

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 : 임경민 교수 (이화여자대학교)
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 항체치료제 개발을 위한 최신 기술들
김대희 교수 (강원대학교)
16:30-17:00 세포치료제 개발을 위한 비임상시험 고려사항
노경환 상무 (크로엔)
17:00-17:30 항암 아데노바이러스의 안전성평가
윤채욱 교수 (한양대학교)
17:30-18:00 mRNA 백신의 독성평가 기술개발연구
윤준원 교수 (서울대학교)
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/ORGANOIDS 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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