

# **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**

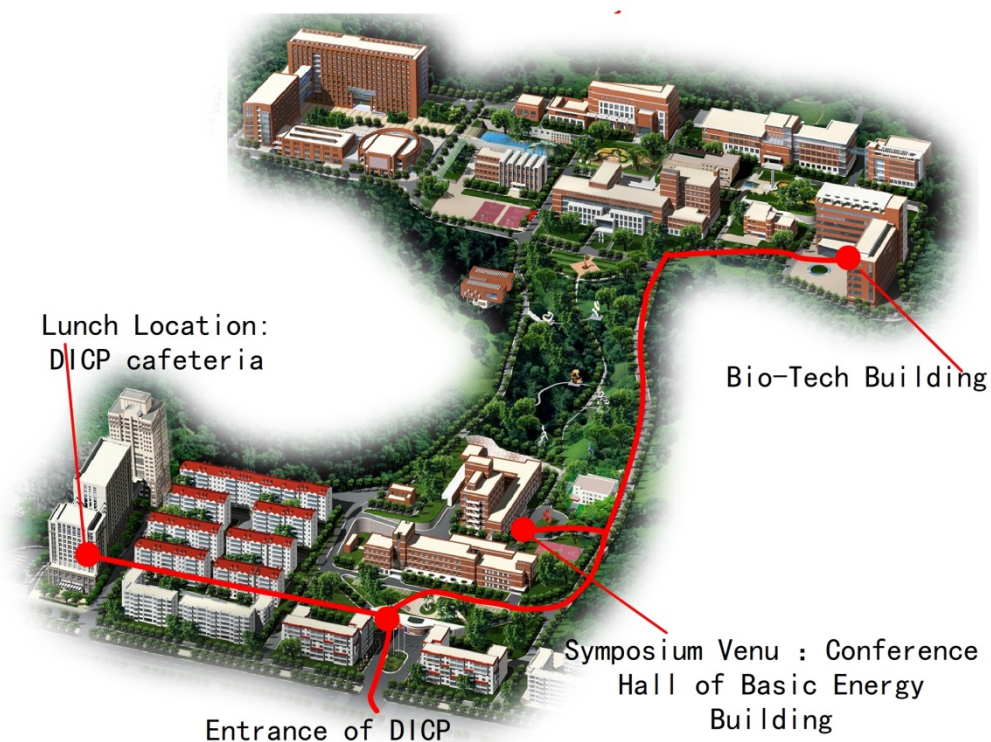
“2018 Sino-Japanese Symposium on Separating Science” will be held on July 11-12, 2018, Dalian, China. The local organizer in China is Dalian Institute of Chemical Physics, Chinese Academy of Sciences. The conference Chairmen are Prof. Guowang Xu and Prof. Koji Otsuka. The Symposium is sponsored by the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

### 2018 Sino-Japanese Joint Symposium on Separation Sciences

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

#### Whole day of July 10 (Tuesday)

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

#### Morning of July 11 (Wednesday)

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- 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**

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- 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**

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- 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)**

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

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

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**Presided by Prof. Jinming Lin and Prof. Kenji Sueyoshi**

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- 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  
**Dr. 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)**

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**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 CERIU(IV)-IMMOBILIZED MONOLITHIC MICROREACTORS  
**Prof. Tomonari Umemura**  
*Tokyo University of Pharmacy and Life Sciences, Japan*
- 16:45 **KN-31:** EXPOSURE CHARACTERISTIC OF ORGANOPHOSPHATE FLAME RETARADANT AMONG PREGANT WOMEN BASED ON PHASE TRANSITION EXTRACTION AND UPLC-MS/MS  
**Prof. Surong Mei**  
*Huazhong University of Science and Technology, China*
- 17:30 Dinner

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**July 13 (Friday)**

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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 THERMORESPONSIVE-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 DISFUNCTION  
**Aogu Furusho**  
*Kyushu University, Japan*