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FOREWORD

Welcome to the 16th Beijing Conference and Exhibition on
Instrumental Analysis (BCEIA 2015)

Prof. Yuying Zhang
Chairman, Organizing Committee
Vice President, BCEIA 2015
October 10, 2015

The 16th Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2015), sponsored by the China Association for Instrumental Analysis and approved by the Ministry of Science and Technology, China, will take place as scheduled on Oct. 26 to 30, 2015 at China National Convention Center, and with Prof. Yukui ZHANG, Academician, Chinese Academy of Sciences as its Chairman of Scientific Committee.

Beginning from 1985, the BCEIA, a biennial event, has held successively and successfully fifteen times. It is this year the worth celebrating 30th anniversary of BCEIA. We have joyfully seen overcoming the global economic crises influence China's economic development still keeps going up with more quick speed and analytic instrument market shows itself better trend still. BCEIA is becoming increasingly successful, having achieved great progress under the support and care from in full sail at home and abroad, and having made its valuable contribution to promoting the connection between instrument manufacturers and their users, strengthening the academic exchange between scientists and pushing forward the development of analytical instrument industry.

BCEIA 2015 Conference will proceed with a plenary session, separate sub-sessions of nine fields of Electron Microscopy & Material Sciences, Mass Spectrometry, Optical Spectroscopy, Chromatography, Magnetic Resonance, Electro-analytical Chemistry, Life Science, Environmental Analysis, and Chemical Metrology and Reference Materials. BCEIA 2015 maintain the direction of "Analytical Science Create Future" and the theme of "Moving towards a green future". The plenary session will feature specially invited review lectures on the future of various fields of instrumental analysis given by nine internationally prominent scientists.

We believe that BCEIA 2015 will be a grand occasion with larger scale and higher level. We will be warmly welcoming guests from research institutes, universities, factories, enterprises, and departments of administration of science and technology throughout the country to BCEIA 2015 then!

SCIENTIFIC COMMITTEE OF BCEIA 2015

Chairman

Prof. Yukui ZHANG* Dalian Institute of Chemical Physics, CAS

Vice Chairman

Prof. Ze ZHANG* Zhejiang University

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CAS

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Prof. Liang LI University of Alberta, Canada

Prof. Shuying LIU Changchun Institute of Applied Chemistry, CAS

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Prof. Knut W. URBAN	Institute of Solid State Research and Ernst Ruska Center for Microscopy and Spectroscopy with Electrons, Helmholtz Research Center Jülich, Germany
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Prof. Haizhou WANG*	China Iron & Steel Research Institute, CISRI
Prof. Chaohui YE*	Wuhan Institute of Physics and Mathematics, CAS
Prof. Edward S. YEUNG	Iowa State University, USA
Prof. Xuemin ZHANG*	Academy of Military Medical Sciences
Prof. Xinrong ZHANG	Tsinghua University

* Academician of China Academy of Sciences or Academician of China Engineering Academy

Fellow of the Royal Society of Canada

BCEIA2015 CONFERENCE GENERAL SCHEDULE

Date	Time	Location & Activities
Oct. 26 (Mon.)	8:00-18:00	Registration Location: Lobby of Exhibition Center (between Door E2 and Door E3), China National Convention Center
Oct. 27 (Tue.)	AM 8:30-11:45	BCEIA2015 General Plenary Session Location: Ballroom B, China National Convention Center
	PM 13:30-16:00	BCEIA2015 Exhibition Visit Location: China National Convention Center
	PM 17:00-20:30	Welcoming Banquet Location: Ballroom, China National Convention Center
Oct. 28 (Wed.)	AM 8:30-11:35	BCEIA2015 General Plenary Session Location: Ballroom B, China National Convention Center
	PM 13:30-18:00	Oral Presentation
Oct. 29 (Thu.)	8:30 AM- 18:00 PM	Oral Presentation
Oct. 30 (Fri.)	8:30 AM- 18:00 PM	Oral Presentation

BCEIA2015 MEETING ROOM SCHEDULE

Date	Meeting	Room
October 27th am October 28th am	PLENARY SESSION	Ballroom-B
October 28th pm October 29th All day October 30th All day	A.ELECTRONMICROSCOPY&MATERI AL SCIENCES	305
October 28th pm October 29th All day October 30th All day	B.MASS SPECTROMETRY	306A+B E232A+B
October 28th pm October 29th All day	C.OPTICAL SPECTROSCOPY	303B
October 28th pm October 29th All day October 30th am	D.CHROMATOGRAPHY	302A
October 28th pm October 29th All day October 30th am	E.MAGNETIC RESONANCE	302B
October 28th pm October 29th All day October 30th am	F.ELECTROANALYTICAL CHEMISTRY	303A
October 28th pm October 29th All day	G.ANALYTICAL TECHNIQUES IN LIFESCIENCES	301A
October 28th pm October 29th All day October 30th am	H.ENVIRONMENTAL ANALYSIS	301B
October 28th pm October 29th All day	I.CHEMICAL METROLOGY ANDREFERENCE MATERIALS	308

SCHEDULE OF PLENARY SESSION

Time: Oct. 27, 2015 AM (Tuesday)

Location: Ballroom B, China National Convention Center, Beijing

Chairman: Prof. Yulin DENG

8:30-8:40

Opening Speech by Prof. Yukui ZHANG

Chairman: Prof. Jinying LI, Lihua ZHANG

8:40-9:15

Prof. Jianguo HOU

Ministry of Science and Technology of the People's Republic of China

9:15-9:50

B1

TITLE:MASS SPECTROMETRY: PAST, PRESENT AND, ESPECIALLY, FUTURE

Prof. R. Graham COOKS

Department of Chemistry, Purdue University, USA

9:50-10:25

D1

TITLE:FLOW FIELD-FLOW FRACTIONATION FOR PROTEOMIC & LIPIDOMIC ANALYSIS

Prof. Dr. Myeong Hee MOON

Department of Chemistry, Yonsei University, Seoul, Korea

10:25-10:35

Coffee Break

Chairman: Prof. Jianwei XIE, Lianghong GUO

10:35-11:10

G1

TITLE:INNATE IMMUNE SENSING OF CYTOSOLIC BACTERIA AND BACTERIAL VIRULENCE

Prof. Feng SHAO

National Institute of Biological Sciences, Beijing, China

11:10-11:45

H1

TITLE:EMERGING IODINATED DISINFECTION BY-PRODUCTS IN DRINKING WATER

Prof. Susan RICHARDSON

University of South Carolina, USA

Time: Oct. 28, 2015 AM (Wednesday)

Location: Ballroom B, China National Convention Center, Beijing

Chairman: Prof. Jinming LIN, Lanqun MAO

8:30-9:05 A1 **Prof. Ze ZHANG**
Zhejiang University, China

TITLE:DESIGN OF BIOCHEMICAL PROBES

9:05-9:40 C1 **Prof. Koji SUZUKI**
Department of Applied Chemistry, School of Integrated Design
Engineering, Keio University

**TITLE: MONITROING NEURAL EVENTS WITH
CARBON FIBER MICROELECTRODES**

9:40-10:15 F1 **Prof. Robert Mark WIGHTMAN**
Department of Chemistry, the University of North Carolina at
Chapel Hill

10:15-10:25 **Coffee Break**

Chairman: Prof. Maili LIU, Hongmei LI

10:25-11:00 E1 **TITLE:IN CELLS AND *IN VITRO* STUDIES OF
UBIQUITIN, POLYUBIQUITIN CHAINS AND
PROTEINS ATTACHED TO THEM**
Prof. Masahiro SHIRAKAWA
Biomolecular Function Chemistry, Department of Molecular
Engineering, Kyoto University

11:00-11:35 I1 **TITLE: INNOVATIONS IN ANALYTICAL STRATEGIES
AND METHODS FOR THE ESTABLISHMENT OF
SI-TRACEABILITY FOR BIOASSAYS**
Prof. SANG-RYOUL PARK, PH D
Center for Bioanalysis, Division of Metrology for Quality of
Life, Korea Research Institute of Standards and Science,
Daejeon, 305-340, Republic of Korea

SCHEDULE OF SESSIONS
A.ELECTRON MICROSCOPY&MATERIAL SCIENCES
CHAIRMAN: Prof. Xiaodong HAN

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location:ROOM 305, China National Convention Center, Beijing

Chairman: Prof. Ze Zhang (SESSION I)

13:30-14:05	A1	Prof. Mingwei Chen (KEYNOTE) Tohoko University
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14:05-14:40	A2	COHERENT ELECTRON TOMOGRAPHY: A PROBE FOR DYNAMICS AND SHAPE OF NANOMATERIALS AT ATOMIC RESOLUTION Prof. Furong Chen (KEYNOTE) National Tsing Hua University
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14:40-14:55 **Coffee Break**

CHAIRMAN: Prof. Mingwei Chen (SESSION II)

14:55-15:30	A3	TOWARDS GROWTH OF HIGH-QUALITY NANOWIRES BY DETAILED TEM INVESTIGATIONS Prof. Jin Zou (KEYNOTE) The University of Queensland
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15:30-16:05	A4	Prof. Xiaodong Han (KEYNOTE) Beijing University of Technology
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16:05-16:20	Coffee Break
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Chairman: Prof. Xiaodong Han (SESSION III)

16:20–16:55	A5	Prof. Manling Sui (KEYNOTE) Beijing University of Technology
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16:55-17:15 A6 NEW UHR SEM COMBINED WITH I-FIB FOR
MATERIAL SCIENCE
Dr. Zhang (INVITED)

17:15-17:35 A7 PERFORMING ATOMIC-RESOLUTION IMAGING AND
ELECTRON DIFFRACTION WITHOUT ORIENTATION
LIMIT
Dr. Jiannan Lv (INVITED)

Time: Oct 29, 2015 AM (Thursday)

Location: ROOM 305, China National Convention Center, Beijing

Chairman: Prof. Xuedong Bai (SESSION IV)

8:30-9:05 A8 HIGH SPATIAL/ENERGY RESOLUTION
CATHODOLUMINESCENCE SPECTROSCOPY:
POWERFUL TOOL FOR PRECISE
CHARACTERIZATION OF NANOSTRUCTURES
Prof. Dapeng Yu (KEYNOTE)
Peking University

9:05-9:40 A9 A PERIODIC ARRAY OF FLUX-CLOSURE
QUADRANTS IN FERROELECTRIC PBTIO₃ FILMS
Prof. Xiuliang Ma (KEYNOTE)
Institute of Metal Research

9:40-10:05 A10 TRANSIENT INTERGRANULAR GLASSY FILM TO
INDUCE BI-MODAL MICROSTRUCTURE IN
CERAMICS
Prof. Hui Gu (INVITED)
Shanghai University

10:05-10:25 A11 MATERIAL CHARACTERIZATION APPLICATIONS
Dr. Lisa Liu (INVITED)

10:25-10:40

Coffee Break

Chairman: Prof. Dapeng Yu (SESSION V)

10:40–11:15 A12 IN-SITU TRANSMISSION ELECTRON MICROSCOPY
TECHNIQUE AND ITS APPLICATIONS ON
NANOCHARACTERIZATION

Prof. Xuedong Bai (KEYNOTE)

Institute of Physics

11:15–11:40 A13 MAGNETO-TRANSPORT MEASUREMENT
INSTRUMENT IN-SITU ELECTRON MICROSCOPES
AND ITS APPLICATION

Prof. Yong Peng (INVITED)

Lanzhou University

11:40–12:10 A14 DIRECT DETECTION – THE FUTURE OF TEM
IMAGING

Dr. Ming Pan (INVITED)

Chairman: Prof. Jianghua Chen (SESSION VI)

13:30–14:05 A15 THEORY AND PRACTICE OF ELECTRON
DIFFRACTION FROM TUBULAR STRUCTURES

Prof. Luchang Qin (KEYNOTE)

University of North Carolina

14:05–14:30 A16 PHASE TRANSITION OF MAGNETIC SKYRMION BY
LORENTZ TRANSMISSION ELECTRON
MICROSCOPY

Prof. Renchao Che (INVITED)

Fudan University

14:30–14:45

Coffee Break

Chairman: Prof. Kui Du (SESSION VII)

14:45–15:20 A17 THE HARDENING PRECIPITATES IN HIGH
STRENGTH ALUMINUM ALLOYS STUDIED BY
ATOMIC-RESOLUTION ELECTRON MICROSCOPY

Prof. Jianghua Chen (KEYNOTE)

Hunan University

15:20–15:45 A18 ATOMIC STRUCTURE OF ELECTRODE MATERIALS
FOR LITHIUM ION BATTERIES STUDIED BY
ABERRATION-CORRECTED SCANNING ELECTRON
MICROSCOPY

Prof. Lin Gu (INVITED)

Institute of Physics

15:45–16:00

Coffee Break

Chairman: Prof. Luchang Qin (SESSION VIII)

16:00–16:35 A19 QUANTITATIVE ELECTRON MICROSCOPY
INVESTIGATIONS ON PLASTIC DEFORMATIONS IN
A NANOTWINNED METAL

Prof. Kui Du (KEYNOTE)

Institute of Metal Research

16:35–17:00 A20 METASTABLE PHASE STRUCTURE AND
EVOLUTION IN THE AL-SI-MG-HF ALLOY

Prof. Zhihong Jia (INVITED)

Chongqing University

17:00–17:30 A21 DE DELIVERY OF THE MOST FLEXIBILITY AND
VERSATILITY BY DIRECT ELECTRON

Dr. Xujing Zhang (INVITED)

Time: Oct 30, 2015 AM (Thursday)

Location: ROOM 305, China National Convention Center, Beijing

Chairman: Prof. Jinfeng Jia (SESSION IX)

8:30–9:05 A22 REAL-TIME OBSERVATION OF THE SODIATION
PROCESS IN CUO

Prof. Jianbo Wang (KEYNOTE)

Wuhan University

9:05–9:30 A23 FABRICATION OF CARBON NANOTUBES AND
ARRAY IN A TEM

Prof. Kun Zheng (INVITED)

University of Queensland

9:30–9:55 A24 IN-SITU ATOMIC-SCALE OBSERVATION OF
CATALYST-FREE NANOWIRE GROWTH VIA
OSCILLATORY MASS TRANSPORT

Prof. Yong Wang (INVITED)

Zhejiang University

9:55–10:20 A25 ABERRATION CORRECTED TEM STUDIES OF
SURFACES OF CATALYSTS

Prof. Rong Yu (INVITED)

Tsinghua University

10:20-10:40

Coffee Break

Chairman: Prof. Jianbo Wang (SESSION X)

10:40–11:15 A26 STM FOR MATERIAL RESEARCH

Prof. Jinfeng Jia (KEYNOTE)

Shanghai Jiaotong University

11:15–11:40 A27 EXPLORING ATOMIC DEFECTS AND THEIR
DYNAMICS IN MONOLAYER MOLYBDENUM BY
ADF-STEM

Prof. Chuanhong Jin (INVITED)

Zhejiang University

11:40–12:00 A28 NEW GENERATION TEM TECHNOLOGY FOR
MATERIAL SCIENCE

Dr. Binjie Wang (INVITED)

Chairman: Prof. Lihua Wang (SESSION XI)

13:30–14:05 A29 DYNAMIC IN-SITU ELECTRON MICROSCOPY OF
SUB-10NM MATERIALS

Prof. Litao Sun (KEYNOTE)

Southeast University

14:05–14:30 A30 ADVANCES IN 3D ELECTRON TOMOGRAPHY AND
APPLICATIONS IN NANOSCIENCE

Dr. Xiaoxing Ke (INVITED)

University of Antwerpen

14:30-14:50

Coffee Break

Chairman: Prof. Litao Sun (SESSION XII)

14:50-15:25 A31 VARIANT SELECTION OF TWINNING IN
DEFORMATION OF MAGNESIUM ALLOY

Prof. Renlong Xin (INVITED)

Chongqing University

15:25-15:50 A32 GE-SI CORE-SHELL NANOWIRES: AU DIFFUSION,
DEFECTS, INTERFACE AND COHERENT GROWTH

Dr. Ang Li (INVITED)

Delft University of Technology

15:50-16:15 A33 TWIN THICKNESS EFFECT ON PLASTIC
DEFORMATION IN TWIN-STRUCTURED NI
NANOWIRES

Dr. Lihua Wang (INVITED)

University of Queensland

16:15-16:40 A34 DEFORMATION MAPPING VALANCE AND
COORDINATION BY MONOCHROMATED STEM EELS

Prof. He Tian (INVITED)

Zhejiang University

SCHEDULE OF SESSIONS

B.MASS SPECTROMETRY

CHAIRMAN: Prof. Jinying LI

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 306A-B, China National Convention Center, Beijing

Chairman: Prof. Xinrong ZHANG and Prof. Christoph H. BORCHERS

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|-------------|----|---|
| 13:30-13:55 | B2 | MULTIPLEX MRM AND IMALDI: FROM BIOMARKER
VALIDATION TO CLINICAL ASSAYS AND
COMPANION DIAGNOSTICS
Christoph H. BORCHERS (Keynote)
UVic Genome BC Proteomics Centre, University of Victoria,
Canada |
| 13:55-14:20 | B3 | APPLICATION OF FUNCTIONAL AND
QUANTITATIVE PHOSPHOPROTEOMICS IN STUDY
OF PLANT HORMONE ETHYLENE SIGNALING
Ning LI (Keynote)
Division of Life Science, The Hong Kong University of
Science and Technology, China |
| 14:20-14:45 | B4 | LABEL-FREE QUANTITATIVE PHOSPHOPROTEOMIC
ANALYSIS OF HELA CELLS USING UNIFORM TIO ₂
NANOWIRES
Chih-Che WU (Keynote)
Department of Applied Chemistry, National Chi Nan
University, Taiwan |
| 14:45-15:10 | B5 | MULTI-DIMENSIONAL MASS SPECTROMETRY AND
ITS APPLICATION FOR LIPIDOMICS
Xianlin HAN (Keynote)
Sanford Burnham Prebys Medical Discovery Institute, USA |

- 15:10-15:35 B6 MASS SPECTROMETRY FOR QUANTITATIVE METABOLOMICS WITH LARGE METABOLOME COVERAGE
Liang LI (Keynote)
Department of Chemistry, University of Alberta, Canada
- 15:35-15:50 **Coffee Break**
- 15:50-16:15 B7 CONFORMATIONS OF BIOMOLECULAR IONS PROBED BY PROTON-TRANSFER REACTIONS AT VARIOUS TEMPERATURE
Shinji NONOSE(Keynote)
Graduate School of Nanobioscience, Yokohama City University, Japan
- 16:15-16:40 B8 NOVEL IONIZATION SOURCE FOR ELECTROSPRAY IONIZATION MASS SPECTROMETRY UNVEIL THE FUNDAMENTAL OF MOLECULE PROTONATION
Rong WANG(Keynote)
Icahn School of Medicine at Mount Sinai, USA
- 16:40-17:00 B9 SCREENING OF PESTICIDES IN FOOD MATRICES USING HIGH RESOLUTION GC/Q-TOF MASS SPECTROMETER WITH NEW EXACT MASS PESTICIDE LIBRARY
Jiajia WU
Agilent Technologies
- 17:00-17:25 B10 PUSHING THE LIMIT OF TIME-OF-FLIGHT MASS SPECTROMETRY FOR ULTRAHIGH MASS RESOLVING POWER
Yi-Sheng WANG(Keynote)
Genomics Research Center, Academia Sinica, Taiwan
- 17:25-17:50 B11 QUANTITATION FOR POINT-OF-CARE MASS SPECTROMETRY ANALYSIS
ZhengOUYANG(Keynote)
Weldon School of Biomedical Engineering, Purdue University, USA

Time: Oct. 29, 2015AM (Thursday)

Location: Room 306A-B, China National Convention Center, Beijing

Chairman: Prof. Risto KOSTIAINEN and Prof. Lingjun LI

DEVELOPMENT AND APPLICATION OF NOVEL
CHEMICAL LABELS FOR HIGHLY MULTIPLEXED
QUANTITATIVE PROTEOMICS AND PEPTIDOMICS
BY MASS SPECTROMETRY

8:30-8:55 B12

Lingjun LI (Keynote)

School of Pharmacy and Department of
Chemistry, University of Wisconsin-Madison, USA

NOVEL MASS SPECTROMETRY-BASED METHODS
FOR ASSESSING THE IMPACT OF DNA LESIONS ON
TRANSCRIPTIONAL AND REPLICATIVE BYPASS OF
DNA LESIONS IN CELLS

8:55-9:20 B13

Yinsheng WANG (Keynote)

Department of Chemistry, University of California,
Riverside, USA

MILLISECOND MICRO-ELECTROPHORESIS MASS
SPECTROMETRY OF PROTEINS IN COMPLEX
MIXTURES

9:20-9:35 B14

Guangming HUANG (Invited)

School of Chemistry and Materials Science, University of
Science and Technology of China, China

- 9:35-10:00 B15 GLOBAL ANALYSIS OF UNSATURATED LIPIDS FROM BIOLOGICAL SAMPLES - SPECIFICITY OF C=C LOCATION ACHIEVED VIA ON-LINE PHOTOCHEMISTRY AND MS
Yu XIA (Keynote)
Department of Chemistry, Purdue University, USA
- 10:00-10:15 **Coffee Break**
- 10:15-10:40 B16 MINIATURIZED ION SOURCES IN MASS SPECTROMETRY
Risto KOSTIAINEN (Keynote)
Division of Pharmaceutical Chemistry and Technology, University of Helsinki, Finland
- 10:40-11:05 B17 IDENTIFYING CHEMICAL STRUCTURES OF AROMATIC COMPOUNDS IN COMPLEX MIXTURE BY USE OF HIGH RESOLUTION MASS SPECTROMETRY AND ION MOBILITY MASS SPECTROMETRY
Sunghwan KIM (Keynote)
Kyungpook National University, South Korea
- 11:05-11:20 B18 DISCRIMINATION BETWEEN ARABICA AND ROBUSTA COFFEE SPECIES USING DIRECT INLET PROBE/ION ATTACHMENT IONIZATION MASS SPECTROMETRY
Takahisa TSUGOSHI (Invited)
National Institute of Advanced Industrial Science and Technology, Japan
- 11:20-11:35 B19 SCION'S GC/MS TECHNOLOGY AND APPLICATION
Hans van den HEUVEL
Techcomp Limited, China

11:35-12:00 B20 NEW CHALLENGES OF MASS SPECTROMETRY IN
DMPK DEVELOPMENT: FROM SMALL MOLECULE
DRUGS, PEPTIDES TO NANOPARTICLES
Jingkai GU (Keynote)
Jilin University, China

Time: Oct 29, 2015 PM (Thursday)

Location: Room 306A-B, China National Convention Center, Beijing

Chairman: Prof. Zeper ABLIZ

13:30-13:40 OPENING CEREMONY OF 5th WORLD CHINESE
MASS SPECTROMETRY CONFERENCE (5th WCMSC)
NEW APPROACHES FOR QUALITATIVE AND
QUANTITATIVE PROTEOMICS
13:40-14:10 B21 **Yukui ZHANG** (Invited)
Dalian Institute of Chemical Physics, Chinese Academy of
Science, China

Chairman: Prof. Guor-Rong HERand Prof. Rong WANG

14:10-14:35 B22 BIOMARKER DISCOVERY FOR LUNG CANCER
METASTASIS USING A HOLLOW FIBER CULTURE
SYSTEM AND MASS SPECTROMETRY-BASED
PROTEOMICS
Pao-Chi LIAO (Invited)
College of Medicine, National Cheng Kung University,
Taiwan
14:35-14:50 B23 PROTEOMIC ANALYSES OF INTRACELLULAR
SALMONELLA ENTERICA SEROVAR TYPHIMURIUM
REVEAL EXTENSIVE BACTERIAL ADAPTATIONS TO
INFECTED HOST EPITHELIAL CELLS
Xiaoyun LIU (Invited)
College of Chemistry and Molecular Engineering, Peking
University, China

STABILIZATION OF PROTEINS AND NONCOVALENT PROTEIN COMPLEXES DURING ELECTROSPRAY IONIZATION BY AMINO ACID ADDITIVES

14:50-15:05 B24 **Konstantin CHINGIN**(Invited)
Jiangxi Key Laboratory for Mass Spectrometry and
Instrumentation, East China Institute of Technology, China

NEW PROTEOMICS APPROACHES FOR COMPREHENSIVE CHARACTERIZATION OF PTM

15:05-15:20	B25	Mingliang YE (Invited) Dalian Institute of Chemical Physics, Chinese Academy of Science, China
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15:20-15:35 **Coffee Break**HIGH-PRECISION U-SERIES DATING OF THE
RECENT PAST BY MULTI-COLLECTOR ICP-MS

15:35-16:00	B26	Jianxin ZHAO (Keynote) School of Earth Sciences, The University of Queensland, Australia
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NEW APPLICATION OF THEiCAP™ O ICP-MS

16:00-16:15 B27 **Yanping WANG**
ThermoFisherScientific

EQUILIBRIUM BORON ISOTOPIC FRACTIONATION
AND INCORPORATION MECHANISMS OF AQUEOUS
BORON SPECIES INTO CALCITES IN NATURAL
SEAWATER

16:15-16:30 B28 SEAWATER
Haizhen WEI (Invited)
 Department of Earth Sciences and Engineering, Nanjing
 University, China

LASER RESONANT IONIZATION—SYNC-PULSE
TIME-OF-FLIGHT MASS SPECTROMETRY (LRI-STOF)
EXPERIMENT SYSTEM

16:30-16:45	B29	EXPERIMENT SYSTEM Junjie CHAI (Invited) Research Institute of Physical and Chemical Engineering of Nuclear Industry, China
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- 16:45-17:05 B30 **Xueli WU**
Waters Corporation
- 17:05-17:30 B31 **Guor-Rong HER** (Invited)
Department of Chemistry, National Taiwan University,
Taiwan
- 17:30-17:55 B32 **Baorui WANG**(Keynote)
China Academy of Engineering Physics, China

Time: Oct. 30, 2015 AM (Friday)

Location: Room E232A-B, China National Convention Center, Beijing

Chairman: Prof. Xianlin HAN and Prof. Pao-Chi LIAO

- 8:30-8:55 B33 **Huanwen CHEN** (Keynote)
Jiangxi Key Laboratory for Mass Spectrometry and
Instrumentation, East China Institute of Technology, China
- 8:55-9:20 B34 **Yuanjiang PAN**(Keynote)
Department of Chemistry, Zhejiang University, China
- 9:20-9:35 B35 **Andy Weiguo TAO**(Invited)
Purdue University, USA

- 9:35-9:55 B36 PROGRESS AND APPLICATION OF BRUKER'S HIGH RESOLUTION TOF MASS SPECTROMETRY
Chensong PAN
Bruker Corporation
- 9:55-10:20 B37 MASS SPECTROMETRY AND IMAGING OF PARTICLES
Zongxiu NIE(Keynote)
Institute of Chemistry, Chinese Academy of Sciences, China
- 10:20-10:35 **Coffee Break**
- 10:35-11:00 B38 THE EFFECT OF HIGHER ORDER FIELDS ON THE PERFORMANCE OF LINEAR ION TRAP MASS ANALYZERS
Chuanfan DING(Keynote)
Department of Chemistry and Laser Chemistry Institute, Fudan University, China
- 11:00-11:15 B39 WHAT HIGH-PERFORMANCE ION MOBILITY SPECTROMETRY CAN DO FOR MASS SPECTROMETRY
Ching WU(Invited)
Excellims Corporation, Acton, Massachusetts, USA
- 11:15-11:35 B40 HIGH SENSITIVE QUANTITATIVE ANALYSIS IN THE COMPLICATED MATRIX BY ORBITRAP HIGH-RESOLUTION MASS SPECTROMETRY
Zheng JIANG
ThermoFisher Scientific
- 11:35-11:50 B41 GLYCOPROTEOMIC ANALYSIS OF ENTEROVIRUS INTERACTING PROTEINS
Chuan-Fa CHANG(Invited)
College of Medicine, National Cheng Kung University, Taiwan

STOICHIOMETRY ANALYSIS OF PROTEIN
POSTTRANSLATIONAL MODIFICATIONS WITH
STABLE-ISOTOPE CODED MASS SPECTROMETRY

11:50-12:05 B42 **Yue CHEN**(Invited)

Department of Biochemistry, Molecular Biology and
Biophysics, University of Minnesota, Minneapolis, USA

Time: Oct. 30, 2015PM (Friday)

Location: Room E232A-B, China National Convention Center, Beijing

Chairman: Prof. Zhiqiang LIU and Prof. Jentaie SHIEA

DEVELOPMENT OF MULTI-FUNCTIONAL AMBIENT
MASS SPECTROMETRY FOR FOOD SAFETY
SCREENING AND CHARACTERIZING POLYMERS IN
PACKING MATERIALS

13:30-13:55 B43

Jentaie SHIEA(Invited)

Department of Chemistry, National Sun Yat-Sen University,
Kaohsiung Taiwan

HIGH-RESOLUTION MASS
SPECTROMETRY COMBINED
WITH METABOLOMIC TECHNOLOGY IN FOOD
TRACEABILITY

13:55-14:10 B44

Zhuwei WANG

ABSciex

MICROFLUIDIC LIQUID CHROMATOGRAPHY
TANDEM MS FOR FOOD ANALYSIS

14:10-14:25 B45

Ming-Ren FUH(Invited)

Department of Chemistry, Soochow University, Taiwan

APPLICATION OF THE ONLINE SUPERCRITICAL
FLUID EXTRACTION/ CHROMATOGRAPHY MASS
SPECTROMETRY SYSTEM

14:25-14:40 B46

Hongrui YIN

Shimadzu Corporation

- 14:40-15:05 B47 MS-BASED NONTARGETED FINGERPRINT ANALYSIS ON THE FOOD AND ENVIRONMENT SAFETY
Yong-Chien LING(Invited)
National Tsing Hua University, Taiwan
- 15:05-15:20 **Coffee Break**
- 15:20-15:35 B48 DISCOVERY OF INNATE PEPTIDE ELICITORS FOR TRIGGERING PLANT DEFENSE RESPONSES
Yet-Ran CHEN(Invited)
Agricultural Biotechnology Research Center, Academia Sinica, Taiwan
- 15:35-15:50 B49 TOF-SIMS IMAGING VISUALIZES SUBCELLULAR DISTRIBUTION OF METAL ANTICANCER COMPLEXES
Fuyi WANG(Invited)
Institute of Chemistry, Chinese Academy of Sciences, China
- 15:50-16:05 B50 THE SINGLE-PROBE: A MINIATURIZED DEVICE FOR MASS SPECTROMETRY SINGLE CELL ANALYSIS AND TISSUE IMAGING
Zhibo YANG(Invited)
University of Oklahoma, USA
- 16:05-16:20 B51 DISCOVERY OF NOVEL SIGNALING AND EPIGENETIC PATHWAYS BY QUANTITATIVE PROTEOMICS
Xian CHEN(Invited)
School of Medicine, University of North Carolina- Chapel Hill, USA
- 16:20-16:35 B52 COMPARATIVE TISSUE PROTEOMICS OF MICRODISSECTED SPECIMENS REVEALS NOVEL CANDIDATE BIOMARKERS OF BLADDER CANCER
Yi-Ting CHEN (Invited)
Molecular Medicine Research Center, Chang Gung University, Taiwan

POSTER SESSION

Location: Near booth No. 52 of the Exhibition Area

- CLINICAL ENZYMOLOGY BY PAPER SPRAYMASS SPECTROMETRY
- B53 Xin Yan, Xin Li, Chengsen Zhang, Kassandra Moore, Yang Xu, R. Graham Cooks*
Department of Chemistry, Purdue University, West Lafayette, USA
- RAPID DETECTION OF URANIUM IN ENVIRONMENTAL WATER SAMPLES BY MICROWAVE PLASMA TORCH MASS SPECTROMETRY
- B54 Meiling Yang, Yi Li, Tenggao Zhu, Xiaowei Fang, Huanwen Chen
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, China
- DETECTION OF MUTATION ON MOLECULAR LEVELS USING INTERNALEXTRACTION ELECTROSPRAY MASS SPECTROMETRY
- B55 Wei Zhou¹, Jianyong Zhang², Kaiqi Cai¹, Yiping Wei², Huanwen Chen¹
¹Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, China
²Department of Cardiothoracic Surgery to Second Affiliated Hospital of Nanchang University, Nanchang, China
- RAPID SCREENING OF DRUGS IN URINE BY EESI-MS
- B56 Tenggao Zhu¹, Yongzi Liu², Peng Zhou¹, Xinglei Zhang¹, Huian Zhao², Huanwen Chen¹
¹Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, China
²Jiangxi of Forensic Science Institute, Nanchang, China
- DISCHARGE INDUCED CRYSTALLIZATION OF IONIC NANOCRYSTALS FROM A ULTRA-DILUTE SOLUTION
- B57 Fuqin Zheng¹, Dong Wang², Hairui Fang¹, Meng Wang¹, Keke Huang, Huanwen Chen^{1,3}, Shouhua Feng¹
¹State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, College of Chemistry, Jilin University, Changchun, China
²Department of Chemical Engineering, Northeast Dianli University, Jilin, China
³East China Institute of Technology, Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Nanchang, China

- B58** REAL-TIME MONITORING OF PAAL-KNORR REACTION BY NEUTRAL DESORPTION EXTRACTIVE ELECTROSPRAY IONIZATION MASS SPECTROMETRY
 Peng Zhou, Miaorong Pei, Meiling Yang, Zhanggao Le, Huanwen Chen*
 The Research Center of Analysis and Testing of East China Institute of Technology, Nanchang, China
- B59** THE EFFECT OF IONIZATION CONDITIONS ON THE PRESERVATION OF INTACT NONCOVALENT PROTEIN COMPLEXES DURING IONIZATION
 Hua Zhang, Konstantin Chingin, Huanwen Chen
 Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, China
- B60** RAPID EVALUATION SEED VIGOR OF COFFEE BY SURFACE DESORPTION ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY
 Qin Yin¹, Huolin Luo¹, Xingxing Liu^{1,2}, Huanwen Chen², Liping Luo^{1,*}
¹School of Life Sciences, Nanchang University, Nanchang, China
²Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang, China
- B61** HIGH-PERFORMANCE CHEMICAL ISOTOPE LABELING LC-MS FOR RAT SERUM METABOLOMIC ANALYSIS OF OSTEOARTHRITIS MODEL
 Deying Chen¹, Xiaoling Su¹, Nan Wang^{1,2}, Yunong Li², Yingfeng Lu¹, Zeyu Sun¹, Jing Jiang¹, Wei Xu¹, Liang Li^{1,2}, Lanjuan Li¹
¹State Key Laboratory and Collaborative Innovation Center for Diagnosis and Treatment of Infectious Diseases, the First Affiliated Hospital, College of Medicine, Zhejiang University, Hangzhou, China
²Department of Chemistry, University of Alberta, Edmonton, Alberta, Canada
- B62** DANSYLATION ISOTOPE LABELING LIQUID CHROMATOGRAPHY MASS SPECTROMETRY FOR PARALLEL PROFILING OF HUMAN URINARY AND FECAL SUBMETABOLOMES
 Xiaoling Su¹, Deying Chen¹, Nan Wang^{1,2}, Yunong Li², Yingfeng Lu¹, Tao Huan², Jing Jiang¹, Zeyu Sun¹, Wei Xu¹, Liang Li^{1,2,*}, Lanjuan Li^{1,*}
¹State Key Laboratory and Collaborative Innovation Center for Diagnosis and Treatment of Infectious Diseases, the First Affiliated Hospital, College of Medicine, Zhejiang University, Hangzhou, China
²Department of Chemistry, University of Alberta, Edmonton, Alberta, Canada

ELUCIDATION OF BROMOCRIPTINE-RESISTANCE IN PROLACTINOMA VIA MASS SPECTROMETRY-BASED METABOLOMICS

Qingce Zang¹, Yang Liu², Jiuming He¹, Xiaofei Yue¹, Ruiping Zhang¹, Renzhi Wang², Zeper Abliz^{1,*}

B63

¹State Key Laboratory of Bioactive Substance and Function of Natural Medicines, Institute of Materia Medica, Chinese Academy of Medical Science and Peking Union Medical College, Beijing, China

²Department of Neurosurgery, Peking Union Medical College Hospital, Chinese Academy of Medical Science and Peking Union Medical College, Beijing, China

METABOLITE EXTRACTION FROM U87 GLIOMA CELLS FOR METABOLOMICS STUDIES

Rui Zhang¹, Qingce Zang¹, Peishan Hu², Jing Xu¹, Zhi Zhou¹, Xiaofei Yue¹, Wei Han², Xiaozhong Peng², Ruiping Zhang^{1*}, Zeper Abliz^{1*}

B64

¹State Key Laboratory of Bioactive Substance and Function of Natural Medicines, Institute of Materia Medica, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

²State Key Lab of Biochemistry & Molecular Biology, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

DIFFERENTIATION OF CLOSELY RELATED MONOSACCHARIDE AND DISACCHARIDE ISOMERS BY THE 1-PHENYL-3-METHYL-5-PYRAZOLONE LABELING TECHNIQUE IN CONJUNCTION WITH ION-MOBILITY SEPARATION AND TANDEM MASS SPECTROMETRY

B65

Hongmei Yang¹, Lei Shi², Wenbin Yao¹, Shuying Liu¹

¹Changchun University of Chinese Medicine, Changchun, China

²Nuclear Engineering Clean Energy Co., Ltd., China Nuclear Engineering Group Co., Beijing, China

A STUDY OF GAS PHASE ION-MOLECULE REACTION IN DART-MS—MECHANISM AND APPLICATION

B66

Rui Su^{1,2}, Hongmei Yang², Wenlong Liu²

¹College of Chemistry, Jilin University, Changchun, China

²Jilin Ginseng Academy, Changchun University of Chinese Medicine, Changchun, China

THE FAST ANALYSIS OF GINSENOSES BY USING DIRECT ANALYSIS IN REAL TIME MASS SPECTROMETRY

Wenlong Liu¹, Shuying Liu^{1,2}

B67

¹Jilin Ginseng Academy, Changchun University of Chinese Medicine, Changchun, China

²Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China

ANALYSIS OF PLANT METABOLISM WITH MALDI-TOF-MS

Qiang Fu^{1,2}, Meng Cui^{1,*}, Junpeng Xing¹, Zhiqiang Liu¹, Shuying Liu¹

B68

¹Changchun Center of Mass Spectrometry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China

²University of the Chinese Academy of Sciences, Beijing, China

STUDY ON THE INTERACTIONS BETWEEN CYTOCHROME C AND FLAVONOIDS USING ELECTROSPRAY IONIZATION MASS SPECTROMETRY

Jun Tang^{1,2}, Huan Liu^{1,2}, Meng Cui^{1,*}, Zhiqiang Liu¹, Shuying Liu¹

B69

¹Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China

²University of the Chinese Academy of Sciences, Beijing, China

UPLC-MS/MS FOR SIMULTANEOUS QUANTIFICATION OF 21 PIVOTAL METABOLITES IN PLASMA AND KIDNEY TISSUE ON THE EFFECT OF GARDENIA JASMINOIDES TREATMENT ON TYPE 2 DIABETES MELLITUS RATS: A DUAL-PROBE MICRODIALYSIS STUDY

B70

Lu Wang, Xueju Zhang, Zhqiang Liu, Fengrui Song*

National Center of Mass Spectrometry in Changchun & Jilin Province

Key Laboratory of Chinese Medicine Chemistry and Mass

Spectrometry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

URINARY AND SERUM METABONOMIC STUDY OF RADIX ASTRAGALI ACTED ON RHEUMATOID ARTHRITIS RATS USING UPLC-Q-TOF-HDMS

B71

Tengfei Xu, Shu Liu, Zifeng Pi, Fengrui Song, Zhiqiang Liu*

National Center for Mass Spectrometry in Changchun, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China

- DETERMINATION OF DIOXINS IN FOODSTUFFS AND ANIMAL FEED USING A GAS CHROMATOGRAPHY–TRIPLE QUADRUPOLE MASS SPECTROMETRY METHOD**
Huizhong Sun¹, Pu Wang¹, Feifei Tian², Honghua Li¹, Qinghua Zhang¹
B72 ¹Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China
²Analytical Applications Center, Shimadzu (China) Co., Ltd., Beijing, China
- A SOLUTION NEBULIZATION BASED CALIBRATION FOR LASER-INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY ICP-MS ANALYSIS BY THE DESOLVATING NEBULIZER SYSTEM**
B73 Guoxia Zhang, Qing Li, Zheng Wang*
Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China.
- DIRECT IDENTIFICATION OF PROHIBITED SUBSTANCES IN COSMETICS USING A MINIATURE MASS SPECTROMETRY SYSTEM**
B74 Qiang Ma^{1,2}, R. Graham Cooks², Zheng OuYang^{2,*}
¹Chinese Academy of Inspection and Quarantine, Beijing, China
²Purdue University, West Lafayette, USA
- DETERMINATION OF NITRATED POLYCYCLIC AROMATIC HYDROCARBONS IN ENVIRONMENTAL AQUEOUS SAMPLES BY DISPERSIVE LIQUID-LIQUID MICROEXTRACTION TECHNIQUE COUPLED WITH GAS CHROMATOGRAPHY-NEGATIVE ION CHEMICAL IONIZATION MASS SPECTROMETRY**
B75 Ming Han Yang¹, Yu Chieh Wang¹, Yu Yun Sun², Youn Yuen Shu¹
¹Department of Chemistry, National Kaohsiung Normal University, Kaohsiung, Taiwan
²Department of Fashion and Cosmetology, Tung Fan Design Institute, Kaohsiung, Taiwan
- ONLINE MONITORING BY AMBIENT LIQUID-ASSISTED IONIZATION**
B76 Yan Wang, Yuhua Yang, JinOuYang and Na Na*
College of Chemistry, Beijing Normal University, Beijing, China

- MICROEXTRACTION COUPLED TO AMBIENT MASS SPECTROMETRY FOR FAST ANALYSIS**
 B77 Huwei Liu, Yu Bai, Xin Wang, Xianjiang Li, Ze Li
 Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, China
- AN ANALOGUE STUDY FOR SILICON UPTAKE IN BIOLOGICAL PROCESSES: THERMODYNAMIC, KINETIC AND BONDING CONFIGURATIONS**
 B78 Wei Wang¹, Shaoyong Jiang^{1,2,*}, Haizhen Wei^{2,*}, Christopher j. Eastoe³, Xiong Yan², Hepin Wu²
¹State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, Wuhan, China
²State Key Laboratory for Mineral Deposits Research, Department of Earth Sciences, Nanjing University, Nanjing, China
³Department of Geosciences, University of Arizona, Tucson, USA
- FAST MS/MS ACQUISITION WITHOUT DYNAMIC EXCLUSION ENABLES PRECISE AND ACCURATE QUANTIFICATION OF PROTEOME**
 B79 Yichu Shan¹, Shen Zhang^{1,2}, Lihua Zhang^{1,*}, Yukui Zhang¹
¹Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
²University of Chinese Academy of Sciences, Beijing, China
- HIGHLY SELECTIVE ENRICHMENT OF GLYCOPROTEINS USING BENZOBOROXOLE-FUNCTIONALIZED GRAPHENE OXIDE NANOCOMPOSITE UNDER PHYSIOLOGICAL CONDITIONS**
 B80 Qiong Wu^{1,2}, Bo Jiang¹, Yejing Weng^{1,2}, Lihua Zhang^{1,*}, Yukui Zhang¹
¹Key Lab of Separation Sciences for Analytical Chemistry, National Chromatographic R. & A. Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
²University of Chinese Academy of Sciences, Beijing, China
- THE PROTEOME ANALYSIS OF ANTILERAGENIC PERIOSTEUM CELLS**
 B81 Zhigang Sui¹, Yejing Weng^{1,2}, Qun Zhao¹, Fei Fang, Xudong Zhu^{1,2}, Lihua Zhang¹, Yukui Zhang¹
¹Key Lab of Separation Sciences for Analytical Chemistry, National Chromatographic R. & A. Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
²Graduate University of China Academic of Sciences, Beijing, China

THE DEVELOPMENT OF AN ANNOTATED LIBRARY OF
HUMAN MILK OLIGOSACCHARIDES FROM SIX DIFFERENT
REDUCING-TERMINAL DERIVATIZATIONS

- B82 Yinzhi Lang¹, Chen Wang¹, Guoyun Li^{1,2}, Chao Cai^{1,2}, Chen Chen¹,
Guangli Yu^{1,2}
¹Key Laboratory of Marine Drugs, Ministry of Education, School of
Medicine and Pharmacy, Ocean University of China, Qingdao, China
²Shandong Provincial Key Laboratory of Glycoscience and
Glycotechnology, Ocean University of China, Qingdao, China

PERSONALIZED LIPID BIOMARKERS: MONITORING DISEASE
PROGRESSION OF NON-SMALL CELL LUNG CANCER

- B83 Junling Ren, Yujie Liu, Dan Zhang, Ruiqing Zhang, Shuai Guo, Zhili
Li*
Department of Biophysics and Structural Biology, Institute of Basic
Medical Sciences, Chinese Academy of Medical Sciences and Peking
Union Medical College, Beijing, China

SITE-SPECIFIC SIALYLATION: PERSONALIZED BIOMARKERS
FOR MONITORING NON-SMALL-CELL LUNG CANCER
DEVELOPMENT

- B84 Ruiqing Zhang, Yujie Liu, Dan Zhang, Zhili Li*
Department of Biophysics and Structural Biology, Institute of Basic
Medical Sciences, Chinese Academy of Medical Sciences, & School of
Basic Medicine, Peking Union Medical College, Beijing, China

MS IMAGING OF MULTIPLE LIPID CLASSES IN MOUSE BRAIN
USING GRAPHENE OXIDE AS A MATRIX

- B85 Dan Zhou, Zhili Li*
Department of Biophysics and Structural Biology, Institute of Basic
Medical Sciences, Chinese Academy of Medical Sciences & Peking
Union Medical College, Beijing, China

ANALYSIS OF FLUOROTELOMER ALCOHOLS BY GAS
CHROMATOGRAM WITH MASS SPECTROMETRY

- B86 Zhongmin Li, Lianghong Guo
State Key Laboratory of Environmental Chemistry and Eco-toxicology,
Research Center for Eco-Environmental Sciences, Chinese Academy of
Sciences, Beijing, China

- SENSITIVE DETECTION OF APURINIC/APYRIMIDINIC SITES BY ELECTROCHEMILUMINESCENCE SENSOR**
Rui Feng, Yiping Wu, Gang Liang, Lianghong Guo
B87 State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing, China
- APPLICATION OF CHEMOMETRIC DETERMINATION AND MODEL BUILDING OF CABERNET SAUVIGNON WINES FROM CHINA AND USA FOR GEOGRAPHICAL ORIGIN TRACEABILITY**
B88 Nana Liang¹, Ying Liu¹, Linli Wang¹, Peiyue Wang¹, Meiling Lu², Jinhua Wang¹, Zhaohui Zhang¹, Shen Han¹
¹Inspection and Quarantine Testing Center of Beijing Entry-Exit Inspection and Quarantine Bureau, Beijing, China
²Agilent Technologies China Ltd., Beijing, China
- TRACING THE GEOGRAPHIC ORIGIN OF OLIVE OIL BY CARBON STABLE ISOTOPE ANALYSIS OF INDIVIDUAL FATTY ACID**
Ling Tian^{1,2}, Hua Yan^{3,*}, Zhaohui Zhang³, Qiang Gu⁴, Guozhe Wang^{1,2}
B89 ¹Huangpu Entry-Exit Inspection and Quarantine Bureau, Guangzhou, China
²State Key Testing Laboratory of Wine and Alcohol Beverage (Guangdong), Guangzhou, China
³Beijing Entry-Exit Inspection and Quarantine Bureau, Beijing, China
⁴Zhangjiagang Entry-Exit Inspection and Quarantine Bureau, Zhangjiagang, China
- ESTABLISHMENT OF CRYOPRESERVATION AND RETRIEVAL SYSTEM OPTIMIZED FOR HUMAN EMBRYONIC STEM CELLS-DERIVED HEPATOCYTES**
B90 Mingzhen Li, Jialin Qian, Chunyan Qian, Xiaoping Zhou, Mingzhen Li
Beijing Center for Physical and Chemical Analysis, Beijing, China
- OCCURRENCE OF BENZOTRIAZOLE UV STABILIZERS (BUVSs) IN YONGDING RIVER IN BEIJING USING GC-MS/MS**
B91 Jincheng Li¹, Huan Liu¹, Chaoying Wang¹, Dan Liu², Lidong Wu¹
¹Chinese Academy of Fishery Sciences, Beijing, China
²Beijing University of Agriculture, Beijing, China

- DEVELOPMENT OF CERTIFIED REFERENCE MATERIALS FOR QUALITY AND SAFETY RISK ASSESSMENT OF AGRO-PRODUCTS**
 B92 Mengrui Yang, Min Wang*, Jian Zhou, Yinqing Song, Yongran Geng
 Institute of Quality Standard & Testing Technology for Agro-Products,
 Chinese Academy of Agricultural Sciences, China
- ELUCIDATION OF THE NONCOVALENT INTERACTION OF PC4 WITH TRANS-PTTZ DAMAGED DNA BY AMIDE HYDROGEN/EXCHANGE MASS SPECTROMETRY**
 B93 Yuanyuan Wang, Kui Wu, Zhifeng Du, Wei Zheng, Qun Luo, Yao Zhao,
 Shaoxiang Xiong, Fuyi Wang
 Beijing National Laboratory for Molecular Sciences, CAS Key
 Laboratory of Analytical Chemistry for Living Biosystems, Beijing
 Centre for Mass Spectrometry, Institute of Chemistry, Chinese Academy
 of Sciences, Beijing, China
- COMPLEMENTARY IMAGING OF LI AND B IN NUCLEAR WASTE GLASS USING APT, TOF-SIMS, AND NANOSIMS**
 B94 Zhaoying Wang^{1,2}, Zihua Zhu², Jarrod V Crum³, Fuyi Wang¹
¹Institute of chemistry Chinese Academic of Science, Beijing, China
²W. R. Wiley Environmental Molecular Sciences Laboratory, Pacific
 Northwest National Laboratory, Richland, WA, USA
³Energy and Environment Directorate, Pacific Northwest National
 Laboratory, Richland, WA, USA
- A COMPARATIVE STUDY ON THE INTERACTIONS OF ORGANORUTHENIUM(II) ANTICANCER COMPLEXES AND CISPLATIN WITH HUMAN COPPER CHAPERONE COX-17 BY MASS SPECTROMETRY**
 B95 Lijie Li, Wei Guo, Kui Wu, Yao Zhao, Qun Luo, Jianan Liu, Shaoxiang
 Xiong, Zhenwen Zhao, Fuyi Wang
 Beijing National Laboratory for Molecular Sciences, CAS Key
 Laboratory of Analytical Chemistry for Living Biosystems, Beijing
 Centre for Mass Spectrometry, Institute of Chemistry, Chinese
 Academy of Sciences. Beijing, China
- ULTRAFAST HIGH-RESOLUTION SEPARATION OF BIOPOLYMERS UNDER GRADIENT ELUTION AND ITS FAST SEPARATION BY HPLC**
 B96 Yicong Yang¹, Xiaohui, Ning², Jianshan Wang¹, Meng Yu¹, Yongjun,
 Lu³, Lili Wang¹, Quan Bai¹, Xindu Geng^{1,*}
¹Institute of Modern Separation Science, Shaanxi Provincial Key
 Laboratory, Northwest University, Xi'an, China
²The Shaanxi Provincial Key Laboratory of Electroanalytical Chemistry
³Xian Aolan Science and Technology Development Company, Xi'an,
 China

- B97** MASS SPECTROMETRIC ANALYSIS OF THE SUBCELLULAR PROTEIN-PROTEIN INTERACTIONS: A CASE STUDY OF C1QBP
 Mingming Xiao, Huajun Gao, Ying Li, Ning Zhang, Ruibing Chen
 Research Center of Basic Medical Sciences, Tianjin Medical University, Tianjin, China
- B98** DISTRIBUTION AND ENRICHMENT OF SE IN SOIL-CROP SYSTEMS IN THE SELENIUM-RICH REGION
 ShengxuLuo, Yujie Xiao, Zhang Luo, Shanhu Hu, Linqian Chen
 Key Laboratory of Tropical Biological Resources for Ministry of Education, College of Materials and Chemical Engineering, Hainan University, Haikou, China
- B99** ANALYTICAL METHOD OF TRI-N-BUTYL PHOSPHATE IN ZIEGLER-NATTA CATALYSTS BY GC-MS/MS
 Shuqi Sun, Ying Zhang
 Beijing Research Institute of Chemical Industries, Beijing, China
- B100** A LC-MS/MS METABOLOMICS APPROACH STUDY ON THE THERAPEUTIC RESPONSE IN DEPRESSED PATIENTS BY TCM FORMULA XIAOYAOSAN
 Caichun Liu, Junsheng Tian, Jinpin Jia, Xuemei Qin*
 Modern Research Center for Traditional Chinese Medicine, Shanxi University, Taiyuan, China
- B101** CHEMOMETRIC METHOD FOR BOTANICAL CLASSIFICATION OF RICE BASED ON METABOLOMICS STUDIES USING GC/Q-TOF
 Xue Feng^{1,2}, Yanxia Liu¹, Zeying He², Wenwen Wang³, Gaiming Zhao^{1,*}
¹College of Food Science & Technology, Key Laboratory of Meat Processing and Quality Control of Henan Province, Zhengzhou, China
²Laboratory of environmental factors risk assessment of Agro-product quality safety, Agro-Environmental Protection Institute, Ministry of Agriculture, Tianjin, China
³Agilent Technology (China) Co. Ltd, Beijing, China
- B102** DETERMINATION OF SELECTED POLYCHLORINATED BIPHENYLS IN SOIL AND EARTHWORM (EISENIA FETIDA) USING QUECHERS-BASED METHOD AND GAS CHROMATOGRAPHY TANDEM MASS SPECTROMETRY
 Zeying He¹, Lu Wang¹, Yi Peng¹, Ming Luo¹, Wenwen Wang², Xiaowei Liu^{1,*}
¹Agro-Environmental Protection Institute, Ministry of Agriculture, Tianjin, China
²Agilent Technologies (China) Co. Ltd., Beijing, China

- ANALYSIS OF 160+ MULTI-PESTICIDE RESIDUES IN TOBACCO
USING TRIPLE QUADRUPOLE GC/MS/MS
- B103 Vivian Xianyu Chen, Andy Zhai, Chunxiao Wang, Jianguo Ji
Agilent Technologies, Inc., Shanghai, China
- HIGHLY SENSITIVE DETECTION OF PHARMACEUTICALS AND
PERSONAL CARE PRODUCTS (PPCPS) IN WATER USING
AGILENT 6495 TRIPLE QUADRUPOLE LC/MS
- B104 Dan-Hui Dorothy Yang¹, Yanan Yang¹, Yue Song²
¹Agilent Technologies Inc., Santa Clara, CA
²Agilent Technologies Inc., Shanghai, China
- IMPROVEMENTS IN THE QUECHERS METHOD FOR
MULTI-RESIDUE ANALYSIS OF PESTICIDES IN TOBACCO
- B105 Joan Stevens¹, Derick Lucas¹, Dorothy Yang², JianzhongLi³, Tony
Zhang⁴
¹Agilent Technologies, Inc., Wilmington, DE, USA
²Agilent Technologies, Inc., Santa Clara, CA, USA
³Agilent Technologies Company Limited, Beijing, China
⁴Agilent Technologies Shanghai Company Limited, Shanghai, China
- OPTIMIZE FOOD ANALYSIS WITH MINIATURIZED QUECHERS
- B106 Joan Stevens¹, Melissa Churley², Tony Zhang³
¹Agilent Technologies Inc., Wilmington, DE, USA
²Agilent Technologies Inc., Santa Clara, CA, USA
³Agilent Technologies Shanghai Company Limited, Shanghai, China
- SCREENING OF PESTICIDES IN FOOD MATRICES USING HIGH
RESOLUTION GC/Q-TOF MASS SPECTROMETER WITH NEW
EXACT MASS PESTICIDE LIBRARY
- B107 Wenwen Wang¹, Kai Chen², Sofia Neito², Hong Chen², Philip Wylie³,
Joan Stevens³
¹Agilent Technologies, Beijing, China
²Agilent Technologies, Santa Clara, CA, USA
³Agilent Technologies, Wilmington, DE, USA
- REDUCED COST FOR PESTICIDES RESIDUES ANALYSIS BY
GC/MS/MS USING MINI-QUECHERS AND A HIGH EFFICIENCY
SOURCE
- B108 Joan Stevens¹, Melissa Churley², Tony Zhang³
¹Agilent Technologies Inc., Wilmington, DE, USA
²Agilent Technologies Inc., Santa Clara, CA, USA
³Agilent Technologies Shanghai Company Limited, Shanghai, China

SCREENING AND QUANTITATION OF 240 PESTICIDES IN
DIFFICULT FOOD MATRICES USING THE AGILENT 6545 QTOF
MASS SPECTROMETER

B109

Mei-LingLU¹, Dan-Hui Dorothy YANG², Christian Klein², Crystal
Cody², Huy Bui²

¹Agilent Technologies, Beijing, China

²Agilent Technologies, Santa Clara, CA, USA

ELIMINATING MATRIX EFFECTS DURING MULTI-RESIDUE
PESTICIDE ANALYSIS BY EXTENSIVE DILUTION USING
AGILENT 6495 TRIPLE QUADRUPOLE MS WITH ENHANCED
SENSITIVITY

B110

Thomas Glauner², Dorothy Yang¹, Bernhard Wuest², Anabel Fandino¹,
Na Pi¹

¹Agilent Technologies, Santa Clara, CA

²Agilent Technologies GmbH, Waldbronn, Germany

HIGHLY SENSITIVE SCREEN OF PHARMACEUTICALS AND
PERSONAL CARE PRODUCTS (PPCPS) IN WATER USING
AGILENT 6545 LC/Q-TOF HIGH RESOLUTION MASS
SPECTROMETER

B111

Dan-Hui Dorothy Yang¹, Craig Marvin², Mark Murphy³, Yue Song⁴,
Jimmy Chan⁴

¹Agilent Technologies Inc., Santa Clara, CA

²Agilent Technologies Inc., Wilmington, DE

³EPA Region 8 Lab, Golden, CO

⁴Agilent Technologies Inc., Shanghai, China

ROOT CAUSE DETERMINATION OF MATRIX EFFECTS IN LC-ESI-MS ANALYSIS USING HIGH RESOLUTION MASS SPECTROMETRY

James S. Chang¹, Paul Yang², Jon W. Wong³, Kai Zhang³, Alexander J. Krynitsky³, Jian Wang⁴

¹ThermoFisher Scientific, California, USA

B112 ²Ontario Ministry of the Environment, Laboratory Services Branch,
Ontario, Canada

³United States Food and Drug Administration, Center for Food Safety
and Applied Nutrition, Maryland, USA

⁴Canadian Food Inspection Agency, Calgary Laboratory, Alberta,
Canada

QUALITATIVE ANALYSIS OF BACILLUS METABOLITES BY GC-MS/MS COMBINED WITH SHIMADZU METABOLITE DATABASE

B113 Dan Luo, Jun Fan, Taohong Huang, Shin-ichi Kawano, Yuki Hashi
Shimadzu Global COE (Center of Excellence) for Application &
Technical Development, China

DETERMINATION OF 198 PESTICIDES IN VEGETABLES BY LIQUID CHROMATOGRAPHY/TRIPLE QUADRUPOLE MASS SPECTROMETRY

B114 Hui Gao, Yueqi Li, Guixiang Yang, Taohong Huang, Shinichi Kawano,
Yuki Hashi
Shimadzu Global COE, Shimadzu (China) Co., Ltd.

DETERMINATION OF PHTHALATES IN VEGETABLES BY GPC-GCMS

B115 Xi Zhang, Guixiang Yang, Taohong Huang, Shinichi Kawano, Yuki
Hashi
Shimadzu Global COE, Shimadzu (China) Co., Ltd

SCHEDULE OF SESSIONS
C.OPTICAL SPECTROSCOPY
CHAIRMAN: Prof. Dr. Jin-Ming LIN

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 303B, China National Convention Center, Beijing

Chairman: Jin-Ming LIN; Koji SUZUKI

- | | | |
|-------------|----|---|
| 13:30-14:00 | K1 | POLARIZED ZEEMAN-EFFECT ATOMIC
ABSORPTION SPECTROMETRY--A STRICT NULL
METHOD IN SPECTROSCOPY
Dr.Hideaki KOIZUMI
Fellow and Corporate Officer, Hitachi, Ltd.
Vice President, Engineering Academy of Japan
Academician, Chinese Academy of Engineering |
| 14:00-14:30 | K2 | INSTRUMENTATION AND APPLICATIONS OF
PLASMON-ENHANCED RAMAN SPECTROSCOPY
Prof. Zhong-qun TIAN
Xiamen University
Academician, Chinese Academy of Sciences |
| 14:30-14:55 | K3 | ON-LINE/IN-LINE COUPLING OF MICROEXTRACTION
APPROACHES TO ATOMIC SPECTROMETRY FOR
TRACE METAL ASSAYS AND SPECIATION ANALYSIS
USING THE NEW GENERATIONS OF FLOW ANALYSIS
Prof.Manuel MIRÓ
University of the Balearic Islands |
| 14:55-15:10 | O1 | TUNING ELECTROMAGNETIC HOTSPOT IN Fe ₃ O ₄ -AU
SATELLITE STRUCTURE FOR OPTIMIZED
SURFACE-ENHANCED RAMAN SCATTERING
Prof.Chuanyong JING
Research Center for Eco-Environmental Sciences, Chinese
Academy of Sciences |

15:10-15:30

Coffee Break

Chairman: Manuel MIRÓ; Lehui LU

15:30-15:55 K4 ANALYTICAL ATOMIC SPECTROMETRY : WHERE ARE WE GOING?

Prof. Xiandeng HOU

Sichuan University

15:55-16:20 K5 VOLATILE SPECIES GENERATION AND ATOMIZATION FOR ATOMIC ABSORPTION AND ATOMIC FLUORESCENCE: NEW DEVELOPMENTS

Prof. Jiří DĚDINA

Institute of Analytical Chemistry of the Czech Academy of Sciences

16:20-16:45 K6 CHEMILUMINESCENT AND FLUORESCENT METHODS FOR DETECTION OF FUNCTIONAL BIOMOLECULES AND THERAPEUTIC MONITORING

Prof. Huangxian JU

Nanjing University

Chairman: Huangxian JU; Dik-Lung MA

16:45-17:10 K7 BIOMARKER DISCOVERY USING DNA APTAMERS

Prof. Weihong TAN

Hunan University

17:10-17:35 K8 SPECTROSCOPY-BASED IMAGING PROBES

Prof. Lehui LU

Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

17:35-17:50 O2 INORGANIC NANOMATERIALS FOR COLORIMETRIC CHIRAL SENSING

Prof. Weili WEI

Chongqing University

17:50-18:05 O3 ENHANCED CHEMILUMINESCENCE DETECTION OF GLUTATHIONE BASED ON ISOLUMINOL NANOPARTICLES PROBE

Prof. Caifeng DING

Qingdao University of Science and Technology

Time: Oct. 29, 2015 AM (Thursday)

Location: Room 303B, China National Convention Center

Chairman: Xinrong ZHANG; Jen-Ai LEE

8:30-8:55 K9 ELEMENTAL TAGGING INDUCTIVELY COUPLED
PLASMA MASS SPECTROMETRY FOR PROTEIN
QUANTIFICATION AND CELL ANALYSIS

Prof. Bin HU

Wuhan University

8:55-9:20 K10 ULTRA-SMALL SPECTROSCOPIC TOOLS FOR
BIOANALYTICAL APPLICATIONS

Prof. Hans H. GORRIS

University of Regensburg

9:20-9:45 K11 ASSEMBLING ENHANCED REACTIVITY FOR
SPECTROCHEMICAL SENSING

Prof. Yun-Bao JIANG

Xiamen University

9:45-10:10 K12 COPPER CHALCOGENIDE NANOCRYSTALS IN
BIOMEDICAL AND PHARMACEUTICAL ANALYSIS

Prof. ChengZhi HUANG

Southwest University

10:10-10:30

Coffee Break

Chairman: Hans H. GORRIS; Yun-Bao JIANG

10:30-10:55 K13 APPLICATION OF ELEMENTAL TAGS TO
BIO-MOLECULAR ANALYSIS

Prof. Xinrong ZHANG

Tsinghua University

11:55-11:20 K14 D-LACTATE AS A BIOMARKER OF
GENTAMICIN-INDUCED ACUTE KIDNEY INJURY IN
RAT

Prof. Jen-Ai LEE

Taipei Medical University

11:20-11:40 O4 SYNTHESIS AND APPLICATION OF FLUORESCENCE
PROBES IN BIOLOGICAL ANALYSIS

Prof. Jin OUYANG

Beijing Normal University

11:40-12:00 O5 THE “LEVELING- OFF EFFECT” AND DYE-DNA
INTERACTION INMODULATING FLUORESCENCE
ANISOTROPY OF FLUORESCENTLY LABELED
dsDNA

Prof. Na LI

Peking University

Time: Oct 29, 2015 PM (Thursday)

Location: Room 303B, China National Convention Center

Chairman: Joachim FRANZKE;Jian-Hua WANG

13:30-13:55 K15 MICROSPECTROSCOPIC SENSING ON SINGLE
PLASMONIC NANOPARTICLES

Prof. Yi-Tao LONG

East China University of Science and Technology

13:55-14:20 K16 INTRODUCTION OF INKJET AS POWERFUL
ANALYTICAL AND MICRO FABRICATION TOOL

Prof.Katsumi UCHIYAMA

Tokyo Metropolitan University

14:20-14:45 K17 HIGHLY SENSITIVE DETECTION OF PROTEIN
KINASE ACTIVITY

Prof.Zheng-Ping LI

Shaanxi Normal University

14:45-15:05 O6 INTRODUCTION OF FAI TO CHEMILUMINESCENCE
Prof.Chao LU

Beijing University of Chemical Technology

15:05-15:30

Coffee Break

Chairman: Yi-Tao LONG;Katsumi UCHIYAMA

15:30-15:55 K18 TIME AND SPATIALLY RESOLVED EMISSION SPECTROMETRY OF A DIELECTRIC BARRIER DISCHARGE FOR SOFT IONIZATION

Prof.Joachim FRANZKE

Leibniz-Institut für Analytische Wissenschaften – ISAS

15:55-16:20 K19 GOLD/SILVER NANOCARRIERS/NANOCOMPOSITES FOR CONTROLLED RELEASE AND ANTI-BACTERIAL APPLICATIONS

Prof. Jian-Hua WANG

Northeastern University

16:20-16:35 O7 ENHANCEMENT IN CHEMILUMINESCENCE OF BISULPHITE AND HYDROGEN PEROXIDESYSTEM BY ZNS QUANTUM DOTS IN ACIDIC MEDIUM

Mr.SyedNiaz Ali SHAH

Tsinghua University

16:35-16:50 O8 DETECTION OF PICRIC ACID BASED ON NITROGEN-DOPED GRAPHENE QUANTUM DOTS/CHITOSAN FILM

Prof.QiangMA

Jilin University

Chairman: ChengZhi HUANG ; Chao LU

16:50-17:15 K20 LABEL-FREE LUMINESCENT OLIGONUCLEOTIDE-BASED PROBE FOR ENZYMATIc ACTIVITYDETECTION

Prof.Dik-Lung MA

Hong Kong Baptist University

17:15-17:40 K21 SYNTHESIS AND CHARACTERIZATIONS OF NITROGEN-DOPED GRAPHENE QUANTUM DOTS AND THEIR SENSING APPLICATIONS

Prof. Xi CHEN

Xiamen University

17:40-18:00 O9 CANCER CELLS SCREENING AND CHEMILUMINESCENT COUNTING ON THE MICROFLUIDIC CHIP

Dr.Haifang LI

Tsinghua University

Poster Session

Location: Near booth No. 52 of the Exhibition Area

- PC1 PERMITTIVITY DEPENDENT AGGREGATION INDUCED EMION
ENHANCEMENT OF CARBON DOTS
Zexi LIU, Zhulian WU, Mingxuan GAO, Chengzhi HUANG
Southwest University,
- PC2 REAL-TIME LIGHT SCATTERING DARK FIELD MICROSCOPIC
IMAGING OF THE DYNAMIC DEGRADATION PROCESS OF
SODIUM DIMETHYLDITHIOCARBAMATE
Gang LEI, Pengfei GAO, Chengzhi HUANG
Southwest University
- PC3 REAL-TIME MONITORING OF IODINE-INDUCED ETCHING OF
GOLD NANOCRYSTALS VIA LIGHT-SCATTERING DARK-FIELD
MICROSCOPIC IMAGING
Shanshan SUN, Mingxuan GAO, Chengzhi HUANG
Southwest University
- PC4 A CATALYTIC CHEMILUMINESCENT DETECTION METHOD OF
CHOLESTEROL IN SERUM WITH Cu_{2-x}Se SEMICONDUCTOR
NANOPARTICLES
**Fangfang ZHANG, Hongyan ZOU, Jing LAN, Hong WANG,
Chengzhi HUANG**
Southwest University
- PC5 DEVELOPMENT OF TUNGSTEN NANONEEDLE FOR
SELECTIVE AND SENSITIVE DETERMINATION OF
INTRACELLULAR HYDROXYL RADICALS
Anwei ZHU, Meina LI, Guoyue SHI
East China Normal University
- PC6 INK-JETTING ASSEMBLY OF MONODISPERSE CORE-SHELL
THERMOS-RESPONSIVE POLYMER MICROSPHERES : A
PROMISING SMART DRUG DELIVERY SYSTEM
**Daisuke KATAGIRI, Hulie ZENG, Hizuru NAKAJIMA,
Shungo KATO, Katsumi UCHIYAMA**
Tokyo Metropolitan University

- PC7 DEVELOPMENT OF CHEMICAL PEN FOR SELECTIVE REGION MODIFICATION
Chiho SATO, Sifeng MAO, Hulie ZENG, Shungo KATO, Hizuru NAKAJIMA, Katsumi UCHIYMA
Tokyo Metropolitan University
- PC8 DUAL MODE T-Hg²⁺-T-BASED HIGHLY SENSITIVE DETECTION OF IODIDE BY USING CVG-AFS
Piaopiao CHEN, Xi YANG, Xiandeng HOU
Sichuan University
- PC9 SPECIATION ANALYSIS OF MERCURY AND METHYLMERCURY USING METAL ORGANIC FRAMEWORKS
Fujian XU, Lu KOU, Jia JIA, Xiandeng HOU, Zhou LONG, Shanling WANG
Sichuan University
- PC10 A NAKED-EYE pH-MODULATED RATIOMETRIC PHOTOLUMINESCENCE SENSOR BASED ON DUAL-EMISSION QUANTUM DOT@SILICA NANOPARTICLES FOR Zn²⁺
Yang LI, Xingguang SU, Qiang MA
Jilin University
- PC11 ENRICHMENT OF TRACE COPPER IN GRAPE WINES WITH IONIC LIQUID-MODIFIED MAGNETIC NANOPARTICLES
Ying LI^{1,2}, Xiaoying JIANG¹, Ruijun JING¹, Yuxia HOU¹, Yuping ZHANG¹, Jianji WANG²
1 Henan Institute of Science and Technology
2 Henan Normal University,
- PC12 MICROFLUIDIC PAPER-BASED ANALYTICAL DEVICES (μPADs) USING SURFACE MODIFICATION OF COPY PAPER WITH SILANE COUPLING AGENTS
Kei NAKATA, Nobutoshi KOMURO, Kento MAEJIMA, Koji SUZUKI, Daniel CITTERIO
Keio University

PC13 FLUORESCENT CARBON NANOPARTICLE AS NOVEL
LUMINESCENCE REAGENT IN LUMINOL
CHEMILUMINESCENCE

Xiangnan DOU, Jin-Ming LIN

Tsinghua University

PC14 ENHANCED CHEMILUMINESCENCE CATALYSIS OF
 $\text{H}_2\text{O}_2\text{-HSO}_3^-$ SYSTEM THROUGH MULTIFUNCTIONAL
Cu-Cu₂O/GRAPHENE NANOCOMPOSITE

Dingkun ZHANG, Jin-Ming LIN

Tsinghua University

PC15 ULTRA-WEAK CHEMILUMINESCENT REACTION OF
HYDROGEN PEROXIDE-BISULFITE ENHANCED BY
GRAPHENE QUANTUM DOTS

Yongzan ZHENG, Hui CHEN, Haifang LI, Jin-Ming LIN

Tsinghua University

PC16 ENHANCEMENT IN CHEMILUMINESCENCE OF BISULPHITE
AND HYDROGEN PEROXIDESYSTEM BY ZNS QUANTUM
DOTS IN ACIDIC MEDIUM

Syed Niaz Ali SHAH, Haifang LI, Jin-Ming LIN

Tsinghua University

PC17 DYNAMIC DOUBLE-TARGET MRNA TRACK BY
CONTROLLED-RELEASE FLUORESCENCE INDICATOR FOR
CELL CYCLE ARREST

Linglu YI^{1,2}, Xuexia LIN^{1,2}, Haifang LI², Yuan MA², Jin-Ming LIN²

¹ Beijing University of Chemical Technology

² Tsinghua University

PC18 ANALYSIS OF PROPYLENE IMPURITIES USING SELECT LOW
SULFUR COLUMN AND SINGLE TUNE WITH GC-ICP-MS QQQ
ORS

**Zou YUN¹, William M. GEIGER², Blake MCELMURRY², Jesus
ANGUIANO²**

¹Agilent Technologies.Shanghai200131, China

² CONSCI, Ltd., Pasadena, Texas, USA

- PC19 NANOMATERIAL-BASED LUMINESCENT SENSING
PengchengHUANG
Nanchang University
- PC20 ENHANCED CHEMILUMINESCENCE DETECTION OF
GLUTATHIONE BASED ON ISOLUMINOL NANOPARTICLES
PROBE
Xiaoting JI, Hui LI, Caifeng DING
Qingdao University of Science and Technology
- PC21 FLUORESCENT GRAPHITIC CARBON NITRIDE
NANOMATERIALS AND THEIR SENSING APPLICATIONS
**QihongYAO¹, MingcongRONG², Xuexu CHEN², Tingting
ZHAO¹, Xi CHEN², Xiaoru WANG¹**
¹Xiamen Huaxia University
²Xiamen University
- PC22 DETERMINATION OF HIGH BACKGROUND SAMPLES WITH
ACTIVE GAS BY GRAPHITE FURNACE ATOMIC ABSORPTION
METHOD
**Lihua WANG, Yuehan ZHONG, Qinglong LI, Song ZHAN, Jinting
YAO, Taohong HUANG**
Shimadzu Global COE for Application & Technical Development
- PC23 DETERMINATION OF MULTIPLE ELEMENTS INCLUDING
SILICON IN GASOLINE USING ICPE-9820 WITH DIRECT
SAMPLING METHOD
Xu FENG, Xiaohong SONG, Weiya DUAN and Guixiang YANG
SHIMADZU (CHINA) CO.,LTD., Beijing Branch
- PC24 DETERMINATION OF MULTI-ELEMENT IN WHITE COPPER
ALLOY BY ICP-OES
**Xiaoling MA, Youbao SUN, Taohong HUANG, Shin-ichi
KAWANO, Yuki HASHI**
Shimadzu Global COE (Center of Excellence) for Application &
Technical Development

- PC25 DIRECTLY DETERMINATION OF THE TRACE ELEMENTS IN DIESEL ENGINES-NO_x REDUCTION AGENT AUS 32 by ICP-OES
Youbao SUN¹, Xiaoling MA¹, Juanjuan WANG¹, Le YANG², Yanhong HOU², Taohong HUANG¹, Lei CAO ², Shin-ichi KAWANO¹,Yuki HASHI¹
¹Shimadzu Global COE(Center of Excellence) for Application & Technical Development
² Shimadzu Analytical Instrument Division Marketing Dept
- PC26 INCREASED π -ELECTRON DENSITIES OF RHODAMINE B ON MONTMORILLONITE MATRIX TO INITIATE ULTRA STRONG ELECTROPHILIC CHEMILUMINESCENCE OF HYDROXYL RADICAL
Yuqing CAO, Dandan SUI, Wenjuan ZHOU, Chao LU
Beijing University of Chemical Technology
- PC27 AGGREGATION-INDUCED EMISSION: A SIMPLE STRATEGY TO IMPROVE CHEMILUMINESCENCE RESONANCE ENERGY TRANSFER
Nan HE, Lijuan ZHANG, Chao LU
Beijing University of Chemical Technology
- PC28 STRUCTURE OBSERVATION OF GRAPHENE QUANTUM DOTS BY SINGLE-LAYERED FORMATION IN LAYERED CONFINEMENT SPACE
LiqingSONG, Jingjing SHI,JunLU, Chao LU
Beijing University of Chemical Technology
- PC29 DETECTION OF OXYGEN VACANCIES IN OXIDES BY DEFECT-DEPENDENT CATALUMINESCENCE
Lijuan ZHANG, Si WANG , Chao LU
Beijing University of Chemical Technology

PC30 POLYETHYLENEIMINE AS A NOVEL DESORBENT FOR
ANIONIC ORGANIC DYES ON LAYERED DOUBLE
HYDROXIDE SURFACE

Siming WANG, Zenghe LI, Chao LU

Beijing University of Chemical Technology

PC31 MELECTROCHEMILUMINESCENCE RESONANCE ENERGY
TRANSFER DONORS IN FABRICATING NEW SENSORS WITH
CoAl-LDH FILMS

Yingchang YU, Chao LU

Beijing University of Chemical Technology

PC32 FLUOROSURFACTANT CAPPED GOLD NANORODS AS
SELECTIVE COLORIMETRIC PROBES FOR HYDROGEN
SULFIDE DETECTION AND VISUALIZATION OF ENZYME
ACTIVITY

Xuan ZHANG, Zhiqin YUAN, Chao LU

Beijing University of Chemical Technology

SCHEDULE OF SESSIONS

D. CHROMATOGRAPHY

CHAIRMAN: Prof. Lihua ZHANG

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 302A, China National Convention Center, Beijing

Chairman: Prof. Gongke Li

		LIPIDOMICS ANALYSIS FOR CLINICAL RESEARCH
13:30-13:55	D2	Huwei Liu (Keynote) Peking University, China
		ONE-DIMENSIONAL MESOCHANNELS AS SEPARATION AND SENSING FIELDS
13:55-14:20	D3	Norio Teramae (Keynote) Tohoku University, Japan
		CHEMISTRY-ENHANCED UPLC-MS OF TRACE GIBBERELLINS
14:20-14:45	D4	Yi Chen (Keynote) Institute of Chemistry, CAS, China
		TBA
14:45-15:10	D5	Emily Hilder (Keynote) University of Tasmania, Australia
15:10-15:30		Coffee Break & Poster Session

Chairman: Prof. Norio Teramae

		THE RESEARCH OF NEW ORGANIC POLYMER ADSORBENT FOR COMPLEX SAMPLE PREPARATION
15:30-15:55	D6	Gongke Li (Keynote) Sun Yat-sen University, China

- SIMPLE BUT POWERFUL HEADSPACE EXTRACTION METHODS FOR CAPILLARY ELECTROPHORESIS**
- 15:55-16:20 D7 **Doo Soo Chung**(Keynote)
 Seoul National University, Korea
- ADVANCES IN SAMPLE PREPARATION, SEPARATION AND IONIZATION FOR ULTRASENSITIVE MASS SPECTROMETRY-BASED BIOANALYSES**
- 16:20-16:45 D8 **Ryan Kelly** (Keynote)
 Pacific Northwest National Laboratory, US
- LABEL-FREE FLUORESCENT COPPER NANOCLUSTERS FOR GENOTYPING OF DELETION AND DUPLICATION OF DUCHENNE MUSCULAR DYSTROPHY**
- 16:45-17:10 D9 **Shou-mei Wu** (Keynote)
 Kaohsiung Medical University, Taiwan
- TOWARDS A BETTER ANALYSIS OF TRACE METABOLITES IN BIOSAMPLES BY IMPROVING THE PRETREATMENT AND SEPARATION**
- 17:10-17:35 D10 **Guowang Xu** (Keynote)
 Dalian Institute of Chemical Physics, CAS, China

Time: Oct. 29 2015, AM (Thursday)

Location: Room 302A, China National Convention Center, Beijing

Chairman: Prof. Yanping Shi

- METAL-ORGANIC FRAMEWORKS FOR HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**
- 8:30-8:55 D11 **Xiuping Yan** (Keynote)
 Nankai University, China
- MULTI-DIMENSIONAL SEPARATIONS AND HIGH RESOLUTION MASS SPECTROMETRY TECHNIQUES FOR NONTARGETED IDENTIFICATION OF PEPTIDES AND DISINFECTION BYPRODUCTS IN WATER**
- 8:55-9:20 D12 **Xingfang Li** (Keynote)
 University of Alberta, Canada

TECHNIQUES FOR ULTRA-FAST ANALYSIS OF VOCs
IN ATMOSPHERE

9:20-9:45 D13 **Yafeng Guan**
Dalian Institute of Chemical Physics, CAS, China

COVALENT BINDING PROTEINS FOR HIGH EFFICIENT
ENRICHMENT AND DIGESTION FOLLOWED BY
LC-MS ANALYSIS OF PROTEOME SAMPLES

9:45-10:10 D14 **Xiangmin Zhang** (Keynote)
Fudan University, China

10:10-10:30 **Coffee Break & Poster Session**

Chairman: Prof. Dr. Yafeng Guan

DEVELOPMENT A MICROFLUIDIC DEVICE FOR CELL
CAPTURE, CELL CULTURE AND CELL-TO-CELL
COMMUNICATION

10:30-10:55 D15 **Jinming Lin** (Keynote)
Tsinghua University, China

HOLLOW FIBER MICROEXTRACTION BASED
SAMPLE PRETREATMENT FOR
CHROMATOGRAPHIC ANALYSIS

10:55-11:20 D16 **Yanping Shi** (Keynote)
Lanzhou Institute of Chemical Physics, CAS, China

NANOPILLARS AND NANOWIRES FOR
BIOMOLECULE SEPARATION

11:20-11:45 D17 **Kaji Noritada** (Keynote)
Nagoya University, Japan

POTENTIAL PROTEOME ANALYSIS METHODS FOR
PERSONALIZED MEDICINE

11:45-12:10 D18 **Lihua Zhang** (Keynote)
Dalian Institute of Chemical Physics, CAS, China

Time: Oct 29, 2015 PM (Thursday)

Location: Room 302A, China National Convention Center, Beijing

Chairman: Prof. Shusheng Zhang

13:30-13:55 D19 **DEVELOPMENT OF A NEW PURIFICATION STRATEGY
BY USING 2-D ELECTRO FLUID DYNAMIC DEVICES**
David Chen(Keynote)
University of British Columbia, Canada

13:55-14:20 D20 **THE MONITORING OF TARGET MOLECULES
FOR DROSOPHILA'S BEHAVIOR STUDY BY
CAPILLARY ELECTROPHORESIS-MASS
SPECTROMETRY**
Xinxiang Zhang (Keynote)
Peking University, China

14:20-14:45 D21 **COOPERATIVE ORGANIZATION OF RECA-SSDNA
FILAMENTS REVEALED BY CAPILLARY
ELECTROPHORESIS-LASER INDUCED
FLUORESCENCE POLARIZATION ANALYSIS**
Hailin Wang (Keynote)
Research Center for Eco-Environmental Sciences, CAS,
China

14:45-15:10 D22 **CHARACTERIZATION OF PEPTIDE NUCLEIC ACID
(PNA) BY MULTIPLE CAPILLARY ELECTROPHORESIS
MODES**
Feng Qu (Invited)
Beijing Institute of Technology, China

15:10-15:30 **Coffee Break & Poster Session**

Chairman: Prof. Feng QU

15:30-15:55 D23 **DEVELOPMENT OF CALIXARENE STATIONARY
PHASES FOR SEPARATION OF POLAR
ANALYTES**
Shusheng Zhang (Invited)
Zhengzhou University, China

- 15:55-16:15 D24 **Li Qi** (Invited)
Institute of Chemistry, CAS, China
- 16:15-16:35 D25
INTEGRATED PLATFORM FOR LARGE-SCALE
PROTEOME PROFILING WITH COMBINATION OF
MICRO-REVERSED PHASE LIQUID
CHROMATOGRAPHY BASED PROTEIN SEPARATION
AND TWO-DIMENSIONAL PEPTIDE SEPARATION VIA
“ONE-STOP” PROTEIN PROCESSING DEVICE
Huiming Yuan
Dalian Institute of Chemical Physics, CAS, China
- 16:35-16:55 D26 **Yulong Jin**
Institute of Chemistry, CAS, China
- 16:55-17:15 D27
NEWLY DEVELOPED TSKgel® COLUMNS FOR
ANALYSIS OF MONOCLONAL ANTIBODIES
Lin Zhang
Tosoh Bioscience Shanghai Co., Ltd., China
- 17:15-17:35 D28
PARTICLE AND SELECTIVITY CHOICES IN HPLC
METHOD DEVELOPMENT
Stephen Luke
Agilent Technologies, UK

Time: Oct. 30, 2015 AM (Friday)

Location: Room 302A, China National Convention Center, Beijing

Chairman: Prof. Lihua Zhang

- 8:30-8:45 D29
PREPARATION OF DURABLE GRAPHENE-BONDED
TITANIUM FIBERS FOR EFFICIENT
MICROEXTRACTION OF PHTHALATES FROM
AQUEOUS MATRICES AND ANALYSIS WITH GC-MS
Botao ZHANG
Beijing Normal University, China

8:45-9:00	D30	INVESTIGATION OF GC RETENTION MECHANISM OF SULFUR ALCOHOL COMPOUNDS IN FLUID CATALYTIC CRACKING GASOLINE BASED ON QUANTITATIVE STRUCTURE –RETENTION RELATIONSHIP Lihua Shi Liaoning Shihua University, China
9:00-9:15	D31	RAPID ANALYSIS OF NATURAL GAS USING A TEMPERATURE PROGRAMMABLE MICRO GC Chingyue Yeung INFICON Inc., US
9:15-9:30	D32	COMPOSITION OF THE UNKNOWN RESIN BY PY-GC/MS COMBINING WITH INFRARED SPECTROSCOPY Mei Zhang Beijing Center for Physical and Chemical Analysis, China
9:30-9:45	D33	ULTIMATE PLUS DEACTIVATED TUBING IMPROVES THE PERFORMANCE OF ACTIVE COMPOUNDS ANALYSIS Yun Zou Agilent Technologies, China
9:45-10:00	D34	HYDROPHILIC GO/Fe ₃ O ₄ /PEI/AG NANOCOMPOSITES FOR HIGHLY SELECTIVE ENRICHMENT OF GLYCOPEPTIDES Bo Jiang Dalian Institute of Chemical Physics, CAS, China
10:00-10:15	D35	PASSIVE SAMPLING OF 1,3-BUTADIENE AND OTHER HAZARDOUS POLLUTANTS IN AIR USING THE UNIQUE RETENTION PROPERTIES OF GRAPHITIZED CARBON Michael Ye Supelco, Division of Sigma-Aldrich, USA

10:15-10:30

Coffee Break & Poster Session

Chairman: Prof. Lihua Zhang

- | | | |
|-------------|-----|---|
| | | PRINCIPLE OF FULLY-AUTOMATIC LIQUID CHROMATOGRAPH |
| 10:30-10:45 | D36 | Xiaohui Ning
Northwest University, China |
| | | β -ELIMINATION TANDEM SELECTIVE ENRICHMENT:
A NEW METHOD TO STUDY HISTIDINE
PHOSPHORYLATION |
| 10:45-11:00 | D37 | Yechen Hu
Dalian Institute of Chemical Physics, CAS, China |
| | | SPE-LC-MS/MS INVESTIGATION INTO MECHANISMS
OF TOBACCO SPECIFIC NITROSAMINE FORMATION
DURING WATER DISINFECTION |
| 11:00-11:15 | D38 | Beibei Chen
Wuhan University |
| | | INCREASING CONFIDENCE AND THROUGHPUT FOR
THE CHARACTERIZATION OF MONOCLONAL
ANTIBODY (MAB) PRIMARY STRUCTURE USING
NOVEL REVERSED- PHASE COLUMNS |
| 11:15-11:30 | D39 | Jiangshan Wang
Agilent Technologies Inc. |
| 11:30 | | Closing |

POSTER SESSION

Location: Near booth No. 52 of the Exhibition Area

THE SITUATION OF STANDARD TEST METHODS BASED ON
CAPILLARY ELECTROPHORESIS

D40 **Xinying Zhao**

Beijing Center for Physical and Chemical Analysis, China

DETERMINATION OF FLUORIDE, CHLORIDE, NITRATE AND
SULFATE IN WASTE WATER SOLUTION BY ION
CHROMATOGRAPHY APPLICATION KIT (ICAK)

D41 **Shengfeng Le**

Beijing Center for Physical and Chemical Analysis, China

HIGH-RISK HUMAN PAPILLOMAVIRUS DETECTED BY
MICROCHIP ELECTROPHORESIS BASED ON TYPE-SPECIFIC
POLYMERASE CHAIN REACTION

D42 **Xiao Feng**

Beijing University of Chemical Technology, China

2 MINUTES ANALYSIS OF C1-C8 HYDROCARBONS FOR
MUDLOGGING USING A TEMPERATURE PROGRAMMABLE MICRO
GC

D43 **Chingyue Yeung**

INFICON Inc., US

RELIABLE ANALYSIS OF HEXANE ISOMERS USING SPECIALLY
DESIGNED GC COLUMN

D44 **Laura Provoost**

Agilent Technologies, The Netherlands

PREPARATION OF POLY ACRYLAMIDE PROTECTED AuNPs AND
ITS APPLICATION IN MANGANESE ION DETECTION

D45 **Lulu Xun**

Institute of Chemistry, CAS, China

PREPARATION OF GOLD NANOPARTICLES-BASED ENZYME
REACTORS AND ITS APPLICATION IN PROTEOLYSIS

D46 **Juan Qiao**

Institute of Chemistry, CAS, China

CONSTRUCTION OF AMINO ACID-BASED POLYMER MONOLITH
FOR TRIMODAL LIQUID CHROMATOGRAPHY

D47 **Nan Li**

Institute of Chemistry, CAS, China

A NOVEL DUAL CHIRAL SELECTORS SYSTEM BASED ON Mn(II)
COMPLEXES AND β -CD FOR ENANTIOSEPARATION AND ITS
D48 APPLICATION IN SCREENING ENZYME INHIBITORS

Yuan Su

Institute of Chemistry, CAS, China

PREPARATION OF POLY(AMINO ACIDS)-BASED
THERMO-RESPONSIVE MOLECULAR IMPRINTED
D49 NANOPARTICLES FOR LYSOZYME

Shilei Ji

Institute of Chemistry, CAS, China

SCHEDULE OF SESSIONS

E. MAGNETIC RESONANCE

CHAIRMAN: Prof. Maili LIU

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 302B, China National Convention Center, Beijing

14:00-14:05

Opening Speech by Prof. Maili LIU

Chairman: Prof. Maili LIU

DEVELOPMENT AND APPLICATION OF
SPARSE-SAMPLING-BASED FAST NMR
TECHNOLOGY

14:05-14:35

E2

Pei ZHOU(Keynote)

Department of Biochemistry, Duke University Medical
Center, Durham, NC 27710, USA

DEVELOPMENT OF NMR METHODS FOR
CHARACTERIZING INTRINSICALLY DISORDERED
PROTEIN

14:35-15:05

E3

Xiao LIU and **Daiwen YANG**(Keynote)

Department of Biological Sciences, National University of
Singapore, 14 Science Drive 4, 117543, Singapore

RECENT DEVELOPMENT OF MAGNETIC
RESONANCE: INSTRUMENTATION, PHYSICS AND
APPLICATIONS

15:05-15:35

E4

Yiqiao SONG(Keynote)

Schlumberger-Doll Research and Martinos Center for
Biomedical Imaging, Mass General Hospital, USA

15:35-15:50

Coffee Break

Chairman: Prof. Yiqiao SONG

NMR CONFORMATIONAL AND DYNAMIC
CHARACTERIZATION OF COLLAGEN-LIKE PEPTIDES

15:50-16:20 E5 **Jianxi XIAO**(Keynote)

Department of Chemistry and Chemical Engineering,
Lanzhou University, Lanzhou, Gansu 730000, China

DETERMINATION OF PEPTIDE SOLUTION
CONFORMATIONS USING RDC

16:20-16:50 E6 **Jiangli YAN**(Keynote)

Analytical Research and Technology, WWMC, Pfizer Inc
Groton, CT 06340, USA

MICRO-ENVIRONMENT EFFECTS ON PROTEIN
CHEMISTRY

Kai CHENG, Guohua XU, Jia BAI, Yansheng YE, Qiong
WU and **Conggang LI**(Keynote)

16:50-17:20 E7 Key Laboratory of Magnetic Resonance in Biological
Systems, State Key Laboratory of Magnetic Resonance and
Atomic and Molecular Physics, National Center of Magnetic
Resonance in Wuhan, Wuhan Institute of Physics and
Mathematics, Chinese Academy of Sciences, Wuhan 430071,
P.R. China

NOVEL MRS APPROACHES FOR INSIGHTS INTO
MOLECULAR MECHANISMS WITH PSYCHOTIC
DISORDERS

17:20-17:50 E8 **Fei DU**(Keynote)

Brain Imaging Center, McLean Hospital, Harvard Medical
School, Belmont, MA 02478, USA

Time: Oct. 29, 2015 AM (Thursday)

Location: Room 302B, China National Convention Center, Beijing

Chairman: Prof. Daiwen YANG

- SPARSELY ^{13}C LABELING OF A *P. PASTORIS*
EXPRESSED SEVEN-TRANSMEMBRANE PROTEIN
FOR SOLID-STATE NMR STUDIES
- 8:30-9:00 E9 Jing LIU, Chang LIU, **Shenlin WANG**(Keynote)
College of Chemistry and Molecular Engineering, Peking
University, China
- STRUCTURE AND DYNAMICS OF PROTEIN
ASSEMBLIES INVESTIGATED BY SOLID-STATE MAS
NMR SPECTROSCOPY
- 9:00-9:30 E10 **Guangjin HOU**(Keynote), Sivakumar PARAMASIVAM,
Xingyu LU, Christopher L. SUTTER, Huilan ZHANG,
Alexander J. VEGA, In-Ja L. BYEON, Jinwoo AHN, Angela
M. GRONENBORN, and Tatyana POLENOVA
Department of Chemistry and Biochemistry, University of
Delaware, Newark, Delaware 19716, United States
- APPLICATIONS OF QUANTITATIVE NMR
SPECTROSCOPY IN DRUG DISCOVERY
- 9:30-10:00 E11 **Stella HUANG**(Keynote), Yingzi WANG, Yan HE, Purnima
KHANDELWAL, Colleen MCNANEY, Dieter DREXLER
and Michael REILY
Department of Discovery Analytical Sciences, Bristol-Myers
Squibb Company, Wallingford, CT, USA

10:00-10:15

Coffee Break

Chairman: Prof. Pei ZHOU

- CANCER METABOLOMIC FIELDS MEASURED WITH
NMR
- 10:15-10:45 E12 **Leo L. CHENG**(Keynote)
Massachusetts General Hospital, Harvard Medical School,
Boston, Massachusetts, USA

HIGH RESOLUTION NMR METABOLOMICS ON
BIOLOGICAL TISSUES AND LIVE OBJECTS

10:45-11:15 E13 **Jianzhi Hu**(Keynote) and Mary HU
Pacific Northwest National Laboratory, Richland, WA 99354,
USA

INCREASED BRAIN LACTATE IS ASSOCIATED WITH
TYPE I DIABETES-ASSOCIATED COGNITIVE
DECLINE IN RATS

11:15-11:45 E14 Minjian DONG, Aimin CAI, Liangcai ZHAO, Hong
ZHENG*, **Hongchang GAO***(Keynote)
Institute of Metabonomics & Medical NMR, School of
Pharmacy, Wenzhou Medical University, Wenzhou 325035,
China

Time: Oct. 29, 2015 PM (Thursday)

Location: Room 302B, China National Convention Center, Beijing

Chairman: Prof. Riqiang FU

HOW MUCH, WHERE, AND WHAT KIND OF GD TO
LOAD FOR THE BEST OF MRI

14:00-14:30 E15 Binbin LI, Hongyan ZHANG, Yanhui ZHANG, Bo TAN,
Hailu ZHANG, **Zongwu DENG**(Keynote)
Key Laboratory of Nano-Biological Interface and Division of
Nanobionics, Suzhou Institute of Nano-Tech and
Nano-Bionics, Chinese Academy of Sciences, Suzhou
215123, P. R. China

HYPERPOLARIZED XENON AND MULTIMODAL MRI
Xin ZHOU(Keynote)

14:30-15:00 E16 Key Laboratory of Magnetic Resonance in Biological
Systems, State Key Laboratory of Magnetic Resonance and
Atomic and Molecular Physics, National Center for Magnetic
Resonance in Wuhan, Wuhan Institute of Physics and
Mathematics, Chinese Academy of Sciences, Wuhan,
430071, China.

NMR/EPR APPROACHES FOR HOMODIMER STRUCTURE DETERMINATION AND SUBUNIT EXCHANGE RATE MEASUREMENT

15:00-15:30 E17 **Yunhuang YANG**(Keynote), Theresa A. RAMELOT,
 Michael A. KENNEDY, and Maili LIU
 State Key Laboratory of Magnetic Resonance and Atomic
 Molecular Physics, Wuhan Institute of Physics and
 Mathematics, Chinese Academy of Sciences, Wuhan 430071,
 China

FLUID IN SHALES BY NMR

15:30-16:00 E18 **Jin-Hong CHEN**(Keynote), Daniel T. GEORGI, Stacey
 ALTHAUS
 Aramco Research Center-Houston, USA

16:00-16:15 **Coffee Break**

Chairman: Prof.Jianzhi HU

HIGH FIELD ¹H MAS-NMR STUDY OF THE SUPERIONIC CONDUCTOR LiH₂PO₄: CRITICAL ROLE OF PHYSISORBED WATER IN ITS PROTONIC CONDUCTIVITY

16:15-16:45 E19 Jin Jung KWEON, Eden STEVEN, Cheol Eui LEE, Naresh
 S. DALAL, and **Riqiang FU**(Keynote)
 National High Magnetic Field Laboratory, Florida State
 University, 1800 E. Paul Dirac Drive, Tallahassee, Florida,
 32310, USA;

DEGRADATION OF NAFION INVESTIGATED BY SOLID STATE NMR SPECTROSCOPY, NMR MICOR-MIGAGING AND THEORETICAL COMPUTATION

16:45-17:15 E20 Ren-Hao CHENG, Cheng-Yu SHI, Chung-Che LEE,
 Yi-Chun LAI,**Shangwu DING**(Keynote)
 DepartmentofChemistry & Center for Nanoscience and
 Nanotechnology,National Sun Yat-sen University, 70 Lien-Hai
 Road, Kaohsiung,80424, Taiwan

MATRIX ASSISTED CHROMATOGRAPHIC NMR
SPECTROSCOPY AND ITS APPLICATIONS

Ying YANG, Limin WANG, **Shaohua HUANG**(Keynote)

17:15-17:45 E21 Shandong Provincial Key Laboratory of Synthetic Biology,
Qingdao Institute of Bioenergy and Bioprocess Technology,
the Chinese Academy of Sciences, Qingdao 266101, China.

15:00-18:00

Poster

Time: Oct. 30, 2015 AM (Friday)

Location: Room 302B, China National Convention Center, Beijing

Chairman: Prof. Shangwu DING

DIFFERENTIATION OF ASIAN SOY SAUCES BY
MULTIVARIATE ANALYSIS OF ¹³CNMR PROFILES

Ghulam Mustafa KAMAL, Bin YUAN, Xiaohua WANG,
Xin CHAI, Xu ZHANG*, Maili LIU*

8:30-8:50 E22 Key Laboratory of Magnetic resonance in Biological
Systems, State Key Laboratory of Magnetic Resonance and
Atomic and Molecular Physics, Centre for Magnetic
Resonance, Wuhan Institute of Physics and Mathematics,
Chinese Academy of Sciences, Wuhan, 430071, P. R. China

A NOVEL ¹²⁹Xe NMR/FLUORESCENCE BIMODAL
PROBE FOR THE DETECTION OF HYDROGEN
SULFIDE

8:50-9:10 E23 **Shengjun YANG**, Weiping JIANG, Xin ZHOU*
Wuhan Institute of Physics and Mathematics, CAS, Wuhan,
Hubei 430071, China

BIOLOGICAL REDOX ENHANCED PHOTODYNAMIC
THERAPY

9:10-9:30 E24 **Shizhen CHEN**, Yuqi YANG, Lianhua LIU, Qingbin ZENG,
Xiuchao ZHAO, Haidong LI, Zhiying ZHANG, Maili LIU
and Xin ZHOU*

Wuhan Institute of Physics and Mathematics, CAS, Wuhan,
Hubei 430071, China

USING DOSY TO DETERMINE CHEMICAL
EXCHANGE RATE CONSTANTS

Bin YUAN, Ghulam Mustafa KAMAL, Xin CHAI, Liang
ZHANG, Xiaohua WANG, Peng SUN, Xu ZHANG*, Maili
LIU*

9:30-9:50 E25 Key Laboratory of Magnetic resonance in Biological
Systems, State Key Laboratory of Magnetic Resonance and
Atomic and Molecular Physics, Centre for Magnetic
Resonance, Wuhan Institute of Physics and Mathematics,
Chinese Academy of Sciences, Wuhan, 430071, P. R. China

¹H NMR-BASED METABONOMIC ANALYSIS OF
CARDIAC METABOLIC PROFILE IN DBDB MICE
WITH CARDIOMYOPATHY

9:50-10:10 E26 **Cuicui XU**, Liangcai ZHAO, Hong ZHENG*, Hongchang
GAO
Institute of Metabonomics & Medical NMR, School of
Pharmaceutical Sciences, Wenzhou Medical University,
Wenzhou 325035, China

10:10-10:30

Coffee Break

10:30-12:00

Poster

POSTER SESSION

Time: Oct. 29, 2015 (Thursday)

Location: Near booth No. 52 of the Exhibition Area

CRITICAL RESIDUES MODULATE THE PHOSPHORYLATION AND DEPHOSPHORYLATION PROCESS OF RESPONSE REGULATOR PROTEIN RR468

Dan WANG, Yixiang LIU, Ling JIANG

- E27 State Key Laboratory of Magnetic Resonance and Atomic and Molecular
Physics, Wuhan Institute of Physics and Mathematics, the Chinese
Academy of Sciences,
Wuhan 430071, China

SOLUTION NMR STRUCTURE OF A SERINE PROTEINASE INHIBITOR FROM *BUTHUS MARTENSII*

Xinghong LIU, Xinhui KOU, Ling JIANG

- E28 State Key Laboratory of Magnetic Resonance and Atomic and Molecular
Physics, Wuhan Institute of Physics and Mathematics, the Chinese
Academy of Sciences, Wuhan 430071, China

VISIBLE MULTIFUNCTIONAL LIPOSOME FOR TARGETED DELIVERY TO NON-SMALL CELL LUNG CANCER

Lili REN, Shizhen CHEN, Haidong LI, Zhiying ZHANG, Jianping

- E29 ZHONG, Xin ZHOU*
Wuhan Institute of Physics and Mathematics, CAS, Wuhan, Hubei
430071, China

¹⁹F MR/NIR DUAL-MODALITY IMAGING OF AZA-BODIPY

Lianhua LIU, Shizhen CHEN, Xin ZHOU*

- E30 Wuhan Institute of Physics and Mathematics, CAS, Wuhan, Hubei
430071, China

**A MOLECULAR IMAGING APPROACH TO MERCURY
SENSING BASED ON HYPERPOLARIZED ^{129}Xe MOLECULAR
CLAMP PROBE**

E31 Qianni GUO¹, Qingbin ZENG¹, Weiping JIANG¹, Xiaoxiao ZHANG¹,
Qing LUO¹, Xu ZHANG¹, Louis-S. BOUCHARD², Maili LIU¹, Xin
ZHOU^{1*}

1 Wuhan Institute of Physics and Mathematics, CAS, Wuhan, Hubei
430071, China

2. Department of Chemistry and Biochemistry, University of California,
Los Angeles, CA 90095, USA

**JUDGEMENT OF THE BINDING SITES ON HUMAN SERUM
ALBUMIN BY NMR EXPERIMENT**

E32 Yao CHEN^{1,2}, Peng SUN¹, Xu ZHANG^{1*}, Maili LIU
1. Wuhan Center for Magnetic Resonance, State Key Laboratory of
Magnetic Resonance and Atomic and Molecular Physics, Wuhan
Institute of Physics and Mathematics, Chinese Academy of Sciences,
Wuhan 430071, China
2. University of Chinese Academy of Sciences, Beijing 100049, China

**MONITORING THE CONFORMATIONAL CHANGE OF
PROTEIN DISULFIDE ISOMERASE BY ^{19}F NMR.**

E33 Yanhua CHEN, Xiaoli LIU, Guohua XU, Yansheng YE, Maili LIU,
Conggang LI*
National Center for Magnetic Resonance in Wuhan, Wuhan Institute of
Physics and Mathematics, the Chinese Academy of Sciences, Wuhan
430071, China

CONFINEMENT EFFECTS ON PROTEIN STRUCTURE ARE CHARACTERIZED BY NMR SPECTROSCOPY

Kai CHENG, Guohua XU, Maili LIU, Conggang LI*

E34

State Key Laboratory of Magnetic Resonance and Atomic and Molecular
Physics, National Center for Magnetic Resonance in Wuhan, Wuhan
Institute of Physics and Mathematics, the Chinese Academy of Sciences,
Wuhan 430071, China.

THE ANTIBIOTIC RESISTANT MOLECULAR MECHANISM OF NDM-1

Chendie YAO, Qiong WU, Conggang LI

E35

State Key Laboratory of Magnetic Resonance and Atomic and Molecular
Physics, National Center for Magnetic Resonance in Wuhan, Wuhan
Institute of Physics and Mathematics, Chinese Academy of Sciences,
Wuhan 430071, P. R. China

¹H NMR-BASED METABONOMIC ANALYSIS ON METABOLIC CHANGES IN RAT BRAIN AFTER ACUTE CEREBRAL INFARCTION

Aimin CAI, Huanhuan XIA, Zilong HU, Liangcai ZHAO, Hong

E36

ZHENG, Hongchang GAO*

Institute of Metabonomics & Medical NMR, School of Pharmaceutical
Sciences, Wenzhou Medical University, Wenzhou 325035, China

SCHEDULE OF SESSIONS
F. ELECTROANALYTICAL CHEMISTRY
CHAIRMAN: Prof. Lanqun MAO (ICCAS)

ORAL LECTURES

Time: October 28, 2015 PM (Wednesday)

Location: Room 303A, China National Convention Center, Beijing

Chairpersons: Prof. Andrew Ewing and Prof. Xing-Hua Xia

DNA PROTECTED COPPER NANOCCLUSERS:
PREPARATIONS AND APPLICATIONS

13:30-13:55 F2 **Erkang Wang** (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy
of Sciences, China

NEW INSIGHTS IN THE MECHANISM OF
NEUROTRANSMITTERS RELEASE

13:55-14:20 F3 **Christian Amatore**(Invited)
Ecole Normale Supérieure-PSL Research University, France
Sorbonne Universités -UPMC University, France

STOCHASTIC ELECTROCHEMISTRY OF SINGLE
NANOPARTICLES

14:20-14:45 F4 **Bo Zhang** (Invited)
University of Washington, USA

CHRONICALLY IMPLANTED CELL MEMBRANE
REFERENCE ELECTRODES FOR NEUROCHEMICAL
APPLICATIONS

14:45-15:10 F5 **Chengxiao Zhang**(Invited)
Shaanxi Normal University, China

15:10-15:25 **Coffee Break**

Chairpersons: Prof. Christian Amatore and Prof. Chengxiao Zhang

- 15:25-15:50 F6 **ELECTROCHEMICAL CYTOMETRY TO DETERMINE VESICULAR CONTENTS IN VITRO AND IN LIVING CELLS**
Andrew Ewing (Invited)
Chalmers University of Technology, Sweden
University of Gothenburg, Sweden
- 15:50-16:15 F7 **FABRICATION OF pH-RESPONSIVE ELECTROACTIVE COMPOSITE FILM MODIFIED ELECTRODE BY COMBINATION OF CARBOXYLATED MULTIWALLED CARBON NANOTUBES WITH PRUSSIAN BLUE**
Xueji Zhang (Invited)
University of Science and Technology Beijing, China
- 16:15-16:40 F8 **BIOIMAGING AND BIOSENSING OF REACTIVE OXYGEN SPECIES AND RELATED MOLECULES**
Yang Tian (Invited)
East China Normal University, China
- 16:40-17:05 F9 **DNA NANOTECHNOLOGY-ENABLED ORGANIZATION FOR BIOSENSORS**
Chunhai Fan (Invited)
Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai
- 17:05-17:30 F10 **ELECTROCHEMICAL BIOSENSING OF DNA AND PROTEINS**
Huangxian Ju (Invited)
Nanjing University, China

Time: October 29, 2015 AM (Thursday)

Location: Room 303A, China National Convention Center, Beijing

Chairpersons: Prof. Takeo Ohsaka and Prof. Yuanhua Shao

PEROXIDASE MIMETICS BASED ON
NANOMATERIALS

8:30-8:55 F11 **Shaojun Dong** (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy
of Sciences, China

KREBS CYCLE METABOLONS: FROM STRUCTURAL
BIOLOGY TO BIOELECTROCATALYSIS

8:55-9:20 F12 **Shelley D. Minter** (Invited)
The University of Utah , USA

ELECTROANALYTICAL APPLICATIONS OF SURFACE
TERMINATED AND HYBRID SPUTTERED CARBON
FLIM ELECTRODES

9:20-9:45 F13 **Osamu Niwa**(Invited)
National Institute of Advance Industrial Science and
Technology, Japan
University of Tsukuba, Japan

ELECTROANALYTICAL METHOD FOR
DETERMINING CATALYTIC ACTIVITY OF
METAL-FREE N-DOPED CARBON CATALYSTS

9:45-10:10 F14 **Lehui Lu** (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy
of Sciences, China

10:10-10:25

Coffee Break

Chairpersons: Prof. Shelley D. Minter and Prof. Chunhai Fan

IONIC CURRENT RECTIFICATION WITH DUAL
PIPETTES

10:25-10:50 F15 **Yuanhua Shao** (Invited)
Peking University, China

NANOPARTICLE CONJUGATED
ELECTROCHEMICALBIOSENSORS FOR BIOLOGICAL
APPLICATIONS
10:50-11:15 F16 **Hye Jin Lee**(Invited)
Kyungpook National University , South Korea

FUNDAMENTAL RESEARCH OF PORPHYRIN
ELECTROCHEMISTRY
11:15-11:40 F17 **Xiaoquan Lu** (Invited)
Northwest Normal University, China

ELECTROCHEMICAL MEASUREMENTS OF
OPTOGENETICALLY STIMULATED QUANTAL AMINE
RELEASE FROM SINGLE NERVE CELL VARICOSITIES
IN DROSOPHILA LARVAE
11:40-12:05 F18 **Soodabeh Majdi**
Chalmers University of Technology
Sweden University of Gothenburg, Sweden

Time: October 29, 2015 PM (Thursday)

Location: Room 303A, China National Convention Center, Beijing

Chairpersons: Prof. Adrian C. MICHAEL and Prof. Li Niu

BIO-INSPIRED ELECTROCATALYSTS FOR OXYGEN
REDUCTION
13:30-13:55 F19 **Xing-Hua Xia** (Invited)
Nanjing University, China

A NOVEL FABRICATION OF A POLYMERIC IONIC
LIQUID HYBRID FILM MODIFIED ELECTYRODE AND
ITS SUCCESSFUL APPLICATION TO THE
ELECTROGENERATION OF A SUPEROXIDE ANION IN
AQUEOUS MEDIA
13:55-14:20 F20 **Takeo Ohsaka** (Invited)
Tokyo Institute of Technology , Japan

THE NEW PHOTOELECTRIC MATERIALS FOR
ANALYTICAL APPLICATIONS

- 14:20-14:45 F21 **Li Niu** (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy
of Sciences, China

MILLISECOND TIME RESOLVED DETECTION
OF NON-ELECTROACTIVE NEUROTRANSMITTER
RELEASE USING ENZYME FUNCTIONALIZED

- 14:45-15:10 F22 **Ann-Sofie Cans** (Invited)
Chalmers University of Technology

ELECTROCHEMILUMINESCENCE RATIO METRY FOR
BIOANALYSIS

- 15:10-15:35 F23 **Jing-Juan Xu** (Invited)
Nanjing University, China

15:35-15:50 **Coffee Break**

Chairpersons: Prof. Xiurong Yang and Prof. Serge G. Lemay

FAST-SCAN CYCLIC VOLTAMMETRY FOR THE IN
VIVO ANALYSIS OF DOPAMINE KINETIC DIVERSITY

- 15:50-16:15 F24 **Adrian C. Michael** (Invited)
University of Pittsburgh, USA

MICROFLUIDIC BASED ELECTROCHEMICAL
DEVICES FOR REAL-TIME MONITORING OF HUMAN
TISSUE

- 16:15-16:40 F25 **Martyn Boutelle** (Invited)
Imperial College London, UK

ELECTROCHEMILUMINESCENCE
FUNCTIONALIZED GRAPHENE HYBRIDS FOR

16:40-17:05 F26 BIOASSAYS

Hua Cui(Invited)

University of Science and Technology of China, China

ELECTROCHEMICAL IMMUNOSENSOR FOR
DETECTION OF EPIDERMAL GROWTH FACTOR
REACHING LOWER DETECTION LIMIT

17:05-17:30 F27

Yuqing Lin

Capital Normal University, China

Time: October 30, 2015 AM (Friday)

Location: Room 303A, China National Convention Center, Beijing

Chairpersons: Prof. Martyn Boutelle and Prof. Lanqun Mao

SYNTHESIS AND APPLICATION OF DOPED CARBON
NANOMATERIAL

8:30-8:55 F28 **Xiurong Yang**(Invited)

Changchun Institute of Applied Chemistry, Chinese
Academy of Science, China

MULTIFUNCTIONAL NANOPROBES FOR
BIOSENSING AND DRUG DELIVERY

8:55-9:20 F29 **Jun-Jie Zhu**(Invited)

Nanjing University, China

HIGH-FREQUENCY DETECTION WITH CMOS
NANOCAPACITOR ARRAYS: FROM NANOPARTICLES
TO LIVING CELLS

9:20-9:45

F30

Serge G. Lemay (Invited)

University of Twente, The Netherlands

STRUCTURAL ENGINEERING OF FUNCTIONAL
NANOMATERIALS FOR EFFECTIVE
ELECTROCATALYTIC REDUCTION OF OXYGEN

9:45-10:10 F31

Shaowei Chen(Invited)

University of California, Santa Cruz, USA

10:10-10:25

Coffee Break

Chairperson: Prof. Shaowei Chen

SPOOLING ELECTROCHEMILUMINESCENCE
SPECTROSCOPY FOR NANOCRYSTALS AND
NANOCLUSTERS

10:25-10:50 F32

Zhifeng Ding (Invited)

The University of Western Ontario, Canada

HOMOGENEOUS IMMOBILIZATION FREE
ELECTROCHEMICAL PLATFORM BASED ON
NEGATIVELY CHARGED INDIUM TIN OXIDE

10:50-11:15 F33

MICROELECTRODE

Zhenyu Lin

Fuzhou University, China

IN VIVO ELECTROCHEMISTRY WITH CARBON
NANOTUBE-MODIFIED CARBON FIBER
MICROELECTRODES

11:15-11:40 F34

Meining Zhang

Renmin University of China, China

POSTER SESSION

Location: Near booth No. 52 of the Exhibition Area

PH-SWITCHABLE ION CURRENT RECTIFICATION IN ACONICAL GLASS NANOPIPETTES

Ting LI, Ping YU and Lanqun MAO*

- F35 Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100190, China

A QUANTUM DOTS-BASED ELECTROCHEMICAL SENSOR TOWARDS SENSITIVE DETECTION OF TUMOR CELLS

Lina ZHU, Yun LIU, Jilie KONG, Baohong LIU*

- F36 Department of Chemistry, Fudan University, Shanghai 200433, China

CE-/S-CODOPED TiO₂/SULFONATED GRAPHENE FOR PHOTOCATALYTIC DEGRADATION OF ORGANIC DYES

Yingying FAN,^{1,2} Dongxue HAN¹, Bin CAI,^{1,2} Weiguang MA,^{1,2}

Shiyu GAN,^{1,2} Tongshun WU,^{1,2} Xiandui DONG¹, Li NIU¹

- F37 1 State Key Laboratory of Electroanalytical Chemistry, c/o Engineering Laboratory for Modern Analytical Techniques, Changchun Institute of applied Chemistry, Chinese Academy of Science, Changchun, China
2 University of Chinese Academy of Sciences, Beijing, China

ULTRASENSITIVE SULFONATED GRAPHENE-TiO₂ NANOHYBRID AS PHOTOELECTROCHEMICAL ELEMENTS FOR RATIONAL GLOBALANTIOXIDANT CAPACITY EVALUATION

Lingnan WANG^{1,2}, Weiguang MA^{1,2}, Shiyu GAN¹, Dongxue HAN¹,
Qixian ZhANG¹ and Li NIU¹

- F38 1 State Key Laboratory of Electroanalytical Chemistry, c/o Engineering Laboratory for Modern Analytical Techniques, Changchun Institute of Applied Chemistry, Changchun, P.R. China
2 University of Chinese Academy of Sciences, Beijing, P.R. China

**DEVELOPMENT OF ULTRA-FAST CHEMICALLY SELECTIVE
 ENZYMEFUNCTIONALIZED,
 NANOSTRUCTUREDBIOSENSORS FOR PROBING
 NEURONAL COMMUNICATION**

Yuanmo WANG¹, Jenny BERGMAN², and Ann-Sofie CANS¹

- F39 1 Analytical Chemistry, Department of Chemistry and Chemical
 Engineering, Chalmers University of Technology, Kemigården 4, SE-412
 96 Gothenburg, Sweden
 2 Department of Chemistry and Molecular Biology, University of
 Gothenburg, Kemigården 4, SE-412 96 Gothenburg, Sweden

**ELECTROCHEMICAL AND FLUORESCENCE IMAGING AT
 CELLS: EFFECT OF SYNAPTIC ZINC NEUROTRANSMITTER
 EXOCYTOSIS**

Lin REN¹, Andrew EWING^{1,2}

- F40 1 Department of Chemistry and Chemical Engineering, Chalmers
 University of Technology, Gothenburg, Sweden.
 2 Department of Chemistry and Molecular Biology, University of
 Gothenburg, Gothenburg, Sweden

**COBALT PHTHALOCYANINE/NITROGEN-DOPED GRAPHENE
 NANOCOMPOSITE FOR ELECTROANALYSIS OF THIOLS**

- F41 Huiying XU, Jingjing XIAO, Jilie KONG, Baohong LIU*
 Department of Chemistry, Fudan University, Shanghai 200433, China

**PHOTOELECTROCHEMICAL APATASENSOR FOR
 KANAMYCIN DETECTION**

- F42 Yanmei XIN, Zhenzhen LI, Zhonghai ZHANG*
 School of Chemistry and Molecular Engineering, East China Normal
 University, 500 Dongchuan Road, Shanghai 200241, China

**PLATINIZED MICROELECTRODE ARRAYS FOR
 SIMULTANEOUS DETECTION OF OXYGEN IN VIVO**

- F43 Tongfang XIAO, Yuexiang WANG, Ping YU, Lanqun MAO*
 Beijing National Laboratory for Molecular Sciences, Key Laboratory of
 Analytical Chemistry for Living Biosystems, Institute of Chemistry, the
 Chinese Academy of Sciences, Beijing 100190, China

POLYMER BRUSHES MODIFIED MICROPIPETTES: SIZE IN MICROMETER, PROPERTY IN NANOMETER

- F44 Xiulan HE, Ping YU, and Lanqun MAO*
Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, the Chinese Academy of Sciences, Beijing 100190, China

PHOTOCATHODIC ANALYSIS PLATFORM FOR SENSITIVE H₂O₂ DETECTION

- F45 Zhenzhen LI, Yanmei XIN, Zhonghai ZHANG*
School of Chemistry and Molecular Engineering, East China Normal University, 500 Dongchuan Road, Shanghai 200241, China

A SELF-POWERED TRIBOELECTRIC NANOSENSOR WITH POLY(TETRAFLUOROETHYLENE) NANOPARTICLE ARRAYS FOR DOPAMINE DETECTION

- Yang JIE^{1,2}, Ning WANG³, Xia CAO^{1,2}, Ying XU^{2,3}, Tao LI², Xueji ZHANG¹ and Zhong Lin WANG^{2,4}
1 Research Center for Bioengineering and Sensing Technology,
F46 University of Science and Technology Beijing, Beijing 100083, China
2 Beijing Institute of Nanoenergy and Nanosystems, Chinese Academy of Sciences, Beijing 100083, China
3 School of Chemistry and Environment, Beijing University of Aeronautics and Astronautics, Beijing 100191, China
4 School of Material Science and Engineering, Georgia Institute of Technology, Atlanta, Georgia 30332-0245, United States

EFFICIENT PH GRADIENT GENERATION BY A BIFUNCTIONAL ELECTROCATALYST FOR ORR AND OER DERIVED FROM POLYIMIDE

- F47 Wenjie MA, Ping YU, Lanqun MAO*
Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, the Chinese Academy of Sciences, Beijing 100190, China

**ONLINE ELECTROCHEMICAL METHOD FOR CONTINUOUS
MONITORING OF AUDITORY CORTEX GLUCOSE
FOLLOWING TINNITUS**

- F48 Xiuyun WANG¹, Qian LI¹, Lanqun MAO^{2*}
1 School of Chemistry, Dalian University of Technology, Dalian, PR
China, 116024;
2 Institute of Chemistry, Chinese Academy of Sciences (ICCAS), Beijing,
PR China 100190

**PHOTOELECTROCHEMICAL BIOSENSOR BASED ON
PHOTONIC CRYSTAL MATERIALS**

- F49 Zhonghai ZHANG
School of Chemistry and Molecular Engineering, East China Normal
University, 500 Dongchuan Road, Shanghai 200241, China

**DEVELOPMENT OF THE NICKEL(NI)-COPPER(CU)
NANOALLOY EMBEDDED CARBON FILM ELECTRODES FOR
ELECTROCATALYTIC DETECTION OF SUGAR MARKERS**

- F50 Shunsuke SHIBA^{1,2} Dai KATO² Tomoyuki KAMATA³ Osamu NIWA^{1,2}
1 National Institute of Advanced Industrial Science and Technology,
1-1-1, Higashi, Tsukuba, Ibaraki 305-8566, Japan.
2 Graduate School of Pure and Applied Sciences, University of Tsukuba,
1-1-1 Tennodai, Tsukuba, Ibaraki 305-8573, Japan.
3 Chiba Institute of Technology, 2-17-1, Tsudanuma, Narashino, Chiba
275-0016, Japan

**FERRICYANIDE-BACKFILLED CYLINDRICAL CARBON
FIBER MICROELECTRODES FOR IN VIVO ANALYSIS WITH
HIGH STABILITY AND LOW POLARIZED POTENTIAL**

- F51 Peipei ZHONG,^{a,b} Ping YU,^b Kai WANG,^b Jie HAO,^b Junjie FEI,^a Lanqun
MAO^b
a Key Laboratory of Environmental Friendly Chemistry and Applications
of Ministry of Education, College of Chemistry, Xiangtan University,
Xiangtan, Hunan 411105, China.
b Beijing National Laboratory for Molecular Sciences, Key Laboratory
of Analytical Chemistry for Living Biosystems, Institute of Chemistry,
the Chinese Academy of Sciences, Beijing 100190, China.

**IN VIVO MONITORING THE DYNAMIC CHANGE OF PH
INDUCED BY CO₂ INHALATION IN RAT BRAIN**

F52 Jie HAO, Ping YU, Lanqun MAO*

Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, P.
R. China

**PREPARATION OF
POLY-L-ARGININE-GRAPHENE MODIFIED ELECTRODE AND
DETERMINATION OF SUNSET YELLOW**

F53

Qingqing HU, Yan LUO and Dengming SUN *

College of Chemistry and Materials Science, Huaibei Normal University,
Huaibei, 235000, Anhui, PR China

**POLYMER BRUSHES MODIFIED MICROPIPETTES FOR
CEREBRAL ATP ASSAY**

F54

Kailin ZHANG, Ping YU and Lanqun MAO*

Beijing National Laboratory for Molecular Sciences, Key Laboratory of
Analytical Chemistry for Living Biosystems, Institute of Chemistry, The
Chinese Academy of Sciences, Beijing 100190, China

SCHEDULE OF SESSIONS

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

CHAIRMAN: Prof. Jianwei XIE

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 301A, China National Convention Center, Beijing

Topic: -omics and Mass Spectrometric Techniques

Chairman: Prof. Fuyu Guan and Prof. Jun Qu

13:30-14:00 G2 A PROMISING ALTERNATIVE TO DIA: AN ION-CURRENT-BASED MS1 STRATEGY ENABLES EXTENSIVE AND LARGE-SCALE PROTEOMIC QUANTIFICATION WITH HIGH ACCURACY, PRECISION AND EXTREMELY-LOW LEVELS OF MISSING DATA

Jun QU (Keynote)

Department of Pharmaceutical Sciences, and NY State Center of Excellence in Life Sciences & Bioinformatics, SUNY-Buffalo (NYS-COE), Buffalo, New York, USA

14:00-14:30 G3 GLOBAL UBIQUITOME STUDY THROUGH HIGH EFFICIENT ENRICHMENT OF UBIQUITINATED PROTEINS AND LC-MS

Ping XU (Keynote)

14:00-14:30 G3 State Key Laboratory of Proteomics, National Engineering Research Center for Protein Drugs, Beijing Proteome Research Center, National Center for Protein Sciences Beijing, Beijing Institute of Radiation Medicine, Beijing, China

14:30-14:50 G16 DISEASE-SPECIFIC IGG FC N-LINKED GLYCOPEPTIDES FOR DIFFERENTIATING GASRIC CANCER FROM BENIGN GASRIC DISEASES

Dan ZHANG

Department of Biophysics and Structural Biology, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China

			AFFINITY PURIFICATION-TARGETED MASS SPECTROMETRY FOR THE INTACT GLYCOPEPTIDE ANALYSIS OF A-FETOPROTEIN
14:50-15:10	G18	Wantao YING	National Key Laboratory of Proteomics, Beijing Institute of Radiation Medicine, Beijing, China
15:10-15:20			Coffee Break
			DETECTION AND IDENTIFICATION OF PROTEIN- AND PEPTIDE-BASED DRUGS IN DOPING CONTROL
15:20-15:50	G4	Fuyu GUAN (Keynote)	University of Pennsylvania, School of Veterinary Medicine, USA
			ANESTHETIC DRUGS IN FISHERY: ANALYSIS, RESIDUES DISTRIBUTION, AND EXPOSURE CHARACTERISTICS
15:50-16:10	G17	Jincheng LI	¹ Chinese Academy of Fishery Sciences, and ² Beijing University of Agriculture, Beijing, China
			TARGETED MASS SPECTROMETRY FOR ANTIBODY THERAPEUTICS AND FUSION PROTEINS
16:10-16:30	G5	Xiaotao DUAN (Keynote)	Beijing Institute of Pharmacology and Toxicology, Beijing, China
16:30-17:30			Poster Session

Time: Oct. 29, 2015 AM (Thursday)

Location: Room 301A, China National Convention Center, Beijing

Topic: Novel Analytical Techniques in Life Sciences

Chairman: Prof. Michael Ladisch and Prof. Jiangyun WANG

			HIGH-THROUGHPUT SINGLE PARTICLE ANALYSIS OF BACTERIA, MITOCHONDRIA, AND EXTRACELLULAR VESICLES
8:30-9:00	G6	Xiaomei YAN (Keynote)	The MOE Key Laboratory of Spectrochemical Analysis & Instrumentation, the Key Laboratory for Chemical Biology of Fujian Province, Department of Chemical Biology, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China

		CHEMICAL TOOLS FOR PROBING GLYCOSYLATION DYNAMICS IN VIVO
9:00-9:30	G7	Xing CHEN (Keynote) College of Chemistry and Molecular Engineering, Peking University, Beijing, China
		FUNCTIONAL PHOTOACTIVE PROTEIN SYNTHESIS USING GENETIC CODE EXPANSION
9:30-10:00	G8	Jiangyun WANG (Keynote) Institute of Biophysics, Chinese Academy of Sciences, Beijing, China
		HIGH EFFICIENT UPCONVERTING FLUORESCENT NANOMATERIALS FOR BIOANALYSIS
10:00-10:30	G9	Fan ZHANG (Keynote) Department of Chemistry, Fudan University, Shanghai, CHINA
10:30-10:40		Coffee Break
		INNOVATIVE BIOSEPARATIONS AND ANALYSIS TECHNIQUES FOR FOOD SAFETY INSPECTION
10:40-11:10	G10	Michael LADISCH (Keynote) Laboratory of Renewable Resources Engineering, Department of Agricultural and Biological Engineering, Weldon School of Biomedical Engineering, Purdue University, USA
		ENABLING MICROFLUIDIC TECHNOLOGIES FOR HIGH THROUGHPUT SINGLE CELL ANALYSIS
11:10-11:30	G11	Chaoyong James YANG (Keynote) Department of Chemical Biology, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China
		INTRACELLULAR TEMPERATURE IMAGING: A RATIOMETRIC FLUORESCENT POLYMER BASED NANOTHERMOMETER
11:30-11:50	G41	Juan QIAO Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China

Time: Oct 29, 2015 PM (Thursday)

Location: Room 301A, China National Convention Center, Beijing

Topic: Novel Analytical Techniques in Life Sciences

Chairman: Prof. Hailin WANG and Prof. Lanqun MAO

13:30-14:00 G12 **IN VIVO ELECTROCHEMISTRY TO UNDERSTAND
 PHYSIOLOGICAL ROLES OF ASCORBATE**
Lanqun MAO(Keynote)
 Institute of Chemistry, Chinese Academy of Sciences,
 Beijing, China

14:00-14:20 G19 **A RATIOMETRIC ELECTROCHEMICAL SENSOR FOR
 IN VIVO MEASUREMENTS OF NEUROCHEMICALS
 IN LIVING BRAINS**
Hanjun CHENG
 College of Engineering and Applied Sciences, Nanjing
 University, Nanjing, China

14:20-14:50 G22 **DNA-ASSEMBLED NANOPARTICLE CLUSTERS
 WITH ENHANCED COUPLING: SMALL THINGS
 WITH BIG POTENTIAL IN BIOANALYSIS**
Zhaoxiang DENG(Keynote)
 Department of Chemistry, University of Science and
 Technology of China, Hefei, China

14:50-15:10 G20 **A NEW METHOD TO DETECT THE CARBON BLACK
 EXTRACTED FROM BIOLOGICAL TISSUE**
Xuejing CUI
 State Key Laboratory of Environmental Chemistry and
 Ecotoxicology, Research Center for Eco-Environmental
 Sciences, Chinese Academy of Sciences, Beijing, China

15:10-15:20 **Coffee Break**

15:20-15:50 G14 **IDENTIFICATION AND CHARACTERIZATION OF
 DNA METHYLATION AND DEMETHYLATION
 SPECIES IN GENOMIC DNA**
Hailin WANG(Keynote)
 Research Center for Eco-environmental Sciences, Chinese
 Academy of Sciences, Beijing, China

15:50-16:10 G21 **REAL-TIME MONITORING OF PRIMER GENERATION –
 ROLLING AMPLIFICATION OF DNA USING AN**

ETHIDIUM ION SELECTIVE ELECTRODE

Ayaka SEICHI

¹Department of Applied Chemistry, Keio University, Kanagawa, and ²Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, Tokyo, Japan

DNA ISOTHERMAL EXPONENTIAL AMPLIFICATION ARTIFICIAL BIOCHEMICAL CIRCUIT IN POINT-OF-CARE DNA DETECTION

16:10-16:30 G22

Yinglin ZHOU

College of Chemistry, Peking University, Beijing, China

HIGHLY SENSITIVE QUANTIFICATION OF DNA METHYLATION IN STOOL DNA BASED ON DIGITAL PCR COUPLED WITH HYDROGEL BEADS-ARRAY

Yunlong LIU

16:30-16:50 G23

¹Department of Pharmacology, Jinling Hospital, State Key Laboratory of Analytical Chemistry for Life Science, Medical School of Nanjing University, and ²Huadong Research Institute for Medicine and Biotechnics, Nanjing, China

EFFICIENT SCREENING OF TUMOR TARGETING PEPTIDES THROUGH SINGLE-BEAD SEQUENCING MICROARRAY

16:50-17:10 G15

Weizhi WANG

National Center for Nanoscience and Technology, Beijing, China

17:10-17:20

Poster Awards/Closing Remarks

POSTER SESSION

Location: Near booth No. 52 of the Exhibition Area

DEVELOPMENT OF CHEMICAL ISOTOPE LABELING LC-MS
FOR HUMAN SERUM METABOLOME PROFILING FROM
DRIED SERUM SPOTS

Liyan LIU², Difei SUN¹ and Liang LI¹

G24 ¹Department of Chemistry, University of Alberta, Edmonton, Alberta,
Canada

²Department of Nutrition and Food Hygiene, Public Health College,
Harbin Medical University, Harbin, China

FACILE SYNTHESIS OF MAGNETIC METAL ORGANIC
FRAMEWORK FOR HIGHLY EFFICIENT PROTEOLYTIC
DIGESTION

Rui ZHAI^{1,2}, Yangjun ZHANG², Xiaohong QIAN²

G25 ¹College of Life Science and Bio-Engineering, Beijing University of
Technology, Beijing, China

²State Key Laboratory of Proteomics, Beijing Proteome Research
Center, Beijing Institute of Radiation Medicine, Beijing, China

COMBINING UNTARGETED AND TARGETED PROTEOMIC
STRATEGIES FOR DISCRIMINATION AND QUANTIFICATION
OF CASHMERE FIBERS

Shanshan LI¹, Yong ZHANG², Yunfei YANG², Chen MIAO¹, Yufeng
Guo¹, Zhidan ZHANG¹, Qichen CAO^{1*}, Wenqing SHUI^{1*}

G26 ¹Key Laboratory of Systems Microbial Biotechnology, Tianjin
Institute of Industrial Biotechnology, Chinese Academy of Sciences,
Tianjin, China

²College of Life Sciences, Nankai University, Tianjin, China

PERSONALIZED LIPID BIOMARKERS: MONITORING
DISEASE PROGRESSION OF NON-SMALL CELL LUNG
CANER

Junling REN, Yujie LIU, Dan ZHANG, Ruiqing ZHANG, Shuai
GUO, Zhili LI*

G27 Department of Biophysics and Structural Biology, Institute of Basic
Medical Sciences, Chinese Academy of Medical Sciences and Peking
Union Medical College, Beijing, China

- G28 **UPLC Q-TOF/HRMS-BASED METABONOMIC STUDY ON THE BIOCHEMICAL PROFILES OF SULFUR MUSTARD IN RATS URINE**
Bin XU, Lei GUO, Jianwei XIE*
State Key Laboratory of Toxicology and Medical Countermeasures, and Laboratory of Toxicant Analysis, Institute of Pharmacology and Toxicology, Academy of Military Medical Sciences, Beijing, China
- G29 **A HIGH-CONTENT SCREENING METHOD FOR ASSESSING TOXICITY OF SULFUR MUSTARD IN ADIPOSE CELL**
Hua Xu, Peng WANG, Long LONG, Bin XU, Lei GUO, Lili WANG, Jianwei XIE*
State Key Laboratory of Toxicology and Medical Countermeasures, and Laboratory of Toxicant Analysis, Institute of Pharmacology and Toxicology, Academy of Military Medical Sciences, Beijing, China
- G30 **MONITORING THE CONFORMATIONAL CHANGE OF PROTEIN DISULFIDE ISOMERASE BY ¹⁹F NMR.**
Yanhua CHEN, Xiaoli LIU, Guohua XU, Yansheng YE, Maili LIU, Conggang LI*
National Center for Magnetic Resonance in Wuhan, Wuhan Institute of Physics and Mathematics, the Chinese Academy of Sciences, Wuhan, China
- G31 **EVALUATION OF APTAMER/EPO-ALFA INTERACTION BY SURFACE PLASMON RESONANCE**
Zhongcai GAO^{1,2}, Xiaoqin HE¹, Lei GUO^{1*}, Jianwei XIE¹
¹State Key Laboratory for Toxicology and Medical Countermeasures, and Laboratory of Toxicant Analysis, Institute of Pharmacology and Toxicology, Academy of Military Medical Sciences, Beijing, China
²The second artillery general hospital of PLA, Beijing, China
- G32 **NON-INVASIVE PRENATAL DIAGNOSIS OF TRISOMY 21 VIA QUANTITATION OF SEGMENTAL DUPLICATION IN MATERNAL PLASMA USING DIGITAL PCR**
Shu XU, Bingjie ZOU, Qinxin SONG, Zheng XIANG, Guohua ZHOU
Department of Pharmacology, Jinling Hospital, State Key Laboratory of Analytical Chemistry for Life Science, School of Medicine, Nanjing University, Nanjing, China

ASSESSING FUNGAL DIVERSITY IN SOIL AMENDED WITH
CONVENTIONAL COTTON AND TRANSGENIC COTTON
USING ^{18}S AND ITS RDNA

Xiemin QI^{1, 2}, Biao LIU³, Qinxin SONG^{1, 2}, Bingjie ZOU¹, Ying BU⁴,
Haiping WU⁴, Li DING^{2*}, Guohua ZHOU¹

G33 ¹Department of Pharmacology, Jinling Hospital, State Key Laboratory
of Analytical Chemistry for Life Science, School of Medicine,
Nanjing University, Nanjing, China

²Department of Pharmaceutical Analysis, China Pharmaceutical
University, Nanjing, China

³Key Laboratory of Biosafety, Ministry of Environmental Protection
of China, Nanjing Institute of Environmental Sciences, Nanjing,
China

⁴Huadong Research Institute for Medicine and Biotechnics, Nanjing,
China

A SYNERGISTIC EFFECT FOR ENHANCING THE
FLUORESCENCE SENSING OF EXTRACELLULAR Cu^{2+} IN RAT
BRAIN

G34 Linbo Li, Chao Wang, Kangyu Liu, Keqing Wang, Bo Li, Yuqing
Lin*

Department of Chemistry, Capital Normal University, Beijing, China

NOVEL ANTI-FOULING MICROCAPSULE ARRAY CHIPS
FABRICATED BY ICE PRINTING FOR RAPID VISUAL
DETECTION

Fangting Zhang¹, Hongze Zhang², Zhihong Li², Yinglin Zhou^{1*},
Xinxiang Zhang^{1*}

G35 ¹Beijing National Laboratory for Molecular Sciences (BNLMS), Key
Laboratory of Bioorganic Chemistry and Molecular Engineering of
Ministry of Education, College of Chemistry, Peking University,
Beijing, China

² National Key Laboratory of Science and Technology on
Micro/Nano Fabrication, Institute of Microelectronics, Peking
University, Beijing, China

- ON-SITE DETECTION OF PARAQUAT IN BIOLOGIC FLUIDS
BY IODIDE-PROMOTED PINHOLE SHELL-ISOLATED
NANOPARTICLE-ENHANCED RAMAN SPECTROSCOPY
Yingjie ZHU, Haiyue GAO, Jianfeng WU, Jianlin FENG, Lei GUO*,
Jianwei XIE*
- G36 State Key Laboratory of Toxicology and Medical Countermeasures,
and Laboratory of Toxicant Analysis, Institute of Pharmacology and
Toxicology, Academy of Military Medical Sciences, Beijing, China
- QUALITY CONTROL OF QUANTUM DOTS VIA SINGLE
PARTICLE DETECTION WITH HIGH-SENSITIVITY FLOW
CYTOMETER
Shuo WANG, Shenghao JIN, Xiaomei YAN*
- G37 The MOE Key Laboratory of Spectrochemical Analysis &
Instrumentation, The Key Laboratory for Chemical Biology of Fujian
Province, Department of Chemical Biology, College of Chemistry
and Chemical Engineering, Xiamen University, Fujian, China
- STUDY ON ENDOCYTOSIS AND EXOCYTOSIS OF
SINGLE-WALLED CARBON NANOTUBES IN MACROPHAGES
Xue-Jing CUI, Bin WAN*, Liang-Hong GUO*
- G38 State Key Laboratory of Environmental Chemistry and
Ecotoxicology, Research Center for Eco-environmental Sciences,
Chinese Academy of Sciences, Beijing, China
- STUDY ON BIODEGRADATION OF SINGLE-WALLED
CARBON NANOTUBES IN MACROPHAGES
Jie HOU, Bin Wan*, Liang-Hong Guo*
- G39 State Key Laboratory of Environmental Chemistry and
Ecotoxicology, Research Center for Eco-environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China
- CHARACTERIZATION OF NANOPARTICLE
AGGLOMERATION WITHIN BIOLOGICAL MEDIA USING
HIGH SENSITIVITY FLOW CYTOMETRY
Lihong LI, Shuo WANG, Xiaomei YAN*
- G40 The MOE Key Laboratory of Spectrochemical Analysis &
Instrumentation, The Key Laboratory for Chemical Biology of Fujian
Province, Department of Chemical Biology, College of Chemistry
and Chemical Engineering, Xiamen University, Fujian, China

SCHEDULE OF SESSIONS
H.ENVIRONMENTAL ANALYSIS
CHAIRMAN: Prof. Liang-Hong GUO

ORAL LECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 301B, China National Convention Center, Beijing

Chairman: Dr. Liang-Hong Guo and Dr. Eric Bakker

14:00-14:10

Opening Address

14:10-14:40

H2

MEMBRANE ELECTRODES FOR ENVIRONMENTAL ANALYSIS

Dr. Eric Bakker (Invited)

University of Geneva, Switzerland

14:40-15:10

H3

POLYMERIC MEMBRANE ION-SELECTIVE ELECTRODES FOR POTENTIOMETRIC DETECTION OF ENVIRONMENTAL POLLUTANTS

Dr. Wei Qin (Invited)

Yantai Institute of Coastal Area Research, CAS, China

15:10-15:40

H4

INHIBITION OF CHARGE TRANSPORT FOR PTS ELECTROANALYSIS

Dr. Xing-Jiu Huang (Invited)

Institute of Intelligent Machines, CAS, China

15:40-15:50

Coffee Break

15:50-16:20

H5

A MICROBIAL BIOSENSOR ARRAY FOR TOXICITY AND BIOLOGICAL OXYGEN DEMAND MEASUREMENT APPLIED TO WASTEWATER SYSTEMS

Dr. Gerald Thouand (Invited)

Université de Nantes, France

16:20-16:50 H6 SEDIMENT TOXICITY EVALUATION AND IDENTIFICATION: THE APPLICATION OF PASSIVE SAMPLING AND PASSIVE DOSING TECHNIQUES
Dr. Jing You (Invited)
 Guangzhou Institute of Geochemistry, CAS, China

16:50-18:00 **Poster Session (I)**

Time: Oct. 29, 2015 AM (Thursday)

Location: Room 301B, China National Convention Center

Chairman: Dr. Xingfang Li and Dr. Edward Kolodziej

8:30-9:00 H7 CHARACTERIZATION AND ENVIRONMENTAL IMPLICATIONS OF PHARMACEUTICAL TRANSFORMATION PRODUCTS IN WATER
Dr. Edward Kolodziej(Invited)
 University of Washington, USA

9:00-9:30 H8 DEVELOPMENT OF SURROGATES TO PREDICT PHOTO-TRANSFORMATION OF PPCPS IN WASTEWATER EFFLUENTS
Dr. Weihua Song (Invited)
 Fudan University, China

9:30-9:50 H9 CONCENTRATIONS, SOURCES AND BIOMAGNIFICATION OF OCPS IN MARINE BIOTA FOOD CHAINS, ANTARCTICA
Dr. Yingming Li (Oral)
 Research Center for Eco-Environmental Sciences, CAS, China

9:50-10:00 **Coffee Break**

10:00-10:30 H10 EMERGING WATER DISINFECTION BY PRODUCTS HALOBENZOQUINONES: TOXICOLOGICAL CHARACTERIZATION
Dr. Xingfang Li(Invited)
 University of Alberta, Canada

10:30-11:00 H11 ELEMENTAL MERCURY IN NATURAL WATERS: OCCURRENCE AND DETERMINATION OF PARTICULATE Hg(0)
Dr. Yong Cai (Invited)
 Florida International University, USA

11:00-11:30 H12 OCCURRENCE OF LEGACY, EMERGED, EMERGING
 AND RE-EMERGING CONTAMINANTS IN KOREAN
 ENVIRONMENT
Dr. Hyo-Bang Moon (Invited)
 Hanyang University, Korea

Time: Oct 29, 2015 PM (Thursday)

Location: Room 301B, China National Convention Center

Chairman: Dr. Chris Le and Dr. Mohammed Baalousha

14:00-14:30 H13 POLLUTION CHARACTERISTICS OF PM_{2.5}-BOUND
 PAHS AND NPAHS AND PM_{2.5}-INDUCED LUNG
 INJURY OF RATS
Dr. Zongwei Cai (Invited)
 Hong Kong Baptist University, China

14:30-15:00 H14 CHARACTERIZATION OF NANOMATERIAL
 PROPERTIES AND ENVIRONMENTAL BEHAVIOR
 USING A MULTI-METHOD APPROACH
Dr. Mohammed Baalousha (Invited)
 University of South Carolina, USA

15:00-15:30 H15 BIOAVAILABILITY AND TOXICOLOGY OF TRACE
 METALS IN ATMOSPHERIC PARTICULATE MATTERS
Dr. Xiangdong Li (Invited)
 Hong Kong Polytechnic University, China

15:30-15:40 **Coffee Break**

15:40-16:10 H16 FATE AND BEHAVIOR OF ARSENIC IN CHICKEN
Dr. Chris Le (Invited)
 University of Alberta, Canada

16:10-16:40 H17 BDE-47 HYDROXYLATION METABOLIC PATHWAYS
Dr. Qiuquan Wang (Invited)
 Xiamen University, China

16:40-17:00 H18 STABLE SILVER ISOTOPE FRACTIONATION: A NEW
 TOOL FOR ANALYSIS OF ENVIRONMENTAL
 PROCESSES OF SILVER NANOPARTICLES
Dr. Qian Liu (Oral)
 Research Center for Eco-Environmental Sciences, CAS,
 China

17:00-18:00 **Poster Session (II)**

Time: Oct. 30, 2015 AM (Friday)

Location: Room 301B, China National Convention Center

Chairman: Dr. Tiangang Luan and Dr. Wen-Xiong Wang

8:30-9:00 H19 METAL SPECIATION IN AQUATIC ORGANISMS AND ECOTOXICOLOGICAL IMPLICATION
Dr. Wen-Xiong Wang(Invited)
 Hong Kong University of Science and Technology, China

9:00-9:20 H20 VARIATION OF PCDD/Fs DURING ASIA-PACIFIC ECONOMIC COOPERATION (APEC) SUMMIT
Dr. Qinghua Zhang (Oral)
 Research Center for Eco-environmental Sciences, CAS, China

9:20-9:40 H21 APPLICATION OF ULTRASOUND FOR PAHS EXTRACTION BASED ON SOLIDIFIED FLOATING ORGANIC DROP MICROEXTRACTION
Dr. Kegang Zhang(Oral)
 North China Electric Power University, China

9:40-9:50 **Coffee Break**

9:50-10:20 H22 COUPLING MICROEXTRACTION TECHNIQUES WITH AMBIENT MASS SPECTROMETRY FOR ENVIRONMENTAL AND BIOLOGICAL ANALYSIS
Dr. Tiangang Luan(Invited)
 Sun Yat-Sen University, China

10:20-10:50 H23 CONTINUOUS-FLOW CHEMILUMINESCENCE APPROACH TO DETECT THE ROS GENERATION IN PHOTOCATALYTIC TiO₂ SUSPENSION
Dr. Lixia Zhao(Invited)
 Research Center for Eco-environmental Sciences, CAS, China

10:50-11:10 H24 ELECTROCHEMICAL SENSOR FOR BISPHENOL A DETERMINATION BASED ON ELECTRO-DEPOSITION OF CARBON DOTS MODIFIED CARBON PASTE ELECTRODE
Dr. Sathisha Tammanekar Veerabhadrapa (Oral)
 Research Center for Eco-environmental Sciences, CAS, China

11:10-11:20 **Poster Awards/Closing Remarks**

POSTER SESSION

Time: Oct. 28, 2015 PM (Wednesday)

Location: Near booth No. 52 of the Exhibition Area

FLUORESCENT SWITCH FOR THROMBIN DETECTION BASED ON DYE-LABELED APTAMER PROBES

Qiang ZHAO¹, Lihua HAO², Yingxiong LIU²

H25 ¹State Key Laboratory of Environmental Chemistry and
Ecotoxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, P. R. China

²Institute of Environmental Science, College of Chemistry and
Chemical Engineering, Shanxi University, Taiyuan, 030006, China

DETERMINATION OF NITRATED POLYCYCLIC AROMATIC HYDROCARBONS IN ENVIRONMENTAL AQUEOUS SAMPLES BY DISPERSIVE LIQUID-LIQUID MICROEXTRACTION TECHNIQUE COUPLED WITH GAS CHROMATOGRAPHY-NEGATIVE ION CHEMICAL IONIZATION MASS SPECTROMETRY

H26 Ming Han YANG¹, Yu Chieh WANG¹, Yu Yun SUN², Youn Yuen
SHU^{1*}

¹Department of Chemistry, National Kaohsiung Normal University,
Kaohsiung 824, Taiwan

²Department of Fashion and Cosmetology, Tung Fan Design Institute,
Kaohsiung 829, Taiwan

BIOSYNTHESIS, CHARACTERIZATION AND CATALYTIC APPLICATION OF SILVER NANOPARTICLES

H27 Bing GUI, Can HUO, Qiming HAN, Chungang YUAN*

School of Environmental Science & Engineering, North China
Electric Power University, Baoding 071003, China

MERCURY SPECIATION IN DESULFURIZATION GYPSUM FROM COAL-FIRED POWER PLANTS

Xing DIAO¹, Bing GUI¹, Kegang ZHANG¹, Cheng
ZHANG², Chungang YUAN^{1*}

H28 ¹School of Environmental Science & Engineering, North China
Electric Power University, Baoding 071003, China

²State Key Laboratory of Coal Combustion, Huazhong University of
Science and Technology, Wuhan, 430074, P.R. China

- H29 PREPARATION OF NANOFIBER COMPOSITE FOR HG(II) REMOVAL IN WATER BY ELECTROSPINING
Shiwei GUO, Xianmei ZHANG, Chungang YUAN*
School of Environmental Science & Engineering, North China Electric Power University, Baoding 071003, China
- H30 APPLICATION OF ULTRASOUND FOR PAHS EXTRACTION BASED ON SOLIDIFIED FLOATING ORGANIC DROP MICROEXTRACTION
Kegang ZHANG, Xiaofang SONG, Tingting LI, Chungang YUAN
School of Environmental Science & Engineering, North China Electric Power University. Baoding 071003, China
- H31 MODULATION ON THE BIODEGRADATION OF SINGLE-WALLED CARBON NANOTUBES IN MACROPHAGES THROUGH RESPIRATORY BURST
Jie HOU, Bin WAN*, Lianghong GUO*
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H32 MODULATION ON THE BIODEGRADATION OF SINGLE-WALLED CARBON NANOTUBES IN MACROPHAGES THROUGH RESPIRATORY BURST
Jie HOU, Bin WAN*, Lianghong GUO*
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H33 STUDY ON ENDOCYTOSIS AND EXOCYTOSIS OF SINGLE-WALLED CARBON NANOTUBES IN MACROPHAGES
Xuejing CUI, Bin WAN*, Lianghong GUO*
State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H34 ASSESSMENT OF THE BINDING OF FATTY ACIDS TO GPR40 BY CELL-BASED FLUORESCENCE COMPETITION ASSAY
Xiaomin REN, Linying CAO, Lianghong GUO*
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

- H35 ONE-STEP FABRICATION OF HIGH QUANTUM YIELD SULFUR-DOPED, NITROGEN-RICH, CARBON DOTS FOR SENSITIVE DETECTION OF CR (VI)
Saihua WANG, Hongyun NIU, Yaqi CAI
State Key Laboratory of Environmental Chemistry and Ecotoxicology of Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H36 PERFLUOROALKYL ACIDS BIND DIRECTLY WITH SHP-2 PHOSPHATASE AND MODULATE PROTEIN PHOSPHORYLATION LEVEL IN HEPG2 CELLS
Yu YANG, Qiyan LV, Bin WAN, Lianghong GUO*
State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H37 IN SITU CHARACTERIZING BINDING SITES AND DISTRIBUTION OF TYPICAL ORGANIC COMPOUNDS IN SOILS USING SYNCHROTRON BASED SPECTROMICROSCOPIES
Lei LUO, Jitao LV, Zien CHEN, Shuzhen ZHANG
State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H38 DETECTION OF AND DEGRADATION OF ENVIRONMENTAL POLLUTANTS BASED ON $\text{Fe}_3\text{O}_4@\text{Au}$ NANOPARTICLES
Jingjing DU, Chuanyong JING*
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H39 MOLECULAR FRACTIONATION OF DISSOLVED ORGANIC MATTER INDUCED BY ADSORPTION ON IRON OXYHYDROXIDES
Jitao LV, Shuzhen ZHANG, Songshan WANG, Lei LUO
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

THE DISTRIBUTION, DEGRADATION AND FATE OF
ORGANOPHOSPHATE ESTERS IN AN ADVANCED MUNICIPAL
SEWAGE TREATMENT PLANT

H40

Kang LIANG, Jingfu LIU*

State Key Laboratory of Environmental Chemistry and
Eco-toxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China

VITAMIN E ATTENUATES SILVER NANOPARTICLE-INDUCED
AFFECTS ON NEUROTOXICITY IN RATS

H41

Nuoya YIN, Xinglei YAO, Francesco FAIOLA*

State Key Laboratory of Environmental Chemistry and
Eco-toxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China

A NOVEL CHEMILUMINESCENCE IMMUNOASSAY FOR
BISPHENOL A DETECTION BASED ON LUMINESCENT
OXYGEN CHANNELING AND ALPHALISA TECHNOLOGY

H42

Changjiang HOU, Lixia ZHAO*, Lianghong GUO*

State Key Laboratory of Environmental Chemistry and
Eco-toxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China

SENSITIVE DETECTION OF APURINIC/APYRIMIDINIC SITES
BY ELECTROCHEMILUMINESCENCE SENSOR

H43

Rui FENG, Yiping WU, Gang LIANG, Lianghong GUO

State Key Laboratory of Environmental Chemistry and
Eco-toxicology, Research Center for Eco-environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China

TEMPORAL AND SPATIAL DISTRIBUTION OF ORGANOPHOSPHATE ESTER FLAME RETARDANTS AND PLASTICIZERS IN SEDIMENT OF GREAT LAKES:

LAKES ONTARIO, MICHIGAN AND SUPERIOR

Dandan CAO¹, Jiehong GUO², Yawei WANG*,¹, Zhuona LI², Kang LIANG¹, Solidea BONINA³, Margaret B. CORCORAN⁴, Soheil HOSSEINI³, Andy L. SANDY², Karl J. ROCKNE³, Neil C. STURCHIO⁴, John P. GIESY⁵, Jingfu LIU¹, An LI*,², Guibin JIANG¹

¹State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

²School of Public Health, University of Illinois at Chicago, Chicago, Illinois 60612, USA

³Department of Civil and Materials Engineering, University of Illinois at Chicago, Chicago, Illinois, USA

⁴Department of Earth and Environmental Sciences, University of Illinois at Chicago, Chicago, Illinois, USA

⁵Department of Veterinary Biomedical Sciences and Toxicology Centre, University of Saskatchewan, Saskatoon, Saskatchewan, Canada

H44

RAMAN SPECTROSCOPY FOR COLORECTAL CANCER DIAGNOSTICS

Wenjing LIU, Chuanyong JING*

¹State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center of Eco-Environmental Sciences, Chinese Academy of Science, Beijing 100085, China

H45

PRECISE DETERMINATION OF ZINC STABLE ISOTOPE RATIOS BY MULTICollector-INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY IN ENVIRONMENTAL SAMPLES

Dawei LU, Qian LIU, Guibin JIANG

State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

H46

- B47** MEASUREMENT OF PERFLUOROALKYL ACIDS IN HUMAN SERUM USING ON-LINE SPE-HPLC-MS/MS
 Ke GAO^{1,2}, Yili LI^{1,2}, Jianjie FU¹, Aiqian ZHANG¹
¹State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China
²University of Chinese Academy of Sciences, Beijing, 100085, China
- H48** IDENTIFICATION OF THREE NOVEL TETRABROMOBISPHENOL-S BYPRODUCTS IN MOLLUSKS BY ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-ORBITRAP FUSION HIGH-RESOLUTION MASS SPECTROMETRY
 Aifeng LIU, Yong TIAN, Nuoya YIN, Jianbo SHI*, Guibin JIANG
 State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, P.O. Box 2871, Beijing 100085, China
- H49** STUDY OF SEPARATION, CHARACTERIZATION AND DISSOLUTION OF SILVER NANOPARTICLES BY CE-ICP-MS
 Lihong LIU, Qian LIU, Bin HE, Guibin JIANG*
 State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H50** ASSESSMENT OF THE BINDING OF BISPHENOL ANALOGS TO GPR30 BY CELL-BASED FLUORESCENCE COMPETITION METHOD
 LinYing CAO, XiaoMin REN*, LiangHong GUO*
 State Key Laboratory of Environmental Chemistry and Eco-toxicology, Research Center for Eco-environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- H51** COMPARISON OF ADSORPTIVE PERFORMANCE OF ATMOSPHERIC BTEX BETWEEN TENAX-TA AND ACTIVATED CARBON
 Hua YANG, Jingming QU, Kai JIA
 Beijing Center for Physical and Chemical Analysis, Beijing 100089, China

METHYL SILOXANES IN NIPPLES AND THEIR POTENTIAL
MIGRATION IN ARTIFICIAL SALIVA

- H52 Liqin ZHI, Lin XU, Yaqi CAI
State Key Laboratory of Environmental Chemistry and
Eco-toxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China

IONIC LIQUID-BASED ZINC OXIDE NANOFLUID FOR
VORTEX ASSISTED LIQUID LIQUID MICROEXTRACTION OF
INORGANIC MERCURY IN ENVIRONMENTAL WATERS

- Meseret AMDE^{1,2}, Jingfu LIU¹, Zhiqiang TAN, Deribachew
BEKANA^{1,2}
H53 ¹State Key Laboratory of Environmental Chemistry and
Ecotoxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, P. O. Box 2871, Beijing 100085,
China
²University of Chinese Academy of Sciences, Beijing 100049, China

ANALYSIS OF FLUOROTELOMER ALCOHOLS BY GAS
CHROMATOGRAPHY WITH MASS SPECTROMETRY

- Zhongmin LI, Lianghong GUO*
H54 State Key Laboratory of Environmental Chemistry and
Eco-toxicology, Research Center for Eco-Environmental Sciences,
Chinese Academy of Sciences, Beijing 100085, China

PASSIVE SAMPLING OF 1,3-BUTADIENE AND OTHER
HAZARDOUS POLLUTANTS IN AIR USING THE UNIQUE
RETENTION PROPERTIES OF GRAPHITIZED CARBON

- H55 Jamie L. BROWN, Olga I. SHIMELIS, Michael R. HALPENNY,
Michael YE
Supelco, Division of Sigma-Aldrich, Bellefonte, PA 16823, USA

RAPID SCREENING OF DRUGS IN URINE BY EESI-MS

- Tenggao ZHU¹, Yongzi LIU², Peng ZHOU¹, Xinglei ZHANG¹, Huian
ZHAO², Huanwen CHEN¹
H56 ¹Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation,
East China Institute of Technology, Nanchang, Jiangxi Province,
330013 P. R. China
²Jiangxi of Forensic Science Institute, Nanchang, Jiangxi Province,
330006 P. R. China

ULTRAFAST HIGH-RESOLUTION SEPARATION OF BIOPOLYMERS UNDER GRADIENT ELUTION AND ITS FAST SEPARATION BY HPLC

Yicong YANG¹, Xiaohui, NING², Jianshan WANG¹, Meng YU¹, Yongjun LU³, Lili WANG¹, Quan BAI¹, Xindu GENG^{*,1}

H57

¹Institute of Modern Separation Science, Shaanxi Provincial Key Laboratory, Northwest University, Xi'an, 710069, China

²The Shaanxi Provincial Key Laboratory of Electroanalytical Chemistry

³Xian Aolan Science and Technology Development Company, R 0810, Danfeng Guoji, 4th Road, Gaoxin District, Xi'an, 710075, China

SCHEDULE OF SESSIONS

I. CHEMICAL METROLOGY AND REFERENCE MATERIALS

CHAIRMAN: Prof. XiangFANG

ORALLECTURES

Time: Oct. 28, 2015 PM (Wednesday)

Location: Room 308, China National Convention Center, Beijing

Chairman: Prof. Hongmei LI, Dr. Paola FISICARO

		DEVELOPMENT OF ISOTOPE DILUTION MASS SPECTROMETRY METHOD
13:30-14:00	I2	Prof. Hongmei LI Director, Division of Chemical Metrology & Analytical Science/National Institute of Metrology P. R. China (NIM)
		CRMS FOR CLINICAL CHEMISTRY
14:00-14:30	I3	Dr. Derek CRASTON Chief Scientific Officer and Government Chemist, Science & Innovation LGC
		CLINICAL GRADE STEM CELL LINES AND BANKING
14:30-15:00	I4	Dr. Qi ZHOU Professor, Director of the State Key Laboratory of Reproductive Biology, and Deputy Director of the Institute of Zoology, CAS.
15:00-15:30		Coffee Break

Chairman: Prof.Hongmei LI, Dr.Paola FISICARO

15:30-16:00 15 HOW TO INCREASE IMPACT OF RESEARCH
ACTIVITIES IN METROLOGY: THE EXAMPLE OF
SOME JOINT RESEARCH PROJECTS IN THE FIELD OF
CHEMISTRY

Dr.Paola FISICARO

Biomedical and Inorganic Chemistry Department Laboratoire
national de métrologie et d'essais, LNE

16:00-16:30 16 INNOVATIVE PROCEDURES IN PARTICLE ANALYSIS:
THE CORRELATIVE MICROSCOPY APPROACH

Dr.Uri ADMON

Retiree of Israel Atomic Energy Commission - NRCN
Department of Materials

Time: Oct. 29, 2015 AM (Thursday)

Location: Room 308, China National Convention Center, Beijing

Chairman: Dr.Zoltan MESTER, Dr.Jun WANG

8:30-9:00 17 DEVELOPMENT OF ISOTOPIC CERTIFIED REFERENCE
MATERIALS BY A METROLOGICAL APPROACH

Dr.Jun WANG

Research fellow Head of Inorganic Chemistry Laboratory
Chemical Metrology and Analytical Science Division
National Institute of Metrology P. R. China

9:00-9:30 18 CARBAMIDOMETHYLATION-BASED STABLE
ISOTOPE LABELING FOR QUANTITATIVE
DETERMINATION OF TARGETED PROTEIN AND ITS
APPLICATION TO SERUM N-GLYCOPROTEOME

Dr.Dukjin KANG

Principal Researcher, Center for Bioanalysis,
Division of Metrology for Quality of Life,
Korea Research Institute of Standard and Science

9:30-10:00 19 EVALUATING MEASUREMENT UNCERTAINTY USING
REFERENCE MATERIALS

Dr.Adriaan (A.M.H.) van der VEEN

Director of Mass and Chemistry laboratories, Dutch
Metrology Institute

10:00-10:30

Coffee Break

Chairman: Dr.Zoltan MESTER, Dr.Jun WANG

- 10:30-11:00 I10 **CANADIAN CRM PROGRAM: FROM CONTAMINANTS TO ENGINEERED NANO MATERIALS**
Dr.Zoltan MESTER
Secretary Analytical Chemistry Division, International Union of Pure and Applied Chemistry (IUPAC)
- 11:00-11:30 I11 **PREPARATION OF STRONTIUM-90 PINE NEEDLE REFERENCE MATERIAL AND LABS COMPARISON ANALYSIS**
Dr.Yanqin JI
Professor, Director of Radiochemical Division, National Institute for Radiological Protection (NIRP), China CDC & Chinese Center for Medical Response to Radiation Emergency.

Time: Oct. 29, 2015 PM (Thursday)

Location:Room 308, China National Convention Center, Beijing

Chairman: Dr.MichelaSEGA, Prof.YipingREN

- 13:30-14:00 I12 **THE NEW PROGRESS OF PROTEIN QUANTITATIVE DETECTION TECHNOLOGY IN FOOD**
Prof.YipingREN
Professor and Chief Scientist of Zhejiang Provincial Centre for Disease Control and Prevention (Zhejiang CDC) Hangzhou, China
- 14:00-14:30 I13 **LIBRARIES CAN ILLUMINATE THE ‘DARK MATTER’ OF MASS SPECTROMETRY**
Dr.Stephen E. STEIN
Group Leader and Director of the NIST Mass Spectrometry Data Center in the Biomolecular Measurement Division, Material Measurement Laboratory, National Institute of Standards and Technology.
- 14:30-15:00 I14 **CYSTATIN C AND HDL TRACEABILITY RESEARCH**
Dr.Jun GONG
Project Manager in Molecular Biology Group, R&D Sector Beijing Strong Biotechnology Company
- 15:00-15:30 **Coffee Break**

Chairman: Dr.MichelaSEGA, Prof.YipingREN

STABLE ISOTOPE ANALYSIS FOR FOOD SAFETY

Dr.Hai LU

15:30-16:00 I15

PhD in analytical chemistry. Associated research follow of
National Institute of Metrology, China.

EUROPEAN JOINT RESEARCH PROGRAMMES IN
METROLOGY: SUCCESSFUL EXAMPLES FROM
METROLOGY IN CHEMISTRY

Dr.MichelaSEGA

16:00-16:30 I16

Researcher at Istituto Nazionale di Ricerca Metrologica -
INRiM

POSTER SESSION

Time: Oct. 28, 2015, PM (Wednesday) - Oct. 29, 2015 (Thursday)

Location: Near booth No. 52 of the Exhibition Area

- I17 QUANTIFICATION OF HUMAN GROWTH HORMONE BY ISOTOPE DILUTION MASS SPECTROMETRY AND THE EVALUATION OF UNCERTAINTY
Youxun JIN, Lianhua SHI, Liqing WU
Division of Medical and Biological Measurements, National Institute of Metrology, No. 18 Bei San Huan Dong Lu, Chaoyang District, Beijing, 100013, China
- I18 QUANTIFICATION OF HUMAN LEPTIN BY ISOTOPE DILUTION MASS SPECTROMETRY
Dewei SONG, Xueqing SUN
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China.
2 College of Science, Beijing University of Chemical Technology, Beijing 100029, China
- I19 DETERMINATION OF K, Ca AND Mg IN HUMAN SERUM BY FLAME ATOMIC ABSORPTION SPECTROPHOTOMETRY (FAAS)
Yanjie CUI¹, Liuxing FENG¹, Xue CHEN², Jing GUO, Jun WANG
1 National Institute of Metrology, P.R. China, Beijing 100029, China
2 Beijing University of Chemical Technology, Beijing 100029, China
- I20 THE CENTRAL LAW OF MEASUREMENT OF THE AMOUNT OF SUBSTANCE
Hong YI ¹, Wei YI ²
1 Division of Metrology in Chemistry, National Institute of Metrology, Beijing 100013, P. R. China
2 Department of Biology, New York University, NY, NY 10003, USA
- I21 QUANTITATIVE ANALYSIS OF THE FOLIC ACID FOLLOWING SEPARATION AND PURIFICATION BY HPLC METHOD
Na LI², Ting HUANG^{*1}, Yue PANG², Dewei SONG¹, Yi YANG²
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China.
2 College of Science, Beijing University of Chemical Technology, Beijing 100029, China

- I22 AN EFFICIENT GC-IDMS METHOD FOR THE DETERMINATION OF PBDES IN COMPLEX SERUM SAMPLES
Shanjun SONG, Mingwu SHAO
National Institute of Metrology, China.
- I23 DEVELOPMENT OF CERTIFIED REFERENCE MATERIALS OF DRUG ABUSE (HEROIN, ETC) FOR ELIMINATION OF MEASUREMENT ERROR IN FORENSIC DRUGS
Fuhai SU
National Institute of Metrology, No. 18 Beisanhuan Donglu, Chaoyang Dist, Beijing, 100029, PR China
- I24 DETERMINATION OF TRANSFERRIN, ALBUMIN AND ELECTROLYTES IN HUMAN SERUM CRM BY USING ISOTOPE DILUTION HPLC/LASER ABLATION-ICP-MS
Liuxing FENG, Dan ZHANG, Jun WANG, Hongmei LI, Jing GUO
Division of Metrology in Chemistry, National Institute of Metrology, Beijing, China.
- I25 DETERMINATION OF C-PEPTIDE BY ISOTOPE DILUTION MASS SPECTROMETRY
Xing GAO¹, Dewei SONG¹, Chunli ZHANG², Yu LIU¹, Tianji ZHANG¹, Peng XIAO¹ and Ting HUANG¹
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China
2 College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China
- I26 PREPARATION EVALUATION OF INFANT MILK POWDER REFERENCE MATERIAL CONTAINING 10 INORGANIC ELEMENTS
Jing GUO ¹, Xiao-hua LU ¹, Xiao-cui LI ², Rong HU ³, Ying KAN ¹, Chao WEI ¹
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China
2. College of Science, Beijing University of Chemical Technology, Beijing, 100029, China
3. China Shenzhen Academy of Metrology & Quality Inspection, Shenzhen, 518055, China

- I27 THE QUANTIFICATION OF HUMAN CHORIONIC GONADOTROPIN BY TWO ISOTOPE DILUTION MASS SPECTROMETRY METHODS
Ting HUANG^{1*}, Xiaoguang ZHANG², Dewei SONG¹, Liqing WU¹, Xiaomin LI¹, Yi YANG², Can Quan¹ and Hongmei LI¹
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China.
2 College of Science, Beijing University of Chemical Technology, Beijing 100029, China
- I28 IDENTIFICATION AND QUANTIFICATION OF THE PEPTIDE IMPURITIES IN SYNTHETIC HUMAN C-PEPTIDE (HCP)
Yu LIU¹, Dewei SONG¹, Xing GAO², Chunli ZHANG³, Peng XIAO¹, Tianji ZHANG¹, Ting HUANG¹
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China.
2 Beijing University of Chinese Medicine, Beijing 100029, China.
3 Beijing University of Chemical Technology, Beijing 100029, China.
- I29 INTERNATIONAL COMPARISON APMP.QM-S8: DETERMINATION OF BENZOIC ACID, METHYL PARABEN AND n-BUTYL PARABEN IN SOY SAUCE
Zhen GUO, Xiuqin LI, Qinghe ZHANG
National Institute of Metrology, Beijing 100013, China
- I30 THE PURIFICATION AND QUANTIFICATION OF THE RECOMBINATION OF CARDIAC TROPONIN I(cTnI)
Chunli ZHANG², Dewei SONG¹, Wei SUN², Xing GAO¹, Yu LIU¹
1 Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, China.
2 College of Science, Beijing University of Chemical Technology, Beijing 100029, China

DETERMIANTION OF IMPURITIES IN URANIUM

TETRAFLUORIDE BY ICP-MS WITH VACUUM ASSISTED

SEPARATION

I31

Dongfa GUO, Jing TAN, Mingyan ZHU, Shengkai XIE, Boping LI,
Jianyong CUI

Analytical Laboratory, Beijing Research Institute of Uranium
Geology. No.10 Anwai Xiaoguan Dongli, Beijing 100029, Chaoyang
District, Beijing, China

THE CALIBRATION METHOD OF GAS CHROMATOGRAPHY-
TANDEM TRIPLE QUADRUPOLE MASS SPECTROMETER

Haihong HE, Weihua WANG Mingwu SHAO

I32

Chemical Metrology & Analytical Science Division, National
Institute of Metrology, Beijing100029, China

PARTICIPATION OF IAEA-TEL-2015-01 WORLDWIDE

PROFICIENCY TEST ON THE DETERMINATION OF

SELECTED TRACE ELEMENTS IN DRINKING WATER BY

ICP-MS

I33

Shengkai XIE, Dongfa GUO, Jing TAN

Analytical Laboratory, Beijing Research Institute of Uranium
Geology, 100029, Beijing

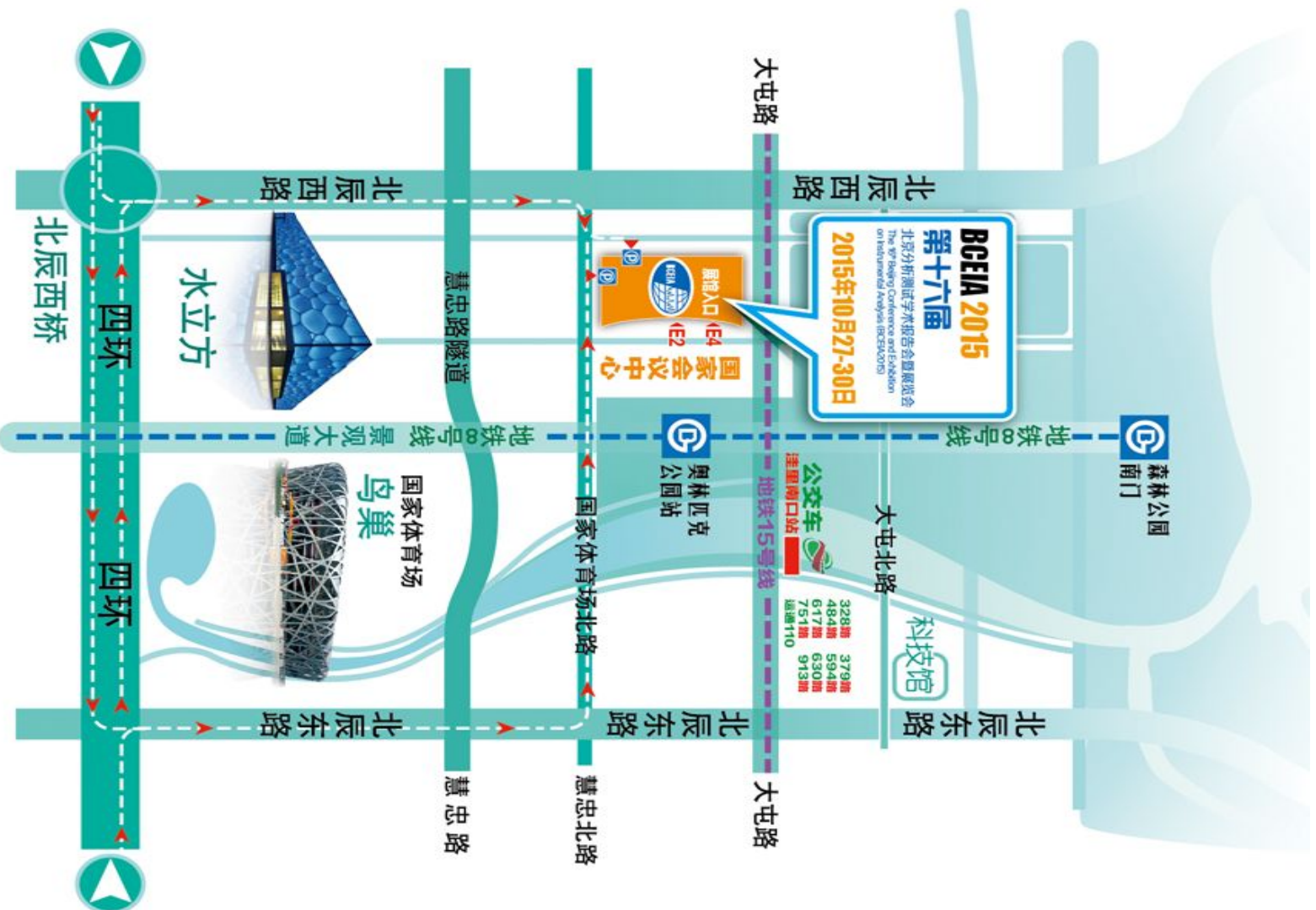
APPENDIX

SHUTTLE BUSES BETWEEN HOTELS AND CONFERENCE ROOM

No.	Time	Depart Place	Destination
1	10.27-10.308:00 AM	北京民族园智选假日酒店 Holiday inn express beijing minxuyuan	国家会议中心 China National Convention Center, Beijing
2	10.27-10. 29 17:00 PM	国家会议中心 China National Convention Center, Beijing	北京民族园智选假日酒店 Holiday inn express beijing minxuyuan
3	10.27-10.30 8:00 AM	北京中奥凯富国际酒店 Comfort Suites Hotel Beijing	国家会议中心 China National Convention Center, Beijing
4	10.27-10.29 17:00 PM	国家会议中心 China National Convention Center, Beijing	北京中奥凯富国际酒店 Comfort Suites Hotel Beijing
5	10.27-10.308:00 AM	北京亚运村宾馆 Beijing yayuncun hotel	国家会议中心 China National Convention Center, Beijing
6	10.27-10.2917:00 PM	国家会议中心 China National Convention Center, Beijing	北京亚运村宾馆 Beijing yayuncun hotel

SHUTTLE BUSES BETWEEN HOTELS AND CONFERENCE ROOM

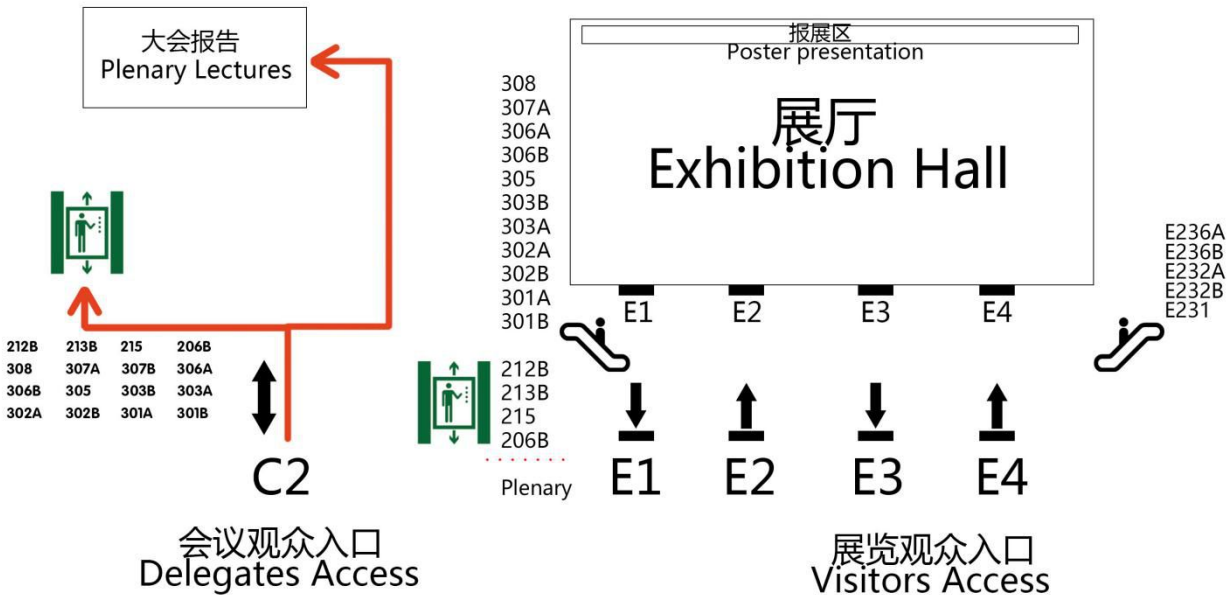
No.	Time	Depart Place	Destination
7	10.27-10.308:00 AM	北京隆格酒店 LONG GE hotel	国家会议中心 China National Convention Center, Beijing
8	10.27-10.2917:00 PM	国家会议中心 China National Convention Center, Beijing	北京隆格酒店 LONG GE hotel
9	10.27-10.308:00 AM	北京外国专家大厦 Beijing Foreign Experts Building	国家会议中心 China National Convention Center, Beijing
10	10.27-10.2917:00 PM	国家会议中心 China National Convention Center, Beijing	北京外国专家大厦 Beijing Foreign Experts Building
11	10.27-10.308:00 AM	北京亚奥国际酒店 Best Western Olympic Hotel Beijing	国家会议中心 China National Convention Center, Beijing
12	10.27-10.2917:00 PM	国家会议中心 China National Convention Center, Beijing	北京亚奥国际酒店 Best Western Olympic Hotel Beijing



▶ N

会议区
Convention Center

展览区
Exhibition Center

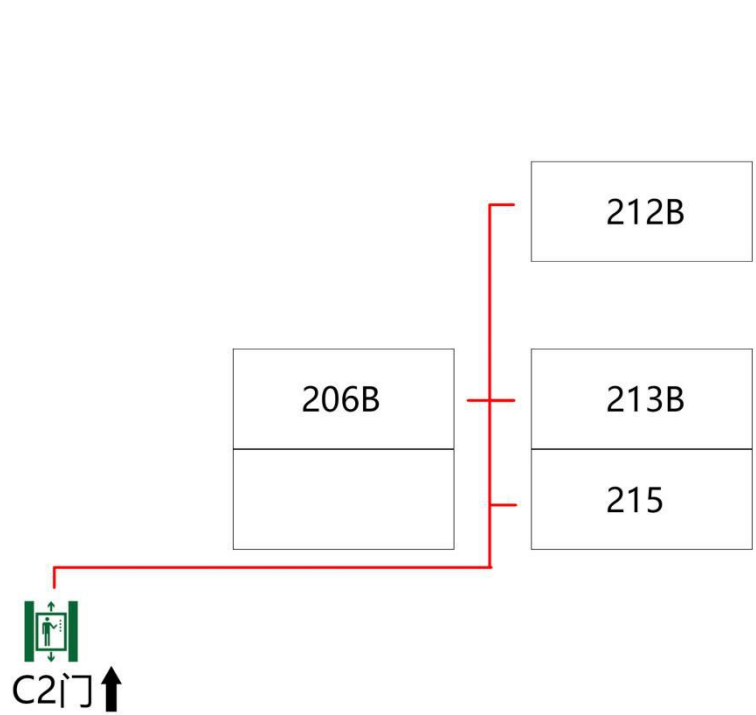


天辰东路
Tianchen East Road

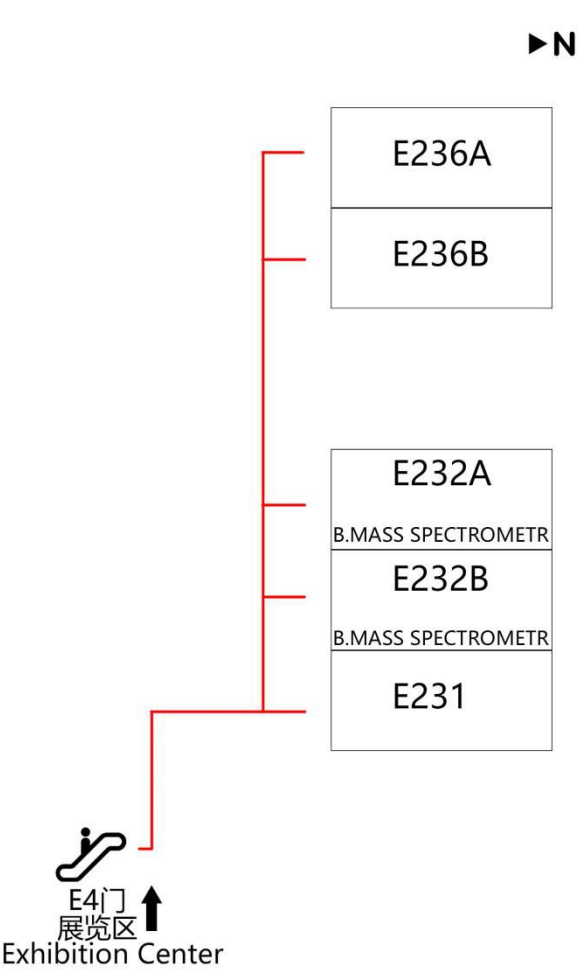
国家会议中心一层平面图
Floorplan of Level 1
China National Convention Center

● 地铁8号线 E口
Subway Line 8
Entrance E

● 地铁8号线 A口
Subway Line 8
Entrance A



国家会议中心二层平面图
Floorplan of Level 2
China National Convention Center



► N

A.ELECTRONMICROSCOPY & MATERIAL SCIENCES
C.OPTICAL SPECTROSCOPY
F.ELECTROANALYTICAL CHEMISTRY
E.MAGNETIC RESONANCE
D.CHROMATOGRAPHY
H.ENVIRONMENTAL ANALYSIS
G.ANALYTICAL TECHNIQUES IN LIFE SCIENCES

305

303B

303A

302B

302A

301B

301A

308

I.CHEMICAL METROLOGY
AND REFERENCE MATERIALS

307A

306B

B.MASS SPECTROMETR

306A

B.MASS SPECTROMETR



C2 ↑



展览区
Exhibition Center

E2 ↑

国家会议中心三层平面图
Floorplan of Level 3
China National Convention Center