



DICP Symposium (VII) on Modern Separation/Analytical Chemistry and Metabonomics

19-20 April 2005

Dalian, China

The conference is sponsored by the Dalian Institute of Chemical Physics,
Chinese Academy of Sciences

Organization Committee

Honorary Chairman
Prof. Peichang Lu, Member of CAS

Conference Chairman
Prof. Shengli Yang, Member of CAS
Prof. Yukui Zhang, Member of CAS

Conference Co-chairman
Prof. Guowang Xu

General Information

You are warmly welcome to the DICP Symposium on Modern Separation/Analytical Chemistry and Metabonomics, which will be held on April 19-20, 2005 at Dalian Institute of Chemical Physics (DICP). DICP Symposium is a special series of international conference named after DICP, and was founded with the purpose to promote the international communication and collaboration between the DICP and the international scientific community, to discuss new research area or emerging research direction in-depth, and to enhance the creativity ability in research. The conference is supported by a special foundation of the institute.

The symposium aims to report state-of-the-art separation techniques, discuss the frontier topics in analytical chemistry and biochemistry, especially scientific progress and technological breakthroughs on metabonomics and systems chemical biology. Twenty-three renowned experts in this field will give invited talks at this symposium.

Agenda

April 18, Monday
18:30 Reception

April 19, Tuesday
9:00 -12:00 Symposium
12:00-14:00 Lunch break
14:00-16:20 Symposium
16:20-18:30 Lab tour
18:30 Dinner

April 20, Wednesday
8:30 -12:00 Symposium
12:00-14:00 Lunch break
14:00-16:45 Symposium
16:45 Closing Ceremony
18:00 Banquet

Invited Keynote lecturers

Prof. Jan van der Greef

Center for Medical Systems Biology / Leiden University, The Netherlands

Prof. Yukui Zhang

Dalian Institute of Chemical Physics, CAS, China

Prof. Guowang Xu

Dalian Institute of Chemical Physics, CAS, China

Prof. Ryo Taguchi

Department of Metabolome, Graduate School of Medicine, The University of Tokyo, Japan

Prof. Philip Marriott

School of Applied Sciences, RMIT University, Australia

Prof. Jun Haginaka

Faculty of Pharmaceutical Sciences, Mukogawa Women's University, Japan

Prof. K. Jinno

School of Materials Science, Toyohashi University of Technology, Japan

Prof. Hans-Gerd Janssen

Unilever Research and Development Vlaardingen, the Netherlands

Prof. Zongwei Cai

Department of Chemistry, Hong Kong Baptist University

Prof. Xiaoya Chen

National Key Lab of Plant Mol Genetics Institute of Plant Physiology and Ecology, SIBS, CAS, China

Prof. Lee Chao

Biochemistry & Molecular Biology, Medical University of South Carolina

Prof. Liping Zhao

Shanghai Jiao Tong University, China

Prof. Wei Jia

Shanghai Institute for Systems Biology, Shanghai Jiao Tong University, China

Prof. Xue-Ming Zhao

Department of Biochemical Engineering School of Chemical Engineering & Technology, Tianjin University

Dr. M. Wang

Center for Medical Systems Biology / Leiden University, the Netherlands

Dr. Zhengping Zhuang

National Institutes of Health, Bethesda, Maryland, USA

Dr. Rainer Lehmann

Dept. of Internal Medicine, University Clinic Tuebingen, Germany

Dr. Cora Weigert

Dept. of Internal Medicine, University Clinic Tuebingen, Germany

Dr. Yung-Lin Chen

Chrom Expert Company, Sacramento, U.S.A.

Dr. John Shockcor

Water Corporation, USA

Dr. Keith Comperson

Waters Corporation, Milford MA, USA

Dr. Paolo Magni

Thermo Electron, Italy

Kerry D. Nugent

Michrom BioResources, Inc., Auburn, CA, USA

Accommodation

Your accommodation is arranged at Dalian Xinghai Golf Hotel. Just five minutes walk to Xinghai International Conference & Exhibition Center which has the biggest square in Asia, and 20 minutes drive between Dalian Airport and our hotel. Address: 29 Xinghe Road, Shahekou District, Dalian. Tel: +86-411-82193333; Fax: +86-411-84800788.

Contact

Prof. Guowang Xu, Co-Chairman

Tel: +86-411-84379530,

Fax: +86-411-84379559

E-mail: xugw@dicp.ac.cn

Dr. Xin Lu, Secretariat of Workshop

Tel: +86-411-84379532

Email: luxin001@dicp.ac.cn

Dalian Institute of Chemical Physics

Chinese Academy of Sciences

457 Zhongshan Road, Dalian, 116023

P.R. China.

www.dicp.ac.cn

DICP Symposium (VII) on Modern Separation/Analytical Chemistry and Metabonomics, Dalian, 2005

Conference Hall of DICP Bio-Tec Building -AGENDA-

April 18 (Monday)

Arrival and hotel Check in

18:30 **Reception**

Morning of April 19 (Tuesday)

09:00-09:30 Opening Ceremony (Presided by **Prof. Shengli Yang**)
Opening Address: **Prof. Xinhe Bao** (Director of DICP)

Prof. Peichang Lu

Presided by **Prof. Dr.Ryo Taguchi**

09:30-10:00 **The Role of Systems Biology in Integration of Modern and Traditional Medicine**

Prof. Jan van der Greef

Center for Medical Systems Biology / Leiden University, The Netherlands

10:00-10:30 **A New Multidimensional Liquid Chromatography System and its Applications in Proteomics**

Prof. Yukui Zhang

Dalian Institute of Chemical Physics, CAS, China

10:30-10:45 Coffee Break

Presided by **Prof. Jan van der Greef**

10:45-11:10 **Shotgun and/or Focused Lipidomics by Liquid Chromatography/ Electrospray Ionization/Tandem Mass Spectrometry**

Prof. Dr.Ryo Taguchi

Department of Metabolome, Graduate School of Medicine, The University of Tokyo, Japan

11:10-11:35 **A new method for qualitative and quantitative protein profiling and biomarker discovery using accurate mass LC-MS**

Dr. Keith Comperson

Waters Corporation, Milford MA, USA

11:35-12:00 **Analysis of Rice Cultivars on the Basis of Metabolites**

Prof. Xiaoya Chen

National Key Lab of Plant Mol Genetics Institute of Plant Physiology and Ecology, SIBS Chinese Academy of Sciences, China

12:00 Lunch

Afternoon of April 19 (Tuesday)

Presided by **Prof. Jun Haginaka**

14:00-14:25 **Opportunities for Comprehensive Two-Dimensional Gas Chromatography in Chemical 'Omics' Analysis**

Prof. Philip Marriott

School of Applied Sciences, RMIT University, Melbourne, Australia

- 14:25-14:50 **Chromatography-Based Metabonomics Technical Platform and its Application in Pathological Change Biomarker Discovery**
 Prof. Guowang Xu
 Dalian Institute of Chemical Physics, CAS, China
- 14:50-15:15 **Metabolic Effects of Interleukine-6, A New Exercise Factor?**
 Dr. Cora Weigert
 Dept. of Internal Medicine, University Clinic Tuebingen, Germany
- 15:15-15:30 Coffee Break
 Presided by **Prof. Philip Marriott**
- 15:30-15:55 **Uniformly Sized Molecularly Imprinted Polymers for Pharmaceutical and Bioanalytical Applications**
 Prof. Jun Haginaka
 Faculty of Pharmaceutical Sciences, Mukogawa Women's University, Japan
- 15:55-16:20 **Metabonomics: Principles and Applications in Drug Discovery and Development.**
 Dr. John Shockcor
 Water Corporation, USA
- 16:20 Lab Tour
- 18:30 Dinner

Morning of April 20 (Wednesday)

- Presided by **Prof. Hans-Gerd Janssen**
- 8:30-8:55 **High Temperature Gas Chromatography with Fiber-Packed Capillary as the Medium**
 Prof. K. Jinno
 School of Materials Science, Toyohashi University of Technolog, Toyohashi, Japan
- 8:55-9:20 **Integration of Tissue Microdissection into Proteomics and Metaloboomics: A New Approach to Study Tumors**
 Dr. Zhengping Zhuang
 National Institutes of Health, Bethesda, Maryland, USA
- 9:20-9:45 **Systems Biology Approach for Quality Control of Traditional Chinese Medicine (TCM)**
 Dr. M. Wang
 Center for Medical Systems Biology / Leiden University, the Netherlands
- 9:45-10:00 Coffee Break
 Presided by **Prof. K. Jinno**
- 10:00-10:25 **Mass Spectrometric Profiling of Phosphorylated Serine/Threonine Residues and (Patho) Physiological Relevance of Selected Residues in Insulin Signal Transduction and Type 2 Diabetes Mellitus**
 Dr. Rainer Lehmann
 Dept. of Internal Medicine, University Clinic Tuebingen, Germany
- 10:25-10:50 **Beyond 2D Gels: Fully Automated MDLC Coupled to Nano ESI-MS/MS for Characterization of Low Abundance Proteins and Biomarkers**
 Kerry D. Nugent
 Michrom BioResources, Inc., Auburn, CA, USA
- 10:50-11:15 **Examples of the Characterization of Proteins, Polysaccharides and Derived Products in the Foods Industry**
 Prof. Dr. Hans-Gerd Janssen
 Unilever Research and Development Vlaardingen, the Netherlands

11:15-11:40 **Human-flora Associated Pig model for Use in Metabonomic Study of Traditional Chinese Medicine (TCM)**

Prof. Liping Zhao

Shanghai Jiao Tong University, China

12:00 Lunch

Afternoon of April 20 (Wednesday)

Presided by **Dr. Rainer Lehmann**

14:00-14:25 **LC/MS Based Metabonomic Study of Aristolochic Acids in Rat**

Prof. Zongwei Cai

Department of Chemistry, Hong Kong Baptist University, Hong Kong SAR, China

14:25-14:50 **Metabolomics and Metabolic Engineering**

Prof. Xue-Ming Zhao

Department of Biochemical Engineering

School of Chemical Engineering & Technology

Tianjin University, Tianjin 300072, China

14:50-15:15 **Inside Look of Chemically Bonded Silica Phases GC, HPLC & SPE**

Dr. Yung-Lin Chen

Chrom Expert Company, Sacramento, U.S.A.

15:15-15:30 Coffee Break

Presided by **Prof. Zongwei Cai**

15:30-15:55 **Metabonomic Study of a Hydrocortisone Induced Kidney - Deficiency Model - Understanding the TCM Syndromes in Modern Terms**

Prof. Wei Jia

Shanghai Institute for Systems Biology, Shanghai Jiao Tong University, China

15:55-16:20 **Large Sample Volume Injection in capillary GC and GC/MS. Performances of the Techniques for enhancing sensitivity in Trace Analysis and Applications in various fields.**

Dr. Paolo Magni

Thermo Electron, Str Rivoltana, 20090 Rodano (Milan) Italy

16:20-16:45 Prof. Lee Chao

Biochemistry & Molecular Biology

Medical University of South Carolina

Basic Science Building - 173 Ashley Ave. Charleston SC 29425

16:45 Closing Ceremony: Presided by **Prof. Guowang Xu**

Closing Address: **Prof. Jan van der Greef**

Prof. Yukui Zhang

18:00 Banquet