



Young Scientist Forum of 5th Asia Oceania Mass Spectrometry Conference

Program

July 15 (Tuesday)

- 9:00-17:00 Registration
15:30-16:30 Peking University Campus Tour
Group Photo (Jing Yuan 静园 in the PKU campus)
16:40-18:00 Self-introduction and Group Discussion (Rm 311, Teaching Bldg 2)

18:30 Shimadzu Dinner (Heyuan 和园主题餐厅)

July 16 (Wednesday) Rm311 Teaching Bldg #2

8:00-8:10 Opening

Travel Award Presentation---Session I

Chair: Dr. Shuichi Shimma and Dr. Guangming Huang

- 8:10-8:25 Metal Ion Effect on the Conformational Change and Fibrillation of hIAPP Probed Using Electrospray Ionization Ion Mobility Mass Spectrometry
Shin Jung C. LEE, Pohang University of Science and Technology
- 8:25-8:40 Hydrogen/Deuterium Exchange MS reveals distinct RNA recognition and activation by RIG-I and MDA5
Jie ZHENG, Nanyang Technological University
- 8:40-8:55 ESI-MS study of formation and selective recognition of G-quadruplex in human her2 oncogene promoter
Dr. Han CHEN, Peking University
- 8:55-9:10 Enhancement of Ion Abundances and Spatial Homogeneity of Carbohydrates in MALDI by Regulating the Substrate Temperature
Dr. Yinhung LAI, Genomics Research Center, Academia Sinica
- 9:10-9:25 Improved precision and accuracy of proteome quantification by MS/MS fragment intensities
Qi WU, Dalian Institute of Chemical Physics, Chinese Academy of Sciences
- 9:25-9:40 ¹⁵³Eu Species-Unspecific Isotope Dilution ICP-MS Based CYP3A4 Quantification and Simultaneous Activity Evaluation with Click Chemistry Mediated Eu-Tagging Strategy
Yong LIANG, Xiamen University
- 9:40-9:55 Indirect spray for mass spectrometry imaging
Li Wan, The Chinese University of Hong Kong

9:55-10:30 Coffee break/Poster Session

Travel Award Presentation----Session II

Chair: Dr. Sangwon Cha and Dr. Yuki Sugiura

- 10:30-10:45 The development of visible MALDI method for microparticle mass measurement
Dr. Caiqiao XIONG, Institute of Chemistry, Chinese Academy of Sciences
- 10:45-11:00 Global protein phosphorylation dynamics during IGF-1 stimulation using five-plex isotope dimethyl labeling strategy
Yue WU, Dalian Institute of Chemical Physics, Chinese Academy of Sciences
- 11:00-11:15 Mass spectrometry imaging for clinical tissue analysis: a new frontier for cancer diagnosis and mechanism research
Shuai GUO, Chinese Academy of Medical Sciences & Peking Union Medical College
- 11:15-11:30 Combined boronate affinity extraction with MALDI-TOF MS for analysis of glycoproteins and glycopeptides
Zijun BIE, Nanjing University
- 11:30-11:45 In-Depth Qualitative and Quantitative Proteomics on the Atrium and Ventricle of Rat Heart
Xuefei YIN, Fudan University
- 11:45-12:00 GdF3 as a promising phosphopeptide affinity probe and dephospho-labelling media: experiments and theoretically explain
Liping LI, Peking University

12:00-13:30 Lunch

Travel Award Presentation----Session III

Chair: Dr. Yu Bai and Dr. William (Alex) Donald

- 13:30-13:45 Identification of emerging dialkyldimethylammonium contaminants by liquid chromatography high resolution mass spectrometry
Dr. Ting RUAN, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
- 13:45-14:00 Metabolism and Drug-drug Interaction Study of LLDT-8 in Rats by UHPLC-Q/TOF MS and UHPLC-MS/MS
Jiangbo DU, Shanghai Institute of Materia Medica, Chinese Academy of Sciences
- 14:00-14:15 Analysis of disaccharide isomers and other labile compounds by DART MS
Dr. Hongmei YANG, Jilin Ginseng Academy, Changchun University of Chinese Medicine
- 14:15-14:30 Simultaneous quantitation determination of seven bioactive components in Guizhi Fuling capsule by microwave-assisted extraction combined with ultra-high performance liquid chromatography-tandem mass spectrometry
Dr. Longshan ZHAO, School of Pharmacy, Shenyang Pharmaceutical University

14:30-14:45 The role of a native biological matrix in preserving in vivo enzymatic activity of alliinase revealed by internal extractive electrospray ionization mass spectrometry of garlic tissues

Hua ZHANG, East China Institute of Technology

14:45-15:00 HCC Biomarkers Discovery Based on N-glycomics

Dr. Cai TIE, Peking Union Medical College & Chinese Academy of Medical Sciences

15:00-15:30 Coffee break/Poster Session

Travel Award Presentation----Session IV

Chair: Dr. Berwyck Poad and Dr. Kanako Sekimoto

15:30-15:45 Characterization of Oxygen-containing Compounds in Pyrolysis Bio-Oils by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry

Dr. Yehua HAN, China University of Petroleum

15:45-16:00 Gas-phase synthesis and reactivity of copper-stabilized benzyne complexes using ESI-MS

Dr. Yunfeng CHAI, Zhejiang University

16:00-16:15 Application of Atmospheric Pressure Photon-initiated Hydrogen/Deuterium Exchange for Speciation of Nitrogen-containing Compounds in Petroleum by Fourier Transform Ion Cyclotron Resonance Mass spectrometry

Yunju CHO, Department of Chemistry, Kyungpook National University

16:15-16:30 Metabolomics study of allopurinol for hyperuricemia in rats using UPLC-ESI-QTOF/MS coupled with pattern recognition approach

Chen XU, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

16:30-16:45 Characterization of engineered nanoparticles by asymmetrical flow field-flow fractionation (AF4) with detection by single particle inductively coupled plasma mass spectrometry (SP-ICP-MS)

Rabiab SUWANPETCH, Mahidol University

16:45-17:00 A Gas Phase Approach for Direct Assignment of the Absolute Stereochemistry via Parallel Kinetic Resolution

Lin WANG, Zhejiang University