

2024 춘계 독성학 워크샵  
첨단바이오의약품 비임상평가 및 최신기법을 활용한 독성평가  
May 23 (Thursday), 2024

2024 춘계 국제심포지움  
2024 KSOT/KEMS Spring International Symposium

Promising Tools for Novel Advances in Toxicology; Focusing on The Organoid Technologies  
(독성학의 새로운 발전을 위한 유망도구 -오가노이드 기술을 중심으로-)  
May 24 (Friday), 2024

- Venue : Samsung Convention Center, Seoul National University, Seoul, Korea

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첨단바이오의약품 비임상평가 및 최신기법을 활용한 독성평가

12:30 등록  
13:20-13:30 개회사 사회 : 윤준원 교수 (서울대학교)  
최경철 회장 (한국독성학회)

13:30-15:30  
Part 1 AI 방법을 활용한 안전성평가  
좌장 : 김형식 교수 (부산대학교)

13:30-14:00 AI 독성 예측: 원리와 활용사례  
신현길 박사 (안전성평가연구소)  
14:00-14:30 AI 기반 약물 발굴 및 개발  
남호정 교수 (광주과학기술원)  
14:30-15:00 소화기암 진단에서 디지털병리와 인공지능의 적용  
이성학 교수 (가톨릭대학교 서울성모병원)  
15:00-15:30 CNN 모델을 활용한 조직병리소견의 평가  
조재우 박사 (안전성평가연구소)

15:30-16:00 Break  
16:00-18:00  
Part 2 첨단바이오의약품 안전성평가  
좌장 : 양세란 교수 (강원대학교)

16:00-16:30 mRNA 백신의 독성평가 기술개발연구  
윤준원 교수 (서울대학교)  
16:30-17:00 항체치료제 개발을 위한 최신 기술들  
김대희 교수 (강원대학교)  
17:00-17:30 항암 아데노바이러스의 안전성평가  
윤채옥 교수 (한양대학교)  
17:30-18:00 세포치료제 개발을 위한 비임상시험 고려사항  
노경환 상무 (크로엔)  
18:00-18:10 총평 및 폐회사

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08:30 Registration  
09:30-09:50 Welcome Remarks  
Kyung-Chul Choi (President of KSOT, Chungbuk National University)  
Youn-joo Park (Director General, National Institute of Food and Drug Safety Evaluation)  
Eun Ju Jeong (President of Korea Institute of Toxicology)

09:50-10:30 Plenary Lecture I  
Chairperson: Keon Wook Kang (Seoul National University)  
Human Organoids for Predictive Toxicology Research and Drug Development  
Tadahiro Shinozawa (Takeda Pharmaceutical Co., Ltd., Japan)

10:30-10:40 Break  
10:40-12:10  
Session 1 : Development of Nonclinical Evaluation Techniques  
Using Specific Organoid Platforms  
Chairperson: Mi-Kyoung Kwak (The Catholic University of Korea)

10:40-11:10 Organoids as A New Preclinical Model for Evaluating Efficacy and Toxicity Materials  
Jongman Yoo (CHA University School of Medicine/Organoid Sciences Ltd.)  
11:10-11:40 Human Skin and Hair Follicle Organoids  
Kyung-Sun Kang (Seoul National University)  
11:40-12:10 Developmental Neurotoxicology Test with Neural Organoid Techniques  
Woong Sun (Korea University)

12:10-13:30 Lunch / Council Meeting  
13:30-14:10 Plenary Lecture II  
Chairperson: Jeong-Hwan Che (Seoul National University Hospital)  
Human Assembloids to Study The Dynamic Cellular Interplay in Human Diseases  
Kunwoo Shin (Seoul National University)

14:10-15:40 Sponsored by KIT  
Session 2 : Cutting-edge Liver Organoid Technology for Drug Development  
Chairperson: Jung-Hwa Oh (Korea Institute of Toxicology)

14:10-14:40 Development of Advanced Human Liver Organoids for Drug Safety Assessment  
Hyemin Kim (Korea Institute of Toxicology)  
14:40-15:10 Metabolic Assessment in Human Liver Organoids  
Im-Sook Song (Kyungpook National University)  
15:10-15:40 Human Liver Progenitor-derived Organoids for Application Studies  
Yohan Kim (Sungkyunkwan University)

15:40-16:00 Break  
16:00-17:30  
Session 3 : Drug Safety Evaluation Using Novel Platforms  
Chairperson: Michael Lee (Incheon National University)

16:00-16:30 Quantitative Estimation of Gut Microbial vs Host Metabolic Contributions in 5-FU Toxicity  
Worm Systems  
Sunghyook Park (Seoul National University)  
16:30-17:00 On The Regulatory Acceptance of A New Toxicological Test Method  
Kyung-Min Lim (Ewha Womans University)  
17:00-17:30 Use of Laboratory Animal Resources Bank for Non-clinical Study  
Jong Kwon Lee (National Institute of Food and Drug Safety Evaluation)  
17:30-17:40 Closing Remarks  
17:40 Reception

주최 (사)한국독성학회/한국환경성물연변이발암원학회

후원 식품의약품안전처 · 식품의약품안전평가원

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