—Program—

DICP 70th Anniversary Conference (VI):
Metabolic Diseases and Translational Medicine

Conference Energy Conference Center Building, Dalian Institute of Chemical Physics (DICP), Chinese Academy of Sciences

October 27 (Saturday)	
8:00 - 18:30	Arrival and hotel check-in (Invited speakers: Dalian Bay Shore Hotel) Reception banquet(to be defined)
Morning of October 28 (Sunday)	
8:10	Pick-up the invited speakers from Hall of Dalian Bay Shore Hotel to DICP
8:30	**Presided by Prof. Guowang Xu** **Opening Ceremony** **Welcome Speech:** DICP leader: **Prof. Hua Wang** Director of biotechnology department of DICP: **Prof. Shengli Yang**
Presided by Prof. Shengli Yang and Prof. Guowang Xu	
8:45 **P10**	**KN-1:** New analytical methods for proteome driven precision medicine **Prof. Yukui Zhang** *Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China*
9:15 **P12**	**KN-2:** Multi-omics in diabetes precision prevention **Prof. Guang Ning** *State Key Laboratory of Medical Genomes, National Clinical Research Center for Metabolic Diseases, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China*
9:45 **P14**	**KN-3:** Global metabolic reprogramming of cancer **Prof. Masaru Tomita** *Institute for Advanced Biosciences, Keio University, Tsuruoka, Japan*
10:15	Coffee Break & Photo-taking
Presided by Prof. Rong Tian and Prof. Yong Liao	
10:40 **P16**	**KN-4:** Lipid Analysis By Differential Ion Mobility Spectrometry **Ting Liu** *SCIEX China*

11:00 **P18**	**KN-5:** Deciphering the role of cardiac metabolism in health and diseases: looking beyond ATP **Porf. Rong Tian** *University of Washington*
11:20 **P20**	**KN-6:** The metabolic switch: From viral replication to cancer **Prof. Yong Liao** *Chongqing Medical University, Chongqing, China*
11:40 **P22**	**KN-7:** Online and High-Throughput Analysis of Volatile Metabolites by High-Pressure Photon Ionization Mass Spectrometry **Prof. Haiyang Li** *Dalian Institute of Chemical Physics, CAS, Dalian 116023, China*
12:00	**Lunch seminar - Human Metabolome Technologies, Inc.** Conference Hall of Bio-Tech Building, DICP
	Lunch in DICP cafeteria
Afternoon of October 28 (Sunday)	
Presided by Prof. R. Lehmann and Prof. Matej Orešič	
13:30 **P25**	**KN-8:** Lipidomic differentiation between Alzheimer's Disease and mild cognitive impairment by Field-Flow Fractionation and nUHPLC-ESI-MS/MS **Prof. Myeong Hee Moon** *Department of Chemistry, Yonsei University, Seoul, Korea*
13:50 **P27**	**KN-9:** Understanding Metabolic Reprogramming in Diseases using Metabolomics and Metabolic Flux Analysis **Prof. Zeping Hu** *Tsinghua University, Beijing 100084, China*
14:10 **P29**	**KN-10:** HSD17B13: a novel lipid droplet protein important for hepatic lipid homeostasis **Prof. Youfei Guan** *Dalian Medical University, No.9 West Section Lvshun South Road, Dalian, China*
14:30 **P31**	**KN-11:** Linking molecular and functional diabetic pathomechanismsin skeletal muscle and liverby a systems medicine approach **Prof. Rainer Lehmann** *Division of Clinical Chemistry and Pathobiochemistry (Central Laboratory), University Hospital Tübingen, Germany*
14:50 **P34**	**KN-12:** Metabolome *en route* to autoimmunity and overt disease: prospective studies in type 1 diabetes and celiac disease **Prof. Matej Orešič** *Department of Chemistry - Örebro University,Örebro, Sweden*
15:10	**KN-13:** Metabolomics in Diabetic Retinopathy (DR) and Diabetic Kidney Disease (DKD) **Prof. Lei Zhou**

P36	*Department of Ophthalmology, YongLooLinSchool of Medicine, National University of Singapore, 1E Kent Ridge Road, NUHSTower Block Level 7, Singapore 119228, Singapore*
15:30	Coffee Break
Presided by Prof. R. M. Higashi and Prof. Janusz Pawliszyn	
15:45 **P38**	**KN-14:** The Clinical Application of Mass Spectrometry in Children's Diseases **Prof. Lin Zou** *Center for Clinical Molecular Medicine & Newborn Screening Center, Children's Hospital of Chongqing Medical University, 400014*
16:05 **P40**	**KN-15:** Tandem Mass Spectrometry Applications in Newborn Screening and Beyond **Prof. David Millington** *Duke University School of Medicine*
16:25 **P42**	**KN-16:** Metabolic Reprogramming Elucidation in the Cancer Tumor Microenvironmentof Human Subjects via multi-element Stable Isotope Resolved Metabolomics (mSIRM) **Prof. Richard M. Higashi** *Department of Toxicology and Cancer Biology, University of Kentucky, NIHResource Center for Stable Isotope Resolved Metablomics*
16:45 **P45**	**KN-17:** Metabolomics in the study of liver diseases **Prof. Huichang Bi** *School of Pharmaceutical Sciences, Sun Yat-sen University, Guangzhou, China*
17:05 **P47**	**KN-18:** Breath Analysis and Tailored Point-of-care Monitor for Perioperative Homeostasis **Prof. Enyou Li** *Department of Anesthesiology, Harbin Medical University*
17:25-17:45 **P50**	**KN-19:** Chemical biopsy based on SPME approach: a new medical tool **Prof. Janusz Pawliszyn** *Department of Chemistry, University of Waterloo, Waterloo, ON, Canada*
18:00	**Speaker Dinner**

Morning of October 29 (Monday)	
8:10 Pick-up the invited speakers from the Hall of Dalian Bay Shore Hotel to DICP	
Presided by Prof. A. Sickmann and Prof. Liang Li	
8:30 **P53**	**KN-20:** Towards the comprehensive analysis of metabolome **Prof. Guowang Xu** *Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China*
8:50 **P56**	**KN-21:** Chemical Isotope Labeling Nanoflow LC-MS for Comprehensive Metabolomic Profiling of Samples with Limited Amounts **Prof. Liang Li** *Department of Chemistry, University of Alberta*
9:10 **P58**	**KN-22:** Translation of lipidomic technologies towards quatification of blood lipids and their natural variations **Prof. Markus R. Wenk** *Singapore Lipidomics Incubator (SLING), Life Sciences Institute, National University of Singapore, 28 Medical Drive, Singapore 117456*
9:30 **P62**	**KN-23:** Shotgun Lipidomics Sheds Light on Diabetic Neuropathy **Prof. Xianlin Han** *Institute for Longevity and Aging Studies, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78229, United States*
9:50 **P64**	**KN-24:** Multi-omics tools to study platelet function **Prof. A. Sickmann** *Leibniz-Institutfür Analytische Wissenschaften-ISAS-e.V., Dortmund, Germany*
10:10 **P67**	**KN-25:** Utilising metabolic profiling and inflammation markers as diagnostic tools **Prof. Robert Trengove** *Separation Science and Metabolomics Laboratory, Murdoch University, Perth, WA 6150, Australia*
10:30	Coffee Break
Presided by Prof.Robert Plumb and Prof. Oliver J. Schmitz	
10:45 **P69**	**KN-26:** Five-dimensional analysis (LC+LC-IM-qTOF-MS) for complex samples such as metabolome, lipidome or proteome **Prof. Oliver J. Schmitz** *University of Duisburg-Essen, Faculty of Chemistry, Applied Analytical Chemistry, 45141 Essen, Germany*

11:05 P72	**KN-27:** Robust Reproducible LC/MS Based Metabolomic Profiling of Large Cohort Human Studies Using Validated High Throughput Targeted and Discovery Assays **Prof. Robert Plumb** *Imperial college London*
11:25 P75	**KN-28:** IGF-1 induced ENO2 deacetylation by HDAC3 promotes the liver metastasis of pancreatic cancer **Prof. Qiongzhu Dong** *Department of General Surgery, Huashan Hospital and Cancer Metastasis Institute and Institutes of Biomedical Sciences, Fudan University, Shanghai, 200032, China.*
11:45 P77	**KN-29:** Critical role of metabolic reprogramming in mediatingsorafenib resistance in hepatocellular carcinomas **Prof. Yang Liu** *Dalian Institute of Chemical Physics, CAS, Dalian 116023, China*
12:05	**Lunch seminar - Sciex** Conference Hall of Bio-Tech Building, DICP
	Lunch in DICP cafeteria
Afternoon of October 29 (Monday)	
Presided byProf. Huafeng Zhang and Prof. Shuhai Lin	
13:30 P79	**KN-30:** Regulation of cancer cell metabolism under tumor microenvironment stress **Prof. Huafeng Zhang** *Hefei National Laboratory for Physical Sciences at Microscale, CAS Key Laboratory of Innate Immunity and Chronic Disease, Innovation Center for Cell Signaling Network, School of Life Sciences, University of Science and Technology of China, Hefei, 230027, China*
13:50 P81	**KN-31:** The role of biological and physicochemical factors of the tumor microenvironment in understanding the biology, drug development, and personalized medicine in multiple myeloma **Prof. Kareem Azab** *Cancer Biology Division,Department of Radiation Oncology, School of Medicine, Washington University in Saint Louis. Washington University School of Medicine, MO 63108*
14:10 P84	**KN-32:** Prenatal Obesogen Exposure Leads to a Transgenerational Thrifty Phenotype IN MICE **Prof. Bruce Blumberg** *Departments of Developmental & Cell Biology, Pharmaceutical Sciences and Biomedical Engineering, University of California Irvine.*
14:30 P86	**KN-33:** Lipidomics and Risk Stratification of aortic dissection and thoracic aortic aneurysm **Prof. Yuan Wang** *Beijing Anzhen hospital of capital medical university*

14:50 **P88**	**KN-34:** Identification of metabolic targets for cancer initiation and progression **Prof. Shuhai Lin** *School of Life Sciences, Xiamen University, Xiamen, Fujian 361102, China*
15:10	Coffee Break
Presided byProf. Prof. Qiang Liu and Prof. Hai-long Piao	
15:30 **P90**	**KN-35:** Metabolomics Deciphers Therapeutic Discovery of Small-Molecules *In Vivo* **Prof. Haitao Lu** Shanghai Jiao Tong University, Shanghai 200240, China
15:50 **P92**	**KN-36:** Chronic stress reprogram glucose metabolism promoting cancer stem cell **Prof. Quentin Liu** *Dalian Medical University, No.9 West Section Lvshun South Road, Dalian, China*
16:10 **P94**	**KN-37:** Novel functions of IKKβ in cardiometabolic disease **Prof. Changcheng Zhou** *Pharmacology & Nutritional Sciences, Director of Center for Metabolic Disease Research, University of Kentucky*
16:30 **P96**	**KN-38:** Ubiquitination and Deubiquitination in Cancer Metabolism **Prof. Hai-long Piao** *Dalian Institute of Chemical Physics, CAS, Dalian 116023, China*
16:50 **P98**	**KN-39:** Dye-inhibitor Conjugate: from Fluorescence Imaging to Photo-theranostics **Prof. Xiaojun Peng** *State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian 116024, China*
17:20	Close ceremony
18:00	**Dinner**