

2023 춘계 독성학 워크샵  
감염병 치료제 비임상평가 및 최신 독성평가  
May 11 (Thursday), 2023

2023 춘계 국제심포지움  
2023 KSOT/KEMS Spring International Symposium

Next Generation Risk Assessment and New Approach Methods  
(차세대 위해평가와 첨단독성시험법)  
May 12 (Friday), 2023

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

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감염병 치료제 비임상평가 및 최신 독성평가

12:30 등록  
13:20 - 13:30 개회사 사회 : 최연식 교수 (한국폴리텍대학)  
천영진 회장 (한국독성학회)

13:30 - 15:30  
Part 1 감염병 치료제의 비임상평가  
좌장 : 김하룡 교수 (대구가톨릭대학교)

13:30 - 14:00 감염병 치료제의 효능평가  
김승택 박사 (한국파스퇴르연구소)  
14:00 - 14:30 혁신신약 개발 규제과학 고려사항  
김종원 박사 (식품의약품안전처)  
14:30 - 15:00 감염병 치료제 개발에서 약물동태 평가  
이경륜 박사 (한국생명공학연구원)  
15:00 - 15:30 감염병 치료제의 임상적 의미  
이재갑 교수 (한림대 강남성심병원)

15:30 - 16:00 Break

16:00 - 18:00  
Part 2 동물대체시험법 및 최신 독성평가  
좌장 : 장민선 교수 (숙명여자대학교)

16:00 - 16:30 Organoid Model을 이용한 동물대체시험법의 활용  
손미영 박사 (한국생명공학연구원)  
16:30 - 17:00 Zebrafish 이용 효능 및 독성평가  
김우근 박사 (안전성평가연구소)  
17:00 - 17:30 AI 활용 신약개발의 효능 및 독성평가  
오경석 박사 (대웅제약)  
17:30 - 18:00 3D Model(인공조직)을 이용한 대체시험법의 실제  
신소라 박사 (바이오톡스텍)  
18:00 - 18:10 총평 및 폐회사

주최 (사)한국독성학회/한국환경성물연변이발암원학회

후원 식품의약품안전처 · 식품의약품안전평가원

KSOT/KEMS Secretariat

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08:30 Registration  
09:30 - 09:50 Welcome Remarks  
Dr. Young-Jin Chun (President of KSOT, Chung-Ang University)  
Dr. Kyung Won Seo (Director General, National Institute of Food and Drug Safety Evaluation)  
Dr. Eun Ju Jeong (President of Korea Institute of Toxicology)

09:50 - 10:30 Plenary Lecture I  
Chairperson: Dr. Kyung-Chul Choi (Chungbuk National University)  
AI-based Analysis of Behavior for Drug Effect and Toxicity  
Dr. Daesoo Kim (KAIST)

10:30 - 10:40 Break

10:40 - 12:10 Sponsored by KIT  
Session 1 : Next Generation Risk Assessment  
Chairperson: Dr. Sooyeon Kim (Korea Institute of Toxicology)

10:40 - 11:10 Next Generation Risk Assessment: Challenges and Opportunities in the Context of (European) Regulatory Background  
Dr. Annette Bitsch (Fraunhofer ITEM, Germany)  
11:10 - 11:40 Translational Cardiotoxicity Model Systems in 2D and 3D Cultures  
Dr. Jan Fiedler (Fraunhofer ITEM, Germany)  
11:40 - 12:10 Development of High-throughput Screening Assays for Hazard Identification and Characterization  
Dr. Michael Oelgeschlaeger (German Federal Institute of Risk Assessment, Germany)

12:10 - 13:30 Lunch / Council Meeting

13:30 - 14:10 Plenary Lecture II  
Chairperson: Dr. Ki Taek Nam (Yonsei University)  
New Methodology for Risk Assessment of Mixtures in the Context of Real-Life Risk Simulation Concept  
Dr. Anca Oana Docea (University of Medicine and Pharmacy of Craiova, Romania)

14:10 - 15:40  
Session 2 : In Silico Toxicology Prediction  
Chairperson: Dr. Minsoo Noh (Seoul National University)

14:10 - 14:40 Development of a Deep Learning Model for Predicting the Synergistic Estrogenic Effects in Binary Mixtures  
Dr. Myungwon Seo (Korea Research Institute of Chemical Technology)  
14:40 - 15:10 Computational Prediction of Peptide Toxicity Using Handcrafted Features and Deep Learning  
Dr. Balachandran Manavalan (Sungkyunkwan University)  
15:10 - 15:40 De Novo Drug Design with Deep Reinforcement Learning to Improve Efficacy and Safety of Drug Molecules  
Dr. Hyun Kil Shin (Korea Institute of Toxicology)

15:40 - 16:00 Break

16:00 - 17:30 Sponsored by NEXEL  
Session 3 : Drug Evaluation Using Stem Cell-based Models  
Chairperson: Dr. Dong-Hun Woo (NEXEL Co., Ltd.)

16:00 - 16:30 Modeling Heart Disease using hiPSC-derived Cardiac Organoids  
Dr. Myeongjin Song (NEXEL Co., Ltd.)  
16:30 - 17:00 Human Pluripotent Stem Cell-derived Alveolar Organoid for Toxicity Assessment  
Dr. Se-Ran Yang (Kangwon National University)  
17:00 - 17:30 Electrochemical Cell-based Chip for Real-time and Non-destructive Drug Screening  
Dr. Tae-Hyung Kim (Chung-Ang University)

17:30 - 17:50 General Assembly  
17:50 - 18:00 Closing Remarks  
18:00 Reception