

HKMSMS Symposium 2019 and HKMSMS 21st AGM

22 June 2019 (Saturday)

Y302, 3/F, Lee Shau Kee Building (Block Y)

The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

Programme:

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| 09:10 – 09:45 | Registration at Y3 foyer, Block Y, The Hong Kong Polytechnic University |
| <u>Morning Session 1</u> | |
| Chair: Dr. Zhongping YAO , The Hong Kong Polytechnic University | |
| 09:45 – 09:50 | Opening Remarks |
| 09:50 – 10:35 | <p><u>Plenary Lecture</u></p> <p>Studies of Arsenic Metabolism and Protein Binding using Mass Spectrometry</p> <p><i>Prof. Chris LE, Department of Laboratory Medicine and Pathology, University of Alberta, Canada</i></p> |
| 10:35 – 11:00 | Coffee Break |
| <u>Morning Session 2</u> | |
| Chair: Dr. Andy Chi Kit SIU , The City University of Hong Kong | |
| 11:00 – 11:20 | <p><u>Invited Lecture</u></p> <p>HPLC-MS Identification of Isomeric Halogenated Peptides in Water</p> <p><i>Prof. Xing-Fang LI, Department of Laboratory Medicine and Pathology, University of Alberta, Canada</i></p> |
| 11:20 – 11:40 | <p><u>Invited Lecture</u></p> <p>Proteomic Profiling of Immunoglobulins for Disease Biomarkers</p> <p><i>Dr. Liang ZHANG, Department of Biomedical Sciences, City University of Hong Kong</i></p> |

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| <p>11:40 – 11:55</p> | <p><u>HKSMS Conference Awards – Oral Presentation</u></p> <p>Genomic and Proteomic Study of Evolved Escherichia coli Populations from Cyclic Antibiotic Treatment Exhibiting High Persistence Phenotype</p> <p><i>Mr. Jordy Evan SULAIMAN, Department of Chemical and Biological Engineering, The Hong Kong University of Science & Technology</i></p> |
| <p>11:55 – 12:10</p> | <p><u>Sponsored by Bruker Scientific Instrument HK Co. Ltd. / Grandtech Scientific Hong Kong Ltd.</u></p> <p>scimaX – New Generation of Magnetic Resonance Mass Spectrometry to Maximize Scientific Research</p> <p><i>Dr. Yongwei WANG, China Marketing Manager for MRMS/Imaging, Bruker Daltonics</i></p> |
| <p>12:10 – 12:25</p> | <p><u>HKSMS Member – Oral Presentation</u></p> <p>Method Development and Validation of Electrospray Ultra Performance Liquid Chromatography Time-of-Flight Mass Spectrometry (ESI-UPLC-TOF-MS) for Transferrin Glycoforms</p> <p><i>Miss Ue Ching FONG, Department of Chemical Pathology, Prince of Wales Hospital</i></p> |
| <p>12:30 – 14:00</p> | <p>Lunch (Staff Club, 5/F, Communal Building) and Poster Session (Y3 Foyer)</p> |
| <p><u>Afternoon Session 1</u></p> <p>Chair: Dr. Simon Wan CHAN, The Hong Kong University of Science & Technology</p> | |
| <p>14:00 – 14:20</p> | <p><u>Invited Lecture</u></p> <p>Branched Chain Amino Acids in Type 2 Diabetes</p> <p><i>Dr. Kenneth King Yip CHENG, Department of Health Technology and Informatics, The Hong Kong Polytechnic University</i></p> |
| <p>14:20 – 14:35</p> | <p><u>HKSMS Member – Oral Presentation</u></p> <p>Early Pregnancy Exposure to Benzotriazoles and Benzothiazoles in Relation to Gestational Diabetes Mellitus: A Prospective Cohort Study</p> <p><i>Ms. Yanqiu ZHOU, Department of Chemistry, Hong Kong Baptist University</i></p> |

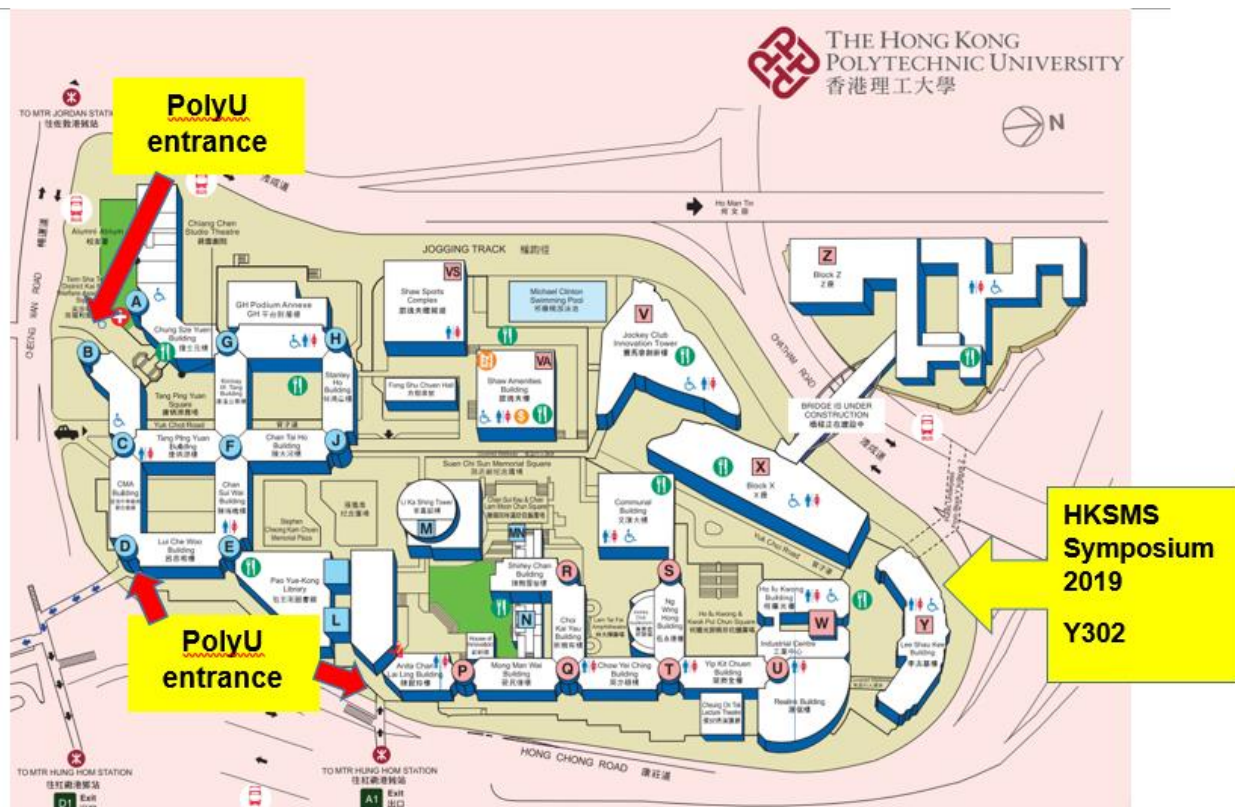
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| 14:35 – 14:50 pm | <p><u>Sponsored by Comfort Technology (Asia) Ltd.</u></p> <p>Determination of Vitamin D in Oily Pharmaceuticals using a LCMS System with an On-line Clean-up by Supercritical Fluid Chromatography</p> <p><i>Dr. Naoki HAMADA, General Manager, Shimadzu (China) Corporation Limited</i></p> |
| 14:50 – 15:05 | <p><u>HKSMS Conference Awards – Oral Presentation</u></p> <p>Validation Studies of Phosphopeptide Enrichment Procedures using TiO₂-attached Membrane Funnel-based Spray Ionization for Imaging Mass Spectrometry</p> <p><i>Ms. Yik Ling HUNG, Department of Chemistry, The Chinese University of Hong Kong</i></p> |
| 15:05 – 15:20 | <p><u>Sponsored by SCIEX</u></p> <p>What's news in SCIEX</p> <p><i>Mr. Marvin TANG, Field Application and Market Development Specialist, SCIEX</i></p> |
| 15:20 – 15:50 pm | Coffee Break |
| <p><u>Afternoon Session 2</u></p> <p>Chair: <i>Dr. Ivan CHU</i>, The University of Hong Kong</p> | |
| 15:50 – 16:10 | <p><u>Invited Lecture</u></p> <p>Direct Breath Analysis by Secondary Electrospray Ionization High Resolution Mass Spectrometry</p> <p><i>Prof. Xue LI, Institute of Mass Spectrometry and Atmospheric Environment, Jinan University</i></p> |
| 16:10 – 16:30 | <p><u>Invited Lecture</u></p> <p>Metabolic Characterization of Esophageal Squamous Cell Carcinoma</p> <p><i>Dr. Yanjun HONG, Department of Chemistry, Hong Kong Baptist University</i></p> |
| 16:30 – 16:45 | <p><u>HKSMS Member – Oral Presentation</u></p> <p>Open Search Against Spectral Archive: An Alternative Approach to MS² Spectra Identification</p> <p><i>Mr. Long WU, Department of Chemical and Biological Engineering, The Hong Kong University of Science & Technology</i></p> |

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| 16:45 – 17:00 | <p><u>Sponsored by Thermofisher Scientific (HK) Ltd.</u></p> <p>High Coverage of Metabolomics method on LC-HRMS and its application</p> <p><i>Mr. Ziquan FAN, Thermofisher Scientific (HK) Ltd.</i></p> |
| 17:00– 17:15 | <p><u>HKSMS Member – Oral Presentation</u></p> <p>Chronic Exposure to Tetrabromodiphenyl Ether (BDE-47) Aggravates Hepatic Steatosis and Liver Fibrosis in Diet-induced Obese Mice</p> <p><i>Ms. Chunxue YANG, Department of Chemistry, The Hong Kong Baptist University</i></p> |
| <p><u>The 21st Annual General Meeting</u></p> <p>Chair: Dr. Zhongping YAO, The Hong Kong Polytechnic University</p> | |
| 17:25 – 17:45 | <p>21st AGM at Y302, 3/F, Block Y, The Hong Kong Polytechnic University</p> |
| <p>Depart for AGM Dinner at Regal Court in Regal Kowloon Hotel</p> | |
| <p>AGM Dinner at Regal Court in Regal Kowloon Hotel</p> | |
| 18:30 – 19:00 | <p><u>Dinner Speech</u></p> <p>Aging and Chinese Herbal Medicine</p> <p><i>Prof. Robert Ko, The Division of Life Science, The Hong Kong University of Science and Technology</i></p> |
| 19:00 | <p>Dinner with Lucky Draw</p> |

HKSMS Symposium 2019 – Poster Presentation

| # | Presenter | Institution | Poster Title |
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| AP1 | CHAN Chi Kong | HKUST | Unmasking the Role of Protein Modification in the Observed Toxicity of Aristolochic Acid |
| AP2 | KWAN Kin Leung | HKUST | Mass-spectrometry-based Omics Technology to Reveal the Effect of Herbal Decoction in Cultured Osteoblasts |
| AP3 | SU Xiuli | HKBU | Characterization of Linkage between Biotin and Rheumatoid Arthritis |
| P1 | CHAN Chi Kong | HKUST | Albumin Adducts of Aristolochic Acids: Potential Biomarkers of Exposure to Aristolochic Acids |
| P2 | CHEN Xing | Jinan University | Investigation on the Real Time Monitoring of Venlafaxine in Mice by Direct Breath Analysis |
| P3 | Ephrem Gizachew DEMISSIE | CityU | Reactivity of Hydrated Monovalent Cobalt (I) Toward Nitrous Oxide in the Gas Phase |
| P4 | Madej DOMINIK | HKUST | Common Decoy Distribution as a Tool to Standardize and Simplify Statistical Analysis in Shotgun Proteomics |
| P5 | KWAN Kin Leung | HKUST | Mass-spectrometry-based Omics to Reveal the Effect of Natural Product Decoction on Cultured Osteoblast |
| P6 | LI Jiufeng | HKBU | Effects of Trimester-specific Exposure to Di(2-ethylhexyl) Phthalate (DEHP) on Ultrasound Measures of Fetal Growth, Birth Size, and Early-childhood Growth: A Longitudinal Prospective Cohort Study |
| P7 | LI Suying | PolyU | Quantitative Analysis of Blended Oils with Multiple Components |
| P8 | SHAO Xiaojian | HKBU | Application of MALDI MS Imaging for Rapid Poly-bacterial Antibiotic Susceptibility Test |
| P9 | SONG Yuanyuan | HKBU | Effects of Acute Ambient PM _{2.5} Exposure on Heart in C57BL/6J Diet-induced Obesity Mouse Model |
| P10 | TANG WAI KIT | CityU | Dissociation of N-terminal C α -C β Bond Induced by Electron Transfer Between N-terminus and Tyrosine Side Chain in Molecular Peptide Radical Cation |
| P11 | WANG Jianying | PolyU | Lasso-based Prediction of Collision Cross Section Values for Differentiation of Lipid Isomers |
| P12 | WANG Xiaoxiao | HKBU | DNA/RNA Adducts Formation from Bisphenol F 3,4-quinone Metabolite in Vitro |

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| P13 | WONG Tin Yan | HKUST | Label-Free Quantitative Proteomics Analysis Reveals Anti-Cancer Properties Triggered by Silver Nanoparticles in Human Hepatocellular Cells |
| P14 | WONG Tsz Fung | PolyU | Conformational Dynamics of β -Lactamase Mutants as Revealed by Hydrogen/Deuterium Exchange Mass Spectrometry |
| P15 | WU Lin | Jinan University | Investigating Native Lysozyme in Viscous Raw Hen Egg White Binding to Ligands in Electrospray Droplets Upon Short Mixing Time Using Theta-Tip |
| P16 | WU Qian | PolyU | Authentication of Wine Samples by Direct Analysis in Real Time Mass Spectrometry |
| P17 | WU Ri | CUHK | Rapid Differentiation of Asian and American Ginseng by Differential Ion Mobility Spectrometry-Tandem Mass Spectrometry Using Stepwise Modulation of Gas Modifier Concentration |
| P18 | XIE Peisi | HKBU | Prenatal Exposure to Ambient Fine Particulate Matter Induces Dysregulations of Lipid Metabolism in Adipose Tissue in Male Offspring |
| P19 | YANG Zhiyi | HKBU | Combined Metabolomic and Lipidomic Profiling of Pleural Effusion Reveals Aberrant Metabolism in Human Lung Cancer |
| P20 | YAO Yanan | Jinan University | High-frequency Vibrating Tip Spray Ionization Mass Spectrometry for Direct Sample Analysis |
| P21 | YIN Haidi | PolyU | The Analysis of Alpha-1-Antitrypsin Glycosylation in HCC Patient Sera |
| P22 | ZHAO Yao | UST | Quantification of N-formyllysine in Vivo Induced by Oxidative Stress by LC-MS/MS with Stable Isotope Dilution Method |
| P23 | ZHOU Yanqiu | HKBU | Gestational Exposure to Benzotriazoles and Benzothiazoles in Relation to Birth Weight: A Repeated Measures Study |



Acknowledgments

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