

MS
ACL

The Association for

Mass Spectrometry &

Advances in the Clinical Lab

@ iSLS13

Time	MONDAY FEBRUARY 24		TUESDAY FEBRUARY 25	WEDNESDAY FEBRUARY 26	THURSDAY FEBRUARY 27	FRIDAY FEBRUARY 28	
Topic	MSACL Asia Workshop			Exposome in health (chaired by Sartaj Mir)	Clinical Lipidomics/Metabolomics I (chaired by Xue Li Guan)	Metabolomics (chaired by Yi Yun Pang)	
9:00 - 9:30	Dramatic Change Offers Many Opportunities		Daryl Hee Challenges & Opportunities in Clinical Mass Spec Labs	Opening ceremony	Peter Meikle - Defining the role of lipid metabolism in bridging diet and metabolic health	Zheng-Jiang Zhu - Mass spectrometry-based untargeted metabolomics and single-cell metabolomics	
9:30-10:00	Track 1 LCMS 101 Isabel Tsai and Chia-Ni Lin	Track 2 Metabolomics 101 Timothy J. Garrett		Xu Guowang - Study on the effect of exogenous chemical residues in serum on chronic diseases at the metabolic level	Li Chen - Longitudinal Landscape of Maternal Plasma Apolipoproteins from Preconception to Postpartum and Their Associations with Maternal Metabolic Risk Factors and Offspring Birth Outcomes	Matej Oresic - Chemical exposures and microbiome derived bile acids during early life: insights into the progression to islet autoimmunity	
10:00-10:30				Brad Clarke - PFAS Analytical Challenges: Navigating Complexities in Biological and Environmental Samples	Nicola Gray - Accelerating the Development of Targeted Metabolite Phenotyping Assays for Precision Population Health	Sastia Prama Putri - Metabolomics application for quality improvement of important agricultural and food products	
Topic				Exposome analysis (chaired by Brad Clarke)	Clinical Lipidomics/Metabolomics II (chaired by Jianhong Ching)	Standardization (chaired by Michaela Chocholouskova)	
10:30-11:00				Eric Chan - Is it time to extend physiologically-based pharmacokinetic (PBPK) modeling and simulation to the investigation of drug–exposome interactions?	Robert Gurke - Clinical Lipidomics in Immune-Mediated Diseases: Challenges and Perspectives	Elie Fux - Bridging the Gap: Standardizing Metabolomics for Routine Clinical Use	
11:00-11:30				Sartaj Mir - Quantification of PFAS in human samples for population-scale studies	Yu Guoqi - Longitudinal changes of plasma lipidomics profile and pregnancy health: findings from a multiracial cohort	Ondřej Peterka - CLIG Interlaboratory Study on the Harmonization of Lipid Concentrations in Human Plasma	
11:30-12:00		Katharina Habler Practical example of validation and verification of LCMS methods: the TDM showcase	Jeremy P. Koelmel - FluoroMatch: A Comprehensive Solution for Non-Targeted PFAS	Charna Dibner - Longitudinal multi-omics in postpartum women identify a persistent signature of gestational diabetes	Michael Vogeser - Standardized description of LC-MS/MS measurement procedures		
12:00-1:00	Lunch		Lunch	Lunch (12pm-1pm)	Lunch (12pm-1pm)	Lunch (12pm-1.30pm)	
1:00-1:30	Track 1 LCMS 101 Isabel Tsai and Chia-Ni Lin	Track 2 Metabolomics 101 Timothy J. Garrett	Translational research & biomarker discovery using metabolomics: approaches & pitfalls Christiane Auray-Blais	Platinum Sponsor talk Agilent Technologies; David Beale - Forever chemicals don't make hero mutant ninja turtles: Elevated PFAS levels linked to unusual scute development in newly emerged freshwater turtle hatchlings (Emydura macquarii macquarii) and a reduction in turtle populations	Platinum Sponsor talk Waters; Lim Yanting - Discovery lipidomics with the Xevo MRT and integrated informatics for confident lipid characterization and quantification		
1:30 - 1:45				Short talk award: Sarah Hancock (Targeting desaturases to improve gemcitabine-based chemotherapy in pancreatic ductal adenocarcinoma)	Travel award: Dana Hicks (Organ-Specific Lipid and Lipoprotein Metabolism in Cardiovascular-Kidney-Metabolic Syndrome)		Travel Award: Minhui Zhu (Development of a Quantitative MRM assay from Skin Swabs Rich in Sebum to Diagnose Parkinson's Disease)
Topic					Nutrition science (chaired by Sarah Hancock)	Lipidomics and Biology II (chaired by Federico Torta)	MS technologies (chaired by Amaury Cazenave Gassiot)
1:45-2:15					Lightning talk session for posters (selected presenters will be notified)	Ondřej Kuda - Deciphering Diverse Obesogenic Strategies of TZDs through Complex Lipid Metabolic Flux Analysis	Alaa Othman - High throughput RPLC-MS/MS lipidomics, challenges and opportunities
2:15-2:45					Mei Hui Liu - Lifestyle factors and blood lipids: Results from dietary intervention studies on Singaporean men	Christian Metallo - Tracing and modeling compound lipid homeostasis to understand disease	Takeshi Bamba - Advancements in Lipidomics Platform Based on Supercritical Fluid Chromatography/Mass Spectrometry
2:45-3:15			Jun Kunisawa - Immunoregulatory Functions of Dietary and Microbial Lipid Metabolites and Their Application to Precision Nutrition	Stephen Blanksby - Isomeric discrimination by collision-/ozone-induced dissociation reveals the lipid complexity sn-onymous with triacylglycerols	Sven Heiles - Visualizing cellular lipid distributions by AP-MALDI mass spectrometry imaging		
3:15 - 3:45	Wei Guo - The clinical use of LC-MS in China		Platinum Sponsor talk Roche; Elie Fux Improving Accuracy in Clinical MS Laboratories: The Role of Standardization and Traceability in Ionify Assays for the Cobas Mass Spec solution	Tea break (30min)	Tea break (30min)	Tea break (30min)	
Topic	Moderated by Michael Chen			Lipidomics and Biology I (chaired by Bo Burla)	Precision medicine / CVMD	Data processing (chaired by Hyung Won Choi)	
3:45-4:15	Huafen Liu - The Challenges and Opportunities of Transitioning LC-MSMS from Research Scientific Application to In Vitro Diagnostics		Michael Vogeser - The Roche MS solution - key technological innovations and results of a pilot study	Albina Nowak - Fabry disease – the most frequent monogenetic sphingolipidosis	SysMeC launch & Cardiometabolic Research Landscape in Singapore Patrick Tan (Senior Vice Dean of Research, Duke-NUS), Roger Foo (Vice Dean of Research, NUSmed), Yibin Wang (CVMD, Duke-NUS), Derek Hausenloy & Mark Chan (CADENCE)	Laura Goracci - Tracing lipid metabolism in Lipostar 2: from stable isotopes to w-alkyne-containing species	
4:15-4:35	Zhouyang Kang - CalibradX: The Evolution of IVD Kits for Mass Spec - from Development to Routine Use		Meet the Experts: 'Ask us Anything'	Maria Fuller - Complex glycosphingolipids in inherited neurodegenerative disease		Nils Hoffmann - Enabling FAIR Computational Comparative Lipidomics with LipidCompass	
4:35-4:45							Dominik Kopczynski - Status and Perspectives of the Lipidomics Reporting Checklist
4:45-4:55	Ziqing Kong - CalibradX: From Metabolomics to Clinical Applications - Insights and Practices from an Industry Perspective			Christiane Auray-Blais - Glycosphingolipids and rare diseases			Closing ceremony and awards (Darlene Solomon FeMS and poster award)
4:55-5:15							
5:15-5:45	Networking	Networking	Networking	Networking & Lab Tour of NUS-Agilent Hub at Cels (5:15-6:30pm)			
5:45-6:00							
6:00-6:30							
6:30-9:00			Speakers Reception (by invitation only)		Conference Dinner (6:30 - 9:00pm) (by registration)	Note: This programme is susceptible to changed without prior notice	