

Program of 2018 Sino-Japanese Joint Symposium on Separation Sciences

Honorary Chairman: Prof. Yukui Zhang
Chairman: Prof. Guowang Xu & Prof. Koji Otsuka

Dalian, China
July 11-12, 2018



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Forward

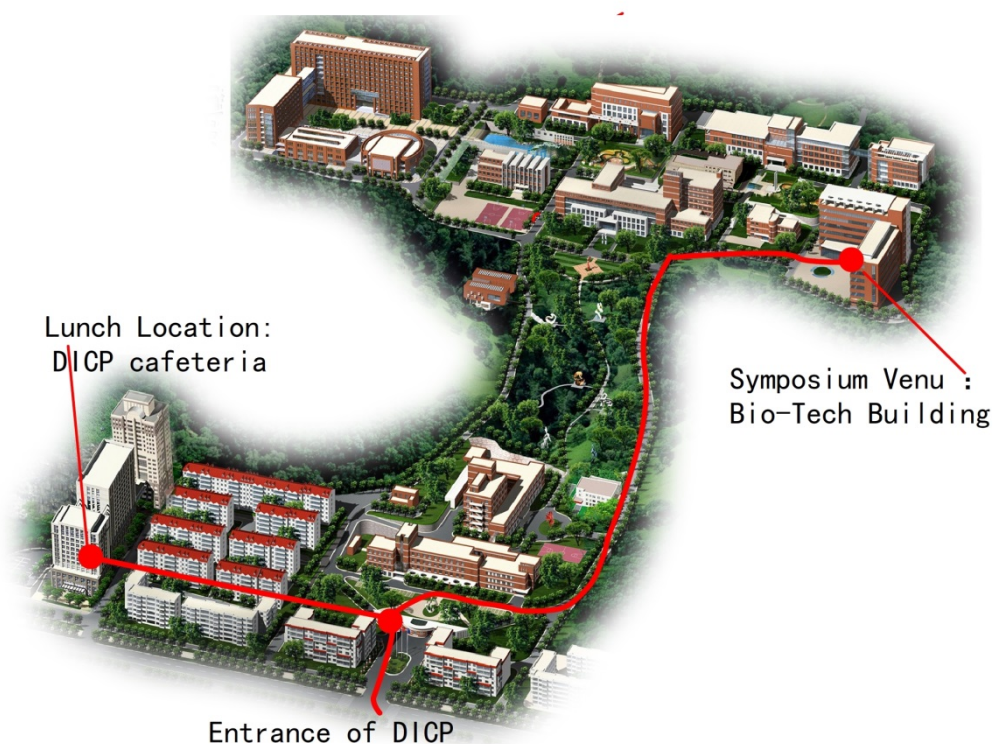
“2018 Sino-Japanese Symposium on Separating Science” will be held on July 11-12, 2018, Dalian, China. The local organizer in China is Dalian Institute of Chemical Physics, Chinese Academy of Sciences. The conference Chairmen are Prof. Guowang Xu and Prof. Koji Otsuka. The Symposium is sponsored by the Dalian Institute of Chemical Physics, Chinese Academy of Sciences and SHIMADZU (CHINA) CO., LTD.

It has had a long history of Sino-Japanese academic exchanges and cooperation on chromatography. The 1st Sino-Japanese Seminar on Separation Sciences was held in Dalian, China in July 2000.

The symposium aims to report state-of-the-art separation techniques, and discuss the frontier topics in separation/analytical chemistry. 15 Chinese and 15 Japanese famous scientists in Chromatography and micro-separation science fields have been specially invited to participate in this Sino-Japanese Joint Symposium on Separation Sciences. Through exchanging idea between the Chinese and Japanese participants, we believe that the Symposium will be a very successful initiation for future cooperation.

June 10, 2018

Map of DICP



Contact information:

Hotel:

Dalian Xinghai Golf Hotel
No.29 Xinhe Road, Shahekou District, Dalian, China
TEL: +86-411-82193333

Symposium:

Prof. Guowang Xu, Chairman
TEL: +86-411-84379530 Mobile phone: +86-13604267286
E-mail: xugw@dicp.ac.cn

Ms. Xiaoli Hou
TEL: +86-411-84379520 Mobile phone: +86-13704092526
E-mail: [houxl@dicp.ac.cn](mailto:houxli@dicp.ac.cn)

— Program —

2018 Sino-Japanese Joint Symposium on Separation Sciences

Conference Hall of Bio-Tech Building, Dalian Institute of Chemical Physics (DICP),
Chinese Academy of Sciences

Whole day of July 10 (Tuesday)

- Arrival and hotel check-in (Dalian Xinghai Golf Hotel)
18:30 Reception banquet (Multifunctional Hall of Dalian Xinghai Golf Hotel)

Morning of July 11 (Wednesday)

- 8:10 Pick-up the participants from Hall of Dalian Xinghai Golf Hotel to DICP

Presided by Prof. Guowang Xu

- 8:30 Opening Ceremony

Welcome Speech
Deputy director of DICP

Presided by Prof. Yi Chen and Prof. Koji Otsuka

- 8:45 **KN-1: CAPILLARY ELECTROPHORESIS OF ALL IONS IN DRINKS**

Prof. Yi Chen

Institute of Chemistry, Chinese Academy of Sciences, Beijing, China

- 9:10 **KN-2: SPONGY MONOLITH AS A NOVEL SEPARATION MEDIUM FOR CAPILLARY LIQUID CHROMATOGRAPHY**

Prof. Koji Otsuka

Kyoto University, Japan

- 9:35 **KN-3: APPLICATION OF PARTIAL FILLING AFFINITY CAPILLARY ELECTROPHORESIS USING LECTINS AND EXOGLYCOSIDASES FOR THE CHARACTERIZATION OF GLYCOPROTEIN-DERIVED OLIGOSACCHARIDES**

Prof. Shigeo Suzuki

Kindai University, Japan

- 10:00 Coffee Break

Presided by Prof. Jun Haginaka and Prof. Yuqi Feng

- 10:25 **KN-4: NEEDLE-TYPE EXTRACTION DEVICE FOR DETERMINATION OF VOCS**

Prof. Ikuo Ueta

University of Yamanashi, Japan

10:50 **KN-5: PREPARATION AND APPLICATION OF COTTON FIBER-BASED ADSORBENTS TO THE ENRICHMENT OF PHOSPHOPEPTIDES AND GLYCOPEPTIDES**

Prof. Yuqi Feng

Wuhan University, China

11:15 **KN-6: MOLECULARLY IMPRINTED POLYMERS FOR WARFARIN, CHLORWARFARIN AND BROMOWARFARIN AND THEIR IMPRINTING EFFECTS**

Prof. Jun Haginaka

Mukogawa Women's University, Japan

11:40 **KN-7: MINIATURIZED SAMPLE PREPARATION DEVICES WITH FIBROUS POLYMERIC EXTRACTION MEDIA**

Prof. Yoshihiro Saito

Toyohashi University of Technology, Japan

12:10 Lunch in DICP cafeteria

Afternoon of July 11 (Wednesday)

Presided by Prof. Xiu-Ping Yan and Prof. Makoto Tsunoda

13:30 **KN-8: CHIP-BASED LIQUID CHROMATOGRAPHY ANALYSIS FOR BIOLOGICAL COMPOUNDS**

Dr. Makoto Tsunoda

University of Tokyo, Japan

13:55 **KN-9: PROFILING OF EPIGENETIC DNA MODIFICATIONSTITLE BY ADVANCED LC-MS/MS AND SEQUENCING**

Prof. Hailin Wang

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China

14:20 **KN-10: BIOANALYSIS OF THERAPEUTIC MONOCLONAL ANTIBODIES BASED ON AFFINITY PURIFICATION AND HIGH-TEMPERATURE LIQUID CHROMATOGRAPHY**

Prof. Kenichiro Todoroki

University of Shizuoka, Japan

14:45 **KN-11: COVENT-ORGANIC FRAMEWORKS FOR SAMPLE PREPARATION AND CHROMATOGRAPHIC SEPARATION**

Prof. Xiu-Ping Yan

Jiangnan University, China

15:10 Coffee Break

Presided by Prof. Huwei Liu and Prof. Gongke Li

- 15:30 **KN-12:** FIELD-ASSISTED ONLINE SAMPLE PREPARATION METHODS FOR SOLID SAMPLE ANALYSIS
Prof. Gongke Li
SUN YAT-SEN University, China
- 15:55 **KN-13:** APPLICATION OF ULTRA PERFORMANCE CONVERGENCE CHROMATOGRAPHY IN ANALYTES IN FOOD AND BIOLOGICAL SAMPLES
Prof. Feng Zhang
Institute of Food Safety, Chinese Academy of Inspection and Quarantine, China
- 16:20 **KN-14:** DEVELOPMENT AND APPLICATIONS OF 2D LC-MS/MS METHODS IN CLINICAL LIPIDOMICS
Prof. Huwei Liu
Peking University, China
- 16:45 **KN-15:** APPLICATION OF COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY LOW RESOLUTION MASS SPECTROMETRY ON SHORT-CHAIN CHLORINATED PARAFFINS
Yun Zou
MS Center, Shimadzu Co. LTD

17:50 Speaker Dinner

Morning of July 12 (Thursday)

Presided by Prof. Jinming Lin and Prof. Kenji Sueyoshi

- 8:10 Pick-up the participants from the Hall of Dalian Xinghai Golf Hotel to DICP
- 8:30 **KN-16:** DEVELOPMENT OF DIGITAL ELECTROPHORESIS DEVICES FOR MULTI-DIMENSIONAL FRACTIONATION
Prof. Kenji Sueyoshi
Osaka Prefecture University, Japan
- 8:55 **KN-17:** DROPLET GENERATION FOR CELL ANALYSIS ON MICROLUIDICS AND MASS SPECTROMETRY
Prof. Jinming Lin
Tsinghua University, China
- 9:20 **KN-18:** MICROWAVE-ASSISTED FABRICATION OF MONOLITHIC STATIONARY PHASES FOR CAPILLARY LIQUID CHROMATOGRAPHY
Prof. Lee Wah Lim
Gifu University, Japan

9:45 **KN-19:** ELECTROPHORESIS SEPARATION ASSISTED FLUORESCENCE AND CHEMILUMINESCENCE SIGNALS AMPLIFICATION STRATEGY FOR HIGHLY SENSITIVE DETECTION OF BIOMOLECULES IN MICROCHIP ELECTROPHORESIS ASSAY

Prof. Shulin Zhao

Guangxi Normal University, China

10:10 Coffee Break

Presided by Prof. Kenji Hamase and Prof. Yasushi Ishihama

10:30 **KN-20:** MULTI-DIMENSIONAL CHIRAL HPLC: A PROMISING APPROACH TO EXPAND THE FRONTIER OF AMINO ACID, PEPTIDE AND PROTEIN RESEARCH

Prof. Kenji Hamase

Kyushu University, Japan

10:55 **KN-21:** DEEP ANNOTATION STRATEGIES FOR NON-TARGETED METABOLOMICS DATA BASED ON BIOINFORMATICS AND HIGH RESOLUTION MASS SPECTROMETRY

Prof. Xin Lu

Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China

11:20 **KN-22:** HIGH RESOLUTION LIQUID AND GAS PHASE SEPARATION TO ILLUMINATE HUMAN PROTEOME

Prof. Yasushi Ishihama

Kyoto University, Japan

11:45 **KN-23:** PREPARATION AND CHARACTERIZATION OF CARBON DOT-DECORATED SILICA STATIONARY PHASES FOR HYDROPHILIC INTERACTION CHROMATOGRAPHY

Prof. Hongdeng Qiu

Lanzhou Institute of Chemical Physics, CAS, China

12:10 Lunch in DICP cafeteria

Afternoon of July 12 (Thursday)

Presided by Prof. Lihua Zhang and Prof. Hideko Kanazawa

13:30 **KN-24:** EFFECTIVE SEPARATION OF PROTEINS AND CELLS UTILIZING TEMPERATURE-RESPONSIVE CHROMATOGRAPHY

Prof. Hideko Kanazawa

Keio University, Japan

- 13:55 **KN-25:** NEW METHODS FOR PROTEOME ANALYSIS, FROM QUALITATION, QUANTITATION TO INTERACTION
Prof. Lihua Zhang
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
- 14:20 **KN-26:** EFFECTIVE PI-INTERACTIONS FOR UNIQUE SEPARATIONS IN LIQUID CHROMATOGRAPHY
Prof. Takuya Kubo
Kyoto University, Japan
- 14:45 **KN-27:** NEW CHROMATOGRAPHIC APPROACHES TO ANALYZE METHYLPROTEOME
Prof. Mingliang Ye
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- 15:10 Coffee Break
- Presided by Prof. Y. Saito and Prof. Xiangmin Zhang**
- 15:30 **KN-28:** SINGLE CELL PROTEOME ANALYSIS WITH ULTRASENSITIVE NANO-LC-MS SYSTEM
Prof. Xiangmin Zhang
Fudan University, China
- 15:55 **KN-29:** HPLC AT ULTRALOW-TEMPERATURES
Prof. Shinya Kitagawa
Nagoya Institute of Technology, Japan
- 16:20 **KN-30:** FLOW THROUGH DIGESTION OF OLIGORIBONUCLEOTIDES IN ENZYME- AND CERIUM(IV)-IMMOBILIZED MONOLITHIC MICROREACTORS
Prof. Tomonari Umemura
Tokyo University of Pharmacy and Life Sciences, Japan
- 16:45 **KN-31:** EXPOSURE CHARACTERISTIC OF ORGANOPHOSPHATE FLAME RETARDANT AMONG PREGNANT WOMEN BASED ON PHASE TRANSITION EXTRACTION AND UPLC-MS/MS
Prof. Surong Mei
Huazhong University of Science and Technology, China
- 17:30 Dinner

July 13 (Friday)

Departure of delegates

POSTERS

- P1 DEVELOPMENT OF TEMPERATURE-RESPONSIVE CHIRAL COLUMN BY DYNAMIC COATING METHOD
Naoya Okamoto
Keio University, Japan
- P2 TEMPERATURE MODULATED SEPARATION OF PROTEINS USING MIXED THERMOPHORETIC-CATIONIC POLYMER BRUSH GRAFTED SILICA BEADS
Sakiko Kitazawa
Keio University, Japan
- P3 ANALYSIS OF SPECIFIC INTERACTION BETWEEN SMALL MOLECULES AND RNA APTAMERS BY CAPILLARY ELECTROPHORESIS WITH PARTIAL FILLING TECHNIQUE
Tomoya NISHINO
Osaka Prefecture University, Japan
- P4 SELECTIVE SCREENING OF FREE D-AMINO ACIDS IN THE PHYSIOLOGICAL FLUIDS AND D-FORM RESIDUES IN THE PROTEINS USING AN AUTOMATED TWO-DIMENSIONAL HPLC-MS/MS SYSTEM
Chiharu Ishii
Kyushu University, Japan
- P5 DEVELOPMENT OF A THREE-DIMENSIONAL HPLC SYSTEM AND APPLICATION TO THE CHIRAL AMINO ACID ANALYSIS IN THE PLASMA OF PATIENTS WITH KIDNEY DYSFUNCTION
Aogu Furusho
Kyushu University, Japan
- P6 SUPER A1 ION- SPECIFIC FRAGMENT ION FACILITATES ACCURATE AND MULTIPLEX PROTEOME QUANTIFICATION
Jianhui Liu
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- P7 A ROBUST BIOMARKER FOR EVALUATING BLOOD SAMPLE QUALITY AFTER ROOM TEMPERATURE EXPOSURE IN METABOLOMICS STUDY
Xinyu Liu
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
- P8 SH2 SUPERBINDER MODIFIED MONOLITHIC CAPILLARY COLUMN FOR THE SENSITIVE ANALYSIS OF PROTEIN TYROSINE PHOSPHORYLATION
Yating Yao
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China