



## Program of

# DICP Symposium (XXXIII) on Bioanalytical Methods, Techniques and Applications

1. Highly Efficient Separation and Characterization of Biological Samples
2. New Generation Metabolomics Techniques and Their Applications in Precision Medicine

Chairman: Prof. Guowang Xu & Prof. Mingliang Ye

Dalian, China  
April 25-27, 2017



中国科学院大连化学物理研究所

DALIAN INSTITUTE OF CHEMICAL PHYSICS, CHINESE ACADEMY OF SCIENCES

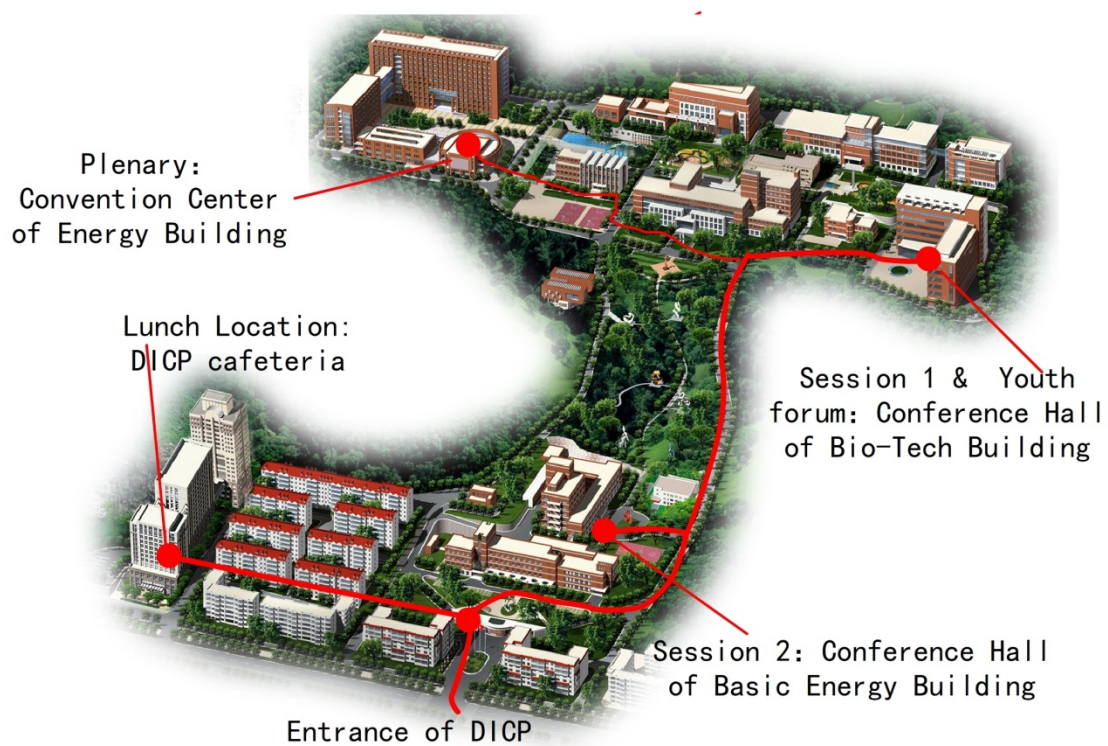


Technologies

**PEAK**  
SCIENTIFIC



## Map of DICP



## Program of DICP Symposium (XXXXIII)

### Whole day of April 25 (Tuesday)

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Arrival and hotel check-in (Bayshore Hotel Dalian)

18:40 Reception Banquet

### Morning of April 26 (Wednesday): Plenary Lectures

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#### Convention Center of Energy Building, DICP

8:00 Pick-up the invited speakers from Bayshore Hotel Dalian to DICP

8:30 Opening Ceremony

**Presided by Prof. Shengli Yang**

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8:30-8:35 Director of DICP: Opening address

8:35-8:50 Prof. Guowang Xu, Introduce and memory Prof. Hanfa Zou

8:50-9:35 **PL1** Metabolic Phenotyping in Personalised and Public Healthcare  
**Jeremy Nicholson**

*Department of Surgery and Cancer, Faculty of Medicine, Imperial College London, UK*

9:35-10:00 Photo, Coffee Break

**Presided by Prof. X. Chris Le**

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10:00-10:30 **PL2** Application of 3D printing techniques for analysis of metal species and metallomics

**Guibin Jiang**

*State Key Laboratory of Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, CAS, China*

10:30-11:00 **PL3** Capillary zone electrophoresis for bottom-up proteomics

**Norman J. Dovichi**

*Department of Chemistry and Biochemistry, University of Notre Dame, USA*

11:00-11:30 **PL4** The foundation of molecular medicine: A chemical biology approach

**Weihong Tan**

*Biomedical Engineering, Physiology and Functional Genomics Hunan University, China*

- 11:30-12:00 **PL5** From bioanalysis to biofunction characterization:  
a simple introduction of research in the biotech-building of DICP  
**Guowang Xu**  
*CAS Key Laboratory of Separation Science for Analytical Chemistry,  
Dalian Institute of Chemical Physics, Chinese Academy of Sciences,  
Dalian, China*
- 12:10 Lunch in DICP cafeteria

### **Afternoon of April 26 (Wednesday)**

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#### **Session I : Highly efficient Separation and Characterization of Biological Samples**

**Conference Hall of Bio-Tech Building, DICP**

**Presided by Prof. Frantisek Svec and Prof. Peter Schoenmakers**

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- 13:30-13:50 **KN I -1** Porous polymer-based monolithic columns: 25 years old and still growing  
**Frantisek Svec**  
*The Molecular Foundry, E.O. Lawrence Berkeley National Laboratory,  
Berkeley, USA*
- 13:50-14:10 **KN I -2** New Materials and Reagents for Efficient Enrichment and Identification of Glycosylated Proteins and Peptides  
**Xiaohong Qian**  
*State Key Laboratory of Proteomics, National Center for Protein Sciences, Beijing, China*
- 14:10-14:30 **KN I -3** Droplet generation and its application in cell analysis and mass spectrometry  
**Jinming Lin**  
*Department of Chemistry, Tsinghua University, Beijing, China*
- 14:30-14:50 **KN I -4** Two-dimensional and three-dimensional approaches to high-resolution separations  
**Peter Schoenmakers**  
*Van 't Hoff Institute for Molecular Sciences, Faculty of Science,  
University of Amsterdam, The Netherlands*
- 14:50-15:10 **KN I -5** LC-MS determination of gibberellins in floral organs from a single tiny flower of *arabidopsis thaliana*  
**Yi Chen**  
*CAS Key Laboratory of Analytical Chemistry for Living Biosystems,  
Institute of Chemistry, Chinese Academy of Sciences, Beijing, China*

15:10-15:30 **KN I -6** Novel online sample preparation media for complicated samples analysis coupling with high-performance liquid chromatography

**Gongke Li**

*School of Chemistry, Sun Yat-sen University, Guangzhou, China*

15:30-15:50 Coffee Break

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**Presided by Prof. Daniel Figeys and Prof. Zheng Ouyang**

15:50-16:10 **KN I -7** Proteomics from Dalian to Ottawa

**Daniel Figeys**

*Ottawa Institute of Systems Biology and Department of Biochemistry, Microbiology, and Immunology, University of Ottawa, Ottawa, Canada*

16:10-16:30 **KN I -8** Single-cell analysis with ESI-MS

**Xinrong Zhang**

*Department of Chemistry, Tsinghua University, Beijing, China*

16:30-16:50 **KN I -9** Magnetic Resonance Spectroscopy As a Tool for Assessing Macromolecular Structure and Dynamics in Living Cells

**Maili Liu**

*CAS Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, National Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, China*

16:50-17:10 **KN I -10** Mass Spectrometry Technologies for Point-of-Care Biomedical Diagnostics

**Zheng Ouyang**

*Department of Precision Instrument, Tsinghua University, China*

17:10-17:30 **KN I -11** A holistic/systematic approach to unravel druggable target(s) for the treatment of metabolic/chronic diseases

**Zemin Yao**

*Department of Biochemistry, Microbiology and Immunology, Faculty of Medicine, University of Ottawa, Ottawa, Canada*

17:30-17:50 **KN I -12** Structural and Functional Analyses of Glycoproteins Using Mass Spectrometry

**Hui Zhang**

*Department of Pathology, Johns Hopkins University, Baltimore, Maryland 21287, USA*

18:10 Conference Dinner

## Afternoon of April 26 (Wednesday)

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### **Session II: New generation metabolomics techniques and their applications in precision medicine**

**Conference Hall of Basic Energy Building, DICP  
Presided by Prof. Liang Li and Prof. Rainer Lehmann**

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- 13:30-13:55 **KN II-1** Large scale metabolomics analysis and its applications in precision medicine based on UPLC-MS  
**Guowang Xu**  
*Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China*
- 13:55-14:20 **KN II-2** Understanding Human Health and Disease With LC/MS Based Metabolic Phenotyping  
**Robert Plumb**  
*Dept Surgery and Cancer, Imperial College, London, UK*
- 14:20-14:45 **KN II-3** Chemical Isotope Labeling LC-MS for Routine Quantitative Metabolomic Profiling with High Coverage  
**Liang Li**  
*Department of Chemistry, University of Alberta, Edmonton, Alberta, Canada*
- 14:45-15:10 **KN II-4** New Methods for Improved Quantitation and Reliable Coverage in Metabolomics  
**Daniel Raftery**  
*Department of Anesthesiology and Pain Medicine, University of Washington, and Public Health Sciences, Fred Hutchinson Cancer Research Center, Seattle, USA*
- 15:10-15:35 **KN II-5** Precision medicine: How to elucidate the organ origin of metabolites in human plasma?  
**Rainer Lehmann**  
*Division of Clinical Chemistry and Pathobiochemistry, Department of Internal Medicine IV, University Tuebingen, Germany*
- 15:35-15:50 Coffee Break
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- Presided by Prof. Tuulia Hyötyläinen and Prof. Jianhua Qin**
- 15:50-16:15 **KN II-6** GOLM1 Modulation of EGFR/RTK Cell-Surface Recycling Drives Hepatocellular Carcinoma Metastasis  
**Lun-Xiu Qin**

*Department of General Surgery, Huashan Hospital, Cancer Metastasis Institute, Fudan University, Shanghai, China*

16:15-16:40 **KN II-7** Fingerprints of cirrhosis complications by seric NMR metabolomics

**Philippe Savarin**

*University Paris 13, France*

16:40-17:05 **KN II-8** Aberrant MYC-driven hydroxyproline metabolism promotes hepatocellular carcinoma progression

**Yang Liu**

*Scientific Research Center for Translational Medicine, Department of Biotechnology, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China*

17:05-17:30 **KN II-9** Metabolic markers of Nonalcoholic Steatohepatitis for classification of the status of the disease

**Tuulia Hyötyläinen**

*School of Science and Technology, University of Örebro, Sweden*

17:30-17:55 **KN II-10** Organs-on-chips and Future Medicine

**Jianhua Qin**

*Microfluidics Research Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China*

18:10 Conference Dinner

## **Morning of April 27 (Thursday)**

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### **Session I : Highly efficient Separation and Characterization of Biological Samples**

8:00 Pick-up the invited speakers from Bayshore Hotel Dalian to DICP

**Conference Hall of Bio-Tech Building, DICP**

**Presided by Prof. Yingming Zhao and Prof. Lingjun Li**

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8:30-8:50 **KN I -13** New lysine acylation pathways - an update

**Yingming Zhao**

*Ben May Department for Cancer Research, The University of Chicago, Chicago, USA*

8:50-9:10 **KN I -14** Targeted Quantitative Proteomic Approaches for Interrogating the Human Kinome

**Yinsheng Wang**

*Department of Chemistry, University of California Riverside, Riverside,*

CA, USA

- 9:10-9:30 **KN I -15** Novel approaches to cell proteome analysis by covalent binding of proteins followed by nano LC-MS identification  
**Xiangmin Zhang**  
*Department of Chemistry, Fudan University, Shanghai, China*
- 9:30-9:50 **KN I -16** Advancing High-Throughput Proteomics and Metabolomics via Development of Multiplexed Isobaric Tags  
**Lingjun Li**  
*School of Pharmacy and Department of Chemistry, University of Wisconsin at Madison, Madison, Wisconsin, USA*
- 9:50-10:10 **KN I -17** Functional Proteomics and the Pathway to Precision Medicine  
**Shawn Li**  
*Canada Research Chair in Functional Genomics and Proteomics  
Professor, Department of Biochemistry, Western University, London, Ontario, Canada*
- 10:10-10:30 Coffee Break
- Presided by Prof. Weiguo Andy Tao and Prof. David Da Yong Chen**
- 10:30-10:50 **KN I -18** Phosphoproteins in Extracellular Vesicles as Candidate Markers for Breast Cancer  
**Weiguo Andy Tao**  
*Department of Biochemistry, Purdue University, West Lafayette, USA*
- 10:50-11:10 **KN I -19** Expression of Chirality of Cysteine Derivatives in Their Coordination Polymers of Ag<sup>+</sup>  
**Yun-Bao Jiang**  
*Department of Chemistry, College of Chemistry and Chemical Engineering, the MOE Key Laboratory of Spectrochemical Analysis and Instrumentation, and iChEM, Xiamen University, Xiamen, China*
- 11:10-11:30 **KN I -20** Capillary Electrophoresis and Capillary Isoelectric Focusing Coupled to Mass Spectrometry for Biomolecules  
**David Da Yong Chen**  
*Department of Chemistry, University of British Columbia, Vancouver, BC, Canada*
- 11:30-11:50 **KN I -21** Industrialized Proteomics Solutions for Precision Medicine  
**Lihai Guo**  
*AB SCIEX*



12:20 Lunch in DICP cafeteria

## Afternoon of April 27 (Thursday)

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### **Session I : Highly efficient Separation and Characterization of Biological**

#### **Samples**

**Conference Hall of Bio-Tech Building, DICP  
Presided by Prof. Yuanhua Shao and Prof. Xing-Fang Li**

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- 13:30-13:50 **KN I -22** Fabrication, Characterization of Glass Pipettes and Their Applications in Analytical Chemistry  
**Yuanhua Shao**  
*College of Chemistry and Molecular Engineering, Peking University, China*
- 13:50-14:10 **KN I -23** Measurement of trace organic residues in food matrix by HPLC-IDMS method  
**Qinghe Zhang**  
*Division of Metrology in Chemistry, National Institute of Metrology, China*
- 14:10-14:30 **KN I -24** Silica based separation materials and industrial applications in pharmaceuticals purification  
**Xinmiao Liang**  
*CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China*
- 14:30-14:50 **KN I -25** Mass Spectrometry Identification of N-chlorinated Dipeptides in Drinking Water  
**Xing-Fang Li**  
*Laboratory Medicine and Pathology, Faculty of Medicine and Dentistry, University of Alberta Edmonton, AB Canada*
- 14:50-15:10 **KN I -26** Micro-scale matrix solid-phase dispersion coupled with ultra-performance liquid chromatography-tandem mass spectrometry for spatial profiling of gibberellins in a single leaf  
**Yafeng Guan**  
*CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China*
- 15:10-15:30 **KN I -27** Determination of Brassinosteroids in Plant Tissues by Stable Isotope Labeling–Liquid Chromatography–Mass Spectrometry

**Yu-Qi Feng**

*Department of Chemistry, Wuhan University, Wuhan, China*

15:30-15:50 Coffee Break

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**Presided by Prof. Huwei Liu and Prof. Lanqun Mao**

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15:50-16:10 **KN I -28** Development and applications of analytical system for clinical lipidomics

**Huwei Liu**

*Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, China*

16:10-16:30 **KN I -29** Cell Analysis with Droplet-Based Microfluidic Technique

**Qun Fang**

*Institute of Microanalytical Systems, Department of Chemistry, Zhejiang University, Hangzhou, China*

16:30-16:50 **KN I -30** Enabling Biosensors for In Vivo Analysis

**Lanqun Mao**

*CAS Key Laboratory of Analytical Chemistry for Living Biosystems, Dalian Institute of Chemical Physics, the Chinese Academy of Sciences (CAS), Beijing, China*

16:50-17:10 **KN I -31** From single cell analysis to nanomachine in live cells

**X. Chris Le**

*Division of Analytical and Environmental Toxicology, Department of Laboratory Medicine and Pathology, University of Alberta, Edmonton, Alberta, Canada*

17:10-17:25 **KN I -32** The Status of DICP 1809 group for the post Zou era

**Mingliang Ye**

*CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China*

17:25-17:30 Prof. Yukui Zhang, Make a Closing Remarks

18:30 Conference Dinner

**Morning of April 27 (Thursday)**

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**Session II: New generation metabolomics techniques and their applications in precision medicine**

- 8:00 Pick-up the invited speakers from Bayshore Hotel Dalian to DICP  
**Conference Hall of Basic Energy Building, DICP**  
**Presided by Prof. Zhi-Hong Jiang and Prof. Albert Sickmann**
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- 8:20-8:45 **KN II -11** Simultaneous Metabolite, Protein, Lipid Extraction (SIMPLEX): A combinatorial multimolecular omics approach for systems biology  
**Albert Sickmann**  
*Leibniz-Institut für Analytische Wissenschaften-ISAS e.V.*  
*Otto-Hahn-Str. 6b, Dortmund, Germany*
- 8:45-9:10 **KN II -12** Glycomic Approach for Discovering Trace Sulfated N-Glycans on IgGs as Biomarkers for Rheumatoid Arthritis  
**Zhi-Hong Jiang**  
*State Key Laboratory of Quality Research in Chinese Medicine,*  
*Macau University of Science and Technology, Macau, China*
- 9:10-9:35 **KN II -13** Online and Real-time analysis of Volatile Biomarkers by High-Pressure Photon Ionization Mass Spectrometry  
**Haiyang Li**  
*CAS Key Laboratory of Separation Science for Analytical Chemistry,*  
*Dalian Institute of Chemical Physics, Chinese Academy of Sciences,*  
*Dalian, China*
- 9:35-10:00 **KN II -14** The Application of Breathomics in VOCs Biomarkers Analysis of Systemic Diseases and Cancer Cells  
**Enyou Li**  
*Department of Anesthesiology, the First Affiliated Hospital of Harbin Medical University, Harbin, China*
- 10:00-10:25 **KN II -15** Discovering new metformin regulated metabolic pathways through metabolomics  
**Hai-long Piao**  
*Scientific Research Center for Translational Medicine, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China*
- 10:25-10:40 Coffee Break
- Presided by Prof. Tangchun Wu and Prof. Xianlin Han**
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- 10:40-11:05 **KN II -16** Shotgun Lipidomics reveals severe losses of myelin lipids specific to type 2 diabetes mellitus  
**Xianlin Han**  
*Center for Metabolic Origins of Disease, Sanford Burnham Prebys Medical Discovery Institute, Orlando, USA*

- 11:05-11:30 **KN II -17** Identify new risks for prevention of metabolic diseases by the combination of prospective cohort and bioanalytical methods  
**Tangchun Wu**  
*Key Laboratory of Environment and Health, Ministry of Education and State Key Laboratory of Environmental Health (Incubating), School of Public Health, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, Hubei, China*
- 11:30-11:55 **KN II -18** PPAR $\gamma$  in Cardiac Remodeling- Metabolomic Profiling, Transcriptional and MicroRNA-mediated Mechanisms  
**Nanping Wang**  
*The Advanced Institute for Medical Sciences, Dalian Medical University, Dalian, China*
- 11:55-12:20 **KN II -19** The Lipidyzer: The Convergence of Differential Ion Mobility and Mass Spectrometry to the Next Generation Lipidomics Analysis Platform  
**Paul RS Baker**  
*SCIEX, Framingham, MA USA*
- 12:20 Lunch in DICP cafeteria

### **Afternoon of April 27 (Thursday)**

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#### **Session II: New generation metabolomics techniques and their applications in precision medicine**

**Conference Hall of Basic Energy Building, DICP  
 Presided by Prof. Jane J. Yu and Prof. Dan Ye**

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- 13:30-13:55 **KN II -20** Biological implications of neural membrane lipid dynamics during normative aging  
**Guanghou Shui**  
*State Key Laboratory of Molecular Developmental Biology, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China*
- 13:55-14:20 **KN II -21** Dysregulation of lipid metabolism in the progression of tuberous sclerosis complex (TSC)  
**Jane J. Yu**  
*University of Cincinnati, College of Medicine; Cincinnati, USA*
- 14:20-14:45 **KN II -22** Bringing quantitative steroid profiling into clinical endocrinology and reproductive biology  
**Man-Ho Choi**  
*Molecular Recognition Research Center, Korea Institute of Science and*

*Technology, Seoul, Korea*

- 14:45-15:10 **KN II -23** Therapeutic Targeting of IDH1/2 Mutations in Cancer: Mechanistic Insights and Clinical Perspectives  
**Dan Ye**  
*Institute of Biomedical Sciences, Shanghai Medical College; School of Basic Medical Sciences, Fudan University, Shanghai, China*
- 15:10-15:35 **KN II -24** Targeting distinctive metabolic pattern in cancer cells  
**Chunzhang Yang**  
*Neuro-Oncology Branch, Center for Cancer Research, National Cancer Institute, Bethesda, USA*
- 15:35-16:00 **KN II -25** Mass spectrometry-based metabolic analysis and the application in understanding the tumor metabolism  
**Zeping Hu**  
*School of Pharmaceutical Sciences, Tsinghua University*
- 16:00-16:15 Coffee Break
- Presided by Prof. Coral Barbas and Prof. Yi Yang**
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- 16:15-16:40 **KN II -26** Genetically encoded fluorescent sensors reveal dynamic regulation of redox metabolism in living cells  
**Yi Yang**  
*Shanghai Collaborative Innovation Center for Biomanufacturing Technology, East China University of Science and Technology, Shanghai, China*
- 16:40-17:05 **KN II -27** Considerations for postmortem studies in brain with metabolomics  
**Coral Barbas**  
*CEMBIO (Centre for Metabolomics and Bioanalysis), Facultad de Farmacia, Universidad CEU San Pablo, Campus Monteprincipe, Boadilla del Monte, Madrid, Spain*
- 17:05-17:30 **KN II -28** Emerging methods in microbiome analysis: from metagenome to ramanome  
**Jian Xu**  
*CAS Key Laboratory of Biofuels, Shandong Key Laboratory of Energy Genetics, Qingdao Institute of BioEnergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, Shandong, China*
- 17:30-17:55 **KN II -29** Spatial Profiling of Small Molecule Metabolites and Drugs in Tissue Section using Ambient Mass Spectrometry Imaging  
**Xin Li**  
*State Key Laboratory of Bioactive Substance and Function of Natural*

*Medicines, Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China*

17:55-18:20 **KN II -30** Metabolomics Based on Two-dimensional NMR

**Kaifeng Hu**

*State Key Laboratory of Phytochemistry and Plant Resources in West China, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming, Yunnan, China*

18:20-18:25 Prof. Guowang Xu, Closing Remarks

18:30 Conference Dinner

## **April 28 (Friday)**

Departure of delegates



**Program of**  
**DICP Symposium (XXXXIII)**  
**on**  
**Bioanalytical Methods, Techniques**  
**and Applications**

**Youth Forum**

**Chairman: Prof. Mingliang Ye**

**Dalian, China**

**April 25, 2017**



## Program of Youth Forum

### Whole day of April 24 (Monday)

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18:30 Arrival and hotel check-in (Air China Hotel Dalian)  
Reception banquet

### Morning of April 25 (Tuesday)

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#### Conference Hall of Bio-Tech Building, DICP

10:25-10:30 Opening Ceremony, **Presided by Prof. Mingliang Ye**

#### **Presided by Prof. Hailin Wang**

10:30-10:45 **L-1** Rapid determination of low-copy-number proteins and microRNAs in a single living cell

**Zhen Liu**

*State Key Lab of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University*

10:45-11:00 **L-2** Biofunctionalized nanovehicles for multiple targeted and markers-triggered drug delivery

**Qianhao Min**

*State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University*

11:00-11:15 **L-3** Developing predictive toxicology methods for nanosafety assessment

**Ruibin Li**

*School for Radiological and interdisciplinary science, Soochow University*

11:15-11:30 **L-4** The fabrication of sulphobetaine based monolithic column via one-pot methods and its application in hydrophilic interaction chromatography

**Yingzhuang Chen**

*Key Laboratory of Phytochemical R&D of Hunan Province, Key Laboratory of Chemical Biology & Traditional Chinese Medicine Research, Ministry of Education, Hunan Normal University*

11:30-11:45 **L-5** Screening and Identification of Bioactive Peptides from Hydrolysates by LC-MS/MS

**Yan Jin**

*CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences*



11:45-12:00 **L-6** Preparation of immobilized metal affinity chromatographic materials for life analysis  
**Shun Feng**  
*School of Life Science and Engineering, Southwest Jiaotong University*

12:00- **Lunch Seminar**

### **Afternoon of April 25 (Tuesday)**

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**Presided by Prof. Zhen Liu**

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13:30-13:45 **L-7** Proteomics Analysis of Extracellular Vesicles in Body Fluids for Cancer Detection  
**Hua Xiao**  
*State Key Laboratory of Microbial Metabolism, School of Life Sciences and Biotechnology, Shanghai Jiao Tong University*

13:45-14:00 **L-8** Proteomics toolbox for profiling intercellular signaling  
**Ruijun Tian**  
*Department of Chemistry, Southern University of Science and Technology*

14:00-14:15 **L-9** Molecular Mechanisms of Oncogene Myc-induced Apoptosis  
**Houjiang Zhou**  
*Department of Biochemistry, University of Cambridge*

14:15-14:30 **L-10** Analysis of drug metabolizing enzyme isoforms by the combination of proteomics and chemical probe-based assay  
**Lianghai Hu**  
*School of Life Sciences, Jilin University*

14:30-14:45 **L-11** Probing the lysine proximal microenvironments within membrane protein complexes by active dimethyl labeling and mass spectrometry  
**Fangjun Wang**  
*CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences*

14:45-15:00 **L-12** Integrate Strategy for Analysis of Protein Glycosylation in Human Serum  
**Hongqiang Qin**  
*CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences*

15:00-15:15 **Discussion**

15:15-15:40 **Coffee Break**

**Presided by Prof. Lihua Zhang**

15:40-15:55 **L-13** DNA N6-methyladenine modification from unicellular eukaryotes to mammals

**Hailin Wang**

*State Key Laboratory of Environmental Chemistry and Ecotoxicology,  
Research Center for Eco-Environmental Sciences, Chinese Academy of  
Sciences*

15:55-16:10 **L-14** Recent Progress on Polysaccharide Derivative Chiral Stationary Phases and Their Applications

**Xiaoming Chen**

*Daicel Chiral Technologies China Co., Ltd*

16:10-16:25 **L-15** On-beads isotopic dimethyl labeling coupled with liquid chromatography-high resolution mass spectrometry for quantification of sulfonamides

**Minghuo Wu**

*School of Food and Environment, Dalian University of Technology*

16:25-16:40 **L-16** Synthesis of polymeric capillary monoliths via thiol-maleimide polymerization reaction for highly efficient capillary chromatographic separation

**Junjie Ou**

*Key Laboratory of Separation Science for Analytical Chemistry, Dalian  
Institute of Chemical Physics, University of Chinese Academy of  
Sciences*

16:40-16:55 **L-17** Tracking metals in living cells

**Ligang Hu**

*State Key Laboratory of Environmental Chemistry and Ecotoxicology,  
Research Center for Eco-Environmental Sciences, Chinese Academy of  
Sciences*

16:55-17:10 **Discussion**

18:40 Reception Banquet