



DICP Symposium (XI) on Analytical Biochemistry and Traditional Chinese Medicinal Metabonomics

15-16 Sept 2006

Dalian, China

The conference is sponsored by the Dalian Institute of Chemical Physics,
Chinese Academy of Sciences, Waters Co. and Leco Co.

Organization Committee

Honorary Chairman

Prof. Peichang Lu, Member of CAS

Conference Chairman

Prof. Shengli Yang, Member of CAE
Prof. Yukui Zhang, Member of CAS

Conference Co-chairman

Prof. Guowang Xu

General Information

DICP Symposium is a special series of international conference named after the Dalian Institute of Chemical Physics (DICP), Chinese Academy of Sciences (CAS). The DICP Symposium 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 DICP, Waters Corporation and LECO.

Subject matter/scope/conference theme: The symposium aims at reporting state-of-the-art of analytical techniques, discussing the frontier topics in analytical biochemistry and metabonomics, presenting the new applications of metabonomics in disease biomarker discovery, drug discovery and development, especially in traditional Chinese medicines. About 20 internationally renowned experts in this field have agreed to give invited talks at this symposium.

Agenda

Sept 14, Thursday

18:00 Reception in Golf Hotel

Sept 15, Friday

8:10- 8:40 Opening Ceremony

8:40-12:00 Symposium

12:00-13:30 Lunch break

13:30-17:55 Symposium

18:00 Invited dinner by Leco

Sept 16, Saturday

8:30 -12:00 Symposium

12:00-13:30 Lunch break

13:30-15:30 Symposium

15:30-15:40 Closing Ceremony

16:00-17:30 Lab Tour

18:00 Banquet

Invited Keynote lecturers

Aboard

Prof. Pat Sandra	University of Ghent, Belgium
Prof. Jan van der Greef	Center for Medical Systems Biology/Leiden University, The Netherlands
Prof. Jeremy K. Nicholson	Imperial College of Science, Technology and Medicine, UK
Prof. Norio Teramae	Department of Chemistry, Tohoku University, Japan
Prof. Nobuo Tanaka	Department of Biomolecular Engineering, Kyoto Institute of Technology
Prof. Oliver Fiehn	University of California, Davis, USA
Prof. G. Guiochon	Department of Chemistry The University of Tennessee, USA
Prof. Erwin Schleicher	University of Tuebingen, Germany
Prof. Shaw Guang Huang	Department of Chemistry and Chemical Biology, Harvard University, USA
Prof. Philip Marriott	School of Applied Sciences, RMIT University, Australia
Dr. Yining Zhao	Analytical R&D, Pfizer Global R&D, USA
Dr. Mei Wang	Center for Medical Systems Biology/Leiden University, the Netherlands
Dr. Chunxia Zhao	Department of Chemistry, Tohoku University, Japan
Dr. John Hawkins	Leco. Co. USA
Prof. Hin Wing Yeung	University of Macau, Av. Padre Tomas Pereira, Taipa, Macao
Dr. Swe Lee Yep	Waters Co.

Mainland

Prof. Yukui Zhang	Dalian Institute of Chemical Physics, CAS, China
Prof. Changxiao Liu	Tianjin Inst Pharmaceut Res, China
Prof. Guibin Jiang	Research Center for Eco-Environmental of Sciences, CAS, China
Prof. Guowang Xu	Dalian Institute of Chemical Physics, CAS, China
Prof. Guo'an Luo	Tsinghua University, China
Prof. Halmurat Upur	University of Xinjiang, China
Prof. Wei Jia	Institute for Systems Biology, Shanghai Jiao Tong University, China
Prof. Chuan Li	Center for DMPK Research, Shanghai Institute of Materia Medica, CAS, China
Prof. Zhengtao Wang	Shanghai University of Traditional Chinese Medicine, China

Accommodation

The 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 20minutes drive between Dalian Airport and our hotel.

Address: 29 Xinghe Road, 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. Jun Yang, Secretariat of Workshop

Tel: +86-411-84379532

Email: j.yang@126.com

Dalian Institute of Chemical Physics

Chinese Academy of Sciences

457 Zhongshan Road, Dalian, 116023

P.R. China.

Homepage: www.402.dicp.ac.cn

Agenda of DICP Symposium (XI) on Analytical Biochemistry and Traditional Chinese Medicine Metabonomics

Preliminary Program of DICP Symposium (XI) on Analytical Biochemistry and Traditional Chinese Medicine Metabonomics

(Conference Hall of DICP Bio-Tech Building, 生物技术部一楼会议室)

Sept 14 (Thursday)

18:00 Reception in Golf Hotel

Morning of Sept 15 (Friday)

08:10-08:40 Opening Ceremony Presided by **Prof. Shengli Yang**

Opening Address: **Prof. Xinhe Bao** (Director of DICP)

Prof. Peichang Lu, Prof. Yukui Zhang

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

08:40-09:10 STATISTICAL SPECTROSCOPIC APPROACHES TO METABOLIC
BIOMARKER DISCOVERY

Prof. Jeremy K. Nicholson

Imperial College of Science, Technology and Medicine, UK

09:10-9:40 DATA ANALYSIS AND BIOMARKER IDENTIFICATION METHOD
DEVELOPMENT IN LC/MSⁿ FOR METABONOMICS

Prof. Guowang Xu

Dalian Institute of Chemical Physics, CAS, China

9:40-10:10 SETUPX AND BINBASE: A COMBINATION OF DATABASES FOR
BIOLOGICAL METADATA AND METABOLITE ANNOTATION BY MASS
SPECTROMETRY

Prof. Oliver Fiehn

University of California, Davis, USA

10:10-10:25 Coffee Break

Presided by **Prof. Changxiao Liu**

10:25-10:55 STUDY ON HIGHLY PATHOGENIC DISEASES (2-DM AND CERVICAL
CARCINOMA) IN UIGHUR POPULATION AND METABONOMICS THAT
INTERFERED BY UIGHUR MEDICINE

Prof. Halmurat Upur

University of Xinjiang, China

10:55-11:25 IDENTIFICATION OF INSULIN RESISTANT INDIVIDUALS BY
METABONOMIC ANALYSIS OF SPOT URINE

– A NEW APPROACH FOR A PRESENT ANALYTICAL PROBLEM -

Prof. Erwin Schleicher

University of Tuebingen, Germany

11:25-11:55 A GC-MS BASED ANALYTICAL METHOD WITH ECF DERIVATIZATION FOR
METABONOMIC PROFILING

Prof. Wei Jia

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

12:00 Lunch

Afternoon of Sept 15 (Friday)

Presided by **Prof. Shengli Yang**

13:30-14:00

Prof. Changxiao Liu

*Tianjin Inst Pharmaceut Res, State Key Lab Pharmacokinet & Pharmacodynam,
China*

14:00-14:30 "METABOLOMICS & SYSTEMS BIOLOGY : A SCIENTIFIC BRIDGE
BETWEEN WESTERN AND CHINESE MEDICINE"

Prof. Jan van der Greef

Center for Medical Systems Biology / Leiden University, The Netherlands

14:30-15:00 STUDIES OF PROTEIN STRUCTURES AND DYNAMICS USING NMR AND
OTHER OPTICAL SPECTROSCOPIES

Prof. Shaw Guang Huang

Department of Chemistry and Chemical Biology, Harvard University, USA

15:00-15:30 CHEMOMICS AND METABONOMICS FOR TRADITIONAL CHINESE
MEDICINE

Prof. Guo'an Luo

Tsinghua University

15:30-15:45 Coffee Break

Presided by **Prof. Bingcheng Lin, Prof. Oliver Fiehn**

15:45-16:15 FROM UNIDIMENSIONAL TO BIDIMENSIONAL HPLC. WHY? HOW?
WHEN?

Prof. G. Guiochon

Department of Chemistry The University of Tennessee, USA

16:15-16:45 SYSTEMS BIOLOGY: GATEWAY FOR WORLDWIDE ACCEPTANCE OF
TRADITIONAL CHINESE MEDICINE (TCM)

Dr. Mei Wang

Center for Medical Systems Biology / Leiden University, the Netherlands

16:45-17:15 QUALITATIVE AND QUANTITATIVE ANALYSES OF HEPATOTOXIC
PYRROLIZIDINE ALKALOIDS IN CHINESE HERBS SENECIO AND
LIGULARIA BY LC/MSⁿ

Prof. Zhengtao Wang

Shanghai University of Traditional Chinese Medicine, China

17:15-17:45 UNLOCKING THE STRENGTHS OF COMPREHENSIVE TWO DIMENSIONAL
GAS CHROMATOGRAPHY COUPLED TO A TIME-OF-FLIGHT MASS
SPECTROMETER IN METABOLOMIC PROFILING OF SMALL MOLECULES

Dr. John Hawkins

Leco. Co. USA

18:00 Invited dinner supported by Leco.

Morning of Sept 16 (Saturday)

Presided by **Prof. Pat Sandra, Prof. Guowang Xu**

8:30-9:00 ELEVATED TEMPERATURE – LONG COLUMN CONVENTIONAL HPLC TO ACCELERATE PROTEIN BIOMARKER DISCOVERY IN SERUM

Prof. Pat Sandra

University of Ghent, Belgium

9:00-9:30 NOVEL SEPARATION AND DETECTION TECHNIQUES FOR PROTEOME STUDY

Prof. Yukui Zhang

Dalian Institute of Chemical Physics, CAS, China

9:30-10:00 COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY IN CHEMICAL ANALYSIS: LIPIDOMICS, METABOLOMICS AND CHEMICAL PROFILING

Prof. Philip Marriott

School of Applied Sciences, RMIT University, Australia

10:00-10:15 Group Photo

10:15-10:30 Coffee Break

Presided by **Prof. Yukui Zhang**

10:30-11:00 DISTRIBUTION, METABOLISM AND HISTOLOGICAL TOXICOLOGIES OF BROMINATED DIPHENYL ETHER-209 IN THE RAT

Prof. Guibin Jiang

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

11:00-11:30 FLUORESCENCE DETECTION OF SNPS BASED ON DNA DUPLEXES CONTAINING AN ABASIC SITE

Prof. Norio Teramae

Department of Chemistry, Graduate School of Science, Tohoku University, Japan

11:30-12:00 PERFORMANCE OF SECOND-GENERATION MONOLITHIC SILICA CAPILLARY COLUMNS

Prof. Nobuo Tanaka

Department of Biomolecular Engineering, Kyoto Institute of Technology

12:00 Lunch

Afternoon of Sept 16 (Saturday)

Presided by **Prof. Nobuo Tanaka**

13:30-14:00 POSSIBILITY AND FEASIBILITY OF USING CHIP-BASED HPLC FOR PHARMACEUTICAL R&D

Dr. Yining Zhao

Analytical R&D, Pfizer Global R&D, Groton, CT, USA

14:00-14:30 UTILIZATION OF UPLC/TOF MS SYSTEM IN METABOLIC PROFILING STUDIES

Dr. Swe Lee Yep

Waters Co. China

14:30-15:50 FLUORESCENCE DETECTION OF THYMINE-RELATED SINGLE-NUCLEOTIDE POLYMORPHISMS BASED ON AP SITE-BINDING DIAMINOPYRAZINES

Dr. Chunxia Zhao

Department of Chemistry, Graduate School of Science, Tohoku University, Japan

14:50-15:20 ANALYSIS OF ACTIVE HERBAL CHEMICALS IN COMPLEX BIOMETRICS BASED ON LIQUID CHROMATOGRAPHIC MASS SPECTROMETRY IN SUPPORTING DMPK STUDIES OF CHINESE TRADITIONAL MEDICINES

Prof. Chuan Li

Center for DMPK Research, Shanghai Institute of Materia Medica, China

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

15:20-15:30 Closing Address: **Prof. Jan van der Greef**

Prof. Yukui Zhang

15:30-15:45 Coffee Break

15:45-17:30 **Lab Tour**

18:00 Banquet