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FOREWORD

Welcome to the Fifteenth Beijing Conference
and Exhibition on Instrumental Analysis (BCEIA 2013)

Prof. Yuying Zhang
Chairman, Organizing Committee
Vice President, BCEIA 2013
October 10, 2013

The fifteenth Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2013), 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. 23 to 26, 2013 with its conference at Hotel Nikko New Century Beijing and its exhibition at Beijing Exhibition Center, and with Dr. Weizhong Wang Vice Minister of the Ministry of Science and Technology, PRC, as its President, Prof. Guibin GIANG, Academician, Chinese Academy of Sciences, as its Chairman of Scientific Committee.

Beginning from 1985, the BCEIA, a biennial event, has held successively and successfully fourteen times. It is this year the worth celebrating 29th 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 2013 Conference will proceed with a plenary session, separate sub-sessions of seven fields of Mass Spectrometry, Spectroscopy, Chromatography, Magnetic Resonance, Electro-analytical Chemistry, Life Science and Environmental Analysis and workshops of four fields of Metallomics, Proteomics, Nanotechnology for Analysis, Chemical Metrology and Reference Materials. The theme of BCEIA 2013 will be "Analytical Science Create 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. There will be scholars from 23 countries and regions attending with 682 contributions.

With respect to the exhibition on analytical instrument, this year, BCEIA will enjoy unprecedented participation of domestic and foreign exhibitors with larger scale than the previous one. There will be 10 exhibition halls, standard booth 807, and 21,268 square meters, and 364 instrument manufacturers from 17 countries and regions, of which: 94 foreign exhibitors, booth 270; 270 domestic exhibitors, booth 537 to display the latest, high-level products, including: instruments, equipment, reagents, software and services. Well-known analytical instruments magazines, publishers and online media will also be participating.

We believe that BCEIA 2013 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 2013 then!

ORGANIZATION

President of BCEIA 2013

Weizhong WANG Vice-Minister of the Ministry of Science and Technology,
PRC

Vice President of BCEIA 2013

Ze ZHANG Academician of Chinese Academy of Sciences, President of
CAIA

Yukui ZHANG Academician of Chinese Academy of Sciences, Vice
President of CAIA

Guibin JIANG Academician of Chinese Academy of Sciences, Research
Center for Eco-Environmental Sciences, CAS

Xuemin ZHANG Academician of Chinese Academy of Sciences, Academy of
Military Medical Science

Hui DING Professor, Beijing Academy of Science and Technology, Vice
President of CAIA

Boer WU Vice President of CAIA

Guoqing DAI Vice President of CAIA

Yuying ZHANG Vice President and General Secretary of CAIA

Organizing Committee of BCEIA 2013

Chairman

Yuying ZHANG Vice President and General Secretary of CAIA

Vice Chairman

Qiankun ZHUANG Professor, National Natural Science Foundation of China

Yulin DENG Professor, Beijing Institute of Technology

Hongmei LI Professor, National Institute of Metrology, China

Secretariat of Organizing Committee of BCEIA 2013

Ruiping JIANG Professor, China Association for Instrumental Analysis
(CAIA)

Scientific Committee of BCEIA 2013

Chairman

Guibin JIANG Academician of Chinese Academy of Sciences, Research Center for Eco-Environmental Sciences, CAS

Vice Chairman

Ze ZHANG Academician of Chinese Academy of Sciences, President of CAIA

Yukui ZHANG Academician of Chinese Academy of Sciences, Vice President of CAIA

Members

K. W. Michael SIU Fellow of the Royal Society of Canada, York University, Canada

Fusheng WEI Academician of Chinese Academy of Engineering, China National Environmental Monitoring Center

Guofan JIN Academician of Chinese Academy of Engineering, Tsinghua University

Knut W. URBAN Professor, Institute of Solid State Research and Ernst Ruska Center for Microscopy and Spectroscopy with Electrons, Helmholtz Research Center Jülich, Germany

Hengqiang YE Academician of Chinese Academy of Sciences, Institute of Metal, CAS

R. Graham COOKS Professor, Purdue University, USA

Shuying LIU Professor, Changchun Institute of Applied Chemistry, CAS

Zeper ABLIZ Professor, Chinese Academy of Medical Sciences

Reinhard NIESSNER Professor, Technical University of Munich, Germany

Benli HUANG Academician of Chinese Academy of Sciences, Xiamen University

Xinrong ZHANG Professor, Tsinghua University

Karl-Siegfried BOOS Professor, Medical Center of the University of Munich, Germany

Peizhang LU Academician of Chinese Academy of Sciences, Dalian

	Institute of Chemical Physics, CAS
Edward S. YEUNG	Professor, Iowa State University, USA
Nobuo TANAKA	Professor, Kyoto Institute of Technology, Japan
Yunyu SHI	Academician of Chinese Academy of Sciences, China University of Science and Technology
X. Chris LE	Fellow of the Royal Society of Canada, University of Alberta, Canada
Erkang WANG	Academician of Chinese Academy of Sciences, Changchun Institute of Applied Chemistry, CAS
Hongyuan CHEN	Academician of Chinese Academy of Sciences, Nanjing University
Hubert H. GIRAULT	Professor, Ecole polytechnique fédérale de Lausanne, Switzerland
Yuanhua SHAO	Professor, Peking University
Fuchu HE	Academician of Chinese Academy of Sciences, Beijing Proteome Research Center
Liang LI	Professor, University of Alberta, Canada
Xiaohong QIAN	Professor, Beijing Proteome Research Center

Scientific Committee Working Group

Convenors

Yulin DENG	Professor, Beijing Institute of Technology
Lianghong GUO	Professor, Research Center for Eco-Environmental Sciences, CAS

Members

Dapeng YU	Professor, Peking University
Jinying LI	Professor, Chinese Mass Spectrometry Society
Jinming LIN	Professor, Tsinghua University
Guowang XU	Professor, Dalian Institute of Chemical Physics, CAS
Maili LIU	Professor, Wuhan Institute of Physics and Mathematics, CAS
Lanqun MAO	Professor, Institute of Chemistry, CAS
Jianwei XIE	Professor, Academy of Military Medical Sciences
Yongning WU	Professor, China National Center for Food Safety Risk Assessment

Qiuquan WANG	Professor, Xiamen University
Lihua ZHANG	Professor, Dalian Institute of Chemical Physics, CAS
Xingyu JIANG	Professor, National Center for Nanoscience and Technology
Zhengfan WANG	Professor, Consultative Committee, CAIA
Xiaogang CHU	Professor, Chinese Academy of Inspection and Quarantine
Ling LING	Professor, Beijing Advanced Materials promoting Center
Jinlan ZHANG	Professor, Institute of Materia Medica, Chinese Academy of Medical Sciences
Songcheng YANG	Professor, National Center of Biomedical Analysis
Liang DONG	Professor, National Research Center for Environmental Analysis and Measurement
Xuefei LV	Doctor, Beijing Institute of Technology

AGENDA OF PLENARY LECTURES

Time: Oct. 23, 2013 AM (Wednesday)		
Location: Century Hall, Hotel Nikko New Century Beijing		
Chairman: Prof. Yukui ZHANG		
8:30-8:40	Opening Speech by Prof. Guibin JIANG	
Chairman: Prof. Yulin DENG, Maili LIU		
8:40-9:10	S-H1	TITLE: MEASUREMENT OF NATURAL MERCURY ISOTOPE VARIATIONS AND ITS APPLICATION TO TRACE SOURCES OF MERCURY POLLUTION Prof. Holger HINTELMANN Trent University, Canada
9:10-9:40	S-B1	TITLE: EXPANDING THE BOUNDARIES OF MASS SPECTROMETRY: AMBIENT IONIZATION DURING SURGERY, ON-LINE REACTION MONITORING AND CHEMICAL SYNTHESIS ON THE PREPARATIVE SCALE Prof. R. Graham COOKS Purdue University, USA
9:40-10:10	S-C1	TITLE: TOOLS TO MEASURE D-AMINO ACID SIGNALING IN THE BRAIN Prof. Jonathan V. SWEEDLER University of Illinois at Urbana-Champaign, USA
10:10-10:40	W3-1	TITLE: NANO- AND QUANTUM-BIODEVICES FOR CANCER DIAGNOSIS, CANCER THERAPY, AND IPS CELL BASED REGENERATIVE MEDICINE Prof. Yoshinobu BABA Nagoya University, Japan
10:40-10:50	Coffee Break	
Chairman: Prof. Lianghong GUO, Lanqun MAO		
10:50-11:20	S-F1	TITLE: ELECTROCHEMISTRY AND MASS SPECTROMETRY IMAGING IN FLIES, CELLS, AND VESICLES Prof. Andrew EWING Chalmers University of Technology and the University of Gothenburg, Sweden

11:20-11:50	S-G1	TITLE: HIGH SPEED SINGLE CELL SPECTROSCOPY Prof. John P. NOLAN La Jolla Bioengineering Institute, USA
11:50-12:20	W5-1	TITLE: NIST ACTIVITIES IN BIOLOGICAL, FORENSIC AND MATERIALS SCIENCE Dr. Anne L. PLANT National Institute of Standards and Technology (NIST), USA
Time: Oct. 24, 2013 AM (Thursday)		
Location: Century Hall, Hotel Nikko New Century Beijing		
Chairman: Prof. Ze ZHANG, Jianwei XIE, Guowang XU		
8:30-9:00	S-H2	TITLE: Prof. Xianen ZHANG Ministry of Science and Technology of the People's Republic of China
9:00-9:30	S-D1	TITLE: PHARMACOMETABOLOMICS: GLOBAL BIOCHEMICAL APPROACH FOR DRUG RESPONSE PHENOTYPING Prof. Rima Kaddurah-DAOUK Duke University Medical Center, USA
9:30-10:00	S-F2	TITLE: ANALYTICAL CHALLENGES IN MOLECULAR ELECTRONICS Prof. Richard L. MCCREERY University of Alberta, Canada
10:00-10:30	S-G2	TITLE: SD CHIP FOR DIGITAL BIOLOGICAL MEASUREMENTS Prof. Daniel T. CHIU University of Washington, USA
10:30-10:40	Coffee Break	
Chairman: Prof. Zeper, Qiuquan WANG		
10:40-11:10	S-E1	TITLE: SURFACE ENHANCED NMR SPECTROSCOPY Prof. Lyndon EMSLEY Université de Lyon, France
11:10-11:40	W5-2	TITLE: THE AVOGADRO CONSTANT AND THE NEW DEFINITION OF KILOGRAM AND MOLE Dr. Peter BECKER Physikalisch-Technische Bundesanstalt (PTB), Germany

AGENDA OF SESSIONS

AGENDA OF SESSION B

B. MASS SPECTROMETRY

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	Posters Location: 3 rd Floor of the Hotel Nikko New Century Beijing B33-B100
	PM 14:00- 17:30	Oral Presentation Location: Sichuan Hall, 2 nd Floor, Hotel Nikko New Century Beijing B2, B3, B4, B5, B6, B7, B8, B9	
Oct. 25 (Fri.)	AM 8:30- 12:00	Oral Presentation Location: Sichuan Hall, 2 nd Floor, Hotel Nikko New Century Beijing B10, B11, B12, B13, B14, B15, B16, B17	
	PM 13:30- 17:00	Oral Presentation Location: Sichuan Hall, 2 nd Floor, Hotel Nikko New Century Beijing B18, B19, B20, B21, B22, B23, B24, B25	
Oct. 26 (Sat.)	AM 8:30- 11:30	Oral Presentation Location: Sichuan Hall, 2 nd Floor, Hotel Nikko New Century Beijing B26, B27, B28, B29, B30, B31, B32	
	PM	Conference Closed	

AGENDA OF SESSION C

C. OPTICAL SPECTROSCOPY

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:00	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:30	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
Oct. 24 (Thu.)	AM 8:30- 12:00	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	PM 13:30- 18:05	Oral Presentation Location: Hainan Hall, 2 nd Floor, Hotel Nikko New Century Beijing K1, K2, K3, IO1, O1, K4, K5, K6, K7, IO2, IO3, IO4, IO5, O2	Poster I Location: 2 nd Floor, Hotel Nikko New Century Beijing PC0—PC34
Oct. 25 (Fri.)	AM 8:30- 12:00	Oral Presentation Location: Hainan Hall, 2 nd Floor, Hotel Nikko New Century Beijing K8, K9, IO6, IO7, IO8, O3, K10, K11, K12	Poster II Location: 2 nd Floor, Hotel Nikko New Century Beijing PC35—PC68
	PM 13:30- 18:10	Oral Presentation Location: Hainan Hall, 2 nd Floor, Hotel Nikko New Century Beijing IO9, IO10, IO11, IO12, IO13, O4, K14, IO14, IO15, IO16, IO17, IO18, IO19, IO20, IO21, IO22	

AGENDA OF SESSION D

D. CHROMATOGRAPHY

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	Posters Location: 3 rd floor of the Hotel Nikko New Century Beijing D42-D124
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	PM 13:30- 18:00	Oral Presentation Location: Shandong Hall, 2 nd Floor, Hotel Nikko New Century Beijing D2-D11	
Oct. 25 (Fri.)	AM 8:30- 11:50	Oral Presentation Location: Shandong Hall, 2 nd Floor, Hotel Nikko New Century Beijing D12-D20	
	PM 13:30- 18:00	Oral Presentation Location: Shandong Hall, 2 nd Floor, Hotel Nikko New Century Beijing D21-D31	
Oct. 26 (Sat.)	AM 8:30- 12:00	Oral Presentation Location: Shandong Hall, 2 nd Floor, Hotel Nikko New Century Beijing D32-D41	

AGENDA OF SESSION E

E. MAGNETIC RESONANCE

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	PM 14:00- 17:30	Oral Presentation Location: Jiangsu Hall, 2 nd Floor, Hotel Nikko New Century Beijing E2, E3, E4, E5, E6, E7, E8, E9	
Oct. 25 (Fri.)	AM 8:30- 11:55	Oral Presentation Location: Jiangsu Hall, 2 nd Floor, Hotel Nikko New Century Beijing E10, E11, E12, E13, E14, E15, E16, E17	
	PM 13:30- 18:00	Oral Presentation Location: Jiangsu Hall, 2 nd Floor, Hotel Nikko New Century Beijing E18, E19, E20, E21, E22, E23, E24	Posters Location: 2 nd Floor of the Hotel Nikko New Century Beijing E31-E46
Oct. 26 (Sat.)	AM 8:30- 11:25	Oral Presentation Location: Jiangsu Hall, 2 nd Floor, Hotel Nikko New Century Beijing E25, E26, E27, E28, E29, E30	
	PM	Conference Closed	

AGENDA OF SESSION F

F. ELECTROANALYTICAL CHEMISTRY

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	PM 13:30- 17:30	Oral Presentation Location: Guangdong Hall, 3 rd Floor, Hotel Nikko New Century Beijing F3, F4, F5, F6, F7, F8, F9, F10, F11, F12	
Oct. 25 (Fri.)	AM 8:30- 12:00	Oral Presentation Location: Guangdong Hall, 3 rd Floor, Hotel Nikko New Century Beijing F13, F14, F15, F16, F17, F18, F19, F20, F21	
	PM 13:30- 17:30	Oral Presentation Location: Guangdong Hall, 3 rd Floor, Hotel Nikko New Century Beijing F22, F23, F24, F25, F26, F27, F28	Poster Location: 2 nd Floor of the Hotel Nikko New Century Beijing F37 – F71
Oct. 26 (Sat.)	AM 8:30- 12:00	Oral Presentation Location: Guangdong Hall, 3 rd Floor, Hotel Nikko New Century Beijing F29, F30, F31, F32, F33, F34, F35, F36	
	PM	Conference Closed	

AGENDA OF SESSION G

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	PM 13:30- 17:40	Oral Presentation Location: Shanghai Hall, 3 rd Floor, Hotel Nikko New Century Beijing G3, G4, G5, G6, G7, G8, G9, G10, G11, G12	
Oct. 25 (Fri.)	AM 8:30- 11:50	Oral Presentation Location: Shanghai Hall, 3 rd Floor, Hotel Nikko New Century Beijing G13, G14, G15, G16, G17, G18, G19	
	PM 13:30- 17:20	Oral Presentation Location: Shanghai Hall, 3 rd Floor, Hotel Nikko New Century Beijing G20, G21, G22, G23, G24, G25, G26, G27, G28	Poster Location: 3 rd Floor of Hotel Nikko New Century Beijing G36-G101
Oct. 26 (Sat.)	AM 8:30- 11:30	Oral Presentation Location: Shanghai Hall, 3 rd Floor, Hotel Nikko New Century Beijing G29, G30, G31, G32, G33, G34, G35	

AGENDA OF SESSION H

H. ENVIRONMENTAL ANALYSIS

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	13:30- 18:00	Oral Presentation Location: Chongqing Hall, 3 rd Floor, Hotel Nikko New Century Beijing H2, H3, H4, H5, H6, H7, H8, H9	
Oct. 25 (Fri.)	AM 8:30- 11:20	Oral Presentation Location: Chongqing Hall, Hotel Nikko New Century Beijing H10, H11, H12, H13, H14, H15	Poster Session Location: 3 rd Floor of the Hotel Nikko New Century Beijing H30-H65
	PM 13:30- 18:00	Oral Presentation Location: Chongqing Hall, 3 rd Floor, Hotel Nikko New Century Beijing H16, H17, H18, H19, H20, H21, H66, H22, H23	
Oct. 26 (Sat.)	AM 8:30- 11:20	Oral Presentation Location: Chongqing Hall, 3 rd Floor, Hotel Nikko New Century Beijing H24, H25, H26, H27, H28, H29	
	AM 11:20- 11:30	Poster Awards/Closing Remarks Location: Chongqing Hall, 3 rd Floor, Hotel Nikko New Century Beijing	

AGENDA OF WORKSHOPS

AGENDA OF WORKSHOP 2

W2. METALLOMICS

Date	Time	Location & Activities
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1
	PM 13:30- 18:10	Oral Presentation Location: Nanjing Hall, 3 rd Floor, Hotel Nikko New Century Beijing W2-1, W2-2, W2-3, W2-4, W2-5, W2-6, W2-7, W2-8, W2-9
	18:10-18:15	Conference Closed

AGENDA OF WORKSHOP 3

W3. PROTEOMICS

Date	Time	Location & Activities
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1
Oct. 26 (Sat.)	AM 8:30- 11:35	Oral Presentation Location: Hainan Hall, 2 nd Floor, Hotel Nikko New Century Beijing W3-2, W3-3, W3-4, W3-5, W3-6, W3-7, W3-7
	PM 13:00- 17:25	Oral Presentation Location: Hainan Hall, 2 nd Floor, Hotel Nikko New Century Beijing W3-8, W3-9, W3-10, W3-11, W3-12, W3-13, W3-14, W3-15, W3-16, W3-17

AGENDA OF WORKSHOP 4

W4. NANOTECHNOLOGY FOR ANALYSIS

Date	Time	Location & Activities	
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration	
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1	
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center	
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing	
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1	
	PM 13:30- 17:15	Oral Presentation Location: Yunnan Hall, 3 rd Floor, Hotel Nikko New Century Beijing W4-1, W4-2, W4-3, W4-4, W4-5, W4-11, W4-12, W4-13, W4-14, W4-15, W4-16	Poster Location: 3 rd Floor of Hotel Nikko New Century Beijing
Oct. 25 (Fri.)	AM 8:30- 11:50	Oral Presentation Location: Yunnan Hall, 3 rd Floor, Hotel Nikko New Century Beijing W4-6, W4-7, W4-8, W4-9, W4-10, W4-17, W4-18, W4-19, W4-20	

AGENDA OF WORKSHOP 5

W5. CHEMICAL METROLOGY AND REFERENCE MATERIALS

Date	Time	Location & Activities
Oct. 22 (Tue.)	8:00- 24:00	Lobby, Hotel Nikko New Century Beijing Registration
Oct. 23 (Wed.)	AM 8:30- 12:20	Century Hall, Hotel Nikko New Century Beijing Opening Speech by Prof. Guibin JIANG BCEIA2013 General Plenary Session S-H1, S-B1, S-C1, W3-1, S-F1, S-G1, W5-1
	PM 13:30- 17:00	BCEIA2013 Exhibition Visit Location: Beijing Exhibition Center (Shuttle bus will be provided)
	18:30- 20:30	Welcoming Banquet Location: Hotel Nikko New Century Beijing
Oct. 24 (Thu.)	AM 8:30- 12:10	Century Hall, Hotel Nikko New Century Beijing BCEIA2013 General Plenary Session S-H2, S-D1, S-F2, S-G2, S-E1, W5-2, A-1
	13:30- 17:00	Oral Presentation Location: Zhejiang Hall, 2 nd Floor, Hotel Nikko New Century Beijing W5-3, W5-4, W5-5, W5-6, W5-7
Oct. 25 (Fri.)	AM 8:30- 12:00	Oral Presentation Location: Zhejiang Hall, 2 nd Floor, Hotel Nikko New Century Beijing W5-8, W5-9, W5-10, W5-11, W5-12
	PM 13:30- 17:00	Oral Presentation Location: Zhejiang Hall, 2 nd Floor, Hotel Nikko New Century Beijing W5-13, W5-14, W5-15, W5-16, W5-17

SCHEDULE OF SESSIONS

SCHEDULE OF SESSIONS

B.MASS SPECTROMETRY

CHAIRMAN: Prof. Jinying LI ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Sichuan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Zheng OUYANG and Prof. Akos VERTES

- | | | |
|-------------|----|--|
| | | SINGLE CELL AND TISSUE ANALYSIS BY MASS SPECTROMETRY WITH ION MOBILITY SEPARATION |
| 14:00-14:30 | B2 | Akos VERTES (Keynote)
Department of Chemistry, George Washington University, USA |
| | | TOWARDS ION MOBILITY MEASUREMENTS WITHIN FTICR CELLS |
| 14:30-14:50 | B3 | Wei XU (Invited)
School of Life Science, Beijing Institute of Technology, China |
| | | BAD-LECTINS: BORONIC ACID-DECORATED LECTINS WITH ENHANCED BINDING AFFINITY FOR THE SELECTIVE ENRICHMENT OF GLYCOPROTEINS |
| 14:50-15:10 | B4 | Yu-Ju CHEN (Invited)
Institute of Chemistry, Academia Sinica, Taiwan |
| | | MASS SPECTROMETRY TECHNOLOGY DEVELOPMENT FOR BIOMEDICAL APPLICATIONS |
| 15:10-15:40 | B5 | Chung-Hsuan CHEN (Keynote)
Genomics Research Center, Academia Sinica, Taiwan |
| 15:40-15:50 | | Coffee Break |
| | | HUMAN REDOXOMICS |
| 15:50-16:20 | B6 | Dominic M. DESIDERIO (Keynote)
University of Tennessee, USA |
| 16:20-16:40 | B7 | AMBIENT MASS SPECTROMETRY IMAGING USING |

PLASMA ASSISTED ULTIWAVELENGTH LASER
DESORPTION IONIZATION MASS SPECTROMETRY

Yu BAI(Invited)

Peking University, China

16:40-17:00 B8 AIR FLOW-ASSISTED IONIZATION IMAGING MASS
SPECTROMETRY METHOD FOR VISUALIZATION OF
DRUG AND ENDOGENOUS METABOLITE
DISTRIBUTION

Jingjing HE

Institute of Materia Medica, Chinese Academy of Medical
Sciences, China

17:00-17:30 B9 ELECTRO-HYDRODYNAMIC EFFECTS IN MASS
SPECTROMETRY SYSTEMS AND DESIGN OF
INSTRUMENTS WITH NEW CONFIGURATIONS

Zheng OUYANG(Keynote)

Weldon School of Biomedical Engineering, Purdue
University, USA

Time: Oct. 25, 2013 AM (Friday)

Location: Sichuan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Jianjun LI and Prof. Liang LI

8:30-9:00 B10 METHOD DEVELOPMENT OF LC-MS BASED
METABOLOMICS AND THEIR APPLICATIONS IN
HEALTH RELATED STUDIES

Guowang XU(Keynote)

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

9:00-9:20 B11 VISUALIZING NEUROTRANSMITTERS AND
METABOLITES VIA MALDI-MASS SPECTROMETRY
IMAGING BY HIGH RESOLUTION ACCURATE MASS
MEASUREMENT AND NOVEL MATRICES

Hui YE

Department of pharmaceutical analysis, China Pharmaceutical
University, China

9:20-9:40 B12 MASS SPECTROMETRY ANALYSIS AND FUNCTION

IDENTIFICATION OF BIOACTIVE
GLYCEROPHOSPHOLIPIDS AND SPHINGOLIPIDS

Zhenwen ZHAO(Invited)

Institute of Chemistry, Chinese Academy of Sciences, China

9:40-10:10 B13 RECENT ADVANCES IN HIGH PERFORMANCE
ISOTOPE LABELING LC-MS FOR METABOLOMICS

Liang LI(Keynote)

Department of Chemistry, University of Alberta, Canada

10:10-10:20

Coffee Break

10:20-10:50 B14 REDUCTIVE ISOTOPE LABELING INTEGRATED WITH
EXOGLYCOSIDASE DIGESTIONS AND
CHROMATOGRAPHIC SEPARATION FOR ANALYSIS
OF ISOMERIC SIALYLATED N-GLYCANS

Jianjun LI(Keynote)

Human Health Therapeutics, National Research Council of
Canada, Canada

10:50-11:10 B15 NEW TECHNIQUE FOR DIRECT QUALIFICATION AND
QUANTIFICATION OF SOLIDS

Wei HANG(Invited)

College of Chemistry and Chemical Engineering, Xiamen
University, China

11:10-11:30 B16 CHARGING OF DNA OLIGONUCLEOTIDES IN
ELECTROSPRAY IONIZATION MASS SPECTROMETRY

Konstantin CHINGIN

East China Institute of Technology Nanchang, China

11:30-11:50 B17 RAPID AND COMPREHENSIVE SAMPLE
EXAMINATIONS WITH SYNCHRONIZED
DUAL-POLARITY MALDI-IMAGING MASS
SPECTROMETRY

Yi-Sheng WANG(Invited)

Genomics Research Center, Academia Sinica, Taiwan

Time: Oct 25, 2013 PM (Friday)

Location: Sichuan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Vicki WYSOCKI and Prof. Ivan K. CHU

- ISOMERIZATION AND DISSOCIATION OF RADICAL PEPTIDE IONS
- 13:30-14:00 B18 **Ivan K. CHU**(Keynote)
Department of Chemistry, The University of Hong Kong, China
- AMBIENT MASS SPECTROMETRY TECHNIQUES FOR DIRECT BIOMOLECULES ANALYSIS, CANCER DIAGNOSTICS, AND NARCOTICS/EXPLOSIVE MONITORING
- 14:00-14:20 B19 **Mridul Kanti MANDAL**(Invited)
Clean Energy Research Center, University of Yamanashi, Japan
- IDENTIFICATION OF CROSS-LINKED PEPTIDES FOR STRUCTURAL ANALYSIS
- 14:20-14:40 B20 **Mengqiu DONG**(Invited)
National Institute of Biological Sciences, Beijing, China
- IS MICROWAVE REALLY A MAGIC BOOSTER FOR ENZYMATIC REACTIONS?
- 14:40-15:10 B21 **Yen-Peng HO**(Keynote)
Department of Chemistry, National Dong Hwa University, Taiwan
- 15:10-15:20 **Coffee Break**
- SURFACE INDUCED DISSOCIATION/ION MOBILITY FOR CHARACTERIZATION OF PROTEIN/PROTEIN AND PROTEIN/RNA(DNA) COMPLEXES
- 15:20-15:50 B22 **Vicki WYSOCKI**(Keynote)
Department of Chemistry and Biochemistry, Ohio State University, USA
- MASS SPECTROMETRIC ANALYSIS OF PROTEIN-PROTEIN INTERACTION AND ITS

APPLICATION IN THE STUDY OF TUMOR CELL
CHEMOTAXIS

Ruibing CHEN

Tianjin Medical University, China

16:10-16:30 B24 COMPREHENSIVE AND CONFIDENT
PROTEIN IDENTIFICATION USING TOP-DOWN
MASS SPECTROMETRY AND ISOTOPIC ENVELOPE
FINGERPRINTING

Zhixin TIAN(Invited)

Department of Chemistry, Tongji University, China

16:30-17:00 B25 DEVELOPMENT OF A LC-MS METHOD FOR
QUANTITATIVE ANALYSIS OF TRYPTOPHAN AND
KYNURENINE PATHWAY

Rong WANG(Keynote)

Icahn School of Medicine at Mount Sinai, New York , USA

Time: Oct. 26, 2013 AM (Saturday)

Location: Sichuan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Zhongxing CHEN and Prof. Jochen VOGL

8:30-9:00 B26 REFERENCE MATERIALS AND METROLOGICAL
PRINCIPLES FOR ISOTOPE RESEARCH

Jochen VOGL(Keynote)

BAM Federal Institute for Materials Research and Testing,
Germany

9:00-9:20 B27 TECHNICAL PERFORMANCE CHARACTERISTICS OF
THE NU ASTRUM, A NEW HIGH RESOLUTION GLOW
DISCHARGE –MASS SPECTROMETER

John CANTLE

Nu Instruments, UK

9:20-9:40 B28 DETERMINATION OF 20 PHTHALATE ESTERS IN
ALCOHOLIC DRINKS BY ULTRA HIGH
PERFORMANCE LIQUID

CHROMATOGRAPHY-TANDEM

MASS
SPECTROMETRY

POSTER SESSION

Hengtao DONG

Shimadzu (China) Co. Ltd., China

- 9:40-10:10 B29 MEASUREMENT UNCERTAINTY EVALUATION AND APPLICATION TO MASS SPECTROMETRY
Samuel WUNDERLI (Keynote)
Federal Institute of Metrology METAS, Switzerland
- 10:10-10:20 **Coffee Break**
- 10:20-10:50 B30 DETERMINATION OF CHEMICAL COMPOSITION IN FISH OTOLITHS USING SOLUTION AND LASER ABLATION HIGH RESOLUTION DOUBLE FOCUSING SECTOR FIELD ICP-MS
Zhongxing CHEN(Keynote)
Department of Earth and Planetary Sciences, Harvard University, USA
- 10:50-11:10 B31 DEVELOPMENT OF HPLC-MS/MS METHOD FOR SIMULTANEOUS DETERMINATION OF SCUTELLARIN AND ITS TWO MAJOR GLUCURONIDE METABOLITES IN RAT PLASMA AND ITS APPLICATION TO PHARMACOKINETIC STUDY
Xin WANG
Laboratory of Drug Metabolism and Pharmacokinetics, Shenyang Pharmaceutical University, China
- 11:10-11:30 B32 NO SAMPLE PREPARATION ON FOOD SAFETY ANALYSIS BY USING MICRO FLOW LIQUID CHROMATOGRAPHY (MFLC) AND COUPLING WITH HIGH RESOLUTION/ACCURACY MASS ORBITRAP TECHNOLOGY
James CHANG
Thermo Scientific, USA

Time: Oct. 24, 2013 AM (Thursday)

Location: 3rd Floor of the Hotel Nikko New Century Beijing

- ABSOLUTE DETERMINATION OF SERUM UNSATURATED FATTY ACIDS USING CHIP-BASED NANOESI- FTICR MS: EARLY STAGE DIAGNOSTIC BIOMARKERS OF PANCREATIC CANCER
- B33 Yaping ZHANG, Zhili LI*
Institute of Basic Medical Sciences Chinese Academy of Medical Sciences, School of Basic Medicine Peking Union Medical College, Beijing 100005, China
- LIPID PROFILING AND CLASSIFICATION OF THREE HUMAN PANCREATIC CANCER CELLS USING MALDI-FTICR MS
- B34 Hui LIU, Zhili LI*
Institute of Basic Medical Sciences Chinese Academy of Medical Sciences, School of Basic Medicine Peking Union Medical College, Beijing 100005, China
- DIRECTLIPIDPROFILING OF HUMAN MAMMARY EPITHELIAL AND BREAST CANCER CELL LINES WITH MALDI-FTICR MS
- B35 Manwen HE, Hui LIU, Zhili LI*
Institute of Basic Medical Sciences Chinese Academy of Medical Sciences, School of Basic Medicine Peking Union Medical College, Beijing 100005, China
- MASS SPECTROMETRY IN THE EARLY DIAGNOSIS OF URINARY LITHIASIS VIA ELEMENTAL ANALYSIS OF SERUM SAMPLES
- B36 Yuanfang XIAO, Yao GAO, Wei HANG*
College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- BUFFER-GAS ASSISTED HIGH IRRADIANCE FEMTOSECOND LASER IONIZATION ORTHOGONAL TIME-OF-FLIGHT MASS SPECTROMETRY FOR RAPID DEPTH PROFILING
- B37 Miaohong HE¹, Bin LI², Shuyuan YU², Bochao ZHANG¹, Zhihong LIU², Wei HANG^{1*}, Benli HUANG¹
¹College of Chemistry and Chemical Engineering, Xiamen University, China
²Shenzhen Entry-Exit Inspection and Quarantine Bureau, China
- DEVELOPMENT OF DUAL-SOURCE (GLOW DISCHARGE/LASER ABLATION & IONIZATION) QUADRUPOLE MASS SPECTROMETER
- B38 Weifeng LI, Lingfeng LI, Xiaohua WANG, Wei HANG*
Key Laboratory of Analytical Science, Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China

- B39 THE RESEARCH OF HIGH IRRADIANCE LASER IONIZATION MASS SPECTROMETRY IN ORGANIC COMPOUNDS ANALYSIS
Xiaohua WANG, Zhibin YIN, Bochao ZHANG, Wei HANG*
 College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- B40 PRELIMINARY STUDY OF BRINGING FEMTOSECOND LASER ABLATION AND IONIZATION INTO ELEMENTAL DETERMINATION
Bochao ZHANG, Miaohong HE, Wei HANG*, Benli HUANG
 College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- B41 A NOVEL ANALYTICAL METHOD FOR ORGANOMETALLIC COMPOUNDS BASED ON THERMAL DIFFUSION DESORPTION MECHANISM
Zhibin YIN, Wei HANG*
 Department of Chemistry, Key Laboratory of Analytical Sciences, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- B42 STUDY ON DISTRIBUTION OF ELEMENTS IN DEEP-SEA PACIFIC POLY-METALLIC NODULES VIA 2D MAPPING LASER IONIZATION ORTHOGONAL TIME-OF-FLIGHT MASS SPECTROMETRY (LI-O-TOFMS)
Shudi ZHANG¹, Bochao ZHANG¹, Guangshan LIU², Zhenbin GONG², Wei HANG^{1*}
¹College of Chemistry and Chemical Engineering, Xiamen University
²College of Oceanography and Environmental Science, Xiamen University, China
- B43 A NEW ANALYTICAL METHOD FOR IDENTIFYING BIOLOGICAL OLIGOPEPTIDE USING HIGH IRRADIANCE LASER IONIZATION TIME-OF-FLIGHT MASS SPECTROMETRY (LI-TOFMS)
Zhisen LIANG, Zhibin YIN, Wei HANG*
 Key Laboratory of Analytical Science, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen 361005, China
- B44 GRAPHENE BASED SOFT NANOREACTORS FOR FACILE “ONE-STEP” GLYCAN ENRICHMENT AND DERIVATIZATION FOR MALDI-TOF-MS ANALYSIS
Haihong BAI^{1,2}, Yiting PAN^{1,2}, Wanjun ZHANG², Xiaojun REN², Fang TIAN², Yangjun ZHANG², Yulin DENG¹, Weijie QIN^{2*} and Xiaohong QIAN^{2*}
¹School of Life Science, Beijing Institute of Technology. Beijing 100081, China
²State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing 102206, China,

- A NOVEL METHOD FOR IDENTIFICATION AND RELATIVE QUANTIFICATION OF N-TERMINAL PEPTIDES USING METAL ELEMENT CHELATED TAGS COUPLED WITH MASS SPECTROMETRY
- B45 Hui YAN, Feiran HAO, Yangjun ZHANG, Xiaohong QIAN
State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing 102206, China
- ABSOLUTE QUANTIFICATION OF SERUM PHOSHOPEPTIDES BY MASS SPECTROMETRY COMBINED WITH ENRICHMENT BY TITANIA COATED MAGNETIC MESOPOROUS SILICA MICROSPHERES
- B46 Guijin ZHAI, Qun LUO, Wei ZHENG, Yu LIN, Shaoxiang XIONG, Fuyi WANG*
Beijing National Laboratory for Molecular Sciences, CAS Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China
- MS QUANTIFICATION OF RUTHENATED PEPTIDES DERIVATIZED FROM RU(ARENE)-GST π COMPLEXES
- B47 Yu LIN, Wei HENG, Qun LUO, Guijin ZHAI, Kui WU, Shaoxiang XIONG, Fuyi WANG*
Beijing National Laboratory for Molecular Sciences; CAS Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China
- NANOPROTEOMICS FOR CELLULAR PROTEINS RECOGNIZING AND BINDING TO PLATINUM-DAMAGED DNA
- B48 Zhifeng DU¹, Qun LUO¹, Xianchan LI¹, Wei GUO¹, Liping YANG², Kui WU¹, Shaoxiang XIONG¹, Fuyi WANG*¹
¹CAS Key Laboratory of Analytical Chemistry for Living Biosystems
Beijing National Laboratory for Molecular Sciences, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China
²Key Laboratory of Cancer Research Center Nantong, Tumor Hospital Affiliated to Nantong University, Nantong 226361, China
- IDENTIFICATION OF BINDING SITES OF CISPLATIN TO COX-17 BY MASS SPECTROMETRY
- B49 Lijie LI, Wei GUO, Qun LUO, Yao ZHAO, Shaoxiang XIONG, Fuyi WANG*
Beijing National Laboratory for Molecular Sciences; CAS Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China.
- ESI-MS/MS IDENTIFICATION OF THE BINDING SITES OF A RUTHENIUM ANTICANCER COMPLEX TO SINGLE-STRANDED OLIGONUCLEOTIDES
- B50 Suyan LIU, Kui WU, Qun LUO, Yao ZHAO, Shaoxiang XIONG, Fuyi WANG*

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

URINEMETABOLOMICSFORBIOMARKERDISCOVERY
OFESOPHAGEAL SQUAMOUSCELL CARCINOMA

Jing XU¹, Yanhua CHEN¹, Ruiping ZHANG¹, Yajie ZHENG¹, Tiegang LI¹, Jingbo WANG³, Jiuming HE¹, Yongmei SONG², Qimin ZHAN², Lvhua WANG³, Zeper ABLIZ^{1*}

B51 ¹State Key Laboratory of Bioactive Substance and Function of Natural Medicines, Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100050, China

²State Key Laboratory of Molecular Oncology, Cancer Institute and Cancer Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100021, China

³Department of Radiation Oncology, Cancer Institute & Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100021, China

METABOLOMICS ANALYSIS OF LUNG CANCER USING
TARGETED EESI-MS

Ning XU¹, Xiaofeng DONG¹, Yiping WEI², Haiwei GU^{*1}, Huanwen CHEN¹

B52 ¹Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology Nanchang 330013, China

²The Second Affiliated Hospital to Nanchang University, Nanchang, 330006, China

THE CATION-ANION INTERACTION IN IONIC LIQUIDS
STUDIED BY EXTRACTIVE ELECTROSPRAY IONIZATION
MASS SPECTROMETRY

B53 Yafei ZHOU, Konstantin CHINGIN, Cao LI, Huanwen CHEN^{*}
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology Nanchang 330013, China

IMAGING OF DIETHYL PHTHALATE IN SOIL BY SURFACE
DESORPTION ATMOSPHERIC PRESSURE CHEMICAL
IONIZATION TANDEM MASS SPECTROMETRY (SDAPCI-MSN)

B54 Nannan WANG, Jianhua DING, Eric HANDBERG, Hua ZHANG and Huanwen CHEN^{*}

Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang 330013, China

FEASIBILITY STUDY FOR SINO-SWISS HIGH-PRECISION
MACHINE SHOP FOR ANALYTICAL INSTRUMENTATION IN
CHINA

B55 Eric HANDBERG¹, Jie JIANG², Xiaobin ZHU¹, Tao CHEN¹, Yongqi SANG¹, Xiaofeng DONG¹, Huanwen CHEN¹

¹East China Institute of Technology, Nanchang 330013, China

²Harbin Institute of Technology at Weihai, Weihai264209, China

- B56 DETECTION OF 1-HYDROXYPYRENE (1-OHP) BY EXTRACTIVE NANO-ELECTROSPRAY IONIZATION MASS SPECTROMETRY (nanoEESI-MS)
Jing LI, Xiang GAO, Eric HANDBERG, Tao CHEN, Yongqi SANG, Xiaofeng DONG, Huanwen CHEN
East China Institute of Technology, Nanchang 330013, China
- B57 DETERMINATION OF ELEMENTS IN NATURAL MINERAL DRINKING WATER BY MICROWAVE PLASMA TORCH MASS SPECTROMETRY WITH NEBULIZATION SAMPLE INTRODUCTION SYSTEM
Hailong XIONG, Wei ZHOU, Huanwen CHEN*
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Department of Chemistry, East China Institute of Technology, Nanchang 330013, China
- B58 DIRECT CHARACTERIZATION OF BULK SAMPLES BY INTERNAL EXTRACTIVE ELECTROSPRAY IONIZATION MASS SPECTROMETRY
Hua ZHANG, Haiwei GU, Liang ZHU, Nannan Wang and Huanwen CHEN
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang 330013, China
- B59 THE STUDY OF ION-MOLECULE REACTION BETWEEN PROTONATED PYRIDINE AND OXYGEN BY ELECTROSPRAY IONIZATION ION-TRAP MASS SPECTROMETRY
Wei ZHOU, Konstantin CHINGIN, Huanwen CHEN*
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, Department of Chemistry, East China Institute of Technology, Nanchang 330013, China
- B60 RAPID ANALYSIS OF ADULTERATED DIFFERENT ODORANTS WHITE WINE VARIETIES BY EXTRACTIVE ELECTROSPRAY IONIZATION MASS SPECTROMETRY
Cao LI, Yafei ZHOU, Yongzhong OUYANG*
Jiangxi Key Laboratory for Mass Spectrometry and Instrumentation, East China Institute of Technology, Nanchang 330013, China
- B61 GPU ASSISTED SIMULATION STUDY OF ION-ION REACTION
Dan GUO¹, MUYI HE¹, Yuzhuo WANG¹, Xingchuang XIONG², Xiang FANG² and Wei XU¹
¹Department of Biomedical Engineering, Beijing Institute of Technology, Beijing 100081, China
²National Institute of Metrology, Beijing 100013, China
- B62 SECONDARY IONIZATION FOR EFFICIENT MASS

SPECTROMETRY INSTRUMENTATION

Cunjuan BIAN, MUYI HE, Yanbing ZHAI, Yongzheng WEI, Xiang FANG, Yulin DENG and Wei XU
School of Life Science, Beijing Institute of Technology, Beijing 100081, China

ELECTROSPRAY MASS SPECTROMETRY IN THE STRUCTURAL STUDY OF HYBRID POLYOXOMETALATE-CYCLODEXTRIN COMPLEXES

B63 Yanxuan FAN, Jie CAO*
School of Chemistry, Beijing Institute of Technology, Beijing 100081, China

ZEOLITE-SUPPORTED SILVER NANOPARTICLES FOR LASER DESORPTION/IONIZATION MASS SPECTROMETRY OF LOW MOLECULAR WEIGHT COMPOUNDS

B64 Mengrui YANG, Tatsuya FUJINO*
Department of Chemistry, Graduate School of Science and Engineering, Tokyo Metropolitan University, Japan

STUDY OF IONIZATION PROCESS IN MATRIX ASSISTED LASER DESORPTION/IONIZATION

B65 Jiawei XU, Tatsuya FUJINO
Department of Chemistry, Tokyo Metropolitan University, Japan

CLASSIFICATION OF HUMAN BREAST CANCER USING AIR FLOW-ASSISTED IONIZATION IMAGING MASS SPECTROMETRY

B66 Xinxin MAO¹, Tiegang LI², Jiuming HE², Zeper ABLIZ², Jie CHEN¹
¹Department of Pathology, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing 100730, China
²State 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 100050, China

UNTARGETED MOLECULAR IMAGING OF LUNG TUMOR TISSUE USING AMBIENT AIR FLOW-ASSISTED IONIZATION MASS SPECTROMETRY

B67 Tiegang LI¹, Jiuming HE¹, Yi CHEN², Xinxin MAO³, Zhigang LUO¹, Ruiping ZHANG¹, Xin XU⁴, Fei TANG², Xiaohao WANG², Mingrong WANG⁴, Jie CHEN³, Zeper ABLIZ^{1*}
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 100050, China
²State Key Laboratory of Precision Measurement Technology and Instruments, Department of Precision Instruments and Mechanology, Tsinghua University, Beijing 100084, China
³Department of Pathology, Peking Union Medical College Hospital,

Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing 100730, China

⁴State Key Laboratory of Molecular Oncology, Cancer Institute(Hospital), Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing 100021, China

- FORMATION AND DISSOCIATION OF A DNA I-MOTIF FORMED BY THE SEQUENCE D(T2C4) IN THE GAS PHASE AND SOLUTION
- B68 Yanwei CAO, Yujiao QIN, Xinhua GUO*, Shang GAO, Bing WANG and Huixin WANG
College of Chemistry, Jilin University, Changchun 130012, China
- PROBING THE REGULARITY OF DIMEIRC INTERLOCKED G-QUADRUPLEX TOPOLOGY BY ESI-MS
- B69 Shang GAO, Yanwei CAO, Xinhua GUO*
College of Chemistry, Jilin University, Changchun 130012, China
- NOVEL BN-44 IONS GENERATED BY AN N-TERMINAL CHARGED PEPTIDE
- B70 Bing WANG, Huixin WANG, Zhonglin WEI, Xinhua GUO
College of Chemistry, Jilin University, Changchun 130012, China
- DISSOCIATION PATHWAYS OF SODIUM-CATIONIZED PEPTIDES LAXA: NOVEL SEQUENCE IONS AND DIAGNOSTIC FURTHER FRAGMENTATION
- B71 Huixin WANG, Bing WANG, Zhonglin WEI, Yanwei CAO, Xinhua GUO*
College of Chemistry, Jilin University, Changchun 130012, China
- COMBINATION OF DYNAMIC PH JUNCTION WITH CAPILLARY ELECTROPHORESIS-MASS SPECTROMETRY FOR SENSITIVE DETERMINATION OF SYSTEMINS
- Cuilan CHANG¹, Fuyou DU¹, Zhijing TAN², Yu BAI¹, Huwei LIU^{1*}
- B72 ¹Beijing National Laboratory for Molecular Sciences, Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China
²National Key Laboratory of Protein Engineering and Plant Genetic Engineering, College of Life Sciences, Peking University, Beijing 100871, China
- SELECTIVE ENRICHMENT OF PHOSHOPEPTIDES BY POROUS SnO₂
- Liping LI, Yu BAI, Huwei LIU*
- B73 Beijing National Laboratory for Molecular Sciences, Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China
- DETERMINATION OF TWELVE SULFANILAMIDES IN MILK BY IONIC LIQUID-BASED AQUEOUS TWO-PHASE EXTRACTION
- B74

AND LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY

Yu BAI^{1*}, Jie LIAO², Yinjin PAN¹, Huwei LIU¹

¹Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, China

²Medical Experiment & Analysis Center, General Hospital of Chinese PLA, Beijing 100853, China

A MECHANISTIC STUDY OF DEPROTONATED N,2-DIPHENYLACETAMIDES IN ELECTROSPRAY IONIZATION TANDEM MASS SPECTROMETRY

Zhihua LU¹, Yunfeng CHAI¹, Jichao WANG¹, Cuirong SUN^{1,2*}, Yuanjiang PAN¹

B75

¹Department of Chemistry, Zhejiang University, Hangzhou 310027, China

²College of Pharmaceutical Sciences, Zhejiang University, Hangzhou 310058, China

THE FRAGMENTATION REACTIONS OF THE COMPLEXES OF ALKALI METAL IONS WITH PENTAGLYCINE, PENTASERINE, PENTALEUCINE AND PENTALYSINE IN GAS PHASE

B76

Wanghui WEI, Chuyan QIU, Chuanfan DING

Laser Chemistry Institute, Chemistry Department, Fudan University, Shanghai 200433, China

THE QUADRUPOLE ROD SYSTEM FOR PRODUCING QUADRUPOLE FIELD WITH ADDED HEXAPOLE AND OCTOPOLE FIELDS

B77

Yuedong WANG, Xiao YU, Guanjun WANG, Chuanfan DING

Laser Chemistry Institute, Chemistry Department, Fudan University, Shanghai 200433, China

LIQUID CHROMATOGRAM-MASS SPECTROMETRY STRATEGIES ADVANCE ALLERGEN SCREENING IN WINE

B78

Wei ZHANG

ThermoFisher Scientific, Shanghai 201206, China

DIRECT ANALYSIS OF CONTAMINANTS IN FOODS USING PAPER SPRAY MASS SPECTROMETRY

B79

Pu WEI¹, Anyin LI¹, HsuChen HSU¹, Linfan LI², Zheng OUYANG², R. Graham COOKS¹

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²Department of Biomedical Engineering, Purdue University, USA

IDEAL TOOL FOR EN-71-3: 2013 TOY TEST - AN UNIQUE "WATER ONLY" KIT FOR TRACE LEVEL CHROMIUM(VI) SPECIATION ANALYSIS BY HPLC-ICPMS

B80

Quanhui XU

Perkinelmer Instruments (Shanghai)Co. Ltd. Guangzhou Branch, Guangzhou, China

- THE DEVELOPMENT AND VALIDATION OF GC COUPLED WITH TRIPLE QUADRUPOLE MASS SPECTROMETRY (GC-MS/MS) FOR THE PESTICIDE RESIDUES IN FRUIT AND VEGETABLE SAMPLES USING A QUECHERS APPROACH
 B81 Shanshan CHEN¹, Zeying HE¹, Xiaowei LIU¹, Wenwen WANG², Chang LIU², Hao WANG²
¹Agro-Environmental Quality Supervision & Testing Center, Ministry of Agriculture, Tianjin, 300191, China
²Agilent Technologies Co. Ltd, Beijing 100102, China
- COMPREHENSIVE IMPURITY PROFILING OF LEVOFLOXACIN BY USING LIQUID CHROMATOGRAPHY COMBINED WITH TANDEM MASS SPECTROMETRY
 B82 Yajie ZHENG, Huiqing WANG, Jiuming He, Ruiping Zhang, Zeper ABLIZ
 State Key Laboratory of Bioactive Substance and Function of Natural Medicines, Institute of Materia Medica, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100050, China
- ROLES OF ION/NEUTRAL COMPLEX IN GAS PHASE UNIMOLECULAR CHEMISTRY OF N-BENZYL-TETRAHYDRO-QUINOLINES
 B83 Cheng GUO, Shu ZHENG
 Cancer Institute, The Second Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou 310009, China
- THE ANALYSIS OF 19 KINDS OF PHTHALATE ESTERS IN FOOD USING TRIPLE QUADRUPOLE GAS CHROMATOGRAPHY MASS SPECTROMETER
 B84 Manjie ZHU
 Thermo Fisher Scientific, Guangzhou 510030, China
- A MULTI-RESIDUE ANALYSIS OF ORGANOCHLORINE PESTICIDES IN MILK POWDER USING GPC-GC-MS/MS
 B85 Lili QIAN, Jun FAN, Taohong HUANG*, Yuki HASHI
 Shimadzu Global COE for Application & Technical Development, Shimadzu (China) Co. Ltd, Shanghai, China
- SIMULTANEOUS DETERMINATION OF RESIDUAL VETERINARY DRUGS IN EGGS BY LIQUID CHROMATOGRAPHY COUPLED WITH TANDEM MASS SPECTROMETRY
 B86 Xingjuan HU^{1,2}, Lei Meng¹, Ningpeng WU², Wenfen ZHANG¹, Fuguo BAN², Shusheng ZHANG^{1*}
 School of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou 450052, China
- IDENTIFICATION AND CHARACTERIZATION OF IMPURITIES OF ATORVASTATIN CALCIUM BY DATA-DEPENDENT MSN WITH LINEAR TRAP MASS SPECTROMETRY
 B87

Niusheng XU, Zhe ZHOU, Zheng JIANG
Thermo Fisher Scientific, Shanghai, China

B88 A SIMPLE AND QUICK DETERMINATION OF TRACE
MULTIRESIDUES IN FOODS ANALYSIS USING TURBOFLOW-
LC-MS/MS

Niusheng XU, Zhenghua KE, Xiangjun LI, Zheng JIANG
Thermo Fisher Scientific, Shanghai, China

PESTICIDE ANALYSIS IN SPINACH BY MODIFIED QUECHERS
WITH PTV-GC-MS/MS

B89 Wen ZHAO¹, Feifei TIAN², Huan LIN¹, Lingyun LI¹, Su LIU¹
¹Institute of Vegetables and Flowers Chinese Academy of Agricultural
Sciences, Beijing 100081, China
²Beijing Analytical Application Center, Shimadzu (China) Co. Ltd.,
Beijing 100020, China

IDENTIFICATION OF 46 ACTIVE COMPOUNDS IN THE ACTIVE
FRACTION FROM XIAO-XU-MING DECOCTION (XXMD) BY
HPLC-FTICRMS AND MTSF TECHNIQUE

B90 Caisheng WU, Caihong WANG, Jinlan ZHANG
Key Laboratory of Bioactive Substances and Resources Utilization of
Chinese Herbal Medicine, Institute of Materia Medica, Chinese
Academy of Medical Sciences & Peking Union Medical College,
Beijing 100050, China

EFFECTS OF DIMETHYL SULFOXIDE (DMSO) ON THE
REACTION OF LYSOZYME AND CISPLATIN USING
ELECTROSPRAY IONIZATION MASS SPECTROMETRY

B91 Ningbo ZHANG^{1,2}, Yonggang DU^{1,2}, Meng CUI^{*1}, Junpeng XING¹,
Zhiqiang LIU¹ and Shuying LIU¹
¹Changchun Center of Mass Spectrometry, Changchun Institute of
Applied Chemistry, Chinese Academy of Sciences, Changchun 130022,
China
²University of the Chinese Academy of Sciences, Beijing 100039,
China

A NOVEL ESI-MS/MS STRATEGY FOR MONITORING
MERCURY(II) IONS BASED ON THE GSH-HG-MSD COMPETING
SYSTEM

B92 Ruixing ZHANG^{1,2}, Xiaoyu ZHUANG¹, Fengrui SONG^{1*}, Zhiqiang
LIU¹
¹Changchun Institute of Applied Chemistry, Chinese Academy of
Sciences, Changchun 130022, China
²University of the Chinese Academy of Sciences, Beijing 100039,
China

METABONOMICS STUDY OF WU-YOU DECOCTION IN
ADJUVANT-INDUCED ARTHRITIS RAT USING UPLC-Q-TOF-MS
Yao QI^{1,2}, Zifeng PI¹, Fengrui SONG¹, Zhiqiang LIU^{1*}

¹Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

²University of the Chinese Academy of Sciences, Beijing 100039, China

COMPREHENSIVE ANALYSES AND QUALITY CONTROL IN TRADITIONAL CHINESE MEDICINES USING INTEGRATED LC-SPE-NMR/MS

- B94 Na LI, Wanyi GU, Hua ZHOU, Liang LIU, Jianlin WU*
State Key Laboratory of Quality Research in Chinese Medicines, Macau University of Science and Technology, Macao, China

DEVELOPMENT OF MICROFLUIDIC DEVICE COMBINED WITH MASS SPECTROMETER FOR STUDY OF CELL DRUG METABOLISM CELL-CELL INFORMATION EXCHANGE

- B96 Qiushui CHEN, Dan GAO, Huibin WEI, Jinming LIN*
Beijing Key Laboratory of Micronalytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China

MULTIPLE ANALYSES OF ANTI-CANCER DRUG METABOLISM IN 3D-CULTURED HEPG2 CELLS ON CHIP

- B97 Shiqi WANG, Jing WU, Haifang LI, Jinming LIN*
Department of Chemistry, Beijing Key Laboratory of Micronalytical Methods and Instrumentation, The Key Laboratory of Bioorganic Phosphorus Chemistry & Chemical Biology, Tsinghua University, Beijing 100084, China

EVALUATION OF CAPECITABINE METABOLISM USING MICROCHIP COUPLED TO MASS SPECTROMETRIC DETECTION

- B98 Jie ZHANG, Sifeng MAO, Jing WU, Qiushui CHEN, Jinming LIN*
Department of Chemistry, Beijing Key Laboratory of Micronalytical Methods and Instrumentation, The Key Laboratory of Bioorganic Phosphorus Chemistry & Chemical Biology, Tsinghua University, Beijing 100084, China

LIPID PROFILING OF MAMMALIAN CELLS WITH IN SITU MATRIX-ASSISTED LASER DESORPTION IONIZATION-MASS SPECTROMETRY

- B99 Yandong ZHANG, Haifang LI, Yuan MA, Jinming LIN*
Department of Chemistry, Beijing Key Laboratory of Microanalytical Methods and Instrumentation, The Key Laboratory of Bioorganic Phosphorus Chemistry & Chemical Biology, Tsinghua University, Beijing 100084, China

ONLINE STUDY ON METABOLITES PROFILES OF SIXTEEN CLAUSENAMIDE ENANTIOMERS IN VITRO BY LIQUID CHROMATOGRAPHY/QUADRUPOLE ION TRAP/TIME-OF-FLIGHT MASS SPECTROMETRY

B100

Chao MA^{1,2}, Ru FENG, Yan WANG^{1*}

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&Peking Union Medical College, China

²Shimadzu Global COE, Shimadzu (China) Co., Ltd., China

SCHEDULE OF SESSIONS

C.OPTICAL SPECTROSCOPY

CHAIRMAN: Prof. Jin-Ming LIN

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Hainan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Jin-Ming LIN, Katsumi UCHIYAMA

- | | | |
|-------------|-----|--|
| 13:30-13:55 | K1 | OPTICAL SENSORS BASED ON AIE FLUOROGENS
Prof. Benzhong TANG
The Hong Kong University of Science and Technology |
| 13:55-14:20 | K2 | MOLECULE RECOGNITION BY FLUOROPHORES AT
THE CONFINED REACTION FIELDS
Prof. Norio TERAMAE
Tohoku University |
| 14:20-14:40 | K3 | CELL MANIPULATION BY PROTEIN EXPRESSION FOR
HIGHLY SELECTIVE UPTAKE OF METAL SPECIES
Prof. Jianhua WANG
Northeastern University |
| 14:40-15:00 | IO1 | NANOPARTICLE-BASED LONG-RANGE RESONANCE
ENERGY TRANSFER AND ITS ANALYTICAL
APPLICATIONS
Prof. Cheng Zhi HUANG
Southwest University |
| 15:00-15:10 | O1 | A RUTHENIUM(II) COMPLEX-BASED
PHOTOLUMINESCENT AND
ELECTROCHEMILUMINESCENT DUAL-SIGNALING
PROBE FOR HIGHLY SELECTIVE AND SENSITIVE
DETECTION OF NITRIC OXIDE
Dr. Wenzhu ZHANG
Dalian University of Technology |

15:10-15:30

Coffee Break and Poster

Chairman: Xi CHEN; Edmond Dik-Lung MA

HYDROXYL RADICAL-DEPENDENT
CHEMILUMINESCENCE EMISSION DURING
ADVANCED OXIDATION OF HALOAROMATICS

15:30-15:50

K4

Prof. Benzhan ZHU

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

DESIGN AND APPLICATION OF BIOIMAGING PROBES
BASED ON DYES AND IONOPHORES

15:50-16:10

K5

Prof. Koji SUZUKI

Keio University

LABEL-FREE LUMINESCENT
OLIGONUCLEOTIDE-BASED PROBES

16:10-16:30

K6

Prof. Edmond Dik-Lung MA

Hong Kong Baptist University

SPECTROSCOPIC PROBES AND SENSING ANALYSIS
(2013)

16:30-16:50

K7

Prof. Huimin MA

Institute of Chemistry, Chinese Academy of Sciences

Chairman: Koji Suzuki; Hai-Long Wu

DESIGN OF CONFORMATION-CONTROLLED
NUCLEIC ACIDS FOR OPTICAL SIGNAL
TRANSDUCTION

16:50-17:10

IO2

Prof. Ronghua YANG

Hunan University

FLUORESCENCE IMAGING OF THE ACTIVITY OF
NUCLEASES IN LIVING CELLS

17:10-17:25

IO3

Prof. Meiping ZHAO

Peking University

DEVELOPMENTS OF LUMINESCENT LANTHANIDE
BIOPROBES FOR TIME-GATED LUMINESCENT
BIOIMAGING APPLICATION

17:25-17:40

IO4

Prof. Jingli YUAN
Dalian University of Technology

17:40-17:55 IO5 **Prof. Xi CHEN**
Xiamen University

SYNTHESIS OF FLUORESCENT NITROGEN-DOPED GRAPHENE QUANTUM DOTS FOR Ni²⁺ DETECTION

17:55-18:05 O2 **Prof. Xuwei CHEN**
Northeastern University

PREPARATION OF EXCITATION-INDEPENDENT PHOTOLUMINESCENT GRAPHENE QUANTUM DOTS WITH VISIBLE-EXCITATION/EMISSION FOR CELL IMAGING

Time: Oct. 25, 2013 AM (Friday)

Location: Hainan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Jicun REN; Qun FANG

8:30-8:50 K8 **Prof. Katsumi UCHIYAMA**
Tokyo Metropolitan University

IN-CAPILLARY LABELING OF AMINO-ACIDS BY DROP-BY-DROP INTRODUCTION FOR CAPILLARY ELECTROPHORESIS

8:50-9:10 K9 **Prof. Qun FANG**
Zhejiang University

HIGH-SENSITIVE LASER-INDUCED FLUORESCENCE DETECTION SYSTEMS FOR CAPILLARY ELECTROPHORESIS

9:10-9:30 IO6 **Prof. Xiaomei YAN**
Xiamen University

ENHANCED LIGHT SCATTERING DETECTION OF SINGLE NANOPARTICLES FOR ADVANCED CHARACTERIZATION OF DRUG DELIVERY SYSTEMS

9:30-9:45 IO7

RECENT ADVANCES IN HIGH PERFORMANCE ISOTOPE LABELING LC-MS FOR METABOLOMICS

Prof. Jicun REN
Shanghai Jiaotong University

9:45-10:00 IO8 HIGH PERFORMANCE PLASMO-PHORE-BASED
FLUOROSENSORS
Prof. Yaoqun LI
Xiamen University

10:00-10:10 O3 HIGH-SENSITIVE SILICON PHOTONIC BIOSENSORS
BASED ON CASCADED DOUBLE MICRORING
RESONATORS
Assoc. Prof. Longhua TANG
Zhejiang University

10:10-10:30 **Coffee Break and Poster**
Chairman: Akira HARATA; Yaoqun LI

10:30-10:55 K10 A LUMINESCENCE-BASED SENSOR ARRAY FOR
PROTEIN SENSING
Prof. Xinrong ZHANG
Tsinghua University

10:55-11:20 K11 THE PRODUCTION AND USE OF SEMICONDUCTOR
NANOCRYSTALS FOR OPTICAL BIOIMAGING
Prof. Mark T. SWIHART
The University at Buffalo (SUNY)

11:20-11:40 K12 ULTRASENSITIVE DETECTION OF
NONFLUORESCENT MOLECULES IN LIQUID
SOLUTIONS
Prof. Akira HARATA
Kyushu University

11:40-12:00 K13 QUANTUM-DOTS-BASED IMMUNOASSAYS AND
ELEMENTAL MASS SPECTROMETRY FOR SENSITIVE
PROTEIN QUANTIFICATIONS
Prof. Jorge Ruiz ENCINAR
University of Oviedo

Time: Oct 25, 2013 PM (Friday)

Location: Hainan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Jianzhong LU; Chengxiao ZHANG

13:30-13:50 IO9 PHOTOPHYSICAL AND ELECTROGENERATED
CHEMILUMINESCENCE OF NEW ORGANIC
COMPOUNDS
Prof. Chengxiao ZHANG
Shaanxi Normal University

13:50-14:10 IO10 APPLICATION OF FLUORESCENT PROBES TO
DETECT LOW-ABUNDANT TUMOR MARKERS
Prof. Jin OUYANG
Beijing Normal University

14:10-14:25 IO11 NOVEL CHEMILUMINESCENCE TECHNIQUES FOR
THE DETECTION OF MICRORNA
Prof. Jianzhong LU
Fudan University

14:25-14:40 IO12 LAYERED DOUBLE
HYDROXIDESCHEMILUMINESCENCE
Prof. Chao LU
Beijing University of Chemical Technology

14:40-14:55 IO13 WHOLE SMALL ANIMAL CHEMILUMINESCENT
IMAGING
Prof. Jiagen LV
Shan'xi Normal University

14:55-15:05 O4 GOLD NANOPARTICLES AS A CHEMILUMINESCENCE
RESONANCE ENERGY TRANSFER PLATFORM FOR
HISTONE SENSING
PhD Student Yi HE
University of Science and Technology of China

15:05-15:30

Coffee Break

Chairman: Qiuquan Wang; Bin Hu

15:30-15:50 K14 NEW SAMPLE INTRODUCTION TECHNIQUES FOR

ANALYTICAL ATOMIC SPECTROMETRY

Prof. Xiandeng HOU

Sichun University

15:50-16:10 IO14 SURFACE-ENHANCED RAMAN SCATTERING ASSAY
IN CANCER BIOMARKER DETECTION BASED
ENZYME-ACTIVATING SIGNAL AMPLIFICATION

Prof. Shusheng ZHANG

Linyi University

16:10-16:25 IO15 SYNTHESIS AND APPLICATION OF QUANTUM DOTS
IN ANALYTICAL CHEMISTRY FOR BIOLOGY AND
MEDICINE

Prof. Zhike HE

Wuhan University

16:25-16:40 IO16 A TRIFUNCTIONAL PROBE FOR CANCER CELLS: A
“SEEING AND COUNTING” APPROACH

Prof. Qiuquan WANG

Xiamen University

16:40-16:55 IO17 PRELIMINARY STUDIES ON THE ANALYSIS OF
TRACE METALS AND THEIR SPECIES IN CELLS

Prof. Bin HU

Wuhan University

Chairman: Zhike HE; Na LI

16:55-17:10 IO18 A TURN-ON LUMINESCENCE IMAGING PROBE FOR
DETECTION OF BIOTHIOLS IN BIOLOGICAL FLUIDS

Prof. Yi LV

Sichuan University

17:10-17:25 IO19 AQUEOUS SYNTHESIS OF CuInS₂ QUANTUM DOTS
AND ITS APPLICATIONS

Prof. Xinguang SU

Jilin University

17:25-17:40 IO20 A DISTANCE-DEPENDENT METAL-ENHANCED
FLUORESCENCE SENSING PLATFORM BASED ON

MOLECULAR BEACON DESIGN

Prof. Na LI

Peking University

17:40-17:55 IO21 HIGH IRRADIANCE LASER IONIZATION
TIME-OF-FLIGHT MASS SPECTROMETRY FOR
CHEMICAL ANALYSIS

Prof. Wei HANG

Xiamen University

17:55-18:10 IO22 MULTIWAY CALIBRATION METHODS AND THEIR
APPLICATIONS IN OPTICAL SPECTROSCOPY: DIRECT
QUANTITATIVE ANALYSIS IN COMPLICATED
CHEMICAL SYSTEMS

Prof. Hai-Long WU

Hunan University

Poster Session I

Time: Oct. 24, 2013 PM (Thursday)

Location: 2nd Floor of Hotel Nikko New Century Beijing

- PC0 CONTROLLED SELF-ASSEMBLY OF CDTE QUANTUM DOTS INTO DIFFERENT MICROSCALE DENDRITE STRUCTURES BY USING PROTEINS AS TEMPLATES
Prof.Jin OUYANG
Beijing Normal University
- PC1 MOLECULE RECOGNITION BY FLUOROPHORES AT THE CONFINED REACTION FIELDS
Assoc. Prof.Na NA
Beijing Normal University
- PC2 COLORS AND MORPHOLOGIES CONTROLLED SELF-ASSEMBLY OF NEW ELECTRON-DONOR-SUBSTITUTED AGGREGATION-INDUCED EMISSION COMPOUNDS
Prof.Jin OUYANG
Beijing Normal University
- PC3 DETERMINATION OF TOTAL ARSENIC IN WATER BY ON-LINE UV VAPOR GENERATION ATOMIC FLUORESCENCE SPECTROMETRIC
Practice Student Lingling LIN
Beijing Titan Instruments Co., Ltd.
- PC4 COLORIMETRIC DETECTION OF CYSTEINE USING NONCROSSLINKING AGGREGATION OF FLUOROSURFACTANT- CAPPED SILVER NANOPARTICLES
Student Shuang CHEN
Beijing University of Chemical Technology
- PC5 HIGHLY SELECTIVE SENSING OF HYDROGEN PEROXIDE BASED ON COBALT-ETHYLENEDIAMINETETRAACETATE COMPLEX INTERCALATED LAYERED DOUBLE HYDROXIDE-ENHANCED LUMINOL CHEMILUMINESCENCE
Student Yingchun CHEN
Beijing University of Chemical Technology
- PC6 UNIVERSAL CHEMILUMINESCENCE FLOW-THROUGH DEVICE BASED ON DIRECTED SELF-ASSEMBLY OF SOLID-STATE QUANTUM DOTS ON LAYERED DOUBLE HYDROXIDE MATRIX
Student Shichao DONG
Beijing University of Chemical Technology
- PC7 ONE-STEP ENRICHMENT AND CHEMILUMINESCENCE DETECTION OF SODIUM DODECYL BENZENE SULFONATE IN RIVER WATER USING MG-AL-CARBONATE LAYERED

- DOUBLE HYDROXIDES
Student Weijiang GUAN
Beijing University of Chemical Technology
- PC8 Mg-Al CARBONATE LAYERED DOUBLE HYDROXIDES AS A CHEMILUMINESCENCE FLOW BIOSENSOR FOR DETECTING GLUCOSE IN HUMAN PLASMA
Student Fang LIU
Beijing University of Chemical Technology
- PC9 CHEMILUMINESCENCE SENSING OF AMINOTHIOLS IN BIOLOGICAL FLUIDS USING PEROXYMONOCARBONATE PREPARED NETWORKED GOLD NANOPARTICLES
Student Biqi LU
Beijing University of Chemical Technology
- PC10 UNIVERSAL CHEMILUMINESCENCE FLOW-THROUGH DEVICE BASED ON DIRECTED SELF-ASSEMBLY OF SOLID-STATE ORGANIC CHROMOPHORES ON LAYERED DOUBLE HYDROXIDE MATRIX
Student Xu TENG
Beijing University of Chemical Technology
- PC11 LIGAND EXCHANGE ON THE SURFACE OF CDTE QUANTUM DOTS WITH FLUOROSURFACTANT-CAPPED GOLD NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND TOXICITY EVALUATION
Student Lingyun WANG
Beijing University of Chemical Technology
- PC12 IMPROVED PEROXYNITROUS ACID CHEMILUMINESCENCE VIA DODECYLBENZENE SULFONATE INTERCALATED LAYERED DOUBLE HYDROXIDES
Student Manlin ZHANG
Beijing University of Chemical Technology
- PC13 A HIGHLY SENSITIVE LED-INDUCED CHEMILUMINESCENCE PLATFORM FOR APTASENSING OF PLATELET-DERIVED GROWTH FACTOR
Xinfeng ZHANG
Chengdu University of Technology
- PC14 DETERMINATION OF TOTAL MERCURY IN BIOLOGICAL TISSUE BY ISOTOPE DILUTION ICPMS AFTER UV PHOTOCHEMICAL VAPOR GENERATION
Assoc. Prof. Ying GAO
Chengdu University of Technology
- PC15 PREPARATION AND CHARACTERIZATION OF MAGNETIC NANOPARTICLES FOR THE ON-LINE DETERMINATION OF

- GOLD, PALLADIUM, AND PLATINUM IN MINE SAMPLES
BASED ON FLOW INJECTION-COLUMN PRECONCENTRATION
COUPLED WITH GRAPHITE FURNACE ATOMIC ABSORPTION
SPECTROMETRY
Prof.Qiong JIA
Jilin University
- PC16 A SEMI-CONFOCAL FLUORESCENCE MICROSCOPE FOR
OBSERAVING THE EXCITATION SPECTRA OF SOLUBLE
MOLECULES AT THE WATER SURFACE
StudentHaiya YANG
Kyushu University
- PC17 ISOTHERMAL AMPLIFIED DETECTION OF REDUCED THIOL
BASED ON DISULFIDE-BONGED DNA
Yingshu GUO
Linyi University
- PC18 INVESTIGATIONS OF SILOXANE FUNCTIONAL MATERIAL IN
THE SEPARATION AND PRECONCENTRATION OF MERCURY
AND ITS SPECIATION
StudentWenjing WANG
Northeastern University
- PC19 DETERMINATION OF DIMETHOATE IN ENVIOMENTAL WATER
SAMPLES BY SEQUENTIAL INJECTION WITH
CHEMILUMINESCENCE DETECTION
Student Xiao-peng ZHANG
Northeastern University
- PC20 A MINIATURE LONG-OPTICAL PATH ATOMIC ABSORPTION
SPECTROMETER WITH DIELECTRIC BARRIER DISCHARGE AS
ATOMIZER FOR MERCURY SPECIATION
Assoc. Prof.Yongliang YU
Northeastern University
- PC21 IDEAL TOOL FOR EN-71-3: 2013 TOY TEST - AN UNIQUE
“WATER ONLY” KIT FOR TRACE LEVEL CHROMIUM(VI)
SPECIATION ANALYSIS BY HPLC-ICPMS
Eng.Quanhui XU
Perkinelmer Instruments
- PC22 SINGLE PARTICLE ICP-MS AS A METROLOGY TOOL FOR
NANOPARTICLES: THEORY AND APPLICATIONS
Eng. Junjie LUO
Perkinelmer, Inc.
- PC23 ULTRASENSITIVE SERS DETECTION OF LYSOZYME BY
TARGET-TRIGGERING MULTIPLE CYCLE AMPLIFICATION
STRATEGY BASED ON GOLD SUBSTRATE

Student Peng HE
Qingdao University of Science and Technology

PC24 EFFECTS OF SAMPLE PRETREATMENTS ON THE SPECIATION OF SULFUR IN SEWAGE SLUDGE AMENDED SOILS ASSESSED BY XANES SPECTROSCOPY
Student Chuang XU
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

PC25 STUDY ON C-FUNCTIONAL GROUPS OF SOIL HUMUS FRACTIONS AFFECTED BY PHOSPHATE USING C 1S NEXAFS SPECTROSCOPY
Assoc. Prof. Lei LUO
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

PC26 ELECTROGENERATED CHEMILUMINESCENCE PEPTIDE-BASED BIOSENSOR FOR THE DETERMINATION OF CARDIAC TROPONIN I USING Ru(bpy)₃²⁺-FUNCTIONALIZED GOLD NANOPARTICLES AS SIGNAL-AMPLIFYING TAGS
Prof.Honglan QI
Shaanxi Normal University

PC27 STUDY ON CONTROLLED BLINKING TO NONBLINKING BEHAVIORS OF AQUEOUS QUANTUM DOTS
Assoc. Prof. Chaoqing DONG
Shanghai Jiaotong University

PC28 CHEMILUMINESCENT DETECTION OF CELL APOPTOSIS ENZYME BY GOLD NANOPARTICLE-BASED RESONANCE ENERGY TRANSFER ASSAY
Prof.Jicun REN
Shanghai Jiaotong University

PC29 HOMOGENOUS IMMUNOASSAY OF CANCER MARKER IN HUMAN SERA USING SINGLE WAVELENGTH EXCITATION FLUORESCENCE CROSS-CORRELATION SPECTROSCOPY
Prof.JicunREN
Shanghai Jiaotong University

PC30 DETERMINATION OF RARE EARTH ELEMENTS IN TEA BY ICP-AES WITH ULTRASONIC AEROSOL GENERATOR
Eng.Feng XU
Shimadzu (China) Co., LTD

PC31 DETERMINATION THE IMPURITY ELEMENTS IN THE PIPELINE STEELBY ICP-AES

Eng. Youbao SUN
Shimadzu (China) Co., LTD

PC32 HIGHLY SENSITIVE RESONANCE LIGHT SCATTERING
BIOASSAY FOR HEPARIN BASED ON POLYETHYLENEIMINE
CAPPED SILVER NANOCCLUSERS

Prof. Yi LV
Sichuan University

PC33 MICROWAVE-ASSISTED SYNTHESIS OF CARBON NANODOTS
THROUGH AN EGGSHELL MEMBRANE AND THEIR
FLUORESCENT APPLICATION

Prof. Yi LV
Sichuan University

PC34 LUMINESCENT ZnOQUANTUM DOTS FOR SENSITIVE AND
SELECTIVE DETECTION OF DOPAMINE

Prof. Yi LV
Sichuan University

Poster Session II

Time: Oct. 25, 2013 AM (Friday)

Location: 2nd Floor of Hotel Nikko New Century Beijing

PC35 ORGANIC SOLVENT FREE CLOUD POINT EXTRACTION-LIKE
METHODOLOGY USING AGGREGATION OF GRAPHENE
OXIDE

Student Dongyan DENG
Sichuan University

PC36 ASENSITIVE AND SPECIFIC CARBON DETECTOR BASED ON
HEAT-ASSISTED DIELECTRIC BARRIER DISCHARGE ATOMIC
EMISSION SPECTROMETRY FOR GAS CHROMATOGRAPHY

Student Bingjun HAN
Sichuan University

PC37 IMPROVED HYDRIDE GENERATION-ATOMIC FLUORESCENCE
SPECTROMETRY: MINIMIZATION OF BLANK OF LEAD FROM
POTASSIUM FERRICYANIDE AND DEVELOPMENT OF A NEW
UV ATOMIZER

Student Ke HUANG
Sichuan University

PC38 COLORIMETRIC DETECTION OF CYSTEINE USING
NANOMATERIALS

Assoc. Jian WANG
Southwest University

PC39 DIRECT DETECTION OF ALPHA-FETOPROTEIN IN AIR WITH

- HIGH SENSITIVITY BASED ON GOLD NANO-MUSHROOM
ARRAY
Assoc. Prof. Jianhua ZHOU
Sun Yat-sen University
- PC40 SIMULATION OF BIOMOLECULE BEHAVIOR IN MICRO FLUID
ON REACTION FIELD OF MICRO BIOANALYSIS DEVICE
Student Yuma SUZUKI
Tokyo Metropolitan University
- PC41 FABRICATION OF ELECTROCHEMICAL SENSOR BASED ON
MULTI ZINC OXIDE NANOWIRES
Student Takashi YONEOKA
Tokyo Metropolitan University
- PC42 APPLICATION OF INKJET FOR WESTERN BLOTTING
Student Hiroshi UNO
Tokyo Metropolitan University
- PC43 DEVELOPMENT OF TRANSMISSION-TYPE SURFACE
PLASMON RESONANCE SENSOR USING 2D-ARRAYED NANO
PARTICLES
Student Akihito KORENAGA
Tokyo Metropolitan University
- PC44 PREPARATION OF TEMPERATURE RESPONSIVE MEMBRANE
FOR THE CONTROL OF LIQUID PERMEABILITY USING
MULTI-CAPILLARY PLATE
Student Mitsuaki HIDA
Tokyo Metropolitan University
- PC45 HIGHLY SENSITIVE AND ACCURATE TWO-PHOTON
RATIOMETRIC FLUORESCENT PROBE FOR DETECTION OF
Cu²⁺ IN LIVE CELLS
Student Yan FU
Tongji University
- PC46 RATIO DETERMINATION OF HYDROXYL RADICALS BASED
ON INORGANIC-ORGANIC NANOHYBRIDED FLUORESCENT
PROBE
Student Mei ZHUANG
Tongji University
- PC47 NANOPARTICLES-ENHANCED CHEMILUMINESCENCE FROM
THE DECOMPOSITION OF PEROXYMONOCARBONATE AND
ITS APPLICATION
Dr. Hui CHEN
Tsinghua University
- PC48 MICROFLUIDIC MASS CYTOMETRY PLATFORM BY DNA

- LABELING AND SIGNAL AMPLIFICATION
Student Ziyi HE
Tsinghua University
- PC49 CYTOTOXICITY OF 1-DIMENSIONAL ZnO NANOWIRE ARRAYS ON DIFFERENT CANCER CELLS
Student Ruizhi NING
Tsinghua University
- PC50 DETECTION OF BCR-ABL USING ONE STEP REVERSE TRANSCRIPTASE-POLYMERASE CHAIN REACTION AND MICROCHIP ELECTROPHORESIS
Student Xuexia LIN
Tsinghua University
- PC51 CHIP-BASED CARDIOMYOGENESIS STUDY IN MOUSE EMBRYONIC STEM CELLS PROMOTED BY DORSOMORPHIN
Student Qichen ZHUANG
Tsinghua University
- PC52 SENSITIVE AND SELECTIVE FLUORESCENT CHEMOSENSORS FOR Zn²⁺ IN WATER AND THEIR APPLICATION FOR LIVE CELL IMAGING
Student Kai LI
Tsinghua University
- PC53 A LABEL-FREE OLIGONUCLEOTIDE SENSOR FOR ADENOSINE BASED ON AGGREGATION-INDUCED EMISSION AND EXONUCLEASE I
Student Hualong LIU
Tsinghua University
- PC54 AGGREGATION-INDUCED EMISSION PROBES FOR SENSITIVE DETECTION OF PROTEINS BASED ON ELECTROSTATIC INTERACTIONS
Student Zhaojuan ZHOU
Tsinghua University
- PC55 EXONUCLEASE-AIDED AMPLIFICATION FOR ANTIGEN DETECTION BASED ON GRAPHENE OXIDE AND IMMUNOASSAY
Prof. Yufei LIU
Wuhan University
- PC56 A RELATIONSHIP BETWEEN BIO-RAMAN SPECTROSCOPY AND CLINICAL DIAGNOSIS
Prof. Jiming HU
Wuhan University
- PC57 ANALYSIS OF TUMOR MARKER PROTEINS IN HUMAN TISSUE

- AND SERUM USING SPECTRAL IMAGING AND OPTICAL TRAPPING BASED ON FLUORESCENT NANOPROBING
Prof. HongwuTANG
Wuhan University
- PC58 CROSS-REACTIVE SENSOR ARRAY FOR THE DETECTION OF HEAVY METAL IONS BY FLUORESCENCE SPECTROSCOPY
Prof. Xi CHEN
Xiamen University
- PC59 APPLICATION OF RGO-GOLD NANOCOMPOSITES FOR THE PRECONCENTRATION OF HETEROCYCLIC AROMATIC AMINES
Prof. Xi CHEN
Xiamen University
- PC60 SURFACE PLASMON-COUPLED DIRECTIONAL RAMAN SCATTERING ON SMOOTH METAL FILM VIA REVERSE KRETSCHMANN (RK) CONFIGURATION
Student Si-XinHUO
Xiamen University
- PC61 A TRIFUNCTIONAL PROBE INTEGRATED TWO-DIMENSIONAL NIR AND ICPMS FOR PROSTATE-SPECIFIC MEMBRANE ANTIGEN
Student Chunlan LIU
Xiamen University
- PC62 RAPID DETERMINATION OF THIABENDAZOLE IN RED GRAPE WINE BY SECOND-DERIVATIVE SYNCHRONOUS FLUORESCENCE SPECTROSCOPY
Student Xiu-Di ZHONG
Xiamen University
- PC63 MASS SPECTROMETRY IN THE EARLY DIAGNOSIS OF URINARY LITHIASIS VIA ELEMENTAL ANALYSIS OF SERUM SAMPLES
Yuanfang XIAO
Xiamen University
- PC64 PRELIMINARY STUDY OF BRINGING FEMTOSECOND LASER ABLATION AND IONIZATION INTO ELEMENTAL DETERMINATION
Bochao ZHANG
Xiamen University
- PC65 STUDY ON DISTRIBUTION OF ELEMENTS IN DEEP-SEA PACIFIC POLY-METALLIC NODULES VIA 2D MAPPING LASER IONIZATION ORTHOGONAL TIME-OF-FLIGHT MASS SPECTROMETRY (LI-O-TOFMS)

Shudi ZHANG
Xiamen University

PC66 LABEL-FREE APTASENSOR BASED ON STRONGLY COUPLED
PLASMONIC ASSEMBLY-INDUCED EMISSION
Shuo-Hui CAO
Xiamen University

PC67 MINIATURIZED CAPILLARY ELECTROPHORESIS ANALYZER
Student Jian-Zhang PAN
Zhejiang University

PC68 BIOANALYSIS BASED ON PHOSPHORESCENCE ENERGY
TRANSFER
Feng GAO
Anhui Normal University

SCHEDULE OF SESSIONS

D. CHROMATOGRAPHY

CHAIRMAN: Prof. Guowang XU

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Shandong Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Oliver J. SCHMITZ and Prof. Jingwu KANG

- | | | |
|-------------|----|---|
| 13:30-13:50 | D2 | COMPREHENSIVE TWO-DIMENSIONAL LIQUID CHROMATOGRAPHY (LC X LC) WITH MIXED-MODE IN THE FIRST DIMENSION
Prof. Oliver J. SCHMITZ (Keynote)
University of Duisburg-Essen, Germany |
| 13:50-14:10 | D3 | STRUCTURAL ANALYSIS OF LOW MOLECULAR WEIGHT HEPARIN BY ULTRA PERFORMANCE SIZE EXCLUSION CHROMATOGRAPHY/TIME OF FLIGHT MASS SPECTROMETRY AND CAPILLARY ZONE ELECTROPHORESIS
Prof. Jingwu KANG (Keynote)
Shanghai Institute of Organic Chemistry, CAS, China |
| 14:10-14:30 | D4 | SHOTGUN LIPIDOMICS FOR BIOACTIVE LIPIDS
Prof. Xianlin HAN (Keynote)
Sanford-Burnham Medical Research Institute, USA |
| 14:30-14:50 | D5 | ANALYSIS OF GIBBERELLIN BY CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY
Prof. Yi CHEN
Institute of Chemistry, CAS, China |
| 14:50-15:05 | D6 | AN AUTOMATED DUAL-GRADIENT LIQUID CHROMATOGRAPHY-MS/MS METHOD FOR THE SIMULTANEOUS DETERMINATION OF FERULIC ACID, LIGUSTRAZINE AND LIGUSTILIDE IN RAT PLASMA |

AND ITS APPLICATION TO A PHARMACOKINETIC STUDY

Dr. Mingfei ZENG

Thermo Fisher Scientific, Shanghai, China

15:05-15:30

Coffee Break

Chairman: Prof. Jun HAGINAKA and Gongke LI

15:30-15:50 D7 MONODISPERSE MOLECULARLY IMPRINTED POLYMERS FOR BIOANALYSIS AND ENVIRONMENTAL ANALYSIS
Prof. Jun HAGINAKA (Keynote)
Mukogawa Women's University, Japan

15:50-16:10 D8 FABRICATION OF HYBRID MAGNETIC MOF-5 BY CHEMICAL BONDING FOR HIGH EFFICIENT ENRICHMENT OF TRACE ANALYTES
Prof. Gongke LI (Keynote)
Sun Yat-sen University, China

16:10-16:30 D9 AN ORGANIC-INORGANIC HYBRID MONOLITHIC COLUMN FOR THE SPECIATION ANALYSIS OF INORGANIC ARSENIC
Prof. Hong-zhen LIAN (Keynote)
Nanjing University, China

16:30-17:05 D10 COMPARISON OF RETENTION OF EIGHT HAAS ON THREE DIFFERENT HPLC COLUMNS PACKED WITH ODS AND CALIXARENE STATIONARY PHASES
Prof. Shusheng ZHANG
Zhengzhou University, China

16:50-17:05 D11 NEW SPECIALIZED GC COLUMNS FOR THE PETROLEUM INDUSTRY
Dr. Gary LEE
Agilent Technologies Inc., USA

Time: Oct. 25, 2013 AM (Friday)

Location: Shandong Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Schmitt-Kopplin, Ph and Prof. Huwei LIU

8:30-8:50 D12 INTEGRATED (ULTRA) HIGH RESOLUTION ANALYTICAL APPROACHES FOR NON-TARGETED METABOLOMICS ANALYSES
Prof. Schmitt-Kopplin, Ph (Keynote)
German Research Center for Environmental Health (GmbH), Germany

8:50-9:10 D13 COMPARATIVE STUDY OF DICYCLOPLATIN AND CARBOPLATIN INTERACTING WITH DEOXYNUCLEOCIDE MONOPHOSPHATES AND DNA USING CAPILLARY ELECTROPHORESIS–MASS SPECTROMETRY
Prof. Huwei LIU
Peking University, China

9:10-9:30 D14 APPLICATION OF LC/MSN FOR METABOLOMIC DRUG MONITORING USING MISPME IN VITRO AND IN VIVO BLOOD SAMPLING TECHNIQUE
Prof. Boguslaw BUSZEWSKI (Keynote)
Nicolaus Copernicus University, Poland

9:30-9:50 D15 PRESSURIZED CAPILLARY ELECTROCHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY AND CELL METABONOMICS STUDY
Prof. Chao YAN
Shanghai JiaoTong University, China

9:50-10:10 D16 RANDOM FOREST BASED ON TSP AND ITS APPLICATION IN LC-MS DATA
Dr. Xiaohui LIN
Dalian University of Technology, China

10:10-10:30 **Coffee Break**

Chairman: Prof. Myeong Hee MOON and Prof. Bi-Feng LIU

10:30-10:50 D17 FLOW FIELD-FLOW FRACTIONATION WITH MASS SPECTROMETRY FOR SERUM GLYCOPEPTIDES AND

LIPID ANALYSIS

Prof. Myeong Hee MOON (Keynote)

Yonsei University, Korea

SINGLE CELL CHEMICAL PROTEOMIC ANALYSIS
WITH ACTIVITY-BASED PROBES

10:50-11:10 D18 **Prof. Bi-Feng LIU**

Huazhong University of Science and Technology, China

ADVANCED METHODS FOR ASSESSMENT OF
AROMAS BASED ON GAS CHROMATOGRAPHY,
OLFACTOMETRY AND MASS SPECTROMETRY

11:10-11:30 D19 **Prof. Philip MARRIOTT** (Keynote)

Monash University, Australia

BORONATE AFFINITY MATERIALS FOR THE
SELECTIVE ENRICHMENT OF GLYCOPROTEINS

11:30-11:50 D20 **Prof. Zhen LIU**

Nanjing University, China

Time: Oct 25, 2013 PM (Friday)

Location: Shandong Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Yan ZHU and Prof. Teris A. VAN BEEK

POLYSTYRENE-DIVINYLBENZENE STATIONARY
PHASES AGGLOMERATED WITH QUATERNIZED
MULTI-WALLED CARBON NANOTUBES FOR ANION
EXCHANGE CHROMATOGRAPHY

13:30-13:50 D21 **Prof. Yan ZHU** (Keynote)

Zhejiang University, China

APPLICATIONS OF DART-MS IN PHYTOCHEMISTRY,
ORGANIC MONOLAYER CHARACTERISATION AND
HAIR FORENSICS

13:50-14:10 D22 **Prof. Teris A. VAN BEEK** (Keynote)

Wageningen University, Netherlands

14:10-14:30 D23 METAL NANOPARTICLES AS HIGHLY SELECTIVE
SEPARATION MATERIALS

Prof. Bo CHEN

Hunan Normal University, China

14:30-14:45 D24 PREPARATION OF CARBON-BASED ADSORBENTS FOR EXTRACTION OF TRACE ORGANIC ANALYTES FROM AQUEOUS MATRICES

Dr. Hai-Fang LI

Tsinghua University, China

14:45-15:00 D25 DEVELOPMENT OF NOVEL SEPARATION MATERIALS AND THEIR APPLICATIONS

Dr. Xianzhe SHI

Dalian Institute of Chemical Physics, CAS, China

15:00-15:30

Coffee Break

Chairman: Prof. Achille CAPPIELLO and Feng QU

15:30-15:50 D26 IDENTIFICATION AND QUANTITATION POTENTIAL OF DIRECT-EI LC-MS INTERFACE FOR THE ANALYSIS OF COMPLEX SAMPLES

Prof. Achille CAPPIELLO (Keynote)

University of Urbino, Italy

15:50-16:10 D27 APPLICATION POTENTIAL OF CAPILLARY ELECTROPHORESIS IN BIOANALYSIS

Prof. Feng QU

Beijing Institute of Technology, China

16:10-16:30 D28 PREPARATION OF L-LYSINE DERIVED ILS AS THE CHIRAL LIGANDS OF Zn(II) COMPLEXES IN LIGAND EXCHANGE CAPILLARY ELECTROPHORESIS

Prof. Li QI

Institute of Chemistry, CAS, China

16:30-16:45 D29 A RAPID AND SELECTIVE CAPILLARY ELECTROPHORESIS METHOD FOR SCREENING GABA-TRANSAMINASE INHIBITORS IN TRADITIONAL HERBAL MEDICINES

Dr. Xin DI

Shenyang Pharmaceutical University, China

16:45-17:00 D30 REVEALING THERMODYNAMIC BEHAVIOR OF
EPHEDRINE AND PSEUDOEPHEDRINE TARGETING
ORIENTED IMMOBILIZED β 2-ADRENOCEPTOR BY
ZONAL ELUTION
Dr. Qian LI
Northwest University, China

17:00-17:15 D31 RECENT TRENDS IN SOLID PHASE EXTRACTION
Dr. Guangqing LI
Dikma Technologies Incorporation, USA

Time: Oct. 26, 2013 AM (Saturday)

Location: Shandong Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Carolina SimÓand Prof. Rui ZHAO

8:30-8:50 D32 APPLICATION OF MS-BASED METABOLOMICS FOR
BIOMARKER DISCOVERY IN CLINICAL AND
IN-VITRO STUDIES
Prof. Carolina SimÓ (Keynote)
Laboratory of Foodomics, CIAL (CSIC), Spain

8:50-9:10 D33 RATIONAL DESIGN AND AFFINITY
CHROMATOGRAPHIC SCREENING OF PEPTIDE
PROBES FOR HIGHLY SPECIFIC DETECTION AND
IMAGING OF LIVE CANCER CELLS
Prof. Rui ZHAO
Institute of Chemistry, CAS, China

9:10-9:30 D34 HIGHLY SENSITIVE DETERMINATION OF DNA
METHYLATION AND HYDROXYMETHYLATION
Dr. Bi-Feng YUAN
Wuhan University, China

9:30-9:45 D35 A NEW METHODS FOR DETERMINATION OF
AROMATIC AMINE USING HPLC BASE ON CHITOSAN
DERIVATIZED CALIX[4]ARENE MODIFIED SILICA
STATIONARY PHASE COLUMN
Dr. Jianxiang CHU

Zhengzhou University, China

9:45-10:00 D36 ANALYSIS OF METAL BINDING ORGANIC COMPOUNDS USING NOBIAS CHELATE RESIN FOLLOWED BY UPLC
Dr. M. Razwan SARDAR
Tsinghua University, China

10:00-10:30

Coffee Break

Chairman: Prof. Coral BARBAS and Prof. Yongtan YANG

10:30-10:50 D37 IMPROVING GESTATIONAL DIABETES MELLITUS KNOWLEDGE THROUGH MULTIPLATFORM FINGERPRINTING
Prof. Coral BARBAS (Keynote)
San Pablo CEU University, Spain

10:50-11:10 D38 DETERMINATION OF MULTIPLE PESTICIDE RESIDUES IN TEA AND GRAPE WINE BY QUECHERS-GAS CHROMATOGRAPHY
Prof. Yongtan YANG
COFCO Nutrition and Health Research Institute, China

11:10-11:25 D39 THE QSRR study of Polycyclic Aromatic HydrocarbonS by using ANN method
Dr. Xiaotong ZHANG
Liaoning Shihua University, China

11:25-11:40 D40 ULTRASONIC SOLVENT EXTRACTION FOLLOWED HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH VARIABLE WAVELENGTH DETECTION FOR THE DETERMINATION OF MULTICLASS FUNGICIDE RESIDUES IN SOIL
Dr. Yared MERDASSA
Research Center for Eco-Environmental Sciences, CAS, China

11:40-11:55 D41 DETERMINATION OF POLYCBLOROBIPHENYLS IN AQUATIC PRODUCTS USING ON-LINE GEL

PERMEATION CHROMATOGRAPHY-GAS
CHROMATOGRAPHY/MASS SPECTROMETRY

Xiao-hua LIU

Shimadzu (China) Co., Ltd, China

12:00

Closing

POSTER SESSION

Time: Oct. 23, 2013 AM (Wednesday)

Location: 3rd floor of the Hotel Nikko New Century Beijing

- D42 DEVELOPMENT OF A NEW TYPE OF METHYLCALIX[4]RESORCINARENE-BONDED SILICA PARTICLES AS CHIRAL STATIONARY PHASE FOR LIQUID CHROMATOGRAPHY
Yaping ZHANG, Zhili LI*
Shu Fang Soh, Shu Hui Pang, and Yinhan Gong
Department of Obstetrics and Gynaecology, Yong Loo Lin School of Medicine, National University of Singapore, 1E Lower Kent Ridge Road, Republic of Singapore
- D43 ANALYTICAL METHOD FOR URACIL AND ADENINE IN HUMAN PLASMA BY HPLC WITH TETRAAZACALIX [2] ARENE [2] TRIAZINE MODIFIED SILICA STATIONARY PHASE
Yongming ZHANG, Wenfen ZHANG, Zhifen DENG, Shusheng ZHANG*
School of Chemistry and Molecular Engineering, Henan, Zhengzhou University, Zhengzhou 450052, P. R. China
- D44 A SIMPLE METHOD FOR SIMULTANEOUS EXTRACTION OF METABOLOME AND LIPIDOME FOR LC-MS ANALYSIS AND ITS APPLICATION TO TRANSGENIC RICE LEAVES
Yuwei CHANG, Chunxia ZHAO, Junjie ZHANG, Xin LU, Guowang XU
Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China
- D45 SEPARATION AND PURIFICATION OF ANTIOXIDANTS FROM AMPELOPSIS HETEROPHYLLA VIA COUNTERCURRENT CHROMATOGRAPHY
Peng CHEN, Datong WU, Yuanjiang PAN
Department of Chemistry, Zhejiang University, Hangzhou 310027, China
- D46 ANALYSIS OF HIGH- AND LOW-DOSED VITAMINS IN A SINGLE RUN USING THE AGILENT 1200 INFINITY SERIES HIGH DYNAMIC RANGE DIODE ARRAY DETECTOR SOLUTION
Angelika Gratzfeld-Huesgen
Agilent Technologies
- D47 DETECTION OF TRACE LEVEL HERBICIDES FROM DRINKING WATER, SURFACE WATER AND GROUND WATER BY AUTOMATED ONLINE SPE-LC TRIPLE QUADRUPLE MS/MS ANALYSIS
Sonja SCHNEIDER, Bettina SCHUHN, Edgar NAEGELE
Agilent Technologies
- D48 TRACE LEVEL ANALYSIS OF HERBICIDES IN DRINKING AND

SURFACE WATER BY ONLINE-SPE LC/TRIPLE QUADRUPOLE
MS TO THE LOWER PPT RANGE

Edgar NAEGELE
Agilent Technologies

ANALYSIS OF CHLORAMPHENICOL IN HONEY BY ON-LINE
PRETREATMENT LC/MS/MS

Shin-ichi KAWANO,^{1,2} Hong-Yuan HAO² Yuki HASHI,² and Jin-Ming
LIN¹

D49 ¹Department of Chemistry, Beijing Key Laboratory of Microanalytical
Methods and Instrumentation, Tsinghua University. Beijing 100084,
China

² Shimadzu Global COE, Shimadzu (China) Co., Ltd. Shanghai 200052,
China

QUALITY ANALYSIS OF VIRGIN OLIVE OILS – THERMAL
TREATMENT ANALYSIS

D50 Sonja SCHNEIDER
Agilent Technologie

COMPARISON OF RETENTION OF EIGHT HAAS ON THREE
DIFFERENT HPLC COLUMNS PACKED WITH ODS AND
CALIXARENE STATIONARY PHASES

Wenfeng ZHANG¹, Lin LIN¹, Wenjie ZHAO^{1,2}, Suyan SUN¹, Fuwei
XIE^{3,*}, Zhifen DENG¹, Shusheng ZHANG^{1,*}

D51 ¹School of Chemistry and Molecular Engineering, Henan, Zhengzhou
University, Zhengzhou 450052, P. R. China;

²School of Chemistry and Chemical Engineering, Henan University of
Technology, Zhengzhou 450001, P. R. China;

³Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou 450001,
P.R. China

DETERMINATION OF MALEIC ACID (ANHYDRIDE) IN STARCH
BY ION CHROMATOGRAPHY

D52 Zhongyang HU, Mingli YE
Thermo Fisher Scientific, Shanghai, China, 201203

INVESTIGATION OF THE MAJOR CONSTITUTES IN REHMANNIA
GLUTINOSA-DIOSCOREA OPPOSITE THUNB HERB-PAIR
EXTRACT BY HPLC AND UV-SPECTROPHOTOMETRY METHODS
Yingying DONG ^{a,b}, Jinhua ZHU^{a,b}, Minghua LU ^a, Xiuhua LIU ^{a,b},
Dongbao ZHAO ^{a,b}

D53 ^a Institute of Environmental and Analytical Sciences, College of
Chemistry and Chemical Engineering, Henan University, Kaifeng
475004, PR China;

^b Key Laboratory of Natural Medicine and Immune-Engineering of
Henan Province, Henan Province, Kaifeng 475004, PR China

D54 SEPARATION IMPROVEMENTS WITH ORTHOGONAL CH
-EMISTRIES AND 2D LC USING SUPERFICIALLY POROUS

COLUMNS

Bill LONG¹, Jason LINK¹, Maureen JOSEPH¹, Rongjie FU²

¹Agilent Technologies 2850 Centerville Rd. Wilmington, Del. USA 19808;

²Agilent Technologies (Shanghai) Co. Ltd., 412 Ying Lun Rd, Pu Dong, Shanghai 200131, China

METHODS FOR IMPROVING LABORATORY PRODUCTIVITY BY REDUCING UHPLC AND LC/MS SYSTEM DOWNTIME

Anne MACK¹, William LONG¹, Jason LINK¹, Maureen JOSEPH¹, Norwin von DOEHRN¹, Wilroy BENNE¹, Rongjie FU²

D55 ¹Agilent Technologies 2850 Centerville Rd. Wilmington, Del. USA 19808;

²Agilent Technologies (Shanghai) Co. Ltd., 412 Ying Lun Rd, Pu Dong, Shanghai 200131, China

SIZE EXCLUSION CHROMATOGRAPHY OF BIOMOLECULES – DETECTOR COMBINATIONS TO OBTAIN MAXIMUM INFORMATION WITH MINIMUM EFFORT

Rong-Jie FU¹ & Andrew COFFEY²

D56 ¹Agilent Technologies (Shanghai) Co. Ltd., 412 Ying Lun Rd, Pu Dong, Shanghai 200131, China

² Agilent Technologies UK Ltd., Essex Road, Church Stretton, Shropshire, SY6 6AX, UK

INTERNATIONAL COMPARISON APMP.QM-P23: DETERMINATION OF BENZOIC ACID IN ORANGE JUICE

D57 Zhen GUO, Hui FU, Xiuqin LI, Qinghe ZHANG

National Institute of Metrology, Beijing 100013, China

ANALYSIS OF HYDROLYZED AMINO ACIDS OF BREAST MILK BY ONLINE PRECOLUMN DERIVATIZATION

D58 Bin YUAN, Yan JIN

Application research center, Thermofisher Scientific, Shanghai , China, 201203

DETERMINATION OF CYANIDE IN DISTILLED LIQUORS BY ANION EXCHANGE CHROMATOGRAPHY WITH PULSED AMPEROMETRIC DETECTION (AEC-PAD)

D59

Renyong LI, Mingli YE, Lina LIANG

Thermo Fisher Scientific, Beijing, 100080

A SVM-RFE FEATURE SELECTION METHOD BASED ON COMBINATORIAL VARIABLES FOR METABOLOMICS

Xiangfei DING¹, Weijian ZHANG¹, Lina ZHOU², Hai WEI¹, Xiaomei WANG¹, Xiaohui LIN¹

D60 ¹ School of Computer Science & Technology, Dalian University of Technology, 116024 Dalian, China;

² CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

USING TWO-DIMENSIONAL CHROMATOGRAPHY TANDEM MASS SPECTROMETRY WITH VALVE-SWITCHING TO DESALT THE MOBILE PHASE FOR ANALYSIS OF CEFDINIR RELATED SUBSTANCES

D61 Luye LIU, Yan JIN

Shanghai application lab, Thermofisher Scientific, Shanghai 201203, China

A 96-WELL PLATE APPARATUS FOR HIGH-THROUGHPUT MEASUREMENT OF OCTANOL/WATER DISTRIBUTION COEFFICIENT BASED ON HOLLOW FIBER MEMBRANE SOLVENT MICROEXTRACTION TECHNIQUE

D62 James J. BAO, Xiaojing LIU, Zhengchang ZHOU and Youxin LI

Tianjin Key Laboratory for Modern Drug Delivery and High-Efficiency, School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, China

MICROWAVE-ASSISTED EXTRACTION IN COMBINATION OF HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY FOR RAPID DETERMINATION OF FLAVONOIDS IN MYRICA RUBRA SIEB. ET ZUCC. LEAVES

D63 Yuandan MA, Youping LIU, Xin WANG, Xin DI*

School of Pharmacy, Shenyang Pharmaceutical University, 103 Wenhua Road, Shenyang 110016, PR China

ANALYSIS OF ACTIVE AND INACTIVE INGREDIENTS IN TABLETS BY TWO DIFFERENT COLUMNS CONNECTED TO TWO DIFFERENT DETECTORS BY SINGLE INJECTION HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

D64 Muhammad SAJID, Na NA, Jin OUYANG*

College of Chemistry, Beijing Normal University, Beijing 100875, China

PURIFICATION OF DIASTEREOMER IN TENOFOVIR PRODRUG BY NP-HPLC&RP-HPLC

D65 Lanhui YANG¹, Hongyu WANG², Yunhua LI³, Qunjie WANG

Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462,China

- ON-LINE COMPREHENSIVE TWO DIMENSIONAL LIQUID CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY METHOD FOR PHOSPHOLIPID ANALYSIS
 D66 Shuangyuan WANG, Xianzhe SHI, Qin YANG, Guowang XU*
 CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China
- ANALYSIS OF CLENBUTEROL IN PIG PLASMA BY FUNCTIONAL MEMBRANE-HPLC-TANDEM MASS SPECTROMETER
 D67 Wan WANG*; Jingran Zhang; Qunjie WANG; Jianbo LIU
 Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462,China
- AUTOMATED AND SENSITIVE ANALYSIS OF BRASSINOSTEROIDS BY ON-LINE POLYMER MONOLITH MICROEXTRACTION COUPLED TO LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY
 D68 Xin WANG, Min LI, Cuilan CHANG, Yu BAI and Huwei LIU*
 Beijing National Laboratory for Molecular Sciences, Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, PR China
- PHENYL-FUNCTIONALIZED ETHYL-BRIDGED HYBRID ORGANIC-INORGANIC MONOLITHIC CAPILLARY COLUMN FOR LIQUID CHROMATOGRAPHY
 D69 Ci WU, Yu LIANG, Zhen LIANG, Lihua ZHANG*, and Yukui ZHANG
 Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic Research and Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China
- DETERMINATION OF THE POLYMER IMPURITIES IN CEFODIZIME SODIUM BY SIZE EXCLUSION CHROMATOGRAPHY EUGENE
 D70 Yuexing ZHAO¹, Kunpeng XUE¹, Houcai ZHANG¹, Hui YANG¹
¹ Welch Materials, Inc., Shanghai 201203, China
- HIGH-THROUGHPUT AND AUTOMATIC TYPING VIA HUMAN PAPILLOMAVIRUS IDENTIFICATION MAP FOR CERVICAL CANCER SCREENING AND PROGNOSIS BASED ON PCR-RFLP-MCE SYSTEM
 D71 Linglu YI^{1,2}, Xueqin XU¹, Jin-Ming LIN^{2,*}
¹ College of Chemistry and Chemical Engineering, Fuzhou University, Fuzhou 350108, China;
²Beijing Key Laboratory of Microanalytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, China
- MACROLIDES IN HONEY USING AGILENT BOND ELUT PLEXA
 D72

SPE, POROSHELL 120, AND LC/TANDEM MS
Chen-Hao (Andy) ZHAI and Rong-jie FU
Agilent Technologies Shanghai Co. Ltd.

D73 DETERMINATION OF NATURAL VITAMIN E AND
BENZOPYRENE BY HIGH PERFORMANCE LIQUID
CHROMATOGRAPHY
Xuan SU*;Jingran ZHANG; Qunjie WANG
Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462,China.

D74 FREE AMINO ACIDS IN PLANT ANALYSIS USING ULTRA HIGH
PERFORMANCE LIQUID CHROMATOGRAPHY-SINGLE
QUADRUPLE MASS SPECTROMETRY
Junjie ZHANG, Chunxia ZHAO, Yuwei CHANG, Yanni ZHAO, Xin
LU, Guowang XU
CAS Key Laboratory of Separation Science for Analytical Chemistry,
Dalian Institute of Chemical Physics, Chinese Academy of Sciences,
Dalian 116023, China

D75 SIMULTANEOUS DETERMINATION OF NUCLEOTIDES AND
NUCLEOSIDES IN HUMAN MILK AND INFANT FORMULA
USING REVERSED-PHASE LIQUID
CHROMATOGRAPHY-ELECTROSPRY IONIZATION-MASS
SPECTROMETRY
Tingting ZHANG[1], Mingfei ZENG, Yan JIN, Lvye LIU
Shanghai lab, Thermofisher Scientific, Shanghai 201203, China

D76 QUALITY STANDARD FOR ARUNDINA GRAMINIFOLIA
(D.DON)HOCHR.RHIZOMA
Xiaomei ZHANG
Beijing institute of technology

D77 SAMPLE PRETREATMENT AND DETERMINATION OF
MONOSACCHARIDES IN PLANTS WITH MICROWAVE
ASSISTED EXTRACTION AND SOLID PHASE EXTRACTION
Ying ZHANG^{1,2}, Hai-Fang LI², Jin-Ming LIN^{2,*}
¹ State Key Laboratory of Chemical Resource Engineering, School of
Science, Beijing University of Chemical Technology, Beijing 10029,
China;
² Beijing Key Laboratory of Microanalytical Methods and
Instrumentation, Department of Chemistry, Tsinghua University, Beijing
100084, China.

D78 DETERMINATION OF TRACE BROMIDE IN SODIUM CHLORIDE
POWDER WITH 2D ION CHROMATOGRAPHY
Hongguo ZHENG¹, Naijie SHI², Mingli YE¹
¹ Thermofisher scientific, Building 7, No.87 Moxiang Road, Jinjiang
Dist, Chengdu, P.R.China, 610023;
² National Institute of Metrology, No.18, Bei San Huan Dong Lu,
Chaoyang Dist, Beijing, P.R.China, 100013

- D79 RAPID DETERMINATION OF TEN COLORANTS IN LIPSTICK SAMPLES BY ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED WITH TRIPLE QUADRUPOLE MASS SPECTROMETRY UTILIZING TRANSITIONS FROM DOUBLE-CHARGED PRECURSOR IONS
Qisheng ZHONG, Xiongxiang QIU, Caiyong LIN, Lingling SEN, Yin HUO, Song ZHAN, Taohong HUANG
Shimadzu Global COE for Application & Technical Development, Guang Zhou , 510010, China
- D80 ANALYSIS OF VOLATILE HALOGENATED & AROMATIC HYDROCARBONS, ORGANOCHLORIDE AND ORGANOPHOSPHORUS PESTICIDES IN WATER WITH A VERSATILE GAS CHROMATOGRAPHY SYSTEM AND HEADSPACE SAMPLER
Chunxiao WANG¹, Jingqiang ZHANG², Shun NA³
¹ Agilent Technologies (Shanghai) Co Ltd., Shanghai, 200131, China;
² Agilent Technologies (China) Co Ltd., Shanghai, 200131, China;
³ Agilent Technologies (Shanghai) Co Ltd., Beijing, 100102, China
- D81 MODULAR CHEMISTRY TECHNOLOGY DESIGNED SPECIFICALLY FOR MICRO GAS CHROMATOGRAPHY ANALYSIS ASSOCIATED WITH THE CHINA SHALE GAS PLAY
Thomas SZAKAS¹, Coen DUVEKOT², and Remko Van-Loon²
¹ Agilent Technologies, 2850 Centerville Road, Wilmington, Delaware, 19808, USA;
² Agilent Technologies, Herculesweg 8, 4338 PL Middelburg, The Netherlands
- D82 ON COLUMN INTERFACE WITH PARTIALLY CONCURRENT SOLVENT EVAPORATION BASED ON VALVE SWITCHING FOR ON-LINE COUPLING OF LIQUID CHROMATOGRAPHY AND GAS CHROMATOGRAPHY
Ting FEI, Dawei QI, Yunfei SHA, Yaqin GUO, Da WU, Baizhan LIU
Technical Center of Shanghai Tobacco Group Co. Ltd., Shanghai 200082, China
- D83 DETERMINATION OF 3-CHLORO-1,2-PROPANEDIOL IN SOY SAUCE BY SUPPORTED LIQUID EXTRACTION COUPLED WITH GAS CHROMATOGRAPHY-MASS SPECTROMETRY
Suzi QIN^{*}; Lingling LI; Wan WANG
Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462, China
- D84 A NOVEL WALL COATED OPEN TUBULAR COLUMN FOR ANALYSIS OF SULFUR COMPOUNDS USING SCD
Gary LEE, Yun ZOU, Allen VICKERS, Mitch HASTINGS
Agilent Technologies Inc. Folsom CA 95630, USA
- D85 PLOT COLUMN TECHNOLOGY DEVELOPMENT ENHANCES

OPERATION WITH INTEGRATED PARTICLE TRAPPING

Yun ZOU¹, Gary LEE², Allen VICKERS², Jan PEENE²

¹Agilent Technologies. Shanghai 200131, China;

²Agilent Technologies Inc. Folsom CA 95630, USA

A NEW METHOD FOR DETERMINATION OF FLAVONOIDS IN TEA USING A FUNCTIONALIZED CALIX[4]ARENE STATIONARY PHASE COLUMN

D86 Fei WANG¹, Wenfen ZHANG¹, Wenjie ZHAO^{1,2}, Zhifen DENG¹, Shusheng ZHANG^{1,*}

¹School of Chemistry and Molecular Engineering, Henan, Zhengzhou University, Zhengzhou 450052, P. R. China;

²School of Chemistry and Chemical Engineering, Henan University of Technology, Zhengzhou 450001, P. R. China

HUMAN THROMBIN AND APTAMER INTERACTION ASSESSMENT BASED ON PPKCE AND LIF DETECTION

D87 Ginggang WU¹, Xinying ZHAO², Feng QU^{1*}

¹ School of Life Science, Beijing Institute of Technology, Beijing 100081, China;

² Beijing Centre for Physical and Chemical Analysis, Beijing 100089, China

SIMULTANEOUS SEPARATION AND DETERMINATION OF FIVE ANTHRAQUINONES IN RHUBARBON BIS(TETRAOXA-CALIX[2]ARENE[2]TRIAZINE) STATIONARY PHASE

D88 Kai HU¹, Suxiang FENG¹, Zhenqiang ZHANG¹, Wenjie ZHAO², Shusheng ZHANG^{2,*}

¹Henan University of Traditional Chinese Medicine, Zhengzhou 450008, China;

² College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou 450001, P. R. China

PREPARATION AND CHARACTERIZATION OF L-ASPARAGINASE ENZYME REACTOR BASED ON GOLD NANOPARTICLE FOR THE HYDROLYSIS OF L-GLUTAMINE

D89 Juan QIAO¹, Xiaoyu MU^{1,2}, Li QI^{1*}, Yi CHEN¹

¹Key Laboratory of Analytical Chemistry for Living Biosystems Institute of Chemistry, Chinese Academy of Sciences, No. 2 Zhongguancun Beiyijie, Beijing 100190, P.R. China;

² Graduate School, University of Chinese Academy of Sciences, 19A Yuquanlu, Beijing 100049, P. R. China

POROUS POLYMER MONOLITHIC COLUMN COPOLYMERIZED FROM FUNCTIONALIZED GRAPHENE OXIDE AS A FUNCTIONAL CROSSLINKER FOR SEPARATION OF SMALL MOLECULES BY HPLC

D90 Yaping LI^{1,2}, Li QI^{1*}, Huimin MA¹, Yi CHEN¹

¹ Key Laboratory of Analytical Chemistry for Living Biosystems,

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

² Graduate School, University of Chinese Academy of Sciences, No. 19A Yuquanlu, Beijing 100049, P. R. China

MICROWAVE-ASSISTED SOLID-PHASE EXTRACTION OF POLYCYCLIC AROMATIC HYDROCARBONS IN ENVIRONMENTAL WATER WITH AMPHIPHILIC BLOCK COPOLYMER MODIFIED FE₃O₄ NANOPARTICLES

Nan LI^{1,2}, Li QI^{*1}, Ying SHEN^{1,2}, Yaping LI^{1,2}, Yi CHEN¹

D91 ¹ Key Laboratory of Analytical Chemistry for Living Biosystems Institute of Chemistry, Chinese Academy of Sciences, No. 2 Zhongguancun Beiyijie, 100190, P.R. China;

² Graduate School, University of Chinese Academy of Sciences, No. 19A Yuquanlu, Beijing 100049, P. R. China

CRUDE TO PURE - SOLID COMPOUNDS FROM A MACHINE

Bob BOUGHTFLOWER¹, Tim UNDERWOOD¹, Przemek STASICA², Yosuke IWATA³, Tomoyuki YAMAZAKI³, Junichi MASUDA³, Tsutomu OKOBA³, Tsuyoshi MORIKAWA³, Neil LOFTUS⁴, Masayuki NISHIMURA⁵, Robert BUCO⁵

D92 ¹ GlaxoSmithKline, Stevenage, UK;

² Shimadzu UK, resident in GSK Stevenage, UK;

³ Shimadzu Corporation, LC Business Unit, Kyoto, Japan;

⁴ Shimadzu Corporation, MSBU Overseas, Manchester, UK;

⁵ Shimadzu Corporation, Life Science Business Department, Columbia, MD, USA.

APPLICATION OF RGO-GOLD NANOCOMPOSITES FOR THE PRECONCENTRATION OF HETEROCYCLIC AROMATIC AMINES

Connial TAN¹, Yiru WANG^{1*}, Zhuo DENG¹, Xinhong SONG¹, and Xi CHEN^{1,2*}

D93 ¹ Department of Chemistry, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, Fujian 361005, China;

² State Key Laboratory of Marine Environmental Science, Xiamen University, Xiamen, 361005, China

TETRAAZACALIX[2]ARENE[2]TRIAZINE MODIFIED SILICA AS SOLID-PHASE EXTRACTION ADSORBENT FOR THE DETERMINATION OF THREE PESTICIDE RESIDUES IN APPLE SAMPLES

D94 Wenfen ZHANG, Lin LIN, Suyan SUN, Zhifen DENG, Shusheng ZHANG^{*}

School of Chemistry and Molecular Engineering, Henan, Zhengzhou University, Zhengzhou 450052, P. R. China

TRIAZINE-BASED COVALENT ORGANIC FRAMEWORKS (CTF-1) AS HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC PACKING

D95 WenJie ZHAO^{1,2}, Shusheng ZHANG^{2,*}

¹ School of Chemistry and Chemical Engineering, Henan University of

Technology, Zhengzhou 450001, P. R. China;

²School of Chemistry and Molecular Engineering, Henan, Zhengzhou University, Zhengzhou 450052, P. R. China

PILLAR[5]ARENE STATIONARY PHASE FOR HPLC

WenJie ZHAO^{1,2}, Jianxiang CHU², Chenchen HU², Baoxian YE², Shusheng ZHANG²,

D96

¹School of Chemistry and Chemical Engineering, Henan University of Technology, Zhengzhou 450001, P. R. China;

²School of Chemistry and Molecular Engineering, Henan, Zhengzhou University, Zhengzhou 450052, P. R. China

CAPILLARY MONOLITHIC COLUMNS MODIFIED WITH COPPER OXIDE AND CUPROUS SULFIDE NANOPARTICLES FOR SELECTIVE ENRICHMENT OF HETEROCYCLIC COMPOUNDS AND AMINOGLYCOSIDE ANTIBIOTICS

D97

Yuanhong SHAN, Xianzhe SHI, Guowang XU

CAS Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Science, Dalian 116023, China

POLY(GLYCIDYLMETHACRYLATE/N-METHYLOLACRYLAMIDE-CO-ETHYLENE DIMETHACRYLATE) MONOLITH COUPLED TO HIGH PERFORMANCE LIQUID CHROMATOGRAPHY FOR THE DETERMINATION OF ATP, ADP AND AMP IN BIOLOGICAL SAMPLES

D98

Dan LIU, Qiong JIA

College of Chemistry, Jilin University, Changchun 130012, China

MAGNETIC SOLID-PHASE EXTRACTION BASED ON FE₃O₄/SiO₂/POLY(ACRYLAMIDE-CO-METHYLENE DIACRYLAMIDE) COMPOSITE MICROSPHERES FOR THE DETERMINATION OF NATAMYCIN IN CHEESES

D99

Miaomiao TIAN, Qiong JIA

College of Chemistry, Jilin University, Qianjin Street 2699#, Changchun 130012, China

FACILE SYNTHESIS OF HYBRID MAGNETIC NANOPARTICLES FOR THE HIGHLY SELECTIVE ENRICHMENT OF MODIFIED NUCLEOSIDES AND RIBOSYLATED METABOLITES

D100

Hua LI, Yuanhong SHAN, Lizhen QIAO, Abo DOU, Xianzhe SHI and Guowang XU

CAS Key Lab of Separation Sciences for Analytical Chemistry, National Chromatographic R&A Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, 116023, China

MEASUREMENT OF PERMEABILITY BY HOLLOW FIBER LIQUID-PHASE MICROEXTRACTION PERMEATION MODEL AND EXPLORATION OF THE RELATIONSHIP OF PERMEABILITY AND PH BASED ON THE PERMEATION MODEL

D101

James J. BAO, Xiaojing LIU and Youxin LI
Tianjin Key Laboratory for Modern Drug Delivery and High-Efficiency, School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, China

D102 THERMORESPONSIVE CATIONIC COPOLYMERS CROSSLINKED ONTO SILICA SURFACE VIA ATOM TRANSFER RADICAL POLYMERIZATION FOR CHROMATOGRAPHIC SEPARATION
Yu CAO, Zongjian LIU, Rongji DAI
School of Life Science, Beijing Institute of Technology, Beijing 100081, China

D103 STUDY OF SURFACE-BONDED DICATIONIC IONIC LIQUIDS AS STATIONARY PHASES FOR HYDROPHILIC INTERACTION CHROMATOGRAPHY
Lizhen QIAO, Xianzhe SHI, Xin LU, Guowang XU
Dalian Institute of Chemical Physics, CAS, Dalian 116023, China

D104 THE DETERMINATION OF ACRYLAMIDE IN FRIED POTATO CRISPS BY SOLID PHASE EXTRACTION
Ruyi WANG^{*}; Wan WANG
Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462, China.

D105 THE DETERMINATION OF BENZO(A)PYRENE IN VEGETABLE OIL BY SOLID PHASE EXTRACTION
Ruyi WANG^{*}; Wan WANG
Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462, China

D106 A MIX-MODEL HPLC STATIONARY PHASE WITH REVERSE-PHASE ADSORPTION AND ANION-EXCHANGE MECHANISMS
Lei YIN^{*}; Yang ZHAO; Wan WANG
Tianjin Bonna-Agela Technologies Co.,Ltd., Tianjin 300462, China

D107 A NOVEL METHOD FOR IDENTIFICATION AND RELATIVE QUANTIFICATION OF N-TERMINAL PEPTIDES USING METAL ELEMENT CHELATED TAGS COUPLED WITH MASS SPECTROMETRY
Hui YAN, Feiran HAO, yangjun ZHANG, Xiaohong QIAN
State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing 102206, China

D108 ANALYSIS OF NUCLEOSIDES BY MICROEMULSION ELECTROKINETIC CAPILLARY CHROMATOGRAPHY COUPLED WITH FIELD-AMPLIFIED SAMPLE INJECTION
Yu HE¹, Lin ZHANG¹, Jintian CHEN¹, Guonan CHEN¹, Zongbao CHEN¹, Zian LIN¹, Lan ZHANG^{1,2*}
¹Ministry of Education Key Laboratory of Analysis and Detection for Food Safety, Fujian Provincial Key Laboratory of Analysis and Detection for Food Safety, college of chemistry and chemical Engineering, Fuzhou University, Fuzhou, Fujian, 350002, China

- D109 A CAPILLARY ELECTROPHORESIS METHOD INVOLVING GEL PROTEIN TRANSFER AND ON-LINE PROTEOLYTIC DIGESTION
James J. BAO, Henan GAO and Youxin LI
School of Pharmaceutical Science & Technology, Tianjin University, Tianjin 300072, China
- D110 RAPID DETERMINATION OF PROTEIN BINDING CONSTANT BY A PRESSURE-MEDIATED AFFINITY CAPILLARY ELECTROPHORESIS METHOD
James J. BAO, Henan GAO and Youxin LI
School of Pharmaceutical Science & Technology, Tianjin University, Tianjin 300072, China
- D111 AN AMINO ACID IONIC LIQUID-ASSISTED CHIRAL LIGAND EXCHANGE CAPILLARY ELECTROPHORESIS SYSTEM AND ITS ALLICATION IN SCREENING D-AMINO ACID OXIDASE INHIBITORS
Xiaoyu MU^{1,2}, Li QI^{*1}, Juan QIAO¹, Huimin MA¹, Yi CHEN¹
¹ Key Laboratory of Analytical Chemistry for Living Biosystems Institute of Chemistry, Chinese Academy of Sciences, No. 2 Zhongguancun Beiyijie, Beijing 100190, P.R. China;
² Graduate School, University of Chinese Academy of Sciences, No. 19A Yuquanlu, Yuquanlu, Beijing 100049, P. R. China.
- D112 RECENT ADVANCES IN MICROCHIP ELECTROPHORESIS
Lu-meng ZHAO, James Jian-min Bao, You-xin LI^{*}
Tianjin Key Laboratory for Modern Drug Delivery & High-Efficiency, School of Pharmaceutical Science and Technology, Tianjin University, Tianjin 300072, China
- D113 GENETIC AND EPIGENETIC ANALYSIS OF BLADDER CANCER BY USING SIZE-BASED MICROSIEVE DEVICE AND POLYMERASE CHAIN REACTION (PCR) COMBINED WITH MICROCHIP ELECTROPHORESIS ON URINE EXFOLIATED CELLS
Yong DENG^{1,2}, Hai-Fang LI², Jin-Ming LIN^{2,*}
¹ State Key Laboratory of Chemical Resource Engineering, School of Science, Beijing University of Chemical Technology, Beijing, 100029, China;
² Beijing Key Laboratory of Microanalytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing, 100084, China.
- D114 INTERACTION COMPARISON OF FERULIC ACID AND HOMOLOGOUS THROMBIN BY AFFINITY CAPILLARY ELECTROPHORESIS
Tie GAO¹, Yujuan LI¹, Xinying ZHAO², Wanlu OU¹, Feng QU¹[1]
¹ School of Life Science, Beijing Institute of Technology, Beijing 100081, China;

² Beijing Centre for Physical and Chemical Analysis, Beijing 100094, China

D115 FAST DETERMINATION OF ALKALOIDS IN LYCOPODIUM JAPONICUM USING MICROWAVE-ASSISTED EXTRACTION AND HIGH-PERFORMANCE CAPILLARY ELECTROPHORESIS
He HUANG, Youping LIU, Xin WANG, Xin DI*
School of Pharmacy, Shenyang Pharmaceutical University, 103 Wenhua Road, Shenyang 110016, PR China

D116 MATRIX SOLID PHASE DISPERSION EXTRACTION FOR DETERMINATION OF FLAVONOIDS IN FLOWER OF CHRYSANTHEMUM MORIFOLIUM RAMAT. BY CAPILLARY ZONE ELECTROPHORESIS
Huijie ZHANG, Jiayuan SHI, Mingyuan SHAO, Hanqi ZHANG*
College of Chemistry, Jilin University, Changchun 130012, PR China

D117 DETERMINATION OF 8-HYDROXY-2'-DEOXYGUANOSINE IN URINE SAMPLE BY CAPILLARY ELECTROPHORESIS WITH LASER-INDUCED FLUORESCENCE DETECTION
Xiangying MENG¹, Xingmei SUO², Yongsheng DING¹
¹ College of Life Sciences, University of Chinese Academy of Sciences, Beijing 100049, China;
² School of Information Engineering, Minzu University of China, Beijing 100081, China

D118 DETERMINATION OF GAMBOGIC ACID BY NONAQUEOUS CAPILLARY ELECTROPHORESIS
Wanlu OU¹, Yujuan LI¹, Tie GAO¹, Xinying ZHAO², Feng QU^{1*}
¹ School of Life Science, Beijing Institute of Technology, Beijing 100081, China;
² Beijing Centre for Physical and Chemical Analysis, Beijing 100094, China

D119 INTERACTION COMPARISON OF HUMAN THROMBIN PROXIMIT -Y PROBES WITH FOUR PROTEINS BY CAPILLARY ELECTROPHORESIS
Yong WANG¹, Qingsheng Liu², Feng QU¹[1]
¹ School of Life Science, Beijing Institute of Technology, Beijing 100081, China;
² Feed Research Institute Chinese Academy of Agricultural Sciences, Beijing 100081, China

D120 INTERACTION CHARACTERIZATION OF PEPTIDE NUCLEIC ACID AND COMPLEMENTARY DNA BY CAPILLARY ELECTROPHORESIS
Xiaoqian WANG¹, Peifeng GAO¹, Jinggang WU¹, Xinying ZHAO², Feng QU¹[1]
¹ School of Life Science, Beijing Institute of Technology, Beijing 100081, China;

² Beijing Centre for Physical and Chemical Analysis, Beijing 100094, China

INTERACTION CHARACTERIZATION OF CLENBUTEROL WITH SSDNA BY CAPILLARY ZONE ELECTROPHORESIS

Yong WANG¹, Xinying ZHAO², Feng QU¹[1]

D121 ¹ School of Life Science, Beijing Institute of Technology, Beijing 100081, China;

² Beijing Centre for Physical and Chemical Analysis, Beijing 100089, China

DETERMINATION OF TRACE METAL ELEMENTS IN WATER BY ICP-MS AFTER PRECONCENTRATION AND SEPARATION USING NOBIAS CHELATE RESINS

D122 Weifei ZHANG, M. Razwan Sardar, Haifang LI, Jin-Ming LIN
Department of Chemistry, Beijing Key Laboratory of Micronalytical Methods and Instrumentation, The Key Laboratory of Bioorganic Phosphorus Chemistry & Chemical Biology, Tsinghua University

SYNTHESIS OF MOLECULARLY IMPRINTED POLYMER FOR PRE-CONCENTRATION OF ESCULETIN

D123 M. Razwan SARDAR, Jin-Ming LIN
Department of Chemistry, Tsinghua University, Haidian District, Beijing, 100084

SCHEDULE OF SESSIONS

E. MAGNETIC RESONANCE

CHAIRMAN: Prof. Maili LIU

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Jiangsu Hall, 2nd Floor, Hotel Nikko New Century Beijing

14:00-14:05

Opening Speech by Prof. Maili LIU

Chairman: Prof. Maili LIU

14:05-14:35 E2 SOLID-STATE NMR CHARACTERIZATION OF POROUS MATERIALS AT ULTRAHIGH MAGNETIC FIELD
Yining HUANG (Keynote)
Department of Chemistry, The University of Western Ontario, London, Ontario, Canada

14:35-15:05 E3 CONVERSION OF CH₄ AND CO₂ ON ZINC-MODIFIED H-ZSM-5 ZEOLITE: MECHANISM REVEALED BY SOLID-STATE NMR
Wei WANG (Keynote)
State Key Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, Gansu 730000, P. R. China

15:05-15:25 E4 INTERACTION BETWEEN HISTIDINE AND Zn(II) METAL IONS OVER A WIDE pH
Lei ZHOU
State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, the Chinese Academy of Sciences, Wuhan 430071, China

15:25-15:40

Coffee Break

Chairman: Prof. Yining HUANG

15:40-16:10 E5 SOLID STATE NMR STUDIES OF CRYSTALLINE PEO/LI⁺ COMPLEX SYSTEMS
Yefeng YAO (Keynote)
Department of Physics & Shanghai Key Laboratory of Magnetic Resonance, East China Normal University, North Zhongshan Road 3663, 200062 Shanghai, P. R. China

16:10-16:30 E6 HIGH-RESOLUTION STRUCTURE DETERMINATION

OF PROTEINS FROM PSEUDOCONTACT SHIFTS IN
MAGIC ANGLE SPINNING NMR

Jianping LI

Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Centre for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, 430071, PR China

A POWERFUL PULSE PROGRAMMER FOR MAGNETIC
RESONANCE IMAGING USING A DIGITAL SIGNAL
PROCESSOR

16:30-16:50 E7

Liang XIAO

College of Information Science and Technology, Beijing University of Chemical Technology, Beijing 100029, China

AUTOMATIC SEARCH SHIMMING WITH THE
MEASURED B_0 FIELD MAP

16:50-17:10

E8

Kan SONG

Chinese Academic of Science, Wuhan Institute of Physics & Mathematic, State Key laboratory of Magnet Resonance & Atomic & Molecular Physics, Wuhan 430071, China

CRAFT – A DECONVOLUTION TOOL FOR COMPLEX
NMR SPECTRA SPECTRA

17:10-17:30

E9

Krish Krishnamurthy¹, Xi Meng²

¹ Research Products Division, Agilent Technologies, Santa Clara, CA, 95051 USA

² Research Products Division, Agilent Technologies (China), Beijing, 100102 China

Time: Oct. 25, 2013 AM (Friday)

Location: Jiangsu Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Daiwen YANG

SPHERICAL NANOPARTICLE SUPPORTED LIPID
BILAYERS FOR THE STUDY OF MEMBRANE
ARCHITECTURE

8:30-9:00

E10

Fang TIAN (Keynote)

Department of Biochemistry and Molecular Biology, The Pennsylvania State University, Hershey, PA 17033, USA

EPR STUDY ON MECHANISM OF *IPSO*-NITRATION
OF ARYLBORONIC ACIDS

9:00-9:20

E11

Haijun YANG

Beijing Key Laboratory for Analytical Methods and Instrumentation, Department of Chemistry, Tsinghua University, Beijing 100084, P. R. China

- A SMART THERMO-SENSITIVE MICELLE AS A PARACEST AGENT FOR MRI
Xiaolei ZHU
 Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory for Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China
- 9:20-9:40 E12
- LIGANDING MAPPING USING 1D AND 2D RADIATION DAMPING BASED WATERLOGSY SPECTROSCOPY
Peng SUN
 State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China
- 9:40-10:00 E13
- 10:00-10:15 **Coffee Break**
- Chairman: Prof. Fang TIAN**
- MULTI-TIMESCALE DYNAMICS OF FATTY ACID BINDING PROTEINS AND THEIR RELATION TO PROTEIN FUNCTION
Daiwen YANG (Keynote)
 Department of biological sciences, National University of Singapore, 14 Science Drive 4, Singapore 117543, Singapore
- 10:15-10:45 E14
- ¹⁹F NMR PROBE OF PROTEIN CHEMISTRY IN LIVING CELLS
Conggang LI (Keynote)
 Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, 430071, China
- 10:45-11:15 E15
- THE CHAIR-TYPE STRUCTURE OF THE INTRAMOLECULAR HUMAN TELOMERIC G-QUADRUPLEX
Changdong LIU
 Division of Life Science, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, PRC
- 11:15-11:35 E16
- THE DNA BINDING MECHANISM OF MVAT, A NUCLEOID ASSOCIATED PROTEIN FROM PSEUDOMONACEAE.
Pengfei DING
 Beijing NMR Center, Peking University, Beijing 100871,
- 11:35-11:55 E17

China

Time: Oct. 25, 2013 PM (Friday)

Location: Jiangsu Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Xin ZHOU

13:30-14:00 E18 NMR STUDIES FOR INTRAMOLECULAR HYDROGEN BONDING.
Michael SHAPIRO (Keynote)
Center for Chemistry Excellence and Innovation, Pfizer Pharmaceuticals, Groton Ct 06340, US

14:00-14:30 E19 CONFORMATIONAL DYNAMICS IN A TWO-COMPONENT SIGNAL TRANSDUCTION SYSTEM
Honggao YAN (Keynote)
Department of Biochemistry and Molecular Biology, Michigan State University, 603 Wilson Road, East Lansing, MI 48824, USA

14:30-14:50 E20 NATURAL COMPROMISE FOR DNA PHOSPHOROTHIOATE MODIFICATION IN BACTERIA
Wenxian LAN
State Key Laboratory of Bio-organic and Natural Product Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 345 Lingling Road, Shanghai, 200032, China

14:50-15:10 E21 DIFFERENT MOLECULAR MECHANISM OF APTAMERS RECOGNIZING OCHRATOXIN A
Jiajing ZHAO
Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Centre for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences. Wuhan, Hubei Province, 430071, P. R. China.

15:10-15:25

Coffee Break and Poster

Chairman: Prof. Honggao YAN

15:25-15:55 E22 NMR STUDIES OF WATER PROTEIN INTERACTIONS-SOME MYTHS AND MYSTERIES
Peter BELTON (Keynote)
School of Chemistry, University of East Anglia, Norwich NR4 7TJ, UK

15:55-16:25 E23 HYPERPOLARIZED ¹²⁹Xe LUNG MRI
Xin ZHOU (Keynote)

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

WEAK SIGNAL IDENTIFICATION IN NMR SPECTROSCOPY: THE COMBINATION OF NMR AND COMPRESSED SENSING

Li Sha NIE

16:25-16:45 E24 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

16:45-18:00

Poster

Time: Oct. 26, 2013 AM (Saturday)

Location: Jiangsu Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Dr. Julian L GRIFFIN

8:30-9:00 E25 COMPREHENSIVE ANALYSIS OF HONEY BY ¹H- AND ¹³C-NMR AND STATISTICS
István PELCZER (Keynote)
Department of Chemistry, Frick Chemistry Laboratory, Princeton University, Princeton, NJ 08544, USA

9:00-9:30 E26 DEVELOPMENTS OF TISSUE NMR BASED CANCER METABOLOMICS AND METABOLOMIC IMAGING
Leo L CHENG (Keynote)
Departments of Radiology and Pathology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, 02114, USA

9:30-9:50 E27 RECONSTITUTED HIGH-DENSITY LIPOPROTEIN FOR PARACEST MR/FLUORESCENT MULTIMODAL ATHEROSCLEROSIS CELLULAR IMAGING
Qi WANG
Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory for Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China

9:50-10:05

Coffee Break

Chairman: Dr. István PELCZER

GOING TO EXTREMES IN HUMAN METABOLOMICS STUDIES

10:05-10:35 E28 **Julian L GRIFFIN** (Keynote)
Medical Research Council Human Nutrition Research, Elsie Widdowson Laboratory, Cambridge, UK & the Department of Biochemistry, University of Cambridge, UK.

METABOLIC DISTURBANCE DETECTED BY EX VIVO ¹H NMR SPECTROSCOPY IN THE HIPPOCAMPUS OF STZ-INDUCED DIBETES RATS

9:35-9:55 E29 **Chengfeng DIAO**
Institute of Metabonomics & Medical NMR, School of Pharmacy, Wenzhou Medical University, Wenzhou 325035, China

THE COMBINED HIGH TEMPERATURE AND HIGH PRESSURE MAGIC ANGLE SPINNING NMR FOR IN SITU INVESTIGATIONS

10:55-11:25 E30 **Jian Zhi HU** (Keynote)
Pacific Northwest National Laboratory, Richland, WA 99354, USA

POSTER SESSION

Time: Oct. 25, 2013 PM (Friday)

Location: 2nd Floor of the Hotel Nikko New Century Beijing

- E31 SOLID-STATE ¹³C CP/MAS NMR STUDIES OF POLYIMIDE(BAPP-DDS-BTDA)
Xinmiao LIANG^{1,2}, Huan LUO^{1,2}, Shanyin YAN³, Jiwen FENG¹
¹ State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China
² University of Chinese Academy of Sciences, Beijing 100029, China
³ Ministry-of-Education Key Laboratory for the Green Preparation and Application of Functional Materials, Hubei University, Wuhan 430062, China
- E32 ¹H MAS NMR STUDIES OF THE PHASE SEPARATION OF POLY(N,N-DIETHYLACRYLAMIDE) GEL IN WATER/ALCOHOL MIXTURES
Biaolan LIU^{1,2}, Jiwen FENG¹
¹ State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China
² University of Chinese Academy of Sciences, Beijing 100029, China
- E33 PROBING THE EXCHANGE PROCESS OF GEMINI AND THEIR MONOMERIC CONVENTIONAL SURFACTANTS IN AQUEOUS SOLUTION USING NMR
Jun LIU¹, Hong CHEN², Shi Zhen MAO^{1*}, You Ru DU¹, Mai Li LIU^{1*}
¹Wuhan 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
²State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation Engineering, South West Petroleum University, Chengdu 610500, China
- E34 THE PHOSPHORYLATION MECHANISM OF THE RESPONSE REGULATOR YycF IN TWO-COMPONENT SIGNALING SYSTEMS
Ting LIU, Yixiang LIU, Maili LIU, Ling JIANG
Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Centre for Magnetic Resonance, Wuhan 430071, China
- E35 PROTEIN MOLECULAR VISCOMETER FOR VISCOSITY MEASUREMENT OF COMPLEX SOLUTION AND CYTOPLASM OF LIVING CELLS

Yansheng YE^{1,2}, Qiong WU¹, Xiaoli LIU¹, Guohua XU¹, Zeting ZHANG¹, Maili LIU¹, Conggang LI¹

¹ Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, 430071 (P.R. China)

² Graduate University of Chinese Academy of Sciences, Beijing, 100029 (P.R. China)

¹⁹F NMR PROBE THE CHAPERONE HDEA ACTIVATION MECHANISM

Zining ZHAI¹, Qiong WU¹, Gary J. PIELAK², Conggang LI¹

E36

¹ State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, P. R. China.

² Department of Chemistry, Department of Biochemistry and Biophysics, University of North Carolina-Chapel Hill, Chapel Hill, NC 27599-3290, USA

STUDIES ON THE INTERACTION OF α -SYNUCLEIN AND LANTHANIDE METAL IONS

Jia BAI, Maili LIU, Conggang LI

E37

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

DETECTION AND ANALYSIS OF LIPOPROTEIN-IBUPROFEN INTERACTION IN SERUM USING ¹H-¹⁴N CORRELATED NMR SPECTROSCOPY

Nan LI, Peng SUN, Bin JIANG, Xu ZHANG*, Maili LIU*

E38

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

DISCRIMINATION OF BIOGENIC VINEGAR WITH ON-LINE COUPLING OF GAS CHROMATOGRAPHY AND ISOTOPE RATIO MASS SPECTROMETRY (GC-IRMS)

Xiaohua WANG^{1,2}, Yunyan LI^{1,2}, Xu ZHANG^{1*}, Maili LIU^{1*}

E39

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

QUANTITATIVE DEPT⁺⁺ C-13 NMR SPECTROSCOPY

E40

Yunyan LI^{1,2}, Wenping MAO^{1,2}, Bin JIANG¹, Maili LIU¹, Li CHEN¹,

Feng QIU³, Xu ZHANG^{1*}, Chaoyang LIU^{1*}

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

3. Bristol Myers Squibb Co., Pennington, NJ 08534, USA

AN ACCURATE BASELINE CORRECTION METHOD

Qingjia BAO¹, Li CHEN¹, Fang CHEN¹, Feng QIU², Chaoyang LIU¹

E41 ¹Chinese Academic of Science, Wuhan Institute of Physics & Mathematic, State Key laboratory of Magnet Resonance & Atomic & Molecular Physics, Wuhan 430071, China

²Bristol Myers Squibb Co., Pennington, 311 Pennington Rocky Hill Road, NJ 08534, USA

THE MRI PULSE PROGRAMMER BASED ON USB3.0 INTERFACE

Zhi ZHANG,^{1,2} Jing ZHANG,¹ Dong WANG,¹ Lei WANG,¹ Chunsheng YANG,¹ Fang CHEN,¹ Chaoyang LIU^{1*}

E42 ¹ State Key Laboratory of Magnetic Resonance and Atomic Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan 430071, China

² University of Chinese Academy of Sciences, Beijing 100049, China

ELETRON SPIN RESONCANCE SPIN-TRAPPING STUDY OF THE RADICALS IN GAS-PHASE CIGARETTE SMOKE

E43 Ying WANG, Wenyan XIE, Yichun ZHANG, Da WU and Baizhan LIU
Technical Center, Shanghai Tobacco Group Co, Shanghai 200082, China

KEY METABOLIC CHANGES IN DIABETIC *DB/DB* MICE DURING THE EVOLUTION OF DIABETES STUDIED BY URINE ¹H NMR-BASED METABONOMICS

E44 Tingting WEI, Yongquan ZHENG, Liangcai ZHAO, Hongchang GAO*
Institute of Metabonomics & Medical NMR, School of Pharmacy, Wenzhou Medical University, Wenzhou 325035, China

¹H NMR-BASED METABONOMIC STUDY ON THE HIPPOCAMPUS OF *DB/DB* TYPE 2 DIABETIC MICE

E45 Yongquan ZHENG, Tingting WEI, Liangcai ZHAO, Hongchang GAO*
Institute of Metabonomics & Medical NMR, School of Pharmacy, Wenzhou Medical University, Wenzhou 325035, China

DESIGN, SYNTHESIS AND CHARACTERIZATION OF A NOVEL PORPHYRIN SENSOR DETECTION FOR ZINC

Qingbin ZENG^{1,2}, Qianni GUO¹, Xiaoxiao ZHANG¹, Xin ZHOU^{1*}

E46 ¹ Key Laboratory of Magnetic Resonance in Biological Systems, State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Center for Magnetic Resonance, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan

430071, China.

² University of Chinese Academy of Sciences, Beijing 100049, China

SCHEDULE OF SESSIONS

F. ELECTROANALYTICAL CHEMISTRY

CHAIRMAN: Prof. Lanqun MAO and Prof. Yuanhua SHAO

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Guangdong Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Lijun WAN and Prof. Andrew EWING

13:30-13:55 F3 THE SYNTHESIS AND APPLICATIONS OF DNA PROTECTED SILVER NANOCCLUSERS
Erkang WANG (Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China

13:55-14:20 F4 INVESTIGATING OXIDATIVE STRESS AT THE SINGLE CELL LEVEL: APPLICATION TO MACROPHAGES PHAGOCYTOSIS
Christian AMATORE (Keynote)
École Normale Supérieure, 75231 Paris, France

14:20-14:45 F5 FLUORESCENCE-ENABLED ELECTROCHEMICAL MICROSCOPY
Bo ZHANG (Keynote)
University of Washington, USA

14:45-15:05 F6 QUANTUM DOTS FOR ELECTROCHEMILUMINESCENCE SENSING
Junjie ZHU (Invited)
Nanjing University, China

15:05-15:20 **Coffee Break**

Chairman: Prof. Hongyuan CHEN and Prof. Tomokazu MATSUE

15:20-15:45 F7 MODIFY SOLID SURFACE BY MOLECULAR PATTERNS: USEFUL FOR BIOCHEMICAL RESEARCH
Lijun WAN (Keynote)
Institute of Chemistry, Chinese Academy of Sciences, China

15:45-16:10 F8 NANOCARBON MATERIALS BASED ELECTROCHEMICAL ENZYME BIOSENSORS
Osamu NIWA (Keynote)

National Institute of Advanced Industrial Science and Technology, Japan

- 16:10-16:35 F9 CONTROLLED FABRICATION AND FUNCTIONALIZATION OF CARBON NANOMATERIALS FOR MULTIFUNCTIONAL APPLICATIONS
Liming DAI (Keynote)
Case Western Reserve University, USA
- 16:35-16:55 F10 CREATING HIGHLY CONDUCTIVE AND CAPACITIVE SINGLE-LAYERED GRAPHENE WITHIN ZEOLITE Ni-MCM-22
Jilie KONG (Invited)
Fudan University, China
- 16:55-17:15 F11 HIGHLY SENSITIVE PROTEIN DETECTION BASED ON A NOVEL PROBE WITH CATALYTIC ACTIVITY COMBINED WITH A SIGNAL AMPLIFICATION STRATEGY: ASSAY OF MDM2 FOR CANCER STAGING
Genxi LI (Invited)
Nanjing University, China
- 17:15-17:30 F12 ECL IMAGING LATENT FINGERPRINT AND SIMULTANEOUS DETECTION OF SECRETIONS IN HUMAN PERSPIRATION
Bin SU(Oral)
Zhejiang University, China

Time: Oct. 25, 2013 AM (Friday)

Location: Guangdong Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Erkang WANG and Prof. Christian AMATORE

- 8:30-8:55 F13 PROGRESS IN THE STUDIES OF PHOTOELECTROCHEMICAL BIOSENSORS
Hongyuan CHEN (keynote)
Nanjing University, China
- 8:55-9:20 F14 NOVEL MICRORNA ANALYSIS STRATEGIES BASED ON FUNCTIONAL NANOPROBES
Xueji ZHANG (Keynote)
University of Science and Technology Beijing, China
- 9:20-9:45 F15 EXPLORING NEUROTRANSMISSION WITH ELECTROANALYSIS
Adrian C. MICHAEL (Keynote)
University of Pittsburgh, Pittsburgh, PA 15206, USA
- 9:45-10:05 F16 IN VIVO DETERMINATION OF REACTIVE OXYGEN SPECIES (ROS) AND BEYOND IN THE RAT BRAIN

Yang TIAN (Invited)
Tongji University, China

10:05-10:15

Coffee Break

Chairman: Prof. Richard MCCREERY and Prof. Xueji ZHANG

- 10:15-10:40 F17 MULTIPLEX DETECTION USING APTASENSORS BY COMBINATORIAL LOGIC GATES
Shaojun DONG (Keynote)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China
- 10:40-11:05 F18 SURFACE MODIFICATION OF REDOX-ACTIVE METAL COMPLEXES TOWARD MOLECULAR DEVICES
Masa-aki HAGA (Keynote)
Chuo University, Japan
- 11:05-11:25 F19 ELECTROCHEMISTRY AND BIOSENSING SYSTEMS BASED ON FUNCTIONAL CARBON MATERIALS
Baohong LIU (Invited)
Fudan University, China
- 11:25-11:45 F20 TWO-MARKER AND TWO-SIGNAL DETECTION STRATEGIES ON FUNCTIONAL INTERFACE
Jingjuan XU (Invited)
Nanjing University, China
- 11:45-12:00 F21 GRAPHENE OXIDE COATED CAPILLARY FOR ENDOCRINE DISRUPTION CHEMICALS SEPARATION AND DETECTION BY CAPILLARY ELECTROPHORESIS
Guoyue SHI (Oral)
East China Normal University, China

Time: Oct. 25, 2013 PM (Friday)

Location: Guangdong Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Shaojun DONG and Prof. Adrian C. MICHAEL

- 13:30-13:55 F22 FUNCTIONALIZATION OF NANOMATERIALS FOR SIGNAL AMPLIFICATION IN BIOANALYSIS
Huangxian JU (Keynote)
Nanjing University, China
- 13:55-14:20 F23 RECENT DEVELOPMENT OF ELECTROCHEMICAL IMAGING
Tomokazu MATSUE (Keynote)
Tohoku University, China
- 14:20-14:40 F24 UNDERSTANDING OF THE INTERFACIAL BEHAVIOR OF BIOMOLECULES FOR BIOSENSORS

Xinghua XIA (Invited)
Nanjing University, China

14:40-15:00 F25 PROGRESS IN PHOTOELECTROCHEMICAL ASSAY OF ANTIOXIDANTS CAPACITANCE IN FOODS
Li NIU (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China

15:00-15:20 F26 ELECTROCHEMISTRY AND ELECTROGENERATED CHEMILUMINESCENCE OF BENZOXAZOLE DERIVATIVES
Chengxiao ZHANG (Invited)
Shaanxi Normal University, China

15:20-15:40 F27 ELECTROCHEMILUMINESCENCE FUNCTIONALIZED NANOMATERIALS FOR LABEL-FREE BIOASSAYS
Hua CUI (invited)
University of Science and Technology of China, China

15:40-15:55 F28 FACILE PATTERNING OF MICROELECTRODE ARRAY WITH SOFT LITHOGRAPHY FOR HIGHLY SENSITIVE SENSING
Meining ZHANG (Oral)
Renmin University of China, China

13:30-17:30 **Poster (2nd Floor of the Hotel Nikko New Century Beijing)**

Time: Oct. 26, 2013 AM (Saturday)

Location: Guangdong Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Bo ZHANG and Prof. Xiangqun ZENG

8:30-8:55 F29 STUDY OF INTERFACIAL STRUCTURE OF LIQUID/LIQUID INTERFACES BY NANOPIPETTE AND SCANNING ION CONDUCTANCE MICROSCOPY
Yuanhua SHAO (Keynote)
Peking University, China

8:55-9:20 F30 AMPEROMETRIC DETECTION OF ACETYLCHOLINE RELEASE USING A CARBON FIBER MICROELECTRODE FUNCTIONALIZED WITH ENZYME GOLD NANOPARTICLE CONJUGATES
Ann-Sofie CANS (Keynote)
Chalmers University of Technology

9:20-9:40 F31 BIOMOLECULE-BASED CARBON MATERIALS FOR ELECTROANALYTICAL APPLICATION

Lehui LU (Invited)
Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China

9:40-10:00 F32 INVESTIGATIONS OF THE PHOTOINDUCED ELECTRON TRANSFER AT THE INTERFACES OF FUNCTIONALIZED-PORPHYRIN BY SECM
Xiaoquan LU (Invited)
Northwest Normal University, China

10:00-10:20 **Coffee Break**

Chairman: Prof. Yuanhua SHAO and Prof. Ann-Sofie CANS

10:20-10:45 F33 CHARACTERIZATION OF ELECTRODE-ELECTROLYTE INTERFACIAL PROCESSES IN IONIC LIQUIDS FOR ENERGY STORAGE AND SENSOR APPLICATIONS
Xiangqun ZENG (Keynote)
Oakland University, USA

10:45-11:10 F34 ELECTRON TRANSFER OF FUNCTIONAL NANOPARTICLES: AN INTERFACIAL PERSPECTIVE
Shaowei CHEN (Keynote)
University of California, Santa Cruz, USA

11:10-11:30 F35 ELECTROCHEMICAL PROPERTIES OF UBIQUINONES FROM SOLUTION TO INTERFACE AND NANO-INTERFAC
Yitao LONG (invited)
East China University of Science and Technology, China

11:30-11:45 F36 LARGE AMPLITUDE FOURIER TRANSFORMED AC VOLTAMMETRY UNDER MICROFLUIDIC CONTROL IN A CHANNEL ELECTRODE
Yunfeng GU (Oral)
University of Cambridge, UK

11:45-12:00 **Closing Remark by Prof. Yuanhua SHAO**

POSTER SESSION

Time: Oct. 25, 2013 PM (Friday)

Location: 2nd Floor of the Hotel Nikko New Century Beijing

- F37 NITROGEN-ENRICHED Fe/Fe₃C@C NANOCAGES AS NOVEL ELECTROCATALYSTS FOR OXYGEN REDUCTION REACTION
Mengxia SHEN^{1,2}, Kelong AI¹, Changping RUAN^{1,2}, Lehui LU^{1*}
¹ State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences. Changchun, 130022, China
² University of Chinese Academy of Sciences. Beijing, 100039, China
- F38 DETERMINATION OF PHOXIM RESIDUATR BY SINGLE SWEEP POLAROGRAPHY
Wen CHEN, Xiaohua YAN, Yangyang ZHAO, Hua BAI, Longfei YI and Caiqin ZOU
College of Materials and Chemistry & Chemical Engineering, Chengdu University of Technology, Chengdu, Sichuan 610059, China
- F39 IN VIVO MONITORING THE DYNAMIC CHANGE OF PH INDUCED BY HCO₃⁻ IN RAT BRAIN
Jie HAO, Ping YU, Lanqun MAO
Beijing National Laboratory for Molecular Sciences, Key Laboratory of Living Biosystems, Institute of Chemistry, the Chinese Academy of Sciences, Beijing 100190, China.
- F40 High Rate Oxygen Reduction Achieved by 3D-Hierarchical Self-Supporting Networks of N-Doped Carbon
Wenhui HE, Lehui LU
State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, 5625 Renmin Street, Changchun 130022, China
- F41 PREPARATION OF BORONATE-FUNCTIONALIZED GRAPHENE FOR THE SELECTIVE ENRICHMENT AND SEPARATION OF NUCLEOSIDES COMBINED WITH CAPILLARY ELECTROPHORESIS
Huiqi WANG, Shanshan TONG, Qiong JIA
College of Chemistry, Jilin University, Changchun 130012, China
- F42 EFFECTIVE ELECTROCHEMICAL METHOD OF ALKALINE PHOSPHATASE ACTIVITY BASED ON REVERSIBLY COMPETITIVE COORDINATION OF COPPER BETWEEN CYSTEINE AND PYROPHOSPHATE ION
Qin JIANG, 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.

- POLYGLUTAMIC ACID/AMINO-FUNCTIONALIZED CARBON NANOTUBES NANOCOMPOSITE BASED ELECTROCHEMICAL SENSORS FOR THE DETERMINATION OF BISPHENOS A
 F43 Yuqing LIN, Kangyu LIU, Chenyu LIU, Lu YIN, Qian KANG
 Department of Chemistry, Capital Normal University, Beijing 100048, China
- ONE-POT ENVIRONMENTALLY FRIENDLY ROUTE TO SYNTHESIZE OF GOLD NANOPARTICLES-GRAPHENE NANOCOMPOSITES WITH GLUTATHIONE
 F44 Junfeng LIU, Ankang YANG, Can XIAO, Yang ZHANG, Xiaofang ZHANG, Hong ZHAO, Xiangjun LI
 School of Chemistry and Chemical Engineering, University of Chinese Academy of Sciences, 19A YuQuan Road, Beijing 100049, China
- TITANIUM NITRIDE NANOCRYSTALS ON NITROGEN-DOPED GRAPHENE AS EFFICIENT ELECTROCATALYSTS FOR OXYGEN REDUCTION REACTION
 F45 Mengjia LIU, Youzhen DONG, Yongmin WU, Hongbin FENG and Jinghong LI
 Department of Chemistry, Beijing Key Laboratory for Microanalytical Methods and Instrumentation, Tsinghua University, Beijing 100084, China
- ZEOLITIC IMIDAZOLATE FRAMEWORK-BASED ELECTROCHEMICAL BIOSENSOR FOR IN VIVO ELECTROCHEMICAL MEASUREMENTS
 F46 Wenjie MA, Lanqun MAO
 Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, the Chinese Academy of Sciences (CAS), Beijing 100190, China
- ANION-EXCHANGE-BASED AMPEROMETRIC ASSAY FOR HEPARIN USING POLYIMIDAZOLIUM AS SYNTHETIC RECEPTOR
 F47 Hetong QI, 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 (CAS), Beijing 100190, China
- ELECTROCHEMICAL POST-TREATMENT OF INFINITE COORDINATION POLYMERS TO PREPARE PALLADIUM NANOPARTICLES SUPPORTED ONTO CARBON NANOTUBES
 F48 Lin REN, 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
- MOF-DERIVED POROUS CARBON WITH ALIGNED PORES FOR HIGH PERFORMANCE SUPERCAPACITORS
 F49 Changping RUAN,^{1,2} Kelong AI,¹ Mengxia SHEN,^{1,2} Lehui LU^{1,*}
¹State Key Laboratory of Electroanalytical Chemistry, Changchun Institute

of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022,
P. R. China, lehuilu@ciac.jl.cn

²University of Chinese Academy of Sciences, Beijing 100039, P. R. China

POROUS MnO MICROSPHERE AS A HIGH PERFORMANCE ANODE
MATERIAL FOR LITHIUM ION BATTERIES

F50 Kai SU, Jitao CHEN, Feng LIU
College of Chemistry, Peking University, Beijing 100871, China

HIERARCHICAL POROUS AU FILMS PREPARED BY USING ZnO
NANORODS TEMPLATE AND SOLVENT EVAPORATION
DEPOSITION OF Au NANOPARTICLES AND THEIR
CONTROLLABLE ELECTROCATALYTIC PERFORMANCES FOR
METHANOL OXIDATION BY SALT CONCENTRATIONS

F51 Wei GONG, Chun LIU, Lei SU,* Hankun YANG, Bowen GAO, and
Xueji ZHANG*
Research Center for Bioengineering and Sensing Technology, School of
Chemistry and Biological Engineering, University of Science and
Technology Beijing, Beijing 100083, China.

A FUNCTIONAL GLYCOPROTEIN COMPETITIVE RECOGNITION
AND SIGNAL AMPLIFICATION STRATEGY FOR
CARBOHYDRATE-PROTEIN INTERACTION PROFILING AND CELL
SURFACE CARBOHYDRATE EXPRESSION EVALUATION

F52 Yangzhong WANG, Zhuhai CHEN, Yang LIU and Jinghong LI
Department of Chemistry, Beijing Key Laboratory for Microanalytical
Methods and Instrumentation, Key Laboratory of Bioorganic Phosphorus
Chemistry & Chemical Biology, Tsinghua University, Beijing 100084,
China

SPACE-CONFINED FABRICATION OF SILVER NANODENDRITES AND
THEIR ENHANCED SERS ACTIVITY

F53 Shuqi WANG, Li-Ping XU, and Xueji ZHANG
Research Center for Bioengineering and Sensing Technology, University of
Science & Technology Beijing, Beijing 100083, China

NANO-BIOANALYSIS BASED ON BIOFUNCTIONALIZED
GRAPHENE SENSING PLATFORM

F54 Ying WANG^{1,2,3}, Honglai LIU², Yuehe LIN³ and Jinghong LI¹
¹Department of Chemistry, Beijing Key Laboratory for Microanalytical
Methods and Instrumentation, Tsinghua University, Beijing 100084, China
²Key Laboratory for Advanced Materials and Department of Chemistry,
East China
University of Science and Technology, Shanghai 200237, China
³Pacific Northwest National Laboratory, Richland, Washington 99352,
United States

FRactal GOLD MODIFIED ELECTRODE FOR ULTRASENSITIVE
THROMBIN DETECTION

F55 Li-Ping XU, Shuqi WANG, Xueji ZHANG

Research Center for Bioengineering and Sensing Technology, University of Science & Technology Beijing, Beijing 100083, China

- IMAGING LATENT FINGERPRINTS BY ELECTROCHEMILUMINESCENCE IMMUNOASSAY
F56 Linru XU, Zhenyu ZHOU, Yayun HE, Bin SU*
Institute of Microanalytical Systems, Department of Chemistry, Zhejiang University, Hangzhou, Zhejiang 310058, China

- ELECTROCATALYTIC FOUR-ELECTRON REDUCTION OF OXYGEN WITH COPPER (II) BASED METAL-ORGANIC FRAMEWORK
F57 Junjie MAO, Lifen YANG, 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.

- COMPARATIVE STUDIES ON ELECTROCATALYTIC WATER OXIDATION WITH BIS-PHENYLPYRIDINEIRIDIUM(III) COMPLEXES
F58 Runhe YANG, Lanqun MAO
Beijing National Laboratory for Molecular Sciences, Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, the Chinese Academy of Sciences (CAS), Beijing 100190, China

- TUNING IONIC INTERACTION FOR RECOGNITION SELECTIVITY IMPROVEMENT
F59 Ping YU and Lanqun MAO
Beijing National Laboratory for Molecular Sciences, Key Laboratory of Living Biosystems, Institute of Chemistry, the Chinese Academy of Sciences, Beijing 100190, China.

- PHOTODECOMPOSITION OF FERROCENEDICARBOXYLIC ACID IN METHANOL TO FORM ELECTROACTIVE INFINITE COORDINATION POLYMER AND ITS APPLICATION IN BIOELECTROCHEMISTRY
F60 Li ZHANG, 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 (CAS), Beijing 100190, China

- APPLICATION OF ELECTRODEPOSITION OF GRAPHENE NANOSHEETS FOR LATNET FINGERPRINT ENHANCEMENT
F61 Meiqin ZHANG, Yu ZHU, Xi YU, Gang QIN, Shouliang LIU, Meiling WANG, Qianhui WEI and Xueji ZHANG
Research Center for Bioengineering and Sensing Technology, University of Science and Technology Beijing, 30 Xueyuan Road, Haidian District, Beijing 100083, China

- F62 TOWARD EVALUATION OF LEUKEMIA THERAPEUTIC EFFECTS:

AN ELECTROCHEMICAL PLATFORM FOR CASPASE 3 ACTIVITY SENSING

Shiwei ZHOU, Yangfan CHEN, Tingting ZHENG, Jingjing ZHANG, Jun-jie ZHU*

State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China

MICROFLUIDIC CHIP INTERGRATED WITH FLEXIBLE PDMS-BASED ELECTROCHEMICAL CYTOSENSOR FOR DYNAMIC ANALYSIS OF DRUG-INDUCED APOPTOSIS ON HELA CELLS

F63 Yingdi ZHU, Juntao CAO, Junjie ZHU*

State Key Lab of Analytical Chemistry for Life Science, School of Chemistry & Chemical Engineering, Nanjing University, Nanjing 210093, China.

SWITCHABLE "ON-OFF" LABEL-FREE ELECTROCHEMICAL TECHNIQUE FOR THE DETECTION OF TRYPSIN

F64 Manman DONG, Honglan QI*, Qiang GAO, Chengxiao ZHANG

Key Laboratory of Analytical Chemistry for Life Science of Shaanxi Province, School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi'an, 710062, P.R. China

NANOFLUIDIC ASSAYS WITH FUSED SILICA CAPILLARY

F65 Zhi-Yong WU*¹, Li TIAN¹, Xiao-Li GUO¹, Yun-Yun LI¹, Fang FANG²

¹Research Center for Analytical Sciences, Northeastern University, Shenyang 110819, China

²Chemistry Department, Northeastern University, Shenyang 110819, China

TOWARDS UNDERSTANDING OF ENERGY TRANSFER BETWEEN ELECTROCHEMICAL LUMINESCENT DYES AND LUMINESCENT QUANTUM DOTS

F66 Tao HU, Shaoqin LIU*

Key Laboratory of Microsystems and Microstructures Manufacturing, Ministry of Education, Harbin Institute of Technology, Harbin, 150080, China.

CHARACTERIZATION OF AMYLOID PEPTIDE AND A NOTCH PEPTIDE P0 ASSEMBLY AT ELECTRODE SURFACE USING MULTIPLE ELECTROCHEMICAL REDOX PROBES

F67 Dongdong ZHANG^{1,2,3}, Chengxiao ZHANG², Xiangqun ZENG^{1,*}

¹Chemistry Department, Oakland University, Rochester, MI 48309, USA

²School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi'an, 710062, P.R. China

³School of Medicine, Xi'an Jiaotong University, Xi'an, 710061, P.R. China

A SENSITIVE AND LABEL-FREE ELECTROCHEMILUMINESCENCE APTASENSOR BASED ON HOST-GUEST RECOGNITION BETWEEN TRIS(BIPYRIDINE)RUTHENIUM(II)-B-CYCLODEXTRIN AND APTAMER

F68

Fan ZHANG, Hong CHEN, Qiong CHEN, Xiuhua WANG and Pingang HE*

Department of Chemistry, East China Normal University, Shanghai 200241, China

A PORTABLE THERMO-POWERED HIGH-THROUGHPUT VISUAL ELECTROCHEMILUMINESCENCE SENSOR

Nan HAO, Meng XIONG, Jing-Juan XU, Hong-Yuan CHEN

F69 State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China

IN SITU MODIFICATION OF SEMICONDUCTOR SURFACE BY AN ENZYMIC PROCESS: A GENERAL STRATEGY FOR PHOTOELECTROCHEMICAL BIOANALYSIS

Zheng-Yuan MA, Wei-Wei ZHAO, Jing-Juan XU, Hong-Yuan CHEN

F70 State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China

DEVELOPMENT OF PHOTOELECTROCHEMISTRY MICRODEVICE

Jian-Bin PAN, Wei-Wei ZHAO, Jing-Juan XU, Hong-Yuan CHEN

F71 State Key Laboratory of Analytical Chemistry for Life Science, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, China

SCHEDULE OF SESSIONS

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

CHAIRMAN: Prof. Jianwei XIE, Prof. Xiaohong QIAN and Prof. Fuyi WANG

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Shanghai Hall, 3rd Floor, Hotel Nikko New Century Beijing

Topic: Novel Analytical Techniques in Life Sciences

Chairman: Prof. Hiroshi SUGIYAMA and Prof. Yong ZHANG

- | | | |
|-------------|----|---|
| | | SINGLE-MOLECULE OBSERVATION IN THE DNA ORIGAMI NANOSTRUCTURES
Hiroshi SUGIYAMA (Keynote) |
| 13:30-14:00 | G3 | Department of Chemistry, Graduate School of Science, Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University, Japan |
| | | FLUORESCENT NUCLEIC ACID SYSTEMS FOR DNA SENSING
Byeang Hyeon KIM (Keynote) |
| 14:00-14:30 | G4 | Department of Chemistry, Pohang University of Science and Technology, Pohang, Korea |
| | | WHOLE GENOME SEQUENCING FOR IDENTIFICATION AND SOURCE TRACING OF PATHOGENS
Ruifu YANG (Keynote) |
| 14:30-15:00 | G5 | State Key Laboratory of Pathogen and Biosecurity, Beijing Institute of Microbiology and Epidemiology, Beijing, China |
| | | NANOMATERIALS WITH STRICTLY DEFINED DNA-VALENCES FOR BIOANALYSIS
Zhaoxiang DENG |
| 15:00-15:20 | G6 | Department of Chemistry, University of Science and Technology of China, Hefei, China |

15:20-15:30		Coffee Break
		UPCONVERSION FLUORESCENT NANOPARTICLES FOR SENSITIVE BIODETECTION
15:30-16:00	G7	Yong ZHANG (Keynote) Department of Bioengineering, Faculty of Engineering, National University of Singapore, Singapore
		THREE NEW STRATEGIES FOR DESIGNING APTOSENSORS AND THE APPLICATION ON BIOLOGICAL SENSING
16:00-16:20	G8	Ronghua YANG State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, Changsha, Hunan University
		PREPARATION OF POLYMER FUNCTIONALIZED FLUORESCENT OVALBUMIN-GOLD NANOCCLUSERS FOR CANCER CELLS IMAGING
16:20-16:40	G9	Li QI Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China
		ANALYSIS OF TUMOR MARKER PROTEINS IN HUMAN TISSUE AND SERUM USING SPECTRAL IMAGING AND OPTICAL TRAPPING BASED ON NANOPROBING
16:40-17:00	G10	Hongwu TANG College of Chemistry and Molecular Sciences, State Key Laboratory of Virology, and Wuhan Institute of Biotechnology, Wuhan University, Wuhan, China
		BINDING-INDUCED DYNAMIC DNA ASSEMBLIES: TOWARDS POINT-OF-CARE PROTEIN DIAGNOSTICS
17:00-17:20	G11	Feng LI Department of Laboratory Medicine and Pathology, University of Alberta, Canada

HIGHLY EFFICIENT AND SELECTIVE ENRICHMENT
OF GLYCOPROTEINS AND GLYCOPEPTIDES BY
FUNCTIONALIZED GOLD NANOPARTICLES
MODIFIED HYDROPHILIC MONOLITHS

17:20-17:40 G12 **Yu LIANG**
Dalian Institute of Chemical Physics, Chinese Academy of
Sciences, Dalian, China

Time: Oct. 25, 2013 AM (Friday)

Location: Shanghai Hall, 3rd Floor, Hotel Nikko New Century Beijing

Topic: Proteomics, Glycomics, Metabolomics, Lipidomics

Chairman: Prof. Pengyuan YANG and Prof. Carlito B. LEBRILLA

8:30-9:00 G13 SITE-SPECIFIC GLYCAN MAPPING AND
QUANTITATION OF SERUM PROTEINS FOR DISEASE
DIAGNOSIS
Carlito B. LEBRILLA (Keynote)
Department of Chemistry, University of California, Davis,
USA

9:00-9:30 G14 PROTEOMICS OF ALZHEIMER'S DISEASE USING
MULTIPLE MOUSE MODELS
Rong WANG (Keynote)
Department of Genetics and Genomic Science, Icahn School
of Medicine at Mount Sinai, New York, USA

9:30-10:00 G15 PROBING NEUROCHEMICAL SIGNALING WITH A
MULTI-FACETED MS-BASED PLATFORM
Lingjun LI (Keynote)
School of Pharmacy and Department of Chemistry, University
of Wisconsin-Madison, USA

10:00-10:30 G16 PROBING THE ASSOCIATION OF IgG
GLYCOSYLATION WITH CANCER RISK USING
MALDI-FTICR MS
Zhili LI (Keynote)
Institute of Basic Medical Science, Chinese Academy of
Medical Sciences and School of Basic Medicine, Peking

Union Medical College, Beijing, China

10:30-10:40

Coffee Break

10:40-11:10

G17

¹⁸O ISOTOPE LABELING OF GLYCOPEPTIDES AND GLYCAN SIMULTANEOUSLY FOR GLYCOPROTEIN QUANTIFICATION

Pengyuan YANG (Keynote)

Department of Chemistry, Fudan University, Shanghai, China

11:10-11:30

G18

NEW APPROACH OF PATHOLOGY STUDY IN CLINICAL RESEARCH BY USING IMAGING MASS SPECTROMETRY

Yuki HASHI

Shimadzu China Co., Ltd. Shimadzu Global COE for Analytical & Technical Development, Shanghai, China

11:30-11:50

G19

PROGRESS IN ORBITRAP TECHNOLOGY AND RELATED BIOINFORMATIC TOOLS FOR METABOLOMICS/LIPIDOMICS: PRINCIPLE AND PRACTICE

Zeming WU

Thermo Fisher Scientific (China) Inc., Shanghai, China

Time: Oct 25, 2013 PM (Friday)

Location: Shanghai Hall, 3rd Floor, Hotel Nikko New Century Beijing

Topic: Novel Analytical Techniques in Life Sciences

Chairman: Prof. Xiaomei YAN and Prof. X. Chris LE

13:30-14:00

G20

BINDING OF ARSENICALS TO PROTEINS AND A CELL IMAGING APPLICATION

X. Chris LE (Keynote)

Department of Laboratory Medicine and Pathology, University of Alberta, Canada

14:00-14:30

G21

SINGLE-PARTICAL TRACKING WITH QUANTUM DOTS

Daiwen PANG (Keynote)

Department of Chemistry, Wuhan University, Wuhan, China

- FUNCTIONAL NUCLEIC ACID PROBES FOR BIOANALYSIS AND BIOMEDICINE
- 14:30-15:00 G22 **Chaoyong YANG** (Keynote)
Department of Chemical Biology, Xiamen University, Xiamen, 361005, China
- DIRECT IMAGING OF NANOPARTICLE TRANSMEMBRANE DYNAMICS BY ORIENTATION TRACKING OF SINGLE GOLD NANORODS AT CELL SIDEWALL WITH DARKFIELD MICROSCOPY
- 15:00-15:20 G23 **Yan HE**
State Key Laboratory of Chemo/Biosensing and Chemometrics, College of Chemistry and Chemical Engineering, College of Biology, Hunan University, Changsha, China
- 15:20-15:30 **Coffee Break**
- DEVELOPMENT OF HIGH SENSITIVITY FLOW CYTOMETRY FOR MULTIPARAMETER AND QUANTITATIVE ANALYSIS OF SINGLE BIOLOGICAL NANOPARTICLES
- 15:30-16:00 G24 **Xiaomei YAN** (Keynote)
Department of Chemical Biology, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, China
- IDENTIFICATION OF BINDING SITES OF A RUTHENIUM ANTICANCER COMPLEX ON OLIGONUCLEOTIDES BY MASS SPECTROMETRY: BOTTOM-UP VS TOP-DOWN
- 16:00-16:20 G25 **Fuyi WANG**
Beijing National Laboratory for Molecular Sciences; CAS Key Laboratory of Analytical Chemistry for Living Biosystems, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China
- THE APPLICATION OF DIELECTROPHORESIS IN MICROFLUIDIC SYSTEMS WITH HIGH-CONDUCTIVITY MEDIA
- 16:20-16:40 G26

Jian GAO

Department of Chemistry, Qilu University of Technology,
Jinan, China

SOLUTION STRUCTURE OF MONOMERIC HUMAN
FAM96A

Bingjie OUYANG

16:40-17:00 G27 Beijing Nuclear Magnetic Resonance Center, and College of
Chemistry and Molecular Engineering, Peking University,
Beijing, China

ANALYSIS OF A SINGLE α -SYNUCLEIN
FIBRILLATION USING PROTEIN NANOPORE

Haiyan WANG

17:00-17:20 G28 Shanghai Key Laboratory of Functional Materials Chemistry
and Department of Chemistry, East China University of
Science and Technology, Shanghai, China

INTERACTIONS BETWEEN XENOBIOTICS AND
HUMAN DRUG METABOLIZING ENZYMES: NEW
TOOLS, METHODOLOGY, AND STRATEGY

17:20-17:40 G101 **Guangbo GE**
Dalian Institute of Chemical Physics, Chinese Academy of
Sciences

Time: Oct. 26, 2013 AM (Saturday)

Location: Shanghai Hall, 3rd Floor, Hotel Nikko New Century Beijing

Topic: Novel Analytical Techniques in Life Sciences

Chairman: Prof. Guohua ZHOU and Prof. Jianhua WANG

HIGHLY SENSITIVELY METHODS ALLOW
INDIVIDUALIZED MEDICINE AT A LOW COST

8:30-9:00 G29 **Guohua ZHOU** (Keynote)
Department of Pharmacology, Jinling Hospital, Nanjing
University School of Medicine, Nanjing 210002, China

9:00-9:30 G30 RECENT DEVELOPMENTS IN THE SAMPLE
PRETREATMENT FOR PROTEIN ISOLATION
Jianhua WANG (Keynote)

Research Center for Analytical Sciences, Northeastern University, Shenyang, China

- 9:30-9:50 G31 **Lei GUO**
ERYTHROPOIETIN-ALPHA SSDNA APTAMERS: IN VITRO SELECTION, CHARACTERIZATION AND APPLICATIONS
Beijing Institute of Pharmacology and Toxicology, Beijing, China
- 9:50-10:10 G32 **Feng QU**
CAPILLARY ELECTROPHORESIS APPLIED IN APTAMERS SELECTION
School of Life Science, Beijing Institute of Technology, Beijing, China
- 10:10-10:30 **Coffee Break**
- 10:30-10:50 G33 **Lingfeng LI**
APPLICATION OF A NOVEL MICROCHIP BASED ULTRA-HIGH FIELD ASYMMETRIC ION MOBILITY SPECTROMETRY IN THE FIELD OF FOOD SAFETY
Department of Information Science & Electronic Engineering, Zhejiang University, Hangzhou, China
- 10:50-11:10 G34 **Shuhua XUE**
DEVELOPMENT OF A QUICK AND SENSITIVITY ENZYME-LINKED IMMUNOASSAY BASED ON MULTICAPILLARY GLASS PLATE
Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Japan
- 11:10-11:30 G35 **Rongji DAI**
INVESTIGATION OF MESOPOROUS MATERIALS TO IMMOBILIZE ENZYME FOR RAPID SCREENING OF NATURAL MEDICINES
School of Life Science, Beijing Institute of Technology, Beijing, China

POSTER SESSION

Time: Oct. 25, 2013 PM (Friday)

Location: 3rd Floor of the Hotel Nikko New Century Beijing

- G36 PROXIMITY-DEPENDENT INHIBITION AND ENHANCEMENT OF BIOCHEMICAL REACTIONS AS A PLATFORM FOR BIOSENSOR DEVELOPEMT
Jian-Hui JIANG
State Key Laboratory of Chemeo/Bio-Sensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha, 410082, P. R. China
- G37 EXPLORATION OF THE TEMPERATURE-SENSITIVE TRANSCRIPTIONAL REGULATOR(S) IN THERMOANAEROBACTER TENGCONGENSIS
Zhen CHEN, Quanhui WANG, Jingjing ZHAO, Jiao GUO, Siqi LIU
Beijing Institute of Genomics, Chinese Academy of Sciences Beijing, China
- G38 TIRF VISUALIZATION OF AN ARTIFICIAL MOLECULAR MACHINE FEATURED MULTI-PHASES OF NICKING-POLYMERIZATION CYCLE USING HCR AS A REPORTING DEVICE IN VITRO AND IN LIVING CELLS
Rui REN^{1,2}, Haiyan WANG¹, Rui LIU² and Shusheng ZHANG^{1,2}
¹College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao, P. R. China
²College of Chemistry and Chemical Engineering, Linyi University, Linyi City, P. R. China
- G39 THE EFFECT OF DRAGENY I ON THE LEVEL OF INDUCIBLE NITRIC OXIDE SYNTHASE AND SEMICARBAZIDE-SENSITIVE AMINE OXIDASE IN RATS UNDER SIMULATED WEIGHTLESSNESS
Bo CHEN, Li DENG, Lin GAN, Yulin DENG, Yujuan LI*
School of Life Science, Beijing Institute of Technology, Beijing 100081, China
- G40 CHANGE IN FUCOSYLATED IgG2 FC-GLYCOFORMS IN PANCREATITIS AND PANCREATIC ADENOCARCINOMA: A PROMISING DISEASE CLASSIFICATION MODEL
Guoqiang CHEN¹, Hexiang LI², Ling QIU³, Xuzhen QIN³, Hui LIU¹, Zhili LI^{1*}
¹Department of Biophysics and Structural Biology, Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100005, PR China.
²Caoxian Gongfei Hospital, ₁₀₈Shandong, 274000, PR China

³Department of Clinical Laboratory, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing 100730, PR China.

DECREASE OF DYNAMIC RANGE OF PROTEINS IN HUMAN PLASMA BY AMPHOLINE IMMOBILIZED POLYMER MICROSPHERES

G41 Nan DENG^{1,2}, Yuanbo CHEN^{1,2}, Qi WU^{1,2}, Zhen LIANG¹, Yu LIANG¹, Zhigang SUI¹, Lihua ZHANG^{1*}, Yukui ZHANG¹

¹Key Laboratory of Separation Science for Analytical Chemistry, National Chromatographic Research and Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

²University of Chinese Academy of Sciences, Beijing 100039, China

COMPARITIVE PHRAMACOKINETICS OF PROMETHAZINE HYDROCHLORIDE IN CONTROL AND TAIL-SUSPENDED RATS

G42 Lin GAN, Li DENG, Jinyuan QIAO, Bo CHEN, Yulin DENG, Yujuan LI*

School of Life Science, Beijing Institute of Technology, Haidian 100081, Beijing, China

SIMPLE AND SENSITIVE DETECTION OF CYANIDE USING PINHOLE SHELL-ISOLATED NANOPARTICLE-ENHANCED RAMAN SPECTROSCOPY

G43 Jing GAO, Jianfeng WU, Lei GUO*, Jianwei XIE*¹

Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing, 100850, China

VISUAL DETECTION OF MICRORNA WITH LATERAL FLOW NUCLEIC ACID BIOSENSOR

G44 Xuefei GAO¹, Li-Ping XU¹, Xueji ZHANG¹, Guodong LIU²
¹Research Center for Bioengineering and Sensing Technology, University of Science & Technology Beijing, Beijing 100083, China

²Department of Chemistry and Biochemistry, North Dakota State University, Fargo, North Dakota 58105, USA

A NEW STRATEGY TO SCREEN BIOMARKERS OF THYROID CANCER BY A COMBINATION OF TISSUE IMAGING AND SERUM LIPID PROFILING USING MALDI-FTICR MS

G45 Shuai GUO, Zhili LI*

Institute of Basic Medical Sciences Chinese Academy of Medical Sciences, School of Basic Medicine Peking Union Medical College, Beijing, 100005, PR China

POLY(IONIC LIQUID) COVALENTLY ENCAPSULATING SILICA NANO-SPHERE IN AQUEOUS SOLUTION WITH SELECTIVE ISOLATION OF OVALBUMIN

G46 Lu HAN, Yang SHU, Xiaofeng WANG, Xuwei CHEN*, Jianhua

WANG*

Research center for analytical science, northeastern university, Shenyang, 110819, China

DEVELOPMENT OF TRANSMISSION-TYPE SURFACE PLASMON RESONANCE SENSOR USING 2D-ARRAYED NANO PARTICLES

G47 Akihito KORENAGA¹, Takashi USUI¹, Akihide HEMMI², Hui ZENG¹, Hizuru NAKAJIMA¹, Katsumi UCHIYAMA¹

¹Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Hachioji, Tokyo 192-0397

²Mebius Advanced Technology Ltd., Setagaya, Tokyo 167-0042

RISK ASSESSMENT OF ANAESTHETIC IN AQUATIC PRODUCTS

G48 Jin-cheng LI, Huan LIU, Li-dong WU, Qun WANG, Hai-yun LV, YI SONG*

Quality and Standard Research Center, Chinese Academy of Fishery Sciences, Beijing 100141, P. R. China

A NOVEL METHOD FOR ABSOLUTE PROTEIN QUANTIFICATION VIA ¹⁸O LABELED CONCATAMERS OF QUANTITATIVE PEPTIDES COMBINED WITH MULTIPLE REACTION MONITORING MASS SPECTROMETRY

G49 Nannan LI, Fang TIAN, Yangjun ZHANG

State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing, P. R. China, 102206

PREPARATION AND APPLICATION OF HOLLOW SPHERE MOLECULARLY IMPRINTED POLYMER USING HYDROXYPROPYL-CELLULOSE AND POLY(ACRYLIC ACID) AS SUPPORT WITH EXTREMELY HIGH CAPACITY TO TEMPLATE PROTEIN

G50 Yang CHEN^a, Xi-Wen HE^a, Jie MAO^a, Wen-You LI^{a,*}, Yu-Kui ZHANG^{a,b}

^aState Key Laboratory of Medicinal Chemical Biology, and Department of Chemistry, Nankai University, Tianjin 300071, China

^bNational Chromatographic Research and Analysis Center, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116011, China

N-GLYCOPROTEOME ANALYSIS OF THE SECRETOME OF HUMAN METASTATIC HEPATOCELLULAR CARCINOMA CELL LINES COMBINING HYDRAZIDE CHEMISTRY, HILIC ENRICHMENT AND MASS SPECTROMETRY ANALYSIS

G51 Xianyu LI^{1,2}, Jing JIANG², Wantao YING^{2*}, Xiaohong QIAN^{1,2*}

¹The College of Life Science and Bio-engineering, Beijing University of Technology, Beijing, 100022, China

²State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing, 102206, China

ENZYME-FREE AMPLIFIED DETECTION OF NUCLEIC ACIDS BASED ON SELF-SUSTAINED REPLICATION OF RNAZYME AND ITS APPLICATION IN TUMOR CELL DETECTION

Xue-Mei LI¹, Lin-Lin WANG², Tian-Rong DING², Shu-Sheng ZHANG^{1,2*}

G52 ¹School of Chemistry and Chemical Engineering, Linyi University, Linyi 276005, P. R. China;

²State Key Laboratory Base of Eco-chemical Engineering, College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, P. R. China

SENSITIVE NANOCHANNEL BIOSENSOR FOR T4 POLYNUCLEOTIDE KINASE ACTIVITY AND INHIBITION DETECTION

G53 Lei LIN, Yang LIU, Jing YAN, Xingsheng WANG, Jinghong LI*
Department of Chemistry, Beijing Key Laboratory for Analytical Methods and Instrumentation, Tsinghua University, Beijing 100084, China

THE EFFECT OF DIFFERENT ENZYME SYSTEMS IN T-2 TOXIN METABOLISM IN VITRO

G54 Nini LIN, Jia CHEN, Bin XU, Xia WEI, Lei GUO*, Jianwei XIE*¹
Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing, 100850, China

DETERMINATION OF NERVE AGENT METABOLITES IN HUMAN URINE USING SOLID PHASE DERIVATIZATION BY ISOTOPE-DILUTION GAS CHROMATOGRAPHY TANDEM MASS SPECTROMETRY

G55 Ying LIN, Jia CHEN, Long YAN, Lei GUO, Bidong WU, Chunzheng LI, Jianlin FENG, Qin LIU*, Jian-wei XIE*¹
Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing 100850 China

MONITORING IN VITRO AND INTRACELLULAR CYSTEINE RESIDUE-DOPAMINE QUINONE INTERACTIONS USING DOPAMINE FUNCTIONALIZED QUANTUM DOTS

G56 Hui-Ting LIU¹, Wei MA¹, Jiao-Ning SHEN², Rui WANG², and Yi-Tao LONG¹
¹Shanghai Key Laboratory of Functional Materials Chemistry and Department of Chemistry, East China University of Science and Technology, Shanghai 200237, P. R. China
²Department of Pharmaceutical Sciences, School of Pharmacy, Shanghai Key Laboratory of New Drug Design, East China University of Science and Technology, Shanghai 200237, P. R. China

THE HYPOGLYCEMIC EFFECT OF KELP ON TYPE 2 DIABETIC MICE AND ITS POSSIBLE MECHANISM

Yue-long LIU¹, Jing SUN¹, Zhi-qiang LIU², Wan-nan LI^{1,2,*}, Xue-qi FU^{1,*}

- G57 ¹Edmond H. Fischer Signal Transduction Laboratory, College of Life Sciences, Jilin University, Changchun 130023, P. R. China
²Changchun Center of Mass Spectrometry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun 130022, China

IMMUNOINFLAMMATION-RELATED PROTEIN COMPLEXES AND PROREIN GLYCOLATION IN DIABETES MELLITUS

Yujie LIU, Zhili LI

- G58 Institute of Basic Medical Sciences, Chinese Academy of Medical Sciences and School of Basic Medicine, Peking Union Medical College, 5 Dongdan San Tiao, Beijing 100005, P. R. China

APPLICATION OF QUECHERS TECHNIQUE WITH UHPLC-Q-TOF TANDEM MASS SPECTROMETRY FOR HIGH THROUGHPUT SCREENING MULTIPLE PESTICIDES IN FOOD MATRICES

Zhi-Yuan ZHAO¹, Zhi-Hong SHI¹, Jian KANG¹, Xing PENG¹, Chun-Lin FAN¹, Guo-Fang PANG¹, Meiling LU², Shan Zhou²

- G59 ¹Chinese Academy of Inspection and Quarantine, Beijing 100123, China
²Agilent Technologies (China) Limited, Beijing, 100102, China

ELECTROCHEMICAL BEHAVIOR OF DOPAMINE AT GRAPHITE OXIDE-NANODIAMOND MODIFIED ELECTRODE

Hongxia LUO, Xiaoling MA

- G60 Department of Chemistry, Renmin University of China, Beijing 100872, China

ASSAYING MULTIPLE RESTRICTION ENDONUCLEASES FUNCTIONALITIES AND INHIBITIONS ON DNA MICROARRAY WITH GOLD NANOPARTICLE PROBES

Lan MA^{1,2}, Zhijun ZHU^{1,2}, Tao LI¹ and Zhenxin WANG¹

- G61 ¹State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022, P. R. China.
²University of Chinese Academy of Sciences, No.19A Yuquan Road, Beijing, 100049, P. R. China.

INVESTIGATIONS OF A NOVEL IONIC LIQUID MICROEMULSION SYSTEM IN THE ISOLATION OF HEMOGLOBIN

Quanxing MAO, Hui WANG, Xuwei CHEN, Jianhua WANG

- G62 Research center for analytical science, Box332, Northeastern University. Shenyang, 110819, China

- MONITORING URINARY METABOLITES AFTER SULFUR MUSTARD EXPOSURE IN A RABBIT CUTANEOUS EXPOSURE MODEL USING ISOTOPE-DILUTION GAS CHROMATOGRAPHY-MASS SPECTROMETRY
 G63 Zhiyong NIE, Yajiao ZHANG, Jia CHEN, Ying LIN, Bidong WU, Yuan DONG, Jianlin FENG, Qin LIU*, and Jianwei XIE*¹
 Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing 100850 China
- BRUSH POLYMER MODIFIED AND LECTIN IMMOBILIZED CORE-SHELL MICROPARTICLE FOR HIGHLY EFFICIENT GLYCOPROTEIN/ GLYCOPEPTIDE ENRICHMENT
 G64 Yiting PAN^{1,2}, Haihong BAI^{1,2}, Cheng MA^{1,2}, Yulin DENG¹, Weijie QIN², Xiaohong QIAN²
¹School of Life Science and Technology, Beijing Institute of Technology, Beijing 100081, PR China
²National Center for Protein Sciences Beijing, State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of Radiation Medicine, Beijing 102206, PR China
- ELISA DETECTION FOR DISEASE BIOMARKERS USING CATALYTIC NADH
 G65 Mao-Pan PENG, Wei MA and Yi-Tao LONG
 Shanghai Key Laboratory of Functional Materials Chemistry and Department of Chemistry, East China University of Science and Technology, Shanghai 200237, P. R. China
- ANALYSIS OF SURFACTANT RESIDUES ON CERAMIC PLATE FROM HOUSEHOLD DISHWASHER
 G66 Paramee PENGPRECHA and Philawan HOEYKAEW
 Industrial Metrology and Testing Service Centre, Thailand Institute of Scientific and Technological Research, Patumthani, Thailand, 12120
 paramee@tistr.or.th
- PROTECTIVE EFFECT OF AQUEOUS EXTRACT OF BELAMCANDA CHINENSIS AGAINST LIPOPOLYSACCHARIDE-INDUCED ACUTE LUNG INJURY VIA DOWN-REGULATION OF OXIDATIVE STRESS
 G67 Jinyuan QIAO, Fankai LIN, Fei WANG, Jingwen FU, Yujuan LI
 School of Life Science, Beijing Institute of Technology, Beijing 100081, PR China.
- A SENSITIVE QUARTZ CRYSTAL MICROBALANCE ASSAY OF ADENOSINE TRIPHOSPHATE VIA DNAZYME ASSISTED CIRCULAR AMPLIFICATION
 G68 Weiling SONG¹, Zheng ZHU¹, Qiao ZHANG¹, Xuxu XIE¹, and Shusheng ZHANG^{1*}
¹Key Laboratory of Biochemical Analysis, Ministry of Education,

College of Chemistry and Molecular Engineering, Qingdao University of Science and Technology, Qingdao 266042, P.R.China.

- IDENTIFICATION AND QUANTIFICATION OF RICIN IN BIOMEDICAL SAMPLES BY IMMUNOCAPTURE AND LIQUID CHROMATOGRAPHY ELECTROSPRAY IONIZATION TANDEM MASS SPECTROMETRY
- G69 Jijun TANG, Xiaoxi MA, Chunzheng LI, Qin LIU, Jia CHEN, Lei GUO*, Jianwei XIE*¹
Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing, 100850, China

- ARRESTING ROLLING CIRCLE AMPLIFICATION USING DNA APTAMERS
- G70 Lida WANG¹, Kha TRAM², Yingfu LI², Jinghong LI¹
¹Department of Chemistry, Tsinghua University, Beijing, 100084, China
²Department of Biochemistry and Biomedical Sciences, McMaster University, Hamilton, Ontario, L8S4L8, Canada

- QUANTITATIVE MEASUREMENT OF NANOPARTICLE AGGREGATION BY A LABORATORY-BUILT HIGH SENSITIVITY FLOW CYTOMETER
- G71 Shuo WANG, Lihong LI, Xiaomei YAN*
The Key Laboratory of Analytical Science, The Key Laboratory for Chemical Biology of Fujian Province, Department of Chemical Biology, College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, Fujian 361005, China

- ISOLATION/SEPARATION OF PLASMID DNA USING POLYMERIC IONIC LIQUID MICROPARTICLES AS SOLID-PHASE ADSORBENT
- G72 Xiaofeng WANG, Yang SHU, Ligang XING, Xuwei CHEN, Jianhua WANG*
Research Center for Analytical Sciences, Box 332, Northeastern University, Shenyang 110819, China

- PROTEOMIC ANALYSIS OF RAT HIPPOCAMPUS IN SIMULATED MICROGRAVITY ENVIRONMENT
- G73 Yun WANG, Guang PENG, Yahui LIU, Rui SU, Yujun LI, Jie HONG, Hong QING, Yongqian ZHANG, Yulin DENG
School of Life Science, Beijing Institute of Technology, Beijing, P. R. China, 100081

- A CONVENIENT PREPARATION METHOD FOR DEOXYNIVALENOL FROM FUSARIUM GRAMINEARUM CULTURE
- G74 Bidong WU^{#1}, Hua XU[#], Jia CHEN, Lei GUO*, Jianwei XIE*²
Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping

Road, Beijing, 100850, China

- G75 HIGH-SPECIFIC DETECTION OF NERVE AGENTS USING SHELL-ISOLATED NANOPARTICLE-ENHANCED RAMAN SPECTROSCOPY BASED ON THE SELECTIVE REACTION WITH KETO-OXIME COMPOUNDS
Jianfeng WU, Lei GUO, Jing GAO, Jianlin FENG, Jianwei XIE^{*1}
Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing, 100850, China
- G76 HYPERGLYCEMIA INCREASED THE LEVEL OF 1-ACETYL-6, 7-DIHYDROXY-1, 2, 3, 4-TETRAHYDRO-ISOQUINOLINE (ADTIQ) AND LEAD TO DOPAMINE NEURON DYSFUNCTION IN DIABETES
Bingjie XIE¹, Ullah KALEEM¹, Lei PENG¹, Fankai LIN¹, Yulin DENG^{*1}
¹School of Life Sciences, Beijing Institute of Technology, 5 South Zhongguancun Street, Beijing 100081, P. R. China
- G77 METABONOMIC STUDY ON PLASMA OF SD RATS DERMAL EXPOSURE TO SULFUR MUSTARD
Bin XU¹, Lijun YUE², Chunzheng LI¹, Jianwei XIE¹
¹Beijing Institute of Pharmacology and Toxicology, Beijing 100850, China;
²Beijing Institute of Disease Control and Prevention, Beijing 100071, China
- G78 A FULL RETROSPECTIVE PROFILE OF ONE SULFUR MUSTARD EXPOSURE CASE: OVERALL ANALYSIS OF FOUR TYPES OF BIOMARKERS IN CLINICAL SAMPLES PROVIDES POSITIVE IMPLICATION FOR EARLY DIAGNOSIS AND TREATMENT MONITORING
Hua XU^{1,#}, Zhiyong NIE^{1,#}, Yajiao ZHANG^{1,#}, Chunzheng LI¹, Wenfeng YANG², Jia CHEN¹, Lijun YUE¹, Yuan DONG¹, Qin LIU¹, Ying LIN¹, Bidong WU¹, Jianlin FENG¹, Lei GUO^{1,*}, Jianwei XIE^{1,*}
¹Laboratory of Toxicant Analysis, Academy of Military Medical Sciences, 100850, Beijing, China
²PLA 307 Hospital, 100039, Beijing, China
- G79 GOLD NANOPROBE BASED DARK-FIELD COUNTING OF PATHOGEN AND BIOMOLECULE
Xiao XU, Yang CHEN, Tian LI and Na LI
College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, China
- G80 AGILENT TECHNOLOGIES SOLUTIONS FOR X-RAY CRYSTALLOGRAPHY
Zier YAN¹, Tadeusz SKARZYNSKI²
¹Research Products Division, Agilent Technologies (China), Beijing, 100102 China

²Research Products Division, Agilent Technologies, Yarnton, Oxfordshire, OX5 1QU, UK

- QUANTITATIVELY CONTROLLED NANOLITER IMMUNOASSAY UTILIZING INKJET TECHNOLOGY
G81 Jianmin YANG, Hulie ZENG, Hizuru NAKAJIMA, Katsumi UCHIYAMA*
Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Minamiohsawa, Hachioji, Tokyo 192-0397, Japan
- LIPIDOMICS ANALYSIS OF PLASMA FROM BREAST CANCER PATIENTS BY NP/RP-2D-LC-MS
G82 Li YANG, Min LI, Xinge CUI, Yu BAI, Huwei LIU*
Beijing National Laboratory for Molecular Sciences, Institute of Analytical Chemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, China
- ASCORBIC ACID ENHANCES TET-MEDIATED 5 - METHYLCYTOSINE OXIDATION AND PROMOTES DNA DEMETHYLATION IN MAMMALS
G83 Ruichuan YIN, Hua HUANG, Cuiping LI, Chao ZHAO, Hailin WANG*
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Centre for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China
- CONSTRUCTING ORDERED THREE-DIMENSIONAL MICROBEADS STRUCTURE FOR SENSITIVE ENZYME-LINKED IMMUNOSORBENT MICROARRAY
G84 Hulie ZENG, Yoriko INOUE, Kosuke MORITANI, Hizuru NAKAJIMA and Katsumi UCHIYAMA
Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, 1-1 Minamiohsawa, Hachioji, Tokyo 192-0397, Japan
- OPTIMIZATION OF AMPLIFICATION TECHNOLOGY FOR APTAMER
G85 Congxiao ZHANG, Xuefei LV, Xu HAN, Hong QING, Yulin DENG
School of Life Science, Beijing Institute of Technology. Beijing 100081, China
- A HIGHLY EFFICIENT AND VISUALIZED METHOD FOR GLYCAN ENRICHMENT BY SELF-ASSEMBLING PYRENE DERIVATIVE FUNCTIONALIZED FREE GRAPHENE OXIDE
G86 Wanjun ZHANG, Huanhuan HAN, Haihong BAI, Wei TONG, Yangjun ZHANG, Wantao YING, Weijie QIN and Xiaohong QIAN
National Center for Protein Sciences Beijing, State Key Laboratory of Proteomics, Beijing Proteome Research Center, Beijing Institute of

Radiation Medicine, Beijing 102206, P.R. China

- SIMULTANEOUS DETERMINATION OF FOUR SULFUR MUSTARD-DNA ADDUCTS IN RABBIT URINE AFTER DERMAL EXPOSURE BY LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
- G87 Yajiao ZHANG, Lijun YUE, Zhiyong NIE, Jia CHEN, Lei GUO, Bidong WU, Jianlin FENG, Qin LIU*, Jianwei XIE*¹
Beijing Institute of Pharmacology and Toxicology, No. 27, Taiping Road, Beijing 100850, China
- IDENTIFICATION AND VALIDATION SERUM FATTY ACIDS FOR EARLY DIAGNOSIS OF BREAST CANCER USING CHIP-BASED NANOESI-FTICR MS
- G88 Yaping ZHANG, Zhili LI*
Institute of Basic Medical Sciences Chinese Academy of Medical Sciences, School of Basic Medicine Peking Union Medical College, Beijing, 100005, PR China
- BIPHASIC MICROREACTOR FOR EFFICIENT MEMBRANE PROTEIN ANALYSIS OF RARE CELL SAMPLE
- G89 Qun ZHAO^{1,2}, Fei FANG^{1,2}, Zhigang SUI¹, Lihua ZHANG*¹ and Yukui ZHANG¹
¹National Chromatographic R. & A. Center, Key Laboratory of Separation Science for Analytical Chemistry, Dalian Institute of Chemical Physics, Chinese Academy of Science, Dalian 116023, China
²University of Chinese Academy of Sciences, Beijing 100039, China
*Corresponding Author: E-mail: lihuazhang@dicp.ac.cn; Phone/Fax: +86-411- 84379720.
- LIGATION-TRIGGERED FLUORESCENT SILVER NANOCLUSTERS SYSTEM FOR THE DETECTION OF NICOTINAMIDE ADENINE DINUCLEOTIDE
- G90 Zhijuan CAO, Pei WANG, Xue QIU, Choiwan LAU and Jianzhong LU
School of Pharmacy, Fudan University, 826 Zhangheng Road, 201203, Shanghai, China
- AN IMMUNOSENSOR BASED ON MAGNETIC RELAXATION SWITCH AND POLYSTYRENE MICROPARTICLE-INDUCED IMMUNE MULTIVALENCY ENRICHMENT SYSTEM FOR DETECTION OF PANTOEA STEWARTII SUBSP. STEWARTII
- G91 Yiping CHEN
National Center for Nanoscience and Technology, Beijing, China
- CHARACTERATION AND ENHANCED CATALYTIC ACTIVITY OF Pt- Pd ALLOY CATALYSTS FOR GLUCOSE OXIDATION
- G92 Chunmei GUO¹, Huifeng TIAN¹, Tong WANG¹ and Jingbo HU^{1,2},
¹College of Chemistry, Beijing Normal University, Beijing 100875,

China

²Key Laboratory of Beam Technology and Material Modification of Ministry of Education, Beijing Normal University, Beijing 100875, China

A SIMPLIFIED PYROSEQUENCING PROTOCOL BASED ON LINEAR-AFTER-THE-EXPONENTIAL (LATE)-PCR USING WHOLE BLOOD AS STARTING MATERIAL DIRECTLY**

Yunlong LIU ^{1,2,3}, Hui YE ^{1,2,3}, Zhiyao CHEN ¹, Haiping WU ², Qingxin SONG ^{1,2,3}, Bingjie ZOU ^{1,2} and Guohua ZHOU* ^{1,2,3}

¹Department of Pharmacology, Jinling Hospital, Nanjing University School of Medicine, Nanjing 210002, China.

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DEVELOPMENT OF AN ULTRA-SENSITIVE ELISA KIT FOR THE DETERMINATION OF AFLATOXIN B1 IN FOOD AND FEED SAMPLES

Guoqing SHI¹, Qing SUN¹, Jingchen YANG², Gufeng LI², Jiemin LIU¹, Qianmin DENG^{1,2}

G94 ¹Department of biological Science and Engineering, School of Chemistry and Biological Engineering, University of Science and Technology Beijing, Beijing 100083, China

²Beijing Primebiotek Company Limited, Beijing 100083, China

AN IMPROVED EXPONENTIAL AMPLIFICATION REACTION BY USING GRAPHENE OXIDE COMBINED WITH SINGLE-STRANDED BINDING PROTEIN**

Jianping WANG^{1,2}, Bingjie ZOU¹, Haiping WU¹, Guohua ZHOU^{1,2*}

¹Department of Pharmacology, Jinling Hospital, Nanjing University School of Medicine, Nanjing 210002, China

G95 ²School of Life Science and Technology, China Pharmaceutical University, Nanjing 210009, China

**This work was supported by the National Natural Science Foundation of China (Grant 21275161 and Grant 21005088) and National Key Science & Technology Special Project (2013ZX10004103)

N-TERMINAL DOMAIN OF HUMAN TIG3 HAS A SIMILAR STRUCTURE WITH H-REV107 BUT FUNCTIONS DIFFERENTLY IN APOPTOSIS

G96 Hejia WEI^{1,2}, Lei WANG^{1,3}, Xiaobai REN^{1,3}, Changwen JIN^{1,2,3} and Bin XIA^{1,2,3}

¹Beijing Nuclear Magnetic Resonance Center, Peking University, Beijing 100871, China

²School of Life Science, Peking University. Beijing 100871, China

³College of Chemistry and Molecular Engineering, Peking University.
Beijing 100871, China

- G97 TANDEM MASS TAG (TMT) COMBINED WITH SYNCHRONOUS PRECURSOR SELECTION TECHNOLOGY
ADVANCES QUANTITATIVE PROTEOMICS
Yue ZHOU
Thermo Fisher Scientific, Shanghai, China, 201206
- G98 A PAPER DEVICE FOR PORTABLE AND QUANTITATIVE DETECTION OF NON-GLUCOSE TARGETS WITH TARGET-RESPONSIVE “SWEET” HYDROGEL
Ling YAN¹, Zhi ZHU², Chao yong James YANG², Baohong LIU¹ and Pengyuan YANG¹
¹Department of Chemistry, Fudan University, Shanghai 200433, P. R. China
²College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, 361005, P. R. China
- G99 CIRCULATING TUMOR CELLS SEPARATION BASED ON SIZE AND DEFORMABILITY WITHIN MICROFLUIDIC CHIPS
Lian ZHU, Ling-Yan DONG, Dai-Wen PANG, Zhi-Ling ZHANG*
Key Laboratory of Analytical Chemistry for Biology and Medicine (Ministry of Education), College of Chemistry and Molecule Sciences, Wuhan University. 430072, P. R. China
- G100 HIGH RESOLUTION MASS SPECTROMETRY BASED BIO-PHARMACEUTICAL DEVELOPMENT AND QUALITY CONTROL WORKFLOW
Xiaoxi ZHANG¹
¹Chromatography and Mass Spec Division, Thermofisher Scientific, Shanghai, P. R. China, 201206
- G101 INTERACTIONS BETWEEN XENOBIOTICS AND HUMAN DRUG METABOLIZING ENZYMES: NEW TOOLS, METHODOLOGY, AND STRATEGY
Guang-Bo Ge (Dr. & Asso. Prof.)
Dalian Institute of Chemical Physics, Chinese Academy of Sciences,

SCHEDULE OF SESSIONS

H. ENVIRONMENTAL ANALYSIS

CHAIRMAN: Prof. Lianghong GUO

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Chongqing Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Dr. Ignacio Garc ía ALONSO and Dr. Zongwei CAI

13:30-13:35

Opening Address

SINGLE NANOPARTICLE SPECTROSCOPY AND
ULTRASENSITIVE *IN-VIVO* ASSAYS FOR REAL-TIME
STUDY OF NANOTOXICITY

13:35-14:05

H2

Dr. Nancy XU (Keynote)

Department of Chemistry & Biochemistry, Old Dominion
University, USA

CASE STUDY ON TOXICITY OF EMERGING POPS AND
POTENTIAL PRECURSORS OF POPS

14:05-14:35

H3

Dr. Zongwei CAI (Keynote)

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

ELECTRICALLY DRIVEN MICROFLUIDIC
ELECTROPHORESIS INSTRUMENT WITH EIGHT
SIMULTANEOUS OUTPUT, NO ZERO POTENTIAL AND
ITS APPLICATION TO GSH DETECTION WITHIN

14:35-14:55

H4

SINGLE ERYTHROCYTES

Dr. Rutao LIU (Invited)

College of Environmental Science and Engineering,
Shandong University, China

LABEL-FREE ELECTROCHEMICAL BIOSENSOR FOR
THE ASSAY OF REVERSIBLE PROTEIN TYROSINE
PHOSPHORYLATION AND *IN VITRO* EVALUATION OF
INHIBITION EFFECTS OF PERFLUOROALKYL ACIDS

14:55-15:15

H5

Dr. Yu YANG (Oral)

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

15:15-15:30

Coffee Break

15:35-16:05 H6 APPLICATIONS OF ISOTOPE DILUTION MASS SPECTROMETRY IN ROUTINE ENVIRONMENTAL ANALYSIS

Dr. Ignacio Garc ía ALONSO (Keynote)

Department of Physical and Analytical Chemistry, University of Oviedo, Spain

16:05-16:35 H7 IN VIVO MONITORING UPTAKE OF ORGANIC POLLUTANTS IN PLANTS BY SPME

Dr. Gangfeng OUYANG (Keynote)

School of Chemistry and Chemical Engineering, Sun Yet-Sen University, China

16:35-16:55 H8 MICROFLUIDIC SYSTEM FOR RAPID AIRBORNE PATHOGEN CAPTURE AND ANALYSIS

Dr. Guodong SUI (Invited)

Department of Environmental Science & Engineering, Fudan University, China

16:55-17:15 H9 MEASUREMENTS OF NANO CONDENSATION NUCLEI IN THE ATMOSPHERE

Dr. Jingkun JIANG (Invited)

School of Environment, Tsinghua University, China

Time: Oct. 25, 2013 AM (Friday)

Location: Chongqing Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Dr. Xing-Fang LI and Dr. Bert van BAVEL

8:30-9:00 H10 ATMOSPHERIC PRESSURE IONIZATION: A NOVEL TECHNIQUE FOR THE ANALYSIS OF THE POPS ON THE STOCKHOLM CONVENTION INCLUDING DIOXINS

Dr. Bert van BAVEL (Keynote)

MTM Research Center, Örebro University, Sweden

- 9:00-9:30 H11 **PASSIVE SAMPLING TECHNOLOGY FOR UNDERSTANDING OCCURRENCE, FATE, AND EFFECTS OF POLAR AQUATIC EMERGING ORGANIC CONTAMINANTS**
Dr. Charles WONG (Keynote)
Department of Environmental Studies and Sciences,
University of Winnipeg, Canada
- 9:30-9:50 H12 **DISTRIBUTION OF PCB 11 IN ORGANIC PIGMENT, SOIL AND SEDIMENT IN CHINA**
Dr. Qinghua ZHANG (Oral)
Research Center for Eco-Environmental Sciences, Chinese
Academy of Sciences, China
- 9:50-10:10 **Coffee Break and Poster**
- 10:10-10:40 H13 **MASS SPECTROMETRY CHARACTERIZATION AND DETERMINATION OF EMERGING DISINFECTION BYPRODUCTS IN SWIMMING POOLS**
Dr. Xing-Fang LI (Keynote)
Department of Laboratory Medicine and Pathology,
University of Alberta, Canada
- 10:40-11:00 H14 **MICROWAVE-ASSISTED AND TEMPERATURE-CONTROLLED HEADSPACE SOLID-PHASE MICROEXTRACTION FOR THE DETERMINATION OF PHTHALATE ESTERS IN WATER SAMPLES**
Dr. Youn Yuen SHU (Oral)
Department of Chemistry, Kaohsiung Normal University,
Taiwan
- 11:00-11:20 H15 **VALIDATION OF UV SPECTROPHOTOMETRIC AND HPLC METHODS FOR QUANTITATIVE DETERMINATION OF CHLORPYRIFOS**
Dr. O. A. ZALAT (Oral)
Egyptian Armed Force, Egypt

Time: Oct 25, 2013 PM (Friday)

Location: Chongqing Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Dr. Huijun ZHAO and Dr. Jules BLAIS

- 13:30-14:00 H16 DETECTION OF STEROIDAL ESTROGENS IN ENVIRONMENTAL MEDIA
Dr. Jules BLAIS (Keynote)
Department of Biology, University of Ottawa, Canada
- 14:00-14:30 H17 ANTIBIOTIC RESISTANCE GENES (ARGS) BETWEEN DEEP OCEAN AND HUMAN IMPACTED ESTUARY USING METAGENOMIC APPROACH
Dr. Xiangdong LI (Keynote)
Department of Civil & Structural Engineering, Hong Kong Polytechnic University, Hong Kong, China
- 14:30-14:50 H18 ULTRASENSITIVE DETECTION OF MICROCYSTINS-LR BASED ON CARBON NANOMATERIALS AS TRANSDUCERS
Dr. Huimin ZHAO (Invited)
School of Environmental Science and Technology, Dalian University of Technology, China
- 14:50-15:10 H19 A RUTHENIUM(II) COMPLEX-BASED PHOTOLUMINESCENT AND ELECTROCHEMILUMINESCENT DUAL-SIGNALING PROBE FOR HIGHLY SELECTIVE AND SENSITIVE DETECTION OF NITRIC OXIDE
Dr. Wenzhu ZHANG (Oral)
School of Chemistry, Dalian University of Technology, China
- 15:10-15:30 **Coffee Break**
- 15:30-16:00 H20 FIELD-BASED WATER QUALITY MONITORING TECHNIQUES
Dr. Huijun ZHAO (Keynote)
Griffith School of Environment, Griffith University, Australia

- 16:00-16:20 H21 SURFACE MODIFICATION OF CARBON NANOMATERIALS BY PLASMA TECHNIQUE AND THEIR APPLICATIONS IN ENVIRONMENTAL POLLUTION CLEANUP
Dr. Xiangke WANG (Invited)
Institute of Plasmon Physics, Chinese Academy of Sciences, China
- 16:20-16:40 H66 ZEBRAFISH EMBRYOS AS MODELS FOR TOXICITY TESTING --- INVESTIGATING THE MECHANISM OF METHYL MERCURY TOXICITY
Dr. Lixin YANG (Oral)
Institute of Toxicology and Genetics, Karlsruhe Institute of Technology, Germany
- 16:40-17:00 H22 INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY FOR THE DETERMINATION OF METAL ELEMENTS IN RED MUD
Dr. Deliang LI (Oral)
College of Chemistry and Chemical Engineering, Henan University, China
- 17:00-17:20 H23 OCCURRENCE AND DISTRIBUTION OF DIALKYL PHOSPHINIC ALUMINUM IN SOIL AND SEDIMENT NEAR A MANUFACTURING SITE
Ms. Yumin NIU (Oral)
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China

Time: Oct. 26, 2013 AM (Saturday)

Location: Chongqing Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Dr. Chris LE and Dr. Yong CAI

		ANALYTICAL CHALLENGES OF STUDYING MERCURY BIOGEOCHEMICAL CYCLING
8:30-9:00	H24	Dr. Yong CAI (Keynote) Department of Chemistry and Biochemistry, Florida International University, USA
9:00-9:30	H25	DUAL PRECONCENTRATION STRATEGY COMBINED WITH CAPILLARY ELECTROPHORESIS-ULTRAVIOLET DETECTION FOR SPECIATION OF MERCURY IN ENVIRONMENTAL AND BIOLOGICAL SAMPLES Dr. Bin HU (Keynote) Department of Chemistry, Wuhan University, China
9:30-9:50	H26	FACET-DEPENDENT ELECTROCHEMICAL PROPERTIES OF CO ₃ O ₄ NANOCRYSTALS TOWARD HEAVY METAL IONS Dr. Xing-Jiu HUANG (Invited) Institute of Intelligent Machines, Chinese Academy of Sciences, China
9:50-10:10		Coffee Break
10:10-10:40	H27	THE FATE OF ROXARSONE REVEALED IN A FEEDING STUDY INVOLVING 1600 CHICKENS Dr. Chris LE (Keynote) Department of Laboratory Medicine and Pathology, University of Alberta, Canada
10:40-11:00	H28	RAPID IN-SITU DETECTION OF ARSENIC SPECIES USING A PORTABLE FE ₃ O ₄ @AG SERS SENSOR Dr. Chuanyong JING (Oral) Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China
11:00-11:20	H29	FUNCTIONALIZED GOLD NANOPARTICLES FOR THE DETECTION OF HEAVY METAL IONS IN WATER Dr. Zuo WANG (Oral) National Center for Nanoscience and Technology, China
11:20-11:30		Poster Awards/Closing Remarks

POSTER SESSION

Time: Oct. 25, 2013 AM (Friday)

Location: 3rd floor of the Hotel Nikko New Century Beijing

- H30 EVALUATING STABILITY AND STRUCTURAL CHANGES OF CLAY NANOPARTICLE AND CNF COMPOSITES EXPOSED TO ENVIRONMENTAL CONDITIONS
Amy Q. ZHAO¹, E. Sahle-DEMESSIE¹, Andrew W. SALAMON²
¹U.S. Environmental Protection Agency, Cincinnati, OH, U.S.A
²PerkinElmer, Inc., Shelton, CT, U.S.A
- H31 CHEMILUMINESCENCE METHOD FOR ON-LINE DETECTION OF REACTIVE OXYGEN SPECIES (ROS) PRODUCED IN TiO₂ PHOTOCATALYSIS
Dabin WANG, Li-Xia ZHAO*, Liang-Hong GUO*
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 18 Shuangqing Road, P.O.Box 2871, Beijing 100085, China
- H32 A HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASSSPECTROMETRY METHOD FOR QUANTITATION OF INTRACELLULAR ALPHA-KETOGLUTARATE AND 2-HYDROXYGLUTARATE
Hua HUANG, Ruichuan YIN, Hailin WANG
State Key Laboratory of Environmental Chemistry and Ecotoxicology Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ShuangQing Road 18, Haidian Distr. Beijing, 100085, China
- H33 ESTABLISHING THE RELATIONSHIP OF ANTIBIOTIC CHEMICALS AND GENE FINGERPRINT OF ARGs IN THE PEARL RIVER ESTUARY, SOUTH CHINA
Baowei CHEN¹, Ximei LIANG², Xiaoping HUANG², Tong ZHANG³, Xiangdong LI¹
¹Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong
²South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, China
³Environmental Biotechnology Laboratory, The University of Hong Kong, Hong Kong
- H34 INSIGHTS FROM ARSENATE ADSORPTION ON RUTILE (110): GRAZING-INCIDENCE X-RAY ABSORPTION FINE STRUCTURE SPECTROSCOPY AND DFT STUDY
Li YAN, Shan HU, Chuangyong JING
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China

- CAPILLARY ELECTROPHORESIS COUPLED LASER-INDUCED FLUORESCENCE IMMUNOASSAY FOR THE DETECTION OF BPDE-DNA ADDUCTS
H35 Cuiping LI, Hailin WANG
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China
- VOCS MONITORING IN AMBIENT AND POLLUTED AIR USING MOBILE LAB EQUIPPED WITH MINI TD AND TRANSPORTABLE GCMS
H36 Xiaohua LI, Jianguo JI
Agilent Technologies (Shanghai) Co., Ltd. 412 Ying Lun Road Waigaoqiao Free Trade Zone, Shanghai 200131, China
- DETERMINATION OF POLYBROMINATED DIBENZO-P-DIOXINS, DIBENZOFURANS IN STACK GAS FROM STEELMAKING PROCESS
H37 Sumei LI, Guorui LIU, Minghui ZHENG*, Ke XIAO, Mei WANG
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
- VOCS MONITORING IN AMBIENT AND POLLUTED AIR USING MOBILE LAB EQUIPPED WITH MINI TD AND TRANSPORTABLE GCMS
H38 Xiaohua LI, Jianguo JI
Agilent Technologies (Shanghai) Co., Ltd. 412 Ying Lun Road, Waigaoqiao Free Trade Zone, Shanghai, P.R.China
- INVESTIGATION OF TRICLOSAN AND ITS DEGRADATION PRODUCTS IN WASTEEATER
H39 Fatemeh TOHIDI, Zongwei CAI*
Chemistry Department, Hong Kong Baptist University, HKSAR, China
- PHOTOELECTROCHEMICAL BIOSENSOR FOR ORGANOPHOS-PHOROUS PESTICIDES BASED ON QD/GRAPHENE/ACHE NANO-COMPOSITE
H40 Xinyu LI, Zhaozhu ZHENG, Shaoqin LIU
Key Laboratory of Microsystems and Microstructures Manufacturing, Ministry of Education, Harbin Institute of Technology, Harbin 150080, China
- LEVELS AND BIOMAGNIFICATION OF PCBS AND PBDES IN MARINE BIOTA FOOD CHAINS, ANTARCTICA
H41 Yingming LI, Dawei GENG, Pu WANG, Qinghua ZHANG, Guibin JIANG
State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-environmental Sciences, Chinese Academy of

Sciences, Beijing 100085, China

- THE SECRET OF SUSTAINING SUSCEPTIBILITY OF BISMUTH AGAINST *HELICOBACTER PYLORI*: IMPLICATION FOR FIGHTING AGAINST ANTIBIOTIC RESISTANCE
H42 Ligang HU, Yau-Tsz LAI, Yuchuan WANG, Hongzhe SUN*
Department of Chemistry, The University of Hong Kong, Hong Kong SAR, China
- THE STUDY OF THE MUTIPLE INTERACTION BETWEEN BIOMACROMOLECULES AND GRAPHENE OXIDE
H43 Dong LIANG, Maoyong SONG, Hailin WANG
State Key Laboratory of Environmental Chemistry and Ecotoxicology
Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, ShuangQing Road 18, Haidian Distr. Beijing, 100085, China
- IMMUNOTOXIC EFFECTS OF PERFLUOROOCCTANE SULFONATE EXPOSE IN ADULT MALE BABL/C MICE AND THE MECHANISMS
H44 Qiyang LV, Bin WAN*, Lianghong GUO*
State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-environmental Sciences, Chinese Academy of Sciences. 18 Shuangqing Road, P.O. Box 2871, Beijing 100085, China
- DETERMINATION OF CEES BY GAS CHROMATOGRAPHY EQUIPPED WITH FLAME PHOTOMETRIC DETECTOR
H45 O.A.ZALAT, M. A. ELSAYED, M. S. FAYED, M. K. Abd ELMEGID
Egyptian Armed force, Cairo, Egypt
- THE PFOS MIGHT BE A TR AGONIST
H46 Xiao-Min REN, Liang-Hong GUO
State Key Laboratory of Environmental Chemistry and Eco-toxicology,
Research Centre for Eco-environmental Sciences, Chinese Academy of Sciences, 18 Shuangqing Road, P.O. Box 2871, Beijing 100085, China
- COLOTOMETRIC ASSAY FOR HOCL BY USE OF ITS RAPID OXIDATION REACTION TOWARD 1-METHYL-4-MERCAPTOIMIZOLE MODIFIED GOLD NANOPARTICLE
H47 Jiefang SUN, Rui LIU, Zhongmian ZHANG, Jingfu LIU
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

- H48 HIGH-SPEED TOFMS FOR GC AND GCXGC ENDOCRINE DISRUPTING COMPOUNDS CHARACTERIZATION IN HUMAN TISSUES FOR ENVIRONMENTAL RISK FACTORS ASSESSMENT
Pierangela PALMA², Daniela CAVAGNINO¹, Antonella SIVIERO¹,
Alessandra MANTEGAZZA¹, Veronica TERMOPOLI², Giorgio
FAMIGLINI², Anna Maria LAVEZZI³, Luigi MATTURRI³, Achille
CAPPIELLO²
¹DANI Instruments, Cologno Monzese, ITALY;
²LC-MS Laboratory, DiSTeVA, University of Urbino, Urbino, ITALY;
³Research Center "Lino Rossi", University of Milan, Milan, ITALY
- H49 CHARACTERIZATION OF LANTHANUM IMPREGNATED ALUMINA FOR FLUORIDE REMOVAL
Qiantao SHI, Chuangyong JING
State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-Environmental Sciences, Chinese Academy of
Sciences, Beijing 100085, China
- H50 EVALUATION OF INHIBITION EFFECT OF ORGANOPHOSPHORUS FLAME RETARDANTS ON LYSINE DECARBOXYLASE BASED ON A LABEL-FREE FLUORESCENCE SENSING ASSAY
Sufang WANG, Yu YANG, Lianghong GUO
State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-environmental Sciences, Chinese Academy of
Sciences, Beijing 100085, China
- H51 TRACE ANALYSIS OF BENZOYLUREA INSECTICIDES IN WATER SAMPLES WITH TiO₂ NANOTUBE ARRAY MICRO-SOLID PHASE EQUILIBRIUM EXTRACTION COUPLED TO HIGH PERFORMANCE LIQUID CHROMATOGRAPHY
Qingxiang ZHOU^{1,2}, Wei WU², Junping XIAO³
¹Beijing Key Laboratory for Oil and Gas pollution and Control, College
of Geosciences, China University of Petroleum Beijing, Beijing
102249, China
²School of Chemistry and Environmental Sciences, Henan Normal
University, Xinxiang 453007, China
³Department of Chemistry, University of Science and Technology
Beijing, Beijing 100083, China
- B55 FEASIBILITY STUDY FOR SINO-SWISS HIGH-PRECISION MACHINE SHOP FOR ANALYTICAL INSTRUMENTATION IN CHINA
Eric HANDBERG¹, Jie JIANG², Xiaobin ZHU¹, Tao CHEN¹, Yongqi
SANG¹, Xiaofeng DONG¹, Huanwen CHEN¹
¹East China Institute of Technology, Nanchang 330013, China
²Harbin Institute of Technology at Weihai, Weihai 264209, China
- H52 MOLECULARLY IMPRINTED POLYMER-BASED SOLID PHASE EXTRACTION FOR SELECTIVE ENRICHMENT OF

POLYCYCLIC AROMATIC HYDROCARBONS IN WATER

Wenchao WEI, Rongning LIANG, Zhuo WANG, Wei QIN*

Yantai Institute of Coastal Zone Research (YIC), Chinese Academy of Sciences (CAS), Yantai, Shandong 264003, P. R. China

DETERMINATION OF ADENOSINE 5'-TRIPHOSPHATE BY ION-PAIRING REVERSED-PHASE LIQUID CHROMATOGRAPHY-DAD DETECTOR

H53

Danni WU, Cuiping LI, Hua HUANG, Ning ZHANG, Hailin WANG

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

IONIC LIQUID DISPERSIVE LIQUID-PHASE MICROEXTRACTION PRIOR TO HIGH PERFORMANCE LIQUID CHROMATOGRAPHY FOR THE SENSITIVE DETERMINATION OF TRIAZINE HERBICIDES IN WATER SAMPLES

Qingxiang ZHOU^{1,2}, Yuanyuan GAO², Junping XIAO³

H54

¹Beijing Key Laboratory for Oil and Gas pollution and Control, College of Geosciences, China University of Petroleum Beijing, Beijing 102249, China

²School of Chemistry and Environmental Sciences, Henan Normal University, Xinxiang 453007, China

³Department of Chemistry, University of Science and Technology Beijing, Beijing 100083, China

LABEL-FREE AND SELECTIVE PHOTOELECTROCHEMICAL DETECTION OF CHEMICAL DNA METHYLATION USING DNA REPAIR ENZYMES

H55

Yiping WU, Bintian ZHANG, Lianghong GUO

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

SORPTION OF ORGANOPHOSPHATE ESTERS BY CARBON NANOTUBES

H56

Wei YAN, Li YAN, Chuanyong JING

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

STUDY OF ADSORPTION OF HEAVY METAL IONS ON WEAKLY BASIC ANION EXCHANGERS WITH INDUCTIVE COUPLED HIGH FREQUENCY PLASMA (ICP)

H57

Guoqi WU

School of Petrochemical Engineering, Changzhou University, Changzhou, Jiangsu 213164 China

H58

DIVERSITIES OF ESCHERICHIA COLI RECA-SSDNA NUCLEOPROTEIN FILAMENTS REGULATED BY ATP

HYDROLYSIS

Bailin ZHAO, Dapeng ZHANG, Cuiping LI, Hailin WANG*
State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-environmental Sciences, Chinese Academy of
Sciences, Beijing 100085, China

PREPARATION OF 5-HYDROXYMETHYLCYTOSINE-DNA PROBE

H59 Chao ZHAO, Hailin WANG
State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-Environmental Sciences, Chinese Academy of
Sciences, Beijing 100085, China

QUANTITATION OF 2'-DEOXYGUANOSINE ADDUCTS DERIVED FROM ACETALDEHYDE BY ISOTOPE DILUTION ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY ELECTROSPRAY IONIZATION TANDEM MASS SPECTROMETRY

H60 Ning ZHANG¹, Ruichuan YIN², Hua HUANG², Weibing ZHANG¹, Hailin WANG²
¹Shanghai Key Lab of Functional Materials Chemistry, East China University of Science and Technology, Shanghai, 200237, China
²State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China

THE INTERACTION OF THE METHYL-CPG BINDING DOMAIN PROTEIN AND DNA STUDIED BY CAPILLARY ELECTROPHORESIS LASER INDUCED FLUORESCENCE

H61 Shangwei ZHONG^a, Dandan ZOU^b, Bailin ZHAO^b, Chao ZHAO^b, Dapeng ZHANG^b, Jiali SU^a, Xiangjun LI^a, Hailin WANG^b
^aCollege of Chemistry and Chemical Engineering, University of Chinese Academy of Sciences, Beijing 100049, China
^bState Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100085, China

GROUP SEPARATION OF TOXAPHENE BY COMPREHENSIVE TWO-DIMENSIONAL GAS CHROMATOGRAPHY

H62 Shuai ZHU, Lirong GAO, Minghui ZHENG, Bing ZHANG, Lidan LIU
State Key Laboratory of Environmental Chemistry and Ecotoxicology,
Research Center for Eco-environmental Sciences, Chinese Academy of
Sciences, Beijing 100085, China

NON-TARGETED SCREENING ENVIRONMENTAL TOXIC POLLUTANTS BY A NOVEL ELECTROCHEMICAL DNA BIOSENSOR

H63 Lidong WU¹, Xianbo LU², Yi SOMG¹, Jing JIN², Huan LIU¹, Jincheng LI¹, Jiping CHEN²

¹Chinese Academy of Fishery Sciences, Beijing 100141, China

²Dalian Institute of Chemical Physics, Chinese Academy of Sciences,
Dalian 116023, China

ENGINEERED SNAP-MBD2B PROTEINS FOR SPECIFIC
RECOGNITION OF METHYLATION DNA

Dandan ZOU, Xiaoli WANG, Zhilan CHEN, Dapeng ZHANG, Hailin
WANG

H64

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

PRODUCTS ANALYSIS OF THE PHOTOCATALYTIC
NITROBENZENE REDUCTION USING GC-MS

Peng ZHANG, Pei JIANG, Dongxiang ZHANG

H65

School of Chemical Engineering and the Environment, Beijing Institute
of Technology, Beijing, China, 100081

SCHEDULE OF WORKSHOPS

SCHEDULE OF WORKSHOPS

W2. METALLOMICS

CHAIRMAN: Qiuquan WANG & Xinrong ZHANG

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Nanjing Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Qiuquan WANG and Prof. Xinrong ZHANG

13:30 – 13:35		Opening remarks Qiuquan WANG
13:35 – 14:10	W2-1	ZINC AND IRON METALLOMICS IN HUMAN HEALTH AND DISEASE Wolfgang MARET School of Medicine, King's College London
14:10 – 14:40	W2-2	SELENIUM IN BIOLOGICAL SYSTEMS: FROM ORGANO-SELENIUM SPECIES TO SELENIUM NANOPARTICLES Zoltan MESTER Chemical Metrology, Measurement Science and Standards, National Research Council Canada
14:40 – 15:10	W2-3	TRACKING METAL IONS AND METALLOPROTEINS IN CELLS BY A METALLOMIC APPROACH Hongzhe SUN Department of Chemistry, The University of Hong Kong
15:10 – 15:30	W2-4	INTEGRATION AND APPLICATION OF MULTIPLE 'OMICS' TECHNOLOGIES FOR BIOLOGICAL EFFECTS OF NANOMATERIALS Chunying CHEN National Center for Nanoscience and Technology
15:30 -15:45		Tea & Coffee break
15:45 – 16:20	W2-5	BINDING OF ARSENICALS TO PROTEINS AND A CELL IMAGING APPLICATION Chris X. LE Department of Laboratory Medicine and Pathology, University of Alberta

16:20 – 16:50	W2-6	<p>ACCURATE MEASUREMENT OF IRON METABOLISM BIOMARKERS BY ELEMENTAL MASS SPECTROMETRY: NEW TOOLS AND REMAINING CHALLENGES</p> <p>Maria MONTES-BAYÓN</p> <p>Department of Physical and Analytical Chemistry. Faculty of Chemistry. University of Oviedo</p>
16:50 – 17:20	W2-7	<p>MECHANISM OF METALS HOMEOSTASIS REGULATION IN AD DISEASE</p> <p>Xiangshi TAN</p> <p>Institutes of Biomedical Sciences & Department of Chemistry, Fudan University</p>
17:20 – 17:50	W2-8	<p>METALLOMIC APPROACHES FOR CHASING NANOPARTICLES</p> <p>Jorg BETTMER</p> <p>University of Oviedo, Dept. of Physical and Analytical Chemistry</p>
17:50 – 18:10	W2-9	<p>STABLE ISOTOPIC PROFILING OF MERCURY IN ENVIRONMENTAL SAMPLES BY MC-ICP-MS</p> <p>Bin HE</p> <p>Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</p>
18:10 – 18:15		<p>Closing remarks</p> <p>Xinrong ZHANG</p>

SCHEDULE OF WORKSHOPS

W3. PROTEOMICS

CHAIRMAN: Prof. Lihua ZHANG

ORAL LECTURES

Time: Oct. 26, 2013 (Saturday)

Location: Hainan Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Xiaohong QIAN, Prof. Lingjun LI

		OPENING ADDRESS
8:30-8:40		Yukui ZHANG Dalian Institute of Chemical Physics, CAS
8:40-9:05	W3-2	THE PROTEOME ARGONAUTS: HOW TO CONQUER THE GOLDEN FLEECE OF YOUR PET SAMPLE Piergiorgio RIGHETTI (Keynote) Politecnico di Milano
9:05-9:30	W3-3	INVESTIGATION ON ESI INTERFERENCE IN HIGH-THROUGHPUT PEPTIDE QUANTIFICATION Pengyuan YANG (Keynote) Fudan University
9:30-9:55	W3-4	TOP-DOWN PROTEOMICS USING CAPILLARY ELECTROPHORESIS Norman DOVICH (Keynote) University of Notre Dame
9:55-10:20		Coffee Break
		Chairman: Prof. Piergiorgio RIGHETTI, Prof. Pengyuan YANG
10:20-10:45	W3-5	QUALITATIVE AND QUANTITATIVE INVESTIGATION ON GLYCOPROTEINS UNDER DIFFERENT MASS SPECTROMETRIC PLATFORMS Xiaohong QIAN (Keynote) Beijing Institute of Radiation Medicine
10:45-11:10	W3-6	DEVELOPING MASS SPECTROMETRY-BASED

MOLECULAR IMAGING AND PROTEOMICS
STRATEGIES FOR THE STUDIES OF
NEUROLOGICAL DISEASES

Lingjun LI (Keynote)

University of Wisconsin-Madison

EXPANSION OF ION LIBRARY FOR QUANTITATIVE
PROTEOMICS USING SWATH

11:10-11:35 W3-7

Siqi LIU (Keynote)

BGI-Shenzhen/BIG, CAS

Lunch

11:35-13:00

Chairman: Prof. Norman DOVICH, Prof. Siqi LIU

DRIVING MASS SPECTROMETRY BASED
PROTEOMICS FROM HYPOTHESIS GENERATING
TO HYPOTHESIS TESTING

13:00-13:25 W3-8

Micheal MACCOSS (Keynote)

University of Washington

COMPUTATIONAL PROTEOMICS AND PFIND: THE
STATE OF THE ART

13:25-13:50 W3-9

Simin HE (Keynote)

Institute of Computing Technology, CAS

CHEMOPROTEOMICS TO STUDY MOLECULAR
SIGNALING

13:50-14:15 W3-10

Weiguo Andy TAO (Keynote)

Purdue University

RECENT ADVANCES IN HIGH PERFORMANCE
ISOTOPE LABELING LC-MS FOR METABOLOMICS

14:15-14:40 W3-11

Xiangmin ZHANG (Keynote)

Fudan University

SYSTEMS-LEVEL ANALYSIS OF HOST-PATHOGEN
INTERACTIONS USING MASS
SPECTROMETRY-BASED PROTEOMICS

14:40-15:05 W3-12

Xiaoyun LIU (Keynote)

Peking University

Coffee Break

15:05-15:30

Chairman: Prof. Xiangmin ZHANG, Prof. Micheal MACCOSS

TRYPsin CATALYZED REACTIONS AND
QUANTITATIVE PROTEOMICS

15:30-15:55

W3-13

Mingliang YE (Keynote)

Dalian Institute of Chemical Physics, CAS

TO BE ANNOUNCED

15:55-16:20

W3-14

Christine C. WU (Keynote)

University of Pittsburgh

NEW METHODS FOR MEMBRANE PROTEOME
ANALYSIS

16:20-16:45

W3-15

Lihua ZHANG (Keynote)

Dalian Institute of Chemical Physics, CAS

COMPREHENSIVE AND CONFIDENT PROTEIN
IDENTIFICATION USING TOP-DOWN MASS
SPECTROMETRY AND ISOTOPIC ENVELOPE

16:45-17:05

W3-16

FINGERPRINTING

Zhixin TIAN (Oral)

Tongji University

AN OPTIMIZED ACID-UREA POLYACRYLAMIDE
GEL ELECTROPHORESIS (AU-PAGE) SEPARATION
METHOD OF ACETYLATED HISTONE

17:05-17:25

W3-17

Xiaoxi ZHANG (Oral)

ThermoFisher Scientific

18:00

Dinner

SCHEDULE OF WORKSHOPS

W4. NANOTECHNOLOGY FOR ANALYSIS

CHAIRMAN: Prof. Xingyu JIANG

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Yunnan Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Xingyu JIANG and Prof. Ulrich J. KRULL

13:30-13:55	W4-1	QUANTUM DOTS FOR MULTIPLEXED SOLID-PHASE OPTICAL TRANSDUCERS: MICROFLUIDIC BIOASSAYS, PAPER-BASED DIAGNOSTICS AND CMOS SENSORS Prof. Ulrich J. KRULL (Keynote) University of Toronto, Canada
13:55-14:20	W4-2	NANOMATERIALS IN ANALYTICAL ATOMIC SPECTROMETRY PROF. XIANDENG HOU Prof. Xiandeng HOU (Keynote) Sichuan University, China
14:20-14:45	W4-3	TBD Prof. Bartosz GRZYBOWSKI (Keynote) Northwestern University, USA
14:45-15:00	W4-11	CONTROLLED SYNTHESIS AND ELECTROCHEMILUMINESCENT APPLICATIONS OF MONODISPERSE METAL NANOCRYSTALS, RESIN SPHERES AND CARBON SPHERES Prof. Guobao XU (Oral) Changchun Institute of Applied Chemistry , CAS
15:00-15:15	W4-12	MODEL ORGANISM ON A CHIP Prof. Qionglin LIANG (Oral) Tsinghua University

- 15:15-15:30 W4-13 DETERMINATION OF CH_3HG^+ USING BOVINE SERUM ALBUMIN-STABILIZED GOLD NANOCUSTER AFTER MASKING HG^{2+}
Dr. Yufeng LI (Oral)
Insitute of High Energy Physics, CAS
- 15:30-15:40 **Coffee Break and Poster**
- 15:40-16:05 W4-4 INKJET PRINTING METHODOLOGIES FOR DRUG SCREENING DEVICES
Prof. Bruno PIGNATARO (Keynote)
The University of Palermo, Italy
- 16:05-16:30 W4-5 NANOSTRUCTURED THIN FILMS FOR BIOSENSING
Prof. Shaoqin LIU (Keynote)
Harbin Institute of Technology
- 16:30-16:45 W4-14 DEVELOPMENT OF METAL-ENHANCED FLUORESCENT DETECTION METHODS BASED ON SILVER NANOPARTICLES
Prof. Danke XU (Oral)
Nanjing University
- 16:45-17:00 W4-15 A FRONTIER NANOPARTICLE SELF-ASSEMBLY-SUPERPARTICLE
Prof. Tie WANG (Oral)
Institute of Chemistry, CAS
- 17:00-17:15 W4-16 MICROFLUIDICS FOR SEPARATION AND DETECTION OF TUMOR CELLS
Prof. Jiashu SUN (Oral)
National Center for Nanoscience and Technology
- 17:15-17:30 W4-22 SINGLE-MOLECULE RAMAN MAPPING WITH SUB-NM RESOLUTION
Prof. Zhenchao DONG (Oral)
University of Science and Technology of China

Time: Oct. 25, 2013 AM (Friday)

Location: Yunnan Hall, 3rd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Bruno PIGNATARO and Prof. Chengzhi HUANG

8:30-8:55	W4-6	NANOTECHNOLOGY FOR REMOTE DIVING INTO THE BODY'S HEALTH Prof. Hossam HAICK (Keynote) Israel Institute of Technology, Israel
8:55-9:20	W4-7	FLUORESCENT NOBLE METAL NANOCLUSTERS FOR BIOSENSING Prof. Chengzhi HUANG (Keynote) Southwest University
9:20-9:45	W4-8	CELL ADHESIVE NANO-BIO INTERFACE TOWARDS CANCER DIAGNOSTICS Prof. ShuTao WANG (Keynote) Institute of Chemistry, CAS
9:45-10:00	W4-17	BIOANALYTICAL APPLICATIONS OF GOLD NANOPARTICLE PROBES Prof. Zhenxin WANG (Oral) Changchun Institute of Applied Chemistry , CAS
10:00-10:15	W4-18	SILICON NANOTECHNOLOGY-BASED BIOANALYSIS APPLICATIONS Prof. Yao HE (Oral) Soochow University
10:15-10:30		Coffee Break
10:30-10:55	W4-9	DETERMINATION OF REACTIVE OXYGEN SPECIES USING INORGANIC-ORGANIC NANOHYBRIDED FLUORESCENT MATERIALS Prof. Yang TIAN (Keynote) Tongji University
10:55-11:20	W4-10	CELL IMAGING AND NANO PROBE Prof. Qing HUANG (Keynote) Shanghai Institute of Applied Physics, CAS
11:20-11:35	W4-19	CONSTRUCTION OF SUPRAMOLECULAR

NANOSYSTEMS FOR CANCER THERANOSTICS

Prof. Hao WANG (Oral)

National Center for Nanoscience and Technology

MAGNETIC RELAXATION SWITCH SENSOR FOR
BIO-ANALYSIS

11:35-11:50 W4-20 **Dr. Yiping CHEN** (Oral)

National Center for Nanoscience and Technology

SCHEDULE OF WORKSHOPS

W5. CHEMICAL METROLOGY AND REFERENCE MATERIALS

CHAIRMAN: Dr. Derek Craston, Prof. Hongmei LI, Dr. Koichi Chiba

ORAL LECTURES

Time: Oct. 24, 2013 PM (Thursday)

Location: Zhejiang Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Dr. Derek CRASTON

- | | | |
|-------------|------|---|
| 13:30-14:05 | W5-3 | PRECISION MEASUREMENTS OF THE MOLAR MASS OF HIGHLY ENRICHED SILICON MATERIAL USING ISOTOPE DILUTION
Dr. Detlef SCHIEL
Physikalisch-Technische Bundesanstalt (PTB), Germany |
| 14:05-14:40 | W5-4 | METROLOGICAL TRACEABILITY AND CERTIFIED REFERENCE MATERIALS
Dr. John MURBY
National Measurement Institute of Australia (NMIA), Australia |
| 14:40-15:15 | W5-5 | INTERNATIONAL HARMONIZATION OF GAS CRMS BY GAS ANALYSIS WORKING GROUP
Dr. Jin Seog KIM
Korea Research Institute of Standards and Science (KRISS), Korea |
| 15:15-15:45 | | Coffee Break |
| 15:45-16:20 | W5-6 | EVALUATION OF MATRIX EFFECT IN ISOTOPE DILUTION HPLC-MS/MS
Dr. Qinghe ZHANG
National Institute of Metrology, China |
| 16:20-17:00 | W5-7 | REAL-TIME MONITORING FOR ANALYTIC |

QUANLITY OF SURVEY ON ORGANIC POLLUTANTS
IN GROUNDWATER AND RESULTS COMPARISON
BETWEEN LABS

Prof. Fei LIU

China University of Geosciences, China

Time: Oct. 25, 2013 AM (Friday)

Location: Zhejiang Hall, 2nd Floor, Hotel Nikko New Century Beijing

Chairman: Prof. Hongmei Li

- | | | |
|-------------|-------|--|
| 8:30-9:05 | W5-8 | BIOMEDICAL RESEARCH AT NIST: MEASUREMENT
SCIENCE FOR QUANTITATIVE BIOLOGY IN THE
MATERIALS MEASUREMENT LABORATORY
Dr. Anne L. PLANT
National Institute of Standards and Technology(NIST), USA |
| 9:05-9:40 | W5-9 | SMART CALIBRATION FOR ORGENIC CHEMICAL
SUBSTANCES BY QUANTITATIVE NMR
Dr. Koichi CHIBA
National Metrology Institute of Japan (NMIJ), Japan |
| 9:40-10:15 | W5-10 | CHINA RoHS STANDARDIZATION AND REFERENCE
MATERIALS
Prof. Weibing XING
China Electronics Standarddization Institute (CESI), China |
| 10:15-10:45 | | Coffee Break |
| 10:45-11:20 | W5-11 | REFERENCE MATERIALS AND CALIBRATION FOR
CLINICAL APPLICATIONS
Dr. Derek CRASTON
Laboratory of Government Chemists (LGC), UK |
| 11:20-12:00 | W5-12 | HEPATIC DISEASES RELATED CHANGES OF BLOOD
RNAs AND ITS POTENTIAL CLINICAL
SIGNIFICANCE
Prof. Yaping TIAN
Medical School of Chinese PLA, China |

Time: Oct 25, 2013 PM (Friday)

Location: Zhejiang Hall, 2nd Floor, Hotel Nikko New Century Beijing

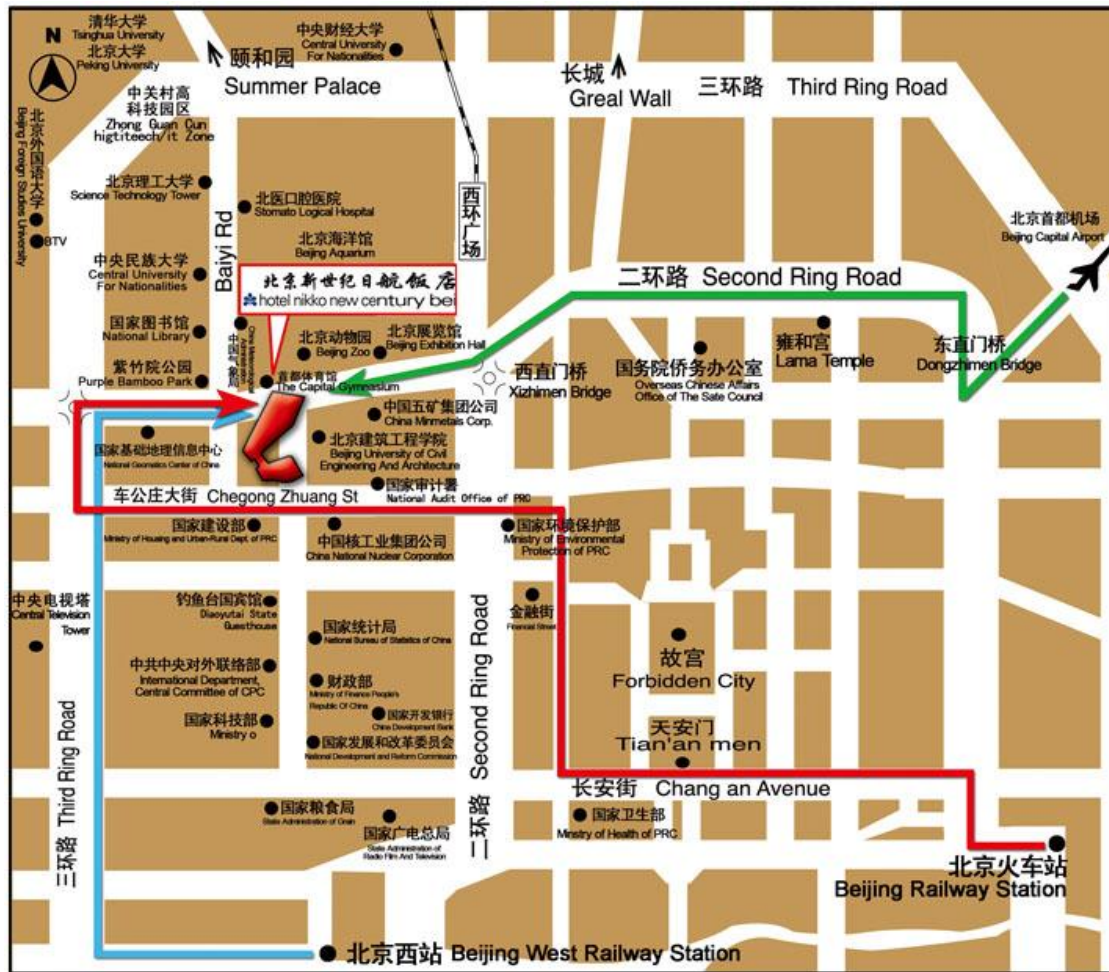
Chairman: Dr. Koichi Chiba

- 13:30-14:05 W5-13 THE EVOLUTION OF ISOTOPE DILUTION MASS SPECTROMETRY FOR THE PROVISION OF REFERENCE VALUES IN ORGANIC ANALYSIS
Dr. Gavin O'CONNOR
Institute for Reference Materials and Measurements (IRMM)
- 14:05-14:40 W5-14 GAS CHROMATOGRAPHY MASS SPECTROMETRY FOR THE METABOLOMICS STUDY
Prof. Fangting DONG
National Center of Biomedical Analysis, Academy of Military Medical Sciences, China
- 14:40-15:15 W5-15 TRACEABILITY ASSURANCE OF RESULTS OF DIAGNOSIS IN CLINICAL MEDICINE
Prof. Hongmei LI
National Institute of Metrology, China
- 15:15-15:45 **Coffee Break**
- 15:45-16:20 W5-16 ESTABLISHMENT OF THE COHERENT METROLOGICAL TRACEABILITY SYSTEM FOR CHEMICAL MEASUREMENT BY COMPREHENSIVE COMPARISON TECHNIQUES
Ms. Xiaohua LU
National Institute of Metrology, China
- 16:20-17:00 W5-17 METROLOGY IN CLINICAL CHEMISTRY – DEVELOPING AN EXTERNAL QUALITY ASSESSMENT (EQA) IN SINGAPORE
Dr. Qinde LIU
Health Sciences Authority (HAS), Singapore

Appendix

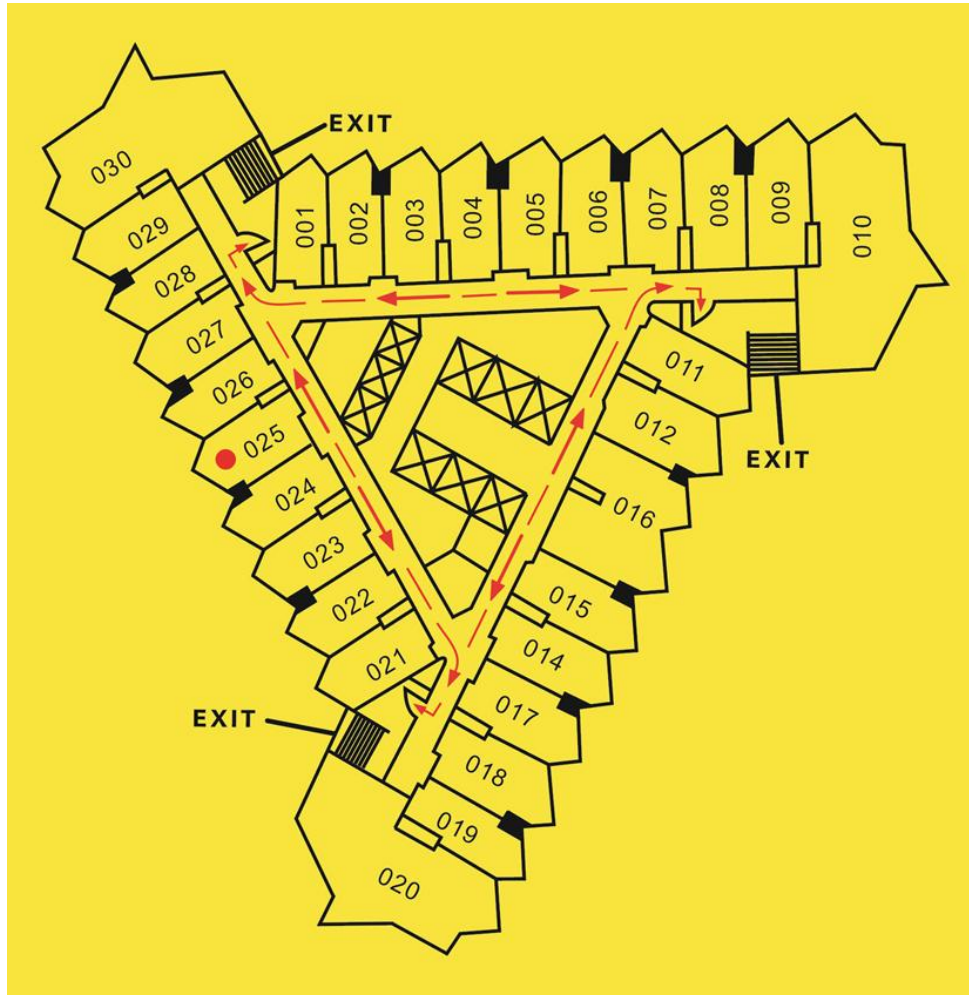
新世纪日航饭店周围交通

The traffic around the Hotel Nikko New Century Beijing



新世纪日航楼层平面图

The Floor Plan of Hotel Nikko New Century Beijing



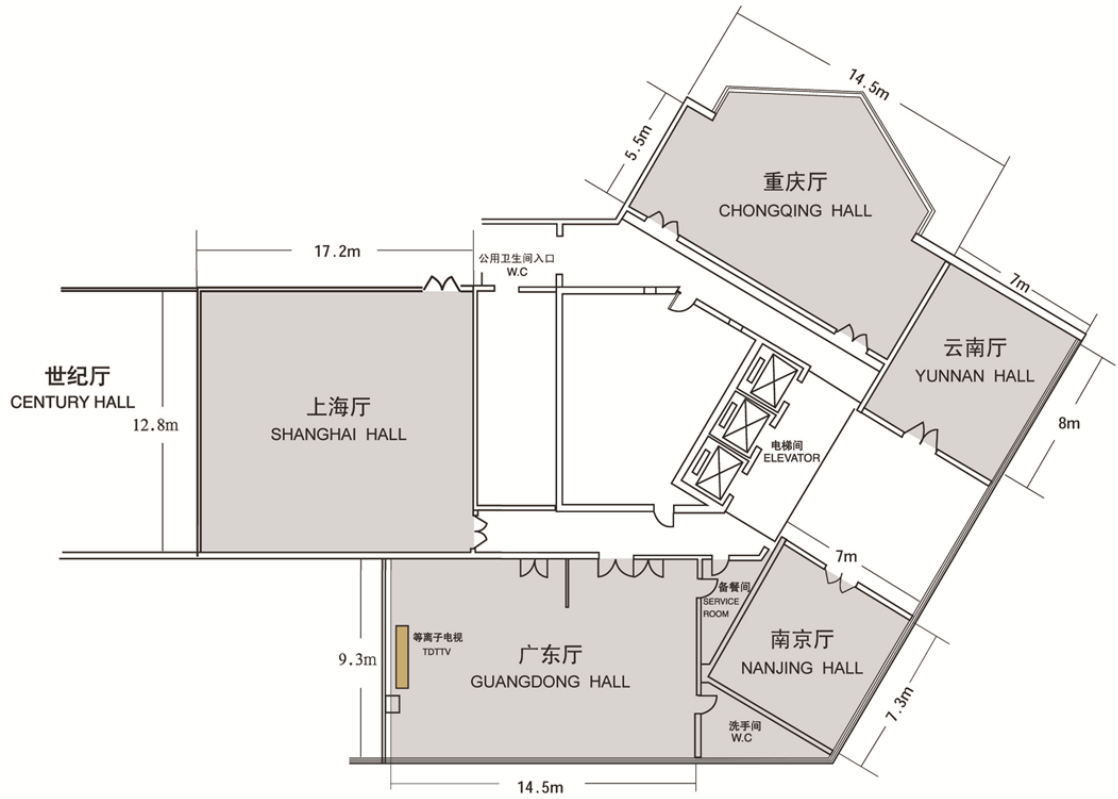
二层各厅平面图

The Floor Plan of 2nd Floor Each Hall

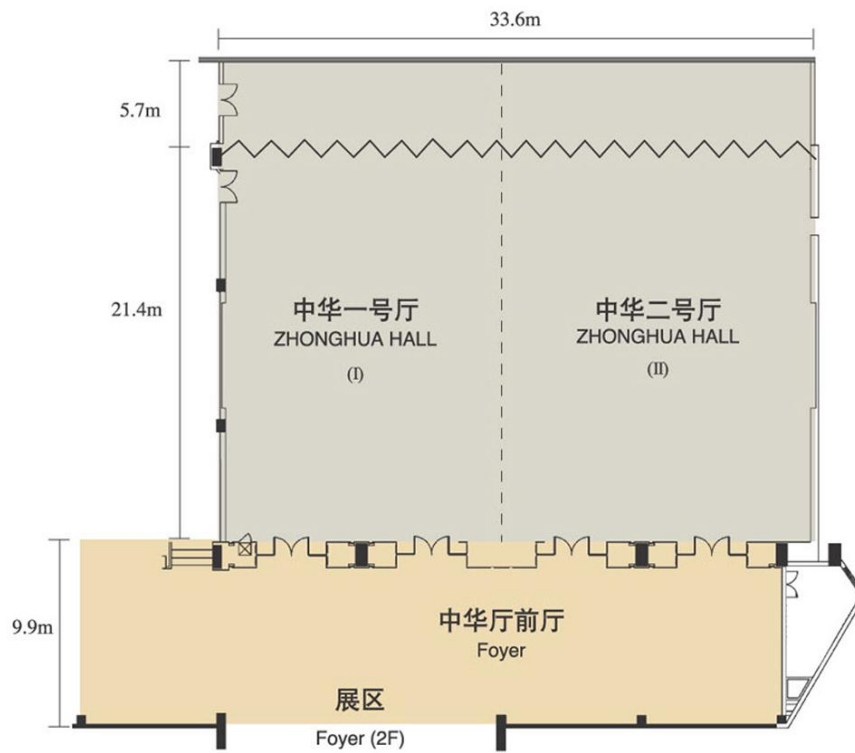


三层各厅平面图

The Floor Plan of 3rd Floor Each Hall



中华厅平面图 The Floor Plan of Zhonghua Hall



世纪厅平面图 The Floor Plan of Century Hall

