



ASIATOX 2021

The 9th International Congress of ASIATOX
The 8th CST Youth Forum of Science & Technology

第九届亚洲毒理学大会

暨中国毒理学会第八次中青年科技论坛

October 20-23, 2021 Hangzhou · China / Virtual

会议指南



Welcome Message

Dear Colleagues and guests,

The Chinese Society of Toxicology is honored to host the 9th International Congress of Asian Society of Toxicology (ASIATOX-IX) from October 20 to 23 in Hangzhou, China.

ASIATOX Congress is sponsored by the Asian Society of Toxicology. It is an important academic event in the Asian region and has proven to be a successful platform in gathering scientists, experts and students together to exchange advanced knowledge and state-of-the-art technologies in the field of toxicology. ASIATOX-IX will bring ASIATOX family together again. On behalf of the Asian Society of Toxicology and the Chinese Society of Toxicology, we are pleased to welcome you to attend the congress virtually or in person at the Blossom Water Museum Hotel in Hangzhou.

The congress theme is “The Asia Toxicology in Big Data Era: from Public Health to Environmental Safety”. The on-site congress proceeds with plenary lectures, symposium sessions and poster display sessions. In conjunction with ASIATOX-IX, Chinese Society of Toxicology holds its 8th Youth Forum on Science and Technology, which has more than 20 sessions organized by domestic scientists and young colleagues. In addition to the above sessions, you will also visit more than 30 exhibitors in the congress exhibition hall.

We hope you all enjoy fruitful academic activities offered by the congress, and also enjoy the natural beauty of the city Hangzhou.



Dr. Pingkun Zhou
Chair, ASIATOX-IX

President, Chinese Society of Toxicology



Dr. Lijie Fu
Chair, ASIATOX-IX

President, Asian Society of Toxicology

组织机构

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Chao Liu Chunying Chen

Deputy Secretary general

Xiangjun Hu Qinjie Weng Qingwei Zhao

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	Hua Guan	Wenjing Luo	Jing Ma
	Shuangqing Peng	Jie Shi	Yunxia Sun
	Quanjun Wang	Zihui Zhao	Li Zhou

Scientific Program At A Glance

Wednesday, 20 October						
14:00-16:00	ASIATOX Council Meeting				On-site/Virtual	Tianhan Hall, 天汉厅
19:30-21:00	CST Council Meeting				On-site	Yuqing Hall, 玉清厅
Thursday, 21 October						
09:00-09:30	Opening Ceremony				On-site/Virtual	Baosheng Hall, 宝盛厅
09:30-11:40	Plenary Lecture				On-site/Virtual	Baosheng Hall, 宝盛厅
	Hall 1/宝盛厅 1	Hall 2/宝盛厅 2	Hall 3/宝盛厅 3	Guofeng Hall/国风厅	Yuqing Hall/玉清厅	Yixiang Hall/溢香居
	On-site/Virtual	On-site/Virtual	On-site	On-site	On-site	On-site
13:30-15:10	S-1 Predictive and Computational Toxicology	S-2 Clinical Toxicology	YT-1 Invited Speakers	VT-1 Veterinary Toxicology Forum invited speakers	RT-1 Respiratory Toxicology Forum Invited Speakers	
15:30-17:30	S-3 Reproductive and Developmental Toxicology	S-4 Organ Chips and Organoids in Toxicology	YT-2: Mechanistic Toxicology(1)	VT-2 Professional Committee General Election	RT-2 Toxicology of Air Pollutants	
Friday, 22 October						
08:00-10:00	S-5 COVID-19 Vaccines and Therapeutics: from Industry to Regulatory Perspectives	S-6 Nonclinical Safety Testing Strategy of Novel Therapies	YT-3 Mechanistic Toxicology(2)	VT-3 Clinical Veterinary Toxicology	RT-3 Molecular Mechanism of Respiratory Toxicology	ZT-1 Zhejiang Society of Toxicology Forum Invited Speakers
10:10-12:00	S-7 ICH M7 Principals and Nitrosamines	S-8 Alternative Toxicity Testing	YT-4 New Technology and Model of Toxicology	VT-4 Basic Veterinary Toxicology	RT-4 Inhalation Toxicity and Safety	ZT-2 MOOC helps to reform the mode of toxicology teaching
13:30-15:20	S-9 Chemical Stewardship through Sustainability Lenses	S-10 Toxicology & Epigenetics Biomarkers and Cancer	YT-5 Applied Toxicology	VT-5 Veterinary Toxicology Young Scholar Forum	RTRA Regulatory Toxicology and Risk Assessment	ZT-3 Toxicology Scholar Forum
15:30-17:30	S-11 Nanotoxicology	S-12 Gut Microbiota and Toxic Effects of Pollutants	YT-6 Exhibition & Poster Viewing/Discussion	VT-6 VT-6: Summary of Veterinary Toxicology	RTRA Regulatory Toxicology and Risk Assessment	ZT-4 Young Scholar Forum Round Table Discussion
Saturday, 23 October						
08:30-11:00	Plenary Lecture				On-site/Virtual	Baosheng Hall, 宝盛厅
10:40-11:15	Award Ceremony of CST / Assembly Meeting of ASIATOX Council					
11:15-11:35	Closing Ceremony					

*All session times above are displayed in Beijing Time.

RT: Respiratory Toxicology Forum

YT: Youth Forum of Science & Technology;

RTRA: Regulatory Toxicology and Risk Assessment

VT: Veterinary Toxicology Forum

ZT: Zhejiang Society of Toxicology Forum

Baosheng Hall, 宝盛厅 (On-site/Virtual)
Opening Ceremony/Plenary Lecture

Thursday, 21 October	
09:00-09:30	Opening Ceremony Chair: Chunying Chen
	Plenary Lecture(PL) Chairs: Yuepu Pu, Jun Kanno
09:30-10:00	PL-1 Toxicology in Asia-past, present, and future Tetsuo Satoh (ATS, EDJSOT, Emeritus Prof., Chiba University)
10:00-10:30	PL-2 The progress of clinical trials of COVID-19 vaccine Fengcai Zhu (Jiangsu Provincial Center for Disease Control and Prevention)
10:30-10:40	Coffee Break
10:40-11:10	PL-3 Data driven candidate-drug safety assessment in large pharma-challenges and opportunities Lalit Kumar Verma (Director of Non-Clinical Safety Data Science at Janssen)
11:10-11:40	PL-4 Evolution of food risk assessment: from public policy making to personal healthy choice Hoonjeong Kwon (Seoul National University)
12:00-13:30	Lunch Break

Baosheng Hall, 宝盛厅 (On-site/Virtual)
Plenary Lecture/Closing Ceremony

Saturday, 23 October	
	Plenary Lecture (PL) Chairs: Hua Li, Salmaan Inayat-Hussain
08:30-9:00	PL-5 Human organs-on-a-chip: a new trend of toxicity testing alternatives Zhongze Gu (School of Biological Science and Medical Engineering, Southeast University)
09:00-09:30	PL-6 Adaptive response and protection against electrophilic stress Yoshito Kumagai (University of Tsukuba)
09:30-10:00	PL-7 Certification and recognition of toxicologists in China Lijie Fu (Chinese Society of Toxicology)
10:00-10:10	Coffee Break
10:10-10:40	PL-8 Advanced glycation end products and diabetic retinopathy: The possible molecular mechanisms involved in angiogenesis effects Meei-Ling Sheu (National Chung Hsing University)
10:40-11:15	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Award ceremony of CST Chair: Chao Liu </div> <div style="width: 45%;"> Assembly Meeting of ASIATOX Council Chair: Lijie Fu </div> </div>
11:15-11:35	Closing Ceremony Chair: Chunying Chen

Hall 1/宝盛厅 1(On-site/Virtual)

Thursday, 21 October	
	S-1: Predictive and Computational Toxicology Chairs: Takashi Yamada, Jingwen Chen
13:30-13:50	Deep learning on molecular structure for estrogen receptor agonism of chemicals Aiqian Zhang (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences)
13:50-14:10	Development and improvement of in silico approaches for accelerating regulatory chemical risk assessment Takashi Yamada (National Institute of Health Sciences in Japan)
14:10-14:30	Machine learning as a powerful tool to analyze complicated biological responses Xiangang Hu (College of Environmental Science and Engineering, Nankai University)
14:30-14:50	Read-across approach for chemical hazard assessment Ying Wang (Procter & Gamble, China) and Soga Kwon (Procter & Gamble, Singapore)
14:50-15:10	Could superoxide radical be implemented in decontamination processes? Ruiyang Xiao (Institute of Environmental Engineering, School of Metallurgy and Environment, Central South University)
15:10-15:30	Coffee Break
	S-3: Reproductive and Developmental Toxicology Chairs: Tsuyoshi Nakanishi, Li Zhou, Ying Jiang
15:30-15:50	Molecular and cellular mechanisms of androgen-driven sex differentiation in murine external genitalia: Toward to insights into the reproductive organotoxicology. Kentaro Suzuki (Wakayama Medical University)
15:50-16:10	Assessment of developmental toxicity caused by organophosphate triesters and their metabolites using zebrafish Akira Kubota (Obihiro University of Agriculture and Veterinary Medicine)
16:10-16:30	Effects of glufosinate-ammonium on male reproductive health: Focus on epigenome and transcriptome in mouse sperm Yankai Xia (School of Public Health, Nanjing Medical University)
16:30-16:50	Exposure to BPS exerts cytotoxic effect on mouse Leydig cells: involvement of mitochondrial dysfunction and defective mitophagy Dalei Zhang (School of Basic Medical Sciences, Nanchang University)
16:50-17:10	A weight of evidence assessment of developmental and reproductive toxicity of diisononyl phthalate under GHS Hanjun Zou (ExxonMobil (China) Investment Co., Ltd.)

Friday, 22 October	
	S-5: COVID-19 Vaccines and Therapeutics: from Industry to Regulatory Perspectives Chairs: Nan Mei, Yongbin Zhang
08:00-08:10	The introduction of SOT and AACT Yongbin Zhang (FDA/CDER, USA)
08:10-08:40	Overview of non-clinical safety assessment for antiviral drugs and vaccines development Hanan Ghantous (FDA/CDER, USA)
08:40-09:10	Non-clinical safety assessment for preventative vaccines development Nabil Al-Humadi (FDA/CBER, USA)
09:10-09:35	Rapid development of REGN-COV2, an anti-spike antibody cocktail for treatment and prevention of COVID-19 Matt Y. Liu (Regeneron Pharmaceuticals, USA)
09:35-10:10	Development of mRNA COVID-19 vaccine BNT162b2 in China Aimin Hui (FosunPharma, China)
10:10-10:20	Coffee Break
	S-7: ICH M7 Principals and Nitrosamines Chair: Joanne Birkebak
10:10-10:15	Opening remarks Joanne Birkebak
10:15-10:40	Introduction-TBD Andreas Hartmann (Novartis)
10:40-11:05	Assessment of nitrosamines in Ames assay Andreas Czich (Sanofi, the Preclinical Safety Operational Center in Frankfurt)
11:05-11:30	Derivation of acceptable intakes for nitrosamines: structural groups and compound-specific limits Michelle Kenyon (Pfizer Research and Development in Groton)
11:30-11:50	Considerations for less than lifetime approach Alejandra Trejo-Martin (Gilead Sciences)

12:00-13:30	Lunch Break
	S-9: Chemical Stewardship through Sustainability Lenses Chair: Salmaan Inayat-Hussain
13:30-13:40	Chemical stewardship through sustainability lenses Salmaan Inayat-Hussain (PETRONAS, Malaysia)
13:40-14:05	Corporate sustainability assessment – rating through the ESG lens Anders Almtoft (S&P Global, Switzerland)
14:05-14:30	Key considerations on selection of safer chemical alternatives Eeva Leinala (OECD, France)
14:30-14:55	Sustainable metrics for green toxicology Alexandra Maertens (Johns Hopkin University, USA)
14:55-15:20	Management of reprotoxicants through the lens of sustainability Masao Fukumura (PETRONAS, Malaysia)
15:20-15:30	Coffee Break
	S-11: Nanotoxicology Chairs: Chunying Chen, Puchun Ke
15:30-15:50	All roads lead to Rome, diverse mechanisms of nanomaterial-induced cell death Tian Xia (University of California, Los Angeles, Medicine)
15:50-16:10	Understanding the aggregation and toxicity of amyloid proteins Puchun Ke (Monash Institute of Pharmaceutical Sciences, Monash University)
16:10-16:30	Use of nano/bio principles to design safer nanomedicine Huan Meng (National Center for Nanoscience and Technology)
16:30-16:50	The biological effect and safety evaluation method of oral ingestion of nanoparticles Yan Li (University of Shanghai for Science and Technology)
16:50-17:10	Cell-nanoparticle interactions and their implications for nanotoxicity Angela Ivask (Institute of Molecular and Cell Biology, Tartu University, Estonia)

Hall 2/宝盛厅 2 (On-site/Virtual)

Thursday, 21 October	
	S-2: Clinical Toxicology Chairs: Chen-Chang Yang, Wei Song
13:30-13:50	Toxicoepidemiologic studies using poison control center data and other databases Sahaphume Srisuma (Division of Toxicology & Clinical Pharmacology, Department of Internal Medicine, Ramathibodi Hospital, Bangkok, Thailand)
13:50-14:10	Christopher Hoyte (Rocky Mountain Poison Center, Toxicology Clinic, University of Colorado Hospital)
14:10-14:30	Pros and cons of using claims data in epidemiologic studies of acute poisoning: CO poisoning as an example. Chen-Chang Yang (Institute of Environmental & Occupational Health Sciences, School of Medicine, National Yang Ming Chiao Tung University)
14:30-14:50	Epidemiological study on poisoning in mainland China Chengye Sun (Chinese Center for Disease Control and Prevention)
14:50-15:10	Pancreatic injury after paraquat ingestion Yi Li (Peking Union Medical College Hospital)
15:10-15:30	Coffee Break
	S-4: Organ Chips and Organoids in Toxicology Chairs: Jos Joore, Lijie Fu
15:30-15:40	Session introduction Lijie Fu (CST) and Jos Joore (MIMETAS)
15:40-16:00	Human tissue models for developing safe and effective therapies Sebastian Trietsch (MIMETAS)
16:00-16:30	Organ-chips and organoids in preclinical safety Michael Bscheider (Roche Innovation Center Basel)
16:30-17:00	Mechanistic investigation of drug-induced organ toxicity utilizing human tissue models Masato Ohbuchi (Astellas Pharma Inc.)
17:00-17:30	3D bioprinting: from organ models to tissues repair Yong He (Mechanical Engineering, Zhejiang University)

Friday, 22 October

	S-6: Nonclinical Safety Testing Strategy of Novel Therapies Chair: Jack Xie
08:00-08:30	Gene therapy and potential safety considerations: Focus on genome integration Jing Yuan (Pfizer)
08:30-09:00	Nonclinical Safety Evaluation of T-cell Immunotherapies Timothy MacLachlan (Novartis Institutes for Biomedical Research)
09:00-09:30	Nonclinical development and FIH enabling of bispecific antibodies Ryan Meng (Janssen China R&D)
09:30-10:00	Safety assessment strategies and key considerations for oligonucleotides Tianyi Jiang (Roche Innovation Center Shanghai)
10:00-10:10	Coffee Break
	S-8: Alternative Toxicity Testing Chairs: Shuangqing Peng, Hajime Kojima
10:10-10:30	Alternative methods for developmental and reproductive toxicity testing regarding ICH S5(R3) Hajime Kojima (Center for Biological safety and Research, National Institute of Health Sciences, Japan)
10:30-10:50	Generation of hierarchical vascularized in vitro tissues based on assembloid printing technology Yuan Pang (Department of Mechanical Engineering, Tsinghua University)
10:50-11:10	SkinEthic™ HCE Time-to-Toxicity testing method for subcategorization of eye irritation Vivien Liu (L'OREAL China R&I Center)
11:10-11:30	Animal alternatives in neurotoxicological research Sheikh Raisuddin (Department of Medical Elementology & Toxicology; Hamdard University, New Delhi, India)
11:30-11:50	Establishment and application of in vitro evaluation model for hepatic developmental toxicity based on Wharton's Jelly stem cells Hao Kou (Zhongnan Hospital of Wuhan University)
11:50-12:10	Integration of in vitro toxicity testing and in silico modeling in chemical risk assessment Jiabin Guo (Centers for Disease Control and Prevention)

12:00-13:30	Lunch Break
	S-10: Toxicology & Epigenetics Biomarkers and Cancer Chairs: Jun Kanno, Yiguo Jiang
13:30-13:50	Histone modification, DNA methylation, and mRNA expression analysis of murine liver repeatedly exposure to a chemical Jun Kanno (Division of Cellular and Molecular Toxicology, Center for Biological Safety Research, NIHS, Kawasaki, Kanagawa, Japan)
13:50-14:10	Role of non-coding RNAs in malignant 16HBE cells transformed by anti-benzopyrene-trans-7,8-dihydrodiol-9,10- epoxide Yun Zhou (Guangzhou Medical University)
14:10-14:30	Value of twin and family studies in environmental epigenetic research Shuai Li (The University of Melbourne)
14:30-14:50	Novel hepatotoxicity biomarkers of exosomal miRNAs acutely induced by CCl4 Ryuichi Ono (National Institute of Health Science)
14:50-15:10	Epigenotoxicity and cancer and related diseases: Future perspectives Mohammad Abdollahi (Tehran University of Medical Sciences)
15:10-15:30	Toxicology and epigenetics biomarkers for arsenic-induced cancer: A population based study from West Bengal, India Pritha Bhattacharjee (University of Calcutta)
15:20-15:30	Coffee Break
	S-12: Gut Microbiota and Toxic Effects of Pollutants Chairs: Ruixue Huang, Cheng-Yuan Kao
15:30-15:50	Radiation and gut microbiota Ruixue Huang (Central South University)
15:50-16:10	Cancer risk of space radiation environment and its regulation by lncRNAs Guangming Zhou (Soochow University)
16:10-16:30	PAHs and cancer Zhihui Feng (Shandong University)
16:30-16:50	Toxicological study based on metabolic evaluation technology Zhongze Fang (Tianjin Medical University)
16:50-17:10	Gut microbiota, metabolism and obesity Cheng-Yuan Kao (National Health Research Institutes)

Hall 3/宝盛厅 3 (On-site, 线下)

Youth Forum of Science & Technology, 中青年科技论坛

Thursday, 21 October	
	YT-1: Invited Speakers 邀请报告 Chairs 主席: Zuyue Sun/孙祖越, Qingshan Wang/王青山
13:30-13:55	Evaluating consumer exposure to disinfecting chemicals against coronavirus disease 2019 (COVID-19) and associated health risks 评估消费者对 2019 年冠状病毒病 (COVID-19) 和相关健康风险的消毒化学品暴露情况 Dingsheng L/李丁生 (University of Nevada Reno 美国内达华大学)
13:55-14:20	The mechanism and role of melatonin in the rapid recovery of platelets post radiation exposure 褪黑激素促进辐射暴露后血小板快速恢复的机制和作用 Shilei Chen/陈石磊 (Third Military Medical University, 第三军医大学)
14:20-14:45	Antitumor effect and biosafety evaluation of metal nanomaterials 金属纳米材料的抗肿瘤作用及生物安全性评价 Jing Liu/刘晶 (Northwest University, 西北大学)
14:45-15:10	Epigenetic mechanism of cell migration and invasion promoted by exposure to endosulfan in human prostate cancer cells 硫丹暴露促进前列腺癌细胞迁移和侵袭的表观遗传机制研究 Dan Xu/徐丹 (Dalian Maritime University, 大连海事大学)
15:10-15:30	Tea Break
	YT-2: Mechanistic Toxicology (1) 机制毒理学-1 Chairs 主席: Qian Bian/卞倩, Hua Wang/王华
15:30-15:50	The role and underlying mechanisms of NOX2 in environmental toxins-induced dopaminergic neurodegeneration NOX2 在环境毒素诱导的多巴胺能神经变性中的作用和潜在机制 Qingshan Wang/王青山 (Dalian Medical University, 大连医科大学)
15:50-16:10	Cholesterol metabolism homeostasis programming mechanism and potential early warning marker of dexamethasone induced hippocampal synaptic injury in offspring 地塞米松致后代海马突触损伤的胆固醇代谢稳态程序化机制及潜在预警标志物 Dan Xu/徐丹 (School of Basic Medical Sciences, Wuhan University, 武汉大学基础医学院)
16:10-16:30	Study on placental pathogenesis for abnormal fetal development caused by environmental cadmium exposure during pregnancy 孕期环境镉暴露致胎儿发育异常的胎盘发病机制研究 Hua Wang/王华 (Anhui Medical University, 安徽医科大学)
16:30-16:50	Integrative effects based on behavior, physiology and gene expression of tritiated water on zebrafish 基于氚水对斑马鱼行为、生理和基因表达的综合影响 Fenmei Cui/崔凤梅 (Institute of Radiological Medicine and Protection, Soochow University, 苏州大学放射医学与防护研究所)
16:50-17:10	Prenatal polycyclic aromatic hydrocarbons exposure and neurodevelopmental retardation: cohort and mechanism study 产前多环芳烃暴露和神经发育迟缓: 队列和机制研究 Jisheng Nie/聂继盛 (Shanxi Medical University, 山西医科大学)
17:10-17:30	RNA m6A epitranscriptome reveals the toxicological mechanisms of metal oxide nanoparticles RNA m6A 表观转录组揭示金属氧化物纳米粒子的毒理学机制 Chengyong He/何承勇 (Xiamen University, 厦门大学)

Friday, 22 October	
	YT-3: Mechanistic Toxicology (2) 机制毒理学 -2 Chairs 主席: Geyu Liang/梁戈玉, Yanling Mou/牟艳玲
08:00-08:25	The mechanism of NLRP3 inflammasome-mediated neuroinflammation in special environmental factors induced neurological impairment NLRP3 炎症小体介导的神经炎症在特殊环境因素诱发神经功能损害中的作用机制 Diya Wang/王迪雅 (Fourth Military Medical University, 第四军医大学)
08:25-08:50	Evaluation of Efficacy and Safety of COVID-19 Vaccine Based on Rhesus Monkey Model 基于恒河猴模型的新冠疫苗有效性和安全性评价 Yichao Tian/田义超 (Hubei Topgene Biotechnology Co., Ltd., 湖北天勤生物科技有限公司)
08:50-09:15	Antifungal agent Terbinafine restrains tumor growth in preclinical models of hepatocellular carcinoma via AMPK-mTOR axis 抗真菌药物特比萘芬通过 AMPK-mTOR axis 抑制肝癌生长 Xiaoyan Yuan/苑晓燕 (Bayer-Bayer CropScience(China) Co., Ltd., 拜耳作物科学 (中国) 有限公司)
09:15-09:40	Elucidate the potential mechanism of Eucommiae Cortex against osteoporosis by network pharmacology 网络药理学阐明杜仲抗骨质疏松的潜在机制 Yun Liu/刘韵 (Guangdong Institute of Biological Products and Pharmaceuticals, 广东省生物制品与药物研究所)
09:40-10:00	Bacterial whole-cell biosensors for visual monitoring of toxic heavy metals in the environment 用于视觉监测环境中有毒重金属的细菌全细胞生物传感器 Changye Hui/惠长野 (Shenzhen Occupational Disease Prevention and Treatment Institute, 深圳市职业病防治院)
10:00-10:20	Tea Break
	YT-4: New Technology and Model of Toxicology 毒理学新技术与模型 Chairs 主席: Zhidong Wang/王治东, Xinyuan Zhao/赵新元
10:20-10:40	Research progress of carcinogenicity model KI.C57-RAS V 2.0 致癌性模型 KI.C57-RAS V 2.0 的研究进展 Changfa Fan/范昌发 (China Institute of Food and Drug Control, 中国食品药品检定研究院)
10:40-11:00	The neurotoxicity and underlying mechanisms of antimony 锑的神经毒性和潜在机制 Xinyuan Zhao/赵新元 (Nantong University School of Public Health, 南通大学公共卫生学院)
11:00-11:20	Screening of administration conditions for inhalation study 吸入研究给药条件的筛选 Yanling Mou/牟艳玲 (Drug Safety Evaluation Center, Shandong Academy of Medical Sciences, 山东省医学科学院药物安全评价中心)
11:20-11:40	Establishment of an in vitro method of rabbit embryo toxicity with toxicokinetics study 兔胚胎毒性体外毒代动力学研究方法的建立 Jun Guo/郭隽 (Shanghai Institute for Biomedical and Pharmaceutical Technologies., 上海市生物医药技术研究院)

12:00-13:30	Lunch Break
	YT-5: Applied Toxicology 应用毒理学 Chairs 主席: Quanjun Wang/王全军, Jisheng Nie/聂继盛
13:30-14:00	Construction of the lung-on-a-chip and its toxicological application 肺芯片的构建及其毒理学应用 Geyu Liang/梁戈玉 (Southeast University School of Public Health, 东南大学公共卫生学院)
14:00-14:30	Preliminary study on the hazard identification of endocrine disruptors 内分泌干扰物危害识别的初步研究 Qian Bian/卞倩 (Jiangsu Provincial Center for Disease Control and Prevention, 江苏省疾病预防控制中心)
14:30-15:00	Postnatal exposure to tetrabromobisphenol A retarded testis development in mice 小鼠出生后接触四溴双酚 A 延迟睾丸发育 Yuanyuan Li/李圆圆 (Chinese Academy of Sciences, 中国科学院)
15:00-15:30	Different sensitivities of mammalian TRPV1 receptors and evaluation of sting evoked by some alkanolamides 哺乳动物 TRPV1 受体的不同敏感性及对某些链烷醇酰胺引起的刺痛的评价 Tian Chen/陈田 (Shanghai Center for Disease Control and Prevention., 上海市疾病预防控制中心)

Guofeng Hall/国风厅 (On-site, 线下) Veterinary Toxicology Forum, 兽医毒理学论坛

Thursday, 21 October	
13:30-14:00	Opening Arrange of Veterinary Toxicology 兽医毒理会前会 Congming Wu, 吴聪明 (China Agricultural University, 中国农业大学)
	VT-1: Invited Speakers 特邀报告 Chair 主席: Xuming Deng/邓旭明
14:00-14:30	Safety evaluation and requirements in the review of new veterinary drugs 新兽药审评中的安全性评价要求 Xia Wang/汪霞 (China Institute of Veterinary Drugs Control, 中检所兽药审评处)
14:30-15:00	Molecular ecotoxicology and risk assessment of veterinary drugs/additives 兽药/添加剂的分子生态毒理学及风险评估 Yongxue Sun/孙永学 (South China Agricultural University, 华南农业大学)
15:00-15:20	Tea Break
	Invited Speakers 特邀报告 Chair 主席: Shijin Bu, 卜仕金
15:20-15:50	Animal foods non-targeted screening of chemical hazards 动物性食品中化学危害物的非靶向筛查 Bing Shao/邵兵 (Beijing CDC, 北京预防疾病控制中心)
15:50-16:20	Protective mechanism of 7-hydroxycoumarin and mettl3/m6A/mirna-873-5p on colistin induced nephrotoxicity 7-羟基香豆素及 METTL3/m6A/miRNA-873-5p 对黏菌素所致肾毒性的保护机制研究 Jianyong Li/李继昌 (Northeast Agricultural University, 东北农业大学)
16:20-17:30	VT-2: Professional committee general election, 专业委员会换届选举
Friday, 22 October	
	VT-3: Clinical Veterinary Toxicology, 临床兽医毒理学 Chair 主席: Xiuying Zhang, 张秀英
08:00-08:20	The molecular mechanism of erythroid differentiation affected by T-2 toxin on K562 cells T-2 毒素影响K562 细胞向红系细胞分化的分子机理研究 Xu Wang/王旭 (Huazhong Agricultural University, 华中农业大学)
08:20-08:40	Aspirin eugenol ester improves paraquat induced oxidative damage by mitochondrial apoptosis 阿司匹林丁香酚酯通过线粒体凋亡途径改善百草枯诱导的氧化损伤 Jianyong Li/李剑勇 (Lanzhou Institute of Husbandry and Pharmaceutical Sciences of CAAS, 中国农科院兰州牧药所)
08:40-09:00	Mechanism of drug interaction mediated by ABC transporter highly expressed in chicken intestinal tract, 鸡肠道高表达的 ABC 转运蛋白介导药物间相互作用的机制 Liping Wang/王丽萍 (Nanjing Agricultural University, 南京农业大学)
09:00-09:20	Molecular mechanism and targeted intervention of polymyxin nephrotoxicity 多黏菌素肾毒性分子机制及靶向干预研究 Chongshan Dai/代重山 (China Agricultural University, 中国农业大学)
09:20-09:40	Research on toxic traditional Chinese medicines and attenuated and synergistic effects 有毒中药及减毒增效研究 Zhihui Hao/郝智慧 (China Agricultural University, 中国农业大学)

09:40-10:00	Tea Break
	VT-4: Basic Veterinary Toxicology, 基础兽医毒理学 Chair 主席: Bing Shao, 邵兵
10:00-10:15	National Veterinary Drug Safety Evaluation Center, 国家兽药安全评价中心
10:15-10:30	South China Agricultural University, 华南农业大学
10:30-10:45	Sichuan Agricultural University, 四川农业大学
10:45-11:00	Huazhong Agricultural University, 华中农业大学
11:00-11:15	United Nations Quality Detection Group Co., Ltd, 西安国联质量检测技术股份有限公司
11:15-11:30	Tianjin Bohai Agriculture and Animal Husbandry United Industry Research Institute Co., Ltd, 天津渤海农牧联合产业研究院有限公司
11:30-11:45	Lanzhou Institute of Husbandry and Pharmaceutical Sciences of CAAS, 中国农科院兰州牧药所
12:00-13:30	Lunch Break
	VT-5: Veterinary Toxicology, Young Scholar Forum, 兽医毒理学青年论坛 Chair 主席: Jianyong Li/李剑勇
13:30-13:40	A proposed "steric-like effect" for the slowdown of enrofloxacin antibiotic metabolism by ciprofloxacin, and its mechanism; 环丙沙星减慢恩诺沙星抗生素代谢的“类位阻效应”的提出及其作用机制 Xaoqing Xu/徐小庆 (Huazhong Agricultural University, 华中农业大学)
13:40-13:50	Effects of florfenicol combined with copper on biofilm formation and nitrogen regulatory gene expression in rhizobia; 氟苯尼考联合铜对根瘤菌生物膜形成及氮调控基因表达的影响 Mei Wang/王美 (South China Agricultural University, 华南农业大学)
13:50-14:00	Investigation of the uptake and transport of aspirin eugenol ester in Caco-2 cells model; 阿司匹林丁香酚酯在Caco-2 细胞模型中的摄取和转运研究 Qi Tao/陶琦 (Lanzhou Institute of Husbandry and Pharmaceutical Sciences of CAAS, 中国农科院兰州牧药所)
14:00-14:10	The VEGFR2/mTOR/S6K1 Signal Pathway In The Angiogenesis Promotion Induced By Roxarsone. VEGFR2/mTOR/S6K1 通路在洛克沙肿促血管生成中的作用 Meng Zhang/张蒙 (Yangzhou University, 扬州大学)
14:10-14:20	Discovery and mechanism of methuosis, a novel cell death, mediates maduramicin- induced cardiotoxicity 一种新型细胞死亡methuosis 介导马度米星铵致心脏毒性的发现与机制 Xiuge Gao/高修歌 (Nanjing Agricultural University, 南京农业大学)
14:20-14:30	Novel Tet(L) efflux pump variants conferring resistance to tigecycline and eravacycline in Staphylococcus spp. 葡萄球菌替加环素和依拉环素耐药新型 Tet(L)变异体的鉴定及功能分析 Nannan Wang/王囡囡 (Henan Agricultural University, 河南农业大学)
14:30-14:40	Aristolochic Acid A-induced hepatotoxicity in Tianfu broilers relates to oxidative stress-mediated apoptosis and mitochondrial damage 马兜铃酸A 诱导的天府肉鸡肝毒性与氧化应激介导的细胞凋亡和线粒体损伤有关 Dan Xu/徐丹 (Sichuan Agricultural University, 四川农业大学)

14:40-14:50	Protective effects of natural products against drug-induced nephrotoxicity: A review in recent years 天然产物对药物肾毒性的保护作用相关研究进展. Chen Gao/高琛 (China Agricultural University, 中国农业大学)
14:50-15:00	Ivermectin induces BCRP/ABCG2 expression and function by regulation of CXR and mRNA stability in chicken primary hepatocytes 伊维菌素通过调节CXR 和mRNA 稳定性诱导鸡原代肝细胞中 BCRP/ABCG2 的表达和功能 Yujuan Zhang/张瑜娟 (Jiangsu University of Science and Technology, 江苏科技大学)
15:00-15:10	Gender differences in metabolism and blood coagulation among rats after a fungicide sodium dehydroacetate exposure 杀菌剂脱氢乙酸钠暴露后大鼠代谢和凝血的性别差异 Xin Chen/陈新 (Yangzhou University, 扬州大学)
15:10-15:20	Mobilization of tet(X4) by IS1 family elements in porcine Escherichia coli isolates. 猪源大肠杆菌中 IS1 家族元件介导tet(X4)基因转移的研究 Runhao Yu/于润浩 (Henan Agricultural University, 河南农业大学)
15:20-15:30	Myricetin attenuates Salmonella mediated cytotoxicity by targeting T3SS 杨梅素靶向III 型分泌系统抑制沙门氏菌介导的细胞毒性作用 Jianfeng Wang/王建锋 (Jilin University, 吉林大学)
15:30-15:40	Aconitine induces cell apoptosis via mitochondria and death receptor signaling pathways in hippocampus cell line 乌头碱通过线粒体和死亡受体信号通路诱导海马细胞凋亡 Hui Wang/王辉 (Northwest A & F University, 西北农林科技大学)
15:40-15:50	New tricks of old drugs: Repurposing an anticoccidial agent halofuginone for cancer therapy, 老药 新用: 将抗球虫药常山酮用于癌症治疗 Dawei Guo/郭大伟 (Nanjing Agricultural University, 南京农业大学)
15:50-16:00	T-2 toxin induces mitochondrial dysfunction, G1-phase arrest, and autophagy in PC12 cells via the activation of ROS/JNK pathways T-2 毒素通过激活ROS/JNK 途径诱导 PC12 细胞线粒体功能障碍、G1 期阻滞和自噬 Tun Sun/孙墩 (China Agricultural University, 中国农业大学)
16:00-16:20	Tea Break
16:20-17:30	VT-6: Summary of Veterinary Toxicology , 兽医毒理学论坛总结

Yuqing Hall/玉清厅 (On-site, 线下)

呼吸毒理学论坛, Respiratory Toxicology Forum

管理毒理与风险评估论坛, Regulatory Toxicology and Risk Assessment

Thursday, 21 October	
	RT-1: Invited Speakers 特邀报告 Chair 主席: Zhiwei Sun/孙志伟
13:30-14:00	Epidemiology and preventive measures of COVID-19 in Wuhan 武汉新冠肺炎的流行病学与预防对策 Tangchun Wu/邬堂春 (Huazhong University of Science & Technology, 华中科技大学)
14:00-14:30	Tobacco hazards and smoking cessation 烟草危害及戒烟 Dan Xiao/肖丹 (China-Japan Friendship Hospital, 中日友好医院)
14:30-15:00	Review of research on the impacts of atmospheric pollution on the lung cancer 大气污染对肺癌的影响 Rongshou Zheng/郑荣寿 (Cancer Hospital Chinese Academy of Medical Sciences, 中国医学科学院肿瘤医院)
15:00-15:30	Association of fine particulate matter air pollution and its constituents with lung function PM2.5 及其组分对慢阻肺患者肺功能的影响 Ting Yang/杨汀 (China-Japan Friendship Hospital, 中日友好医院)
15:30-15:50	Tea Break
	RT-2: Toxicology of Air Pollutants 空气污染物毒理 Chair 主席: Rui Chen/陈瑞
15:50-16:10	Respiratory toxicity induced by acute ozone exposure in rats and the related mechanisms 臭氧急性暴露致大鼠呼吸毒性及相关机制研究 Xiaohua Liu/刘晓华 (Beijing Institute of Pharmacology and Toxicology, 北京药物研究所)
16:10-16:30	Exposure to indoor PM2.5 and phthalic acid esters and respiratory responses in healthy young adults: A randomized, crossover trial of air purification 室内空气中细颗粒物及邻苯二甲酸酯暴露对年轻健康成人的呼吸健康效应 Shaowei Wu/吴少伟 (Xi'an Jiaotong University, 西安交通大学)
16:30-16:50	Research on a new model of COPD based on the mechanism of autoimmunity 基于自免疫机制的新型慢阻肺模型研究 Zhijia Chen/陈志华 (Second Affiliated Hospital of Zhejiang University School of Medicine, 浙江大学医学院附属第二医院)
16:50-17:10	Toxic effects of PM2.5 exposure on adipose tissues PM2.5 暴露的脂肪毒性作用 Cuiqing Liu/刘翠清 (Zhejiang Chinese Medical University, 浙江中医药大学)
17:10-17:30	Exposure to ambient PM2.5 and lung function in children, PM2.5 暴露对儿童肺功能的影响 Tiantian Li/李恬恬 (National Institute of Environmental Health, CDC, 中国疾病预防控制中心环境与健康相关产品安全所)

Friday, 22 October	
	RT-3: Molecular Mechanism of Respiratory Toxicology 呼吸毒理分子机制 Chair 主席: Ting Yang/杨汀
08:00-08:25	Pathogenic mechanism of air pollution on chronic obstructive pulmonary disease, 大气污染对慢阻肺影响的机制研究 Fen Lan/兰芬 (Second Affiliated Hospital of Zhejiang University School of Medicine, 浙江大学医学院附属第二医院)
08:25-08:50	The role and mechanism of NLRP3 inflammasome in inflammation-related lung tumorigenesis NLRP3 炎性体在炎症相关肺癌发生中的作用与机制 Feifei Feng/冯斐斐 (Department of Toxicology, College of Public Health of Zhengzhou University, 郑州大学公共卫生学院卫生毒理学教研室)
08:50-09:15	Alpha-lipoic acid attenuates silica-induced pulmonary fibrosis by regulating oxidative stress and energy homeostasis in mice α -硫辛酸调节小鼠氧化应激及能量稳态抗矽肺纤维化 Yingzheng Zhao/赵英政 (Xinxiang Medical University, 新乡医学院)
09:15-09:40	Transcriptomic-based study of rat silicosis model 基于转录组学的大鼠矽肺模型研究 Jiaqi Lv, Bin Li/吕佳琦, 李斌 (National Institute for Occupational Health and Poison Control, CDC, 中国疾病预防控制中心职业卫生与中毒控制所)
09:40-10:00	The role and molecular mechanism of m6A modification in pulmonary fibrosis development induced by atmospheric particulate matter m6A 修饰在大气细颗粒物致肺纤维化中的作用及分子机制 Rong Zhang/张荣 (Hebei Medical University, 河北医科大学)
10:10-10:20	Tea Break
	RT-4: Inhalation Toxicity and Safety 呼吸毒性安全性评价 Chair 主席: Shaoxi Cai/蔡绍熙
10:20-10:40	Research and development of drug evaluation and action mechanism based on pulmonary function protection 基于肺功能保护的药物评价研发及作用机制探索 Hongtao Jin/靳洪涛 (中国医学科学院北京协和医学院新药安全评价研究中心, New Drug Safety Evaluation Center in Chinese Academy of Medical Sciences & Peking Union Medical College)
10:40-11:00	Quality control of inhaled preparations in non-clinical studies 吸入制剂非临床研究中的质量控制 Xuewu Liu/刘学武 (Hunan Prima Drug Research Center Co., Ltd. 湖南普瑞玛药物研究中心有限公司)
11:00-11:20	The general considerations in non-clinical evaluation of inhalational formulations 吸入制剂临床前评价的一般考虑 Jin Cao/曹瑾 (Joinn Laboratories (Suzhou) Inc. 昭衍(苏州)新药研究中心有限公司)
11:20-11:40	Design strategies and cases of inhalation toxicity tests for pesticides and chemicals 农药和化学品吸入毒性试验设计策略和案例 Zongcheng Wu/吴宗澄 (National Shenyang New Drug Safety Evaluation and Research Center. 国家沈阳新药安全评价研究中心)

12:00-13:30	Lunch Break
	RTRA: Regulatory Toxicology and Risk Assessment, 管理毒理与风险评估论坛 Chairs: Qingsheng Zhang/张庆生, Shuxia Xing/邢书霞
13:30-14:00	Interpretation for technical guidance for cosmetics safety assessment 《化妆品安全评估技术导则》解读 Xinrong Pei/裴新荣 (National Institutes for Food and Drug Control, 中国食品药品检定研究院)
14:00-14:30	Risk assessment and its application from the perspective of industry 行业视角下的风险评估及其应用 Tingting Zhu/朱婷婷 (Procter & Gamble Beijing Innovation Center, 北京宝洁技术有限公司)
14:30-15:00	Overview of control strategies for genotoxic impurities in pharmaceutical chemicals 化学药品中遗传毒性杂质的控制策略 Hua Chen/陈华 (National Institutes for Food and Drug Control, 中国食品药品检定研究院)
15:00-15:20	Tea Break
15:20-15:50	Risk assessment of trace chemicals in consumer products 消费品中痕量物质的风险评估 Haixia Sui/隋海霞 (China National Center for Food Safety Risk Assessment, 国家食品安全风险评估中心)
15:50-16:20	Post-market surveillance of consumer products 消费品安全风险监测 Yue Zhao/Pei Wang/赵越/王沛 (Procter & Gamble (Guangzhou), 广州宝洁有限公司)
16:20-16:50	Toxicological assessment of pesticides metabolites: grouping and read-across 农药代谢物毒性评价: 分组与交叉参照 Xiaoyan, Yuan/苑晓燕, Anja Hueser (Bayer AG, 拜耳股份公司)

Yixiang Hall/溢香居(On-site, 线下)

Zhejiang Society of Toxicology Forum, 浙江省毒理学会论坛

Friday, 22 October	
08:30-09:00	Opening Speech by President of Zhejiang Society of Toxicology Chair: Fanzhu Li/李范珠, Qingwei Zhao/赵青威
	ZT-1: Invited Speakers 特邀报告 Chairs: Xingguo Zhang/张幸国, Wei Yang/杨巍, Zhiyu Chen/陈致宇
09:00-09:40	Inheriting the essence, sticking to the right path and making innovations: the high quality development of Chinese medicine and Healthy China 传承精华, 守正创新: 中医药高质量发展与健康中国 Yongsheng Fan/范永升 (Zhejiang Chinese Medical University, 浙江中医药大学)
09:40-10:20	Real world study on 2019-nCoV vaccine 新冠灭活疫苗真实世界研究 Yuansheng Hu/胡苑笙 (Sinovac Biotech Co.,Ltd. 北京科兴生物制品有限公司)
10:20-10:30	Tea Break
10:30-11:10	Data mining of adverse drug reactions and clinical application 药物不良反应挖掘与临床应用 Qingwei Zhao/赵青威 (The First Affiliated Hospital, Zhejiang University School of Medicine, 浙江大学医学院附属第一医院)
	ZT-2: 主题沙龙 (一) Round Table Discussion MOOC helps to reform the mode of toxicology teaching, 慕课助力毒理学教学模式改革 Chair: Dajing Xia/夏大静
11:10-12:00	特邀嘉宾: 1. Peilin Yu/余沛霖 (Zhejiang University, School of Public Health, 浙江大学公共卫生学院) 2. Cuiqing Liu/刘翠清 (Zhejiang Chinese Medical University 浙江中医药大学) 3. Jin Xu/徐进 (Ningbo University, 宁波大学) 4. Zhen Li/李真 (Ningbo University 宁波大学)
12:00-13:30	LunchBreak
	ZT-3: Toxicology Scholar Forum, 毒理学者论坛 Chairs: Honggang Lou/楼洪刚, Guojun Jiang/蒋国军, Jun Yang/杨军
13:30-14:10	Safety evaluation and toxicokinetic study of benzothioxanthone derivatives 苯并硫杂蒽类衍生物 S3 的安全性评价及毒代动力学研究 Yanling Wu/吴艳玲 (Zhejiang Provincial Center for Disease Control and Prevention, 浙江省疾病预防控制中心)
14:10-14:40	Ambient fine particulate matter on circulating endothelial progenitor cells: sex matters 大气细颗粒物对循环内皮前体细胞的性别差异化影响, Qinghua Sun/孙庆华 (Zhejiang Chinese Medical University, 浙江中医药大学)
14:40-15:20	Toxic effects and molecular mechanisms of nanoparticles 纳米颗粒物的毒效应及分子机制研究 Peilin Yu/余沛霖 (Zhejiang University, School of Public Health, 浙江大学公共卫生学院)

15:20-15:30	Tea Break
	ZT-4: Young Scholar Forum, 青年论坛 Chairs: Xiaoping Chen/陈晓萍, Yuanqiang Lu/陆远强
15:30-15:40	Validation, Optimization, and Application of the Zebrafish Developmental Toxicity Assay for Pharmaceuticals Under the ICH S5(R3) Guideline 依照ICH S5(R3)原则建立斑马鱼发育毒性测试模型及其应用 Yong Zhang, 张勇 (Hangzhou Hunter Biotechnology, Inc.杭州环特生物)
15:40-15:50	Multi-omic profiling reveal the mixture toxicity of difenoconazole and tebuconazole in larval and adult zebrafish 多组学分析揭示苯醚甲环唑和戊唑醇对斑马鱼幼鱼和成鱼联合毒性效应 Jinhua Jiang, 蒋金花 (Zhejiang Academy of Agricultural Sciences, 浙江省农业科学院)
15:50-16:00	Machine learning approach to predict antibiotic resistance genes with low sequence conservation 低保守度细菌耐药基因的机器学习预测模型 Kunkai Su, 苏锟楷 (1st Affiliated Hospital, Zhejiang University, 浙江大学医学院附属第一医院)
16:00-16:10	Cancer Hazard Identification and Exposure Assessment of Perfluorodecanoic Acid 全氟癸酸的癌症危害识别和暴露评估 Zhenya Chen, 陈振亚 (Proya Cosmetics Co., Ltd., 珀莱雅化妆品股份有限公司)
16:10-16:20	The construction of "arsenic prodrug" loaded multifunctional drug delivery system and its in situ activation for the synergistic therapy of liver cancer "砷前药" 负载多功能给药系统的构建及其在肝癌协同治疗中的原位激活 Yue Zhang, 张悦 (Zhejiang Chinese Medical University, 浙江中医药大学)
16:20-16:30	Expert comment, 专家点评
	主题沙龙 (二) Round Table Discussion 创新中药制剂研发与安全性评价 Research, Development and Safety Evaluation on Innovative Drug of Traditional Chinese Medicine Chair: Gaoli Zheng/郑高利
16:30-17:20	特邀嘉宾: 1. Chenping Wen/温成平 (Zhejiang Chinese Medical University 浙江中医药大学) 2. Bilian Chen/陈碧莲 (Zhejiang Institute of Food and Drug Inspection 浙江省食品药品检验研究院) 3. Gang Cao/曹岗 (Zhejiang Chinese Medical University 浙江中医药大学) 4. Gaoli Zheng/郑高利 (Hangzhou Medical College 杭州医学院) 5. Jiangning Hu/胡江宁 (Zhejiang Conba Pharmaceutical Co., Ltd.浙江康恩贝制药有限公司)
17:20-17:30	Discussion and conclusion. 会议讨论总结 Chair: Xingguo Zhang/张幸国

