) Eight awardees oral presentation		

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식품의약품안전처 · 식품의약품안전평가원

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The 41st Annual Meeting App.