

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

May 11 (Thursday), 2023		
2023 춘계 독성학 워크샵 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	

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May 12 (Friday), 2023	
2023 춘계 국제심포지움 Next Generation Risk Assessment and New Approach Methods (차세대 위해평가와 첨단독성시험법)	
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	Sponsored by NEXEL 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