

BUENOS AIRES	SAN FRANCISCO	NEW YORK	ZURICH	BANGALORE	MELBOURNE	SINGAPORE (UTC+8)	Day 1 - Tuesday March 8		
							Day 1 ON-LINE parallel sessions:		
							Day 1 - Session 1	Day 1 - Session 2	Day 1 - Session 3
20:00-22:00 (-1day)	15:00-17:00 (-1day)	18:00-20:00 (-1day)	00:00-02:00	04:30-06:30	10:00-12:00	<p>07:00-07:20 Laila Abdullah Altered L-carnitine and acylcarnitine profiles in APOE ε₄ carriers with Alzheimer's disease reflect impaired fatty acid oxidation.</p> <p>07:20-07:40 Xianlin Han Early Myelin Lipid Losses Occur in Mouse Models of Diabetes: Functional Lipidomics Sheds Light on Diabetic Neuropathy</p> <p>07:40-08:00 Maria Eugenia Monge (chair) Evaluating a lipid panel for clear cell renal cell carcinoma prognosis</p> <p>08:00-08:20 Daisuke Saigusa Evaluation for quantified values of lipidomic profiling in a large-scale cohort</p> <p>08:20-08:40 Kim Ekroos Update on Guidelines for Lipidomics Analysis and Reporting</p> <p>08:40-09:00 -</p>	<p>Jason Kovacic New insights on lipid regulation in cardiovascular disease</p> <p>Peter Meikle (chair) The role of lipid metabolism in APOE ε₂ resilience for Alzheimer's disease</p> <p>Scott Summers Ceramides: The New Cholesterol</p> <p>Melanie White <i>Multi-omics of a pre-clinical model of diabetic cardiomyopathy reveals increased fatty acid supply impacts mitochondrial metabolic selectivity</i></p> <p>Thusitha Rupasinghe Exploring a high scan rate Q-TOF utilizing CID and EAD fragmentation for global lipid profiling of human and rat plasma</p> <p>-</p>	<p>Lauren Cowart Novel Functions of SPTLC₃ in regulation of cellular energy production</p> <p>Ginger Milne (chair) Prostaglandin Urinary Metabolites and Racial Disparities in Prostate Cancer</p> <p>Sungwhan F. Oh Host immunomodulatory lipids created by symbionts from dietary amino acids</p> <p>Hong Yong Peh Resolvin D₂ Regulates Type-II Responses in Allergic Lung Inflammation</p> <p>Steffany Bennett Lipophenomics of dementia: Sex-specific metabolic determinants of risk and resiliency</p> <p>-</p>	
22:00(-1day) -01:30	17:00-20:30 (-1day)	20:00-23:30 (-1day)	02:00-05:30	06:30-10:00	12:00-15:30	<p>Day 1 ON-SITE single session:*</p> <p>09:00-09:20 Yasunori Saheki Control of PI(4,5)P₂ homeostasis via lipid transport regulated by PDZD-8 and TEX-2</p> <p>09:20-09:40 David Silver Lipid transport in the control of oligodendrocyte progenitor cell fate</p> <p>09:40-10:00 Shuo-Chien Ling TDP-43 mediates SREBF₂-regulated gene expression required for oligodendrocyte myelination</p> <p>10:00-10:20 Jacques Behmoaras Immunolipidomics reveals a globoside network associated with the resolution of pro-inflammatory response in human macrophages</p> <p>10:20-10:40 Jaya Selvalatchmanan Variability of lipids in human milk</p> <p>10:40-11:10 Break</p> <p>11:10-11:30 Haojie Yu GPR146: an emerging orphan receptor regulating liver lipid metabolism</p> <p>11:30-11:50 Sartaj Mir (chair) Lipidomic perspectives of maternal adaptations to pregnancy</p> <p>11:50-12:10 Long Nguyen Biomolecular characterization of a S1P transporter Mfsd2b in erythrocytes using mass spectrometry and cell-based-assays</p> <p>12:10-12:30 Ralph Martins HDL binding proteins are altered in Alzheimer's Disease and its components impact on brain volumetric parameters</p>			
02:00-03:00	21:00 -22:00 (-1day)	00:00-01:00	06:00-07:00	10:30-11:30	16:00-17:00	13:00-14:00	<p>Platinum Sponsor Lecture: Agilent Technologies</p> <p>Gaëlle Bridon Agilent Lipidomics Solutions Michelle Hill Rapid assessment of lipidomics sample quality and quantity using attenuated total reflectance Fourier-transform infrared spectroscopy</p>		
03:00-06:00	22:00 (-1day) -01:00	01:00-04:00	07:00-10:00	11:30-14:30	17:00-20:00	14:00-17:00	<p>WORKSHOP: 'Pre-analytical considerations' / EXHIBITIONS / POSTERS</p>		
BUENOS AIRES	SAN FRANCISCO	NEW YORK	ZURICH	BANGALORE	MELBOURNE	SINGAPORE (UTC+8)	Day 1 ON-LINE parallel sessions:		
							Day 1 - Session 4	Day 1 - Session 5	Day 1 - Session 6
08:00-10:00	03:00-05:00	06:00-08:00	12:00-14:00	16:30-18:30	22:00-00:00	<p>19:00-19:20 Silke Matysik Short chain fatty acids and bile acids in human faeces are associated with the intestinal cholesterol conversion status</p> <p>19:20-19:40 Albert-László Barabási The Dark Matter of Nutrition: From the Foodome to Network Medicine</p> <p>19:40-20:00 Michele Solimena (chair) Pancreatic surgical samples from metabolically phenotyped living donors as a novel platform for the study of human islets</p> <p>20:00-20:20 Siddhesh Kamat Mapping sphingolipid pathways during phagocytosis</p> <p>20:20-20:40 Huiyong Yin Lipid peroxidation products are associated with CVD</p> <p>20:40-21:00 Jesmond Dalli Structure elucidation and biological evaluations of n-3 docosapentaenoic acid-derived 13-series Resolvins</p>	<p>Justine Bertrand-Michel (chair) Discovery and quantification of lipoamino acids in bacteria</p> <p>Beate Fuchs Lipidomic analysis of lamb and beef muscle tissues: possible health-promoting effects of PUFA, odd chain and ether lipids</p> <p>Sneha Muralidharan A reference map of sphingolipids in murine tissues</p> <p>Guanghou Shui Atheroprotective lipid features in hyperglycemic GCK-MODY</p> <p>Simon Hammann Lipid profiling for assesment of food quality and authenticity</p> <p>-</p>	<p>Louis Tong Tear Lipid Mediators and Glaucoma Surgery</p> <p>Snezhana Oliferenko Exploiting divergent biology of two fission yeasts to understand membrane function</p> <p>Katrin Watschinger/Ernst Werner First insights into the sequence-function relationships of plasmanylethanolamine desaturase</p> <p>Maria Fedorova (chair) Lipidomics and epilipidomics signatures of human obesity</p> <p>Bernard Thorens Plasma lipids as biomarkers of diabetes susceptibility and beta-cell function</p> <p>-</p>	

*On site lectures will be streamed online and available for on-demand viewing after the event.

BUENOS AIRES	SAN FRANCISCO	NEW YORK	ZURICH	BANGALORE	MELBOURNE	SINGAPORE (UTC+8)	Day 2 - Wednesday March 9		
							Day 2 ON-LINE parallel sessions:		
							Day 2 - Session 1	Day 2 - Session 2	Day 2 - Session 3
20:00-22:00 (-1day)	15:00-17:00 (-1day)	18:00-20:00 (-1day)	00:00-02:00	04:30-06:30	10:00-12:00	07:00-07:20	Steve Watkins The Periodic Table of Food Initiative (PTFI)	Myeong Hee Moon Optimization of saliva lipid analysis by nUHPLC-ESI-MS/MS	Yuan Qiao (chair) A novel chemoenzymatic method to detect, isolate and functionalize natural Lipid II
						07:20-07:40	Jetty Chung-Yung Lee (chair) Assessment of new isoprostanoids derived from GLA, DGLA and SDA in Acropora corals	Bao-Liang Song Calcium promotes autocholesterylation of Smoothened	Stacey Reinke Disease or Medication? Delineating disease- and treatment-associated metabolic profiles in severe asthma
						07:40-08:00	Kun Qu Maturation of the matrix and viral membrane of HIV-1	Oliver Watkins (chair) Sex-dependent regulation of placental palmitic acid and oleic acid metabolism by maternal glycemia and associations with birthweight	Robert Yang Phospholipids, lipid droplets and adipogenesis
						08:00-08:20	Wang Yan Human Genetics and Dyslipidemia: From Non-synonymous Variants to Non-coding Variants	Angela M. Zivkovic A single bout of 36h fasting alters HDL composition, structure, and function	Wen Shan Yew Scalable workflow for green manufacturing: discovery of bacterial lipases for biodiesel production
						08:20-08:40	Yuru Deng Biological role and potential application of plasmalogen	Sukrit Sirikwanpong Application of mass spectrometry for investigating the anti-lipid glycation properties of Nigella Sativa seed extract	Jessica Lasky-Su Metabolomic profiling identifies and recapitulates a severe COVID-19 cluster
						08:40-09:00	-	Multi-omic Analysis to Characterize Metabolic Adaptation of the E. coli Lipidome in Response to Environmental Stress	-
22:00(-1day) -01:30	17:00-20:30 (-1day)	20:00-23:30 (-1day)	02:00-05:30	06:30-10:00	12:00-15:30	Day 2 ON-SITE single session:*			
						09:00-09:20	Jung Eun Kim Impact of dietary fats on the bioavailability of carotenoids		
						09:20-09:40	Barry Halliwell Neuroprotective agents: new developments		
						09:40-10:00	Guodong Zhang Lipidomic profiling identifies novel therapeutic targets of gut diseases		
						10:00-10:20	Hyungwon Choi (chair) Network signatures of circulating markers and echocardiogram parameters for adverse outcomes after primary acute myocardial infarction		
						10:20-10:40	Marité Cárdenas Gómez Lipoprotein and lipid nanoparticle composition and function in the presence of serum components and model membranes		
						10:40-11:10	Break		
						11:10-11:30	Chit Fang Cheok Harnessing loopholes in the cancer metabolic program		
						11:30-11:50	Wai Leong Tam Metabolic alterations in cancer		
						11:50-12:10	Thomas Dawson Lipidomic analyses reveal a role for Malassezia oxylipins in human skin health		
12:10-12:30	Joshua Gooley Effects of short sleep on glucose tolerance in adolescents and young adults								
03:00-06:00	22:00 (-1day) -01:00	01:00-04:00	07:00-10:00	11:30-14:30	17:00-20:00	14:00-17:00	WORKSHOP: 'Lipidomics Data Analysis' / EXHIBITIONS / POSTERS		
06:00-07:00	01:00-02:00	05:00-06:00	10:00-11:00	14:30-15:30	20:00-21:00	17:00-18:00	<p>Platinum Sponsor Lecture: ThermoFisher Scientific</p> <p>Evelyn Rampler Glycolipids at the forefront using liquid chromatography, high-resolution mass spectrometry, and multistage fragmentation</p> <p>Daniel Hermanson Comprehensive lipidomic profiling solutions</p>		
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							Day 2 - Session 4	Day 2 - Session 5	Day 2 - Session 6
							08:00-10:00	03:00-05:00	06:00-08:00
19:20-19:40	Valerie O'Donnell (chair) Delineation of metabolic pathways for removing oxylipins during inflammation	Harald Köfeler (chair) Quality Checks in Lipidomics	Tuulia Hyötyläinen Modulation of lipid metabolism by environmental exposures						
19:40-20:00	Martin Giera Metabolomics and Lipidomics Technologies for Target Discovery and Mechanism Deconvolution	Hiroshi Kondoh Whole blood metabolome for frailty and sarcopenia	Jean Paul Kovalik Metabolomics Goes Carbon Neutral						
20:00-20:20	Cristina Legido-Quigley Towards lipidomics biomarkers in the Steno hospital	Sara Tortorella Adding A New Dimension To Spatial Lipidomics: Pyxis, Comprehensive Software For Ion Mobility Mass Spectrometry Imaging Data Analysis	Peter Ghazal Lipid alterations in human sepsis						
20:20-20:40	Robert Ahrends The LIFS tools and workflows for mass-spectrometry based lipidomics	Makoto Arita Advanced non-targeted lipidomics and its application to vascular biology	Christian Wolfrum (chair) A subpopulation of adipocytes regulating thermogenesis via short chain fatty acids						
						20:40-21:00	-	-	-

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BUENOS AIRES	SAN FRANCISCO	NEW YORK	ZURICH	BANGALORE	MELBOURNE	SINGAPORE (UTC+8)	Day 3 - Thursday March 10		
							Day 3 ON-LINE parallel sessions:		
							Day 3 - Session 1	Day 3 - Session 2	Day 3 - Session 3
20:00-22:00 (-1day)	15:00-17:00 (-1day)	18:00-20:00 (-1day)	00:00-02:00	04:30-06:30	10:00-12:00	<p>07:00-07:20</p> <p>Iskren Menkovic Identification of a plasma biomarker profile for the early detection, monitoring and follow-up of Gaucher disease type 1 patients using mass spectrometry</p> <p>07:20-07:40</p> <p>Uliana Danilenko CDC Clinical standardization programs to improve accuracy and reliability of biomarker measurements</p> <p>07:40-08:00</p> <p>Timothy Garrett (chair) Lipidomics in clinical pathology diagnostics</p> <p>08:00-08:20</p> <p>Daniele Piomelli NAAA-regulated lipid signaling controls the transition to pain chronicity</p> <p>08:20-08:40</p> <p>Ravinder Singh Diagnosis of adrenocortical carcinoma steroid profiling</p> <p>08:40-09:00</p> <p>-</p>	<p>Shane R. Ellis Improving lipid coverage and spatial resolution for MALDI-MSI using laser post-ionisation</p> <p>Yusuke Ohno Comprehensive analysis of human stratum corneum ceramides by LC-MS/MS-based targeted lipidomics</p> <p>Juan Henao Achieving chromatographic separation of isobaric triacylglycerols using serial-coupling RP-UHPLC-MS/MS: an application for plasma, edible oils, adipose tissue and breast milk</p> <p>Yu Xia (chair) Isomer analysis as a new phenotyping method in lipidomics</p> <p>Alan Saghatelian Longitudinal Lipidomics in Brain Aging</p> <p>-</p>	-	
22:00(-1day) -01:30	17:00-20:30 (-1day)	20:00-23:30 (-1day)	02:00-05:30	06:30-10:00	12:00-15:30	<p>09:00-09:20</p> <p>Neerja Karnani Plasma lipidomic signatures of body fat depots and their link with child metabolic health</p> <p>09:20-09:40</p> <p>Jerzy Adamski Interlaboratory comparison of metabolomics analyses of human and rodent blood using Biocrates MxP® Quant 500 kit</p> <p>09:40-10:00</p> <p>Roshni Singaraja The bile acid chenodeoxycholic acid improves muscle insulin sensitivity</p> <p>10:00-10:20</p> <p>Yusuf Ali More than mere storage containers, lipid droplets come to the fore in insulin-producing cells.</p> <p>10:20-10:40</p> <p>Jeyakumar Henry Diet in the Aetiology of Undernutrition: The Role of Oils and Fats</p> <p>10:40-11:10</p> <p><i>Break</i></p> <p>11:10-11:30</p> <p>Xueli Guan (chair) The head and tail of lipids in antimicrobial resistance</p> <p>11:30-11:50</p> <p>Adrian Teo T2D risk-associated STARD10 regulates intracellular triglyceride levels and formation of INS+ beta-like cells</p> <p>11:50-12:10</p> <p>Jan Gruber Building a lipidomics clock – an update</p> <p>12:10-12:30</p> <p>Kitti Chan Potential role of lipids in non-structural protein 1 (NS1) induced dengue pathogenesis</p>	Day 3 ON-SITE single session:*		
03:00-06:00	22:00 (-1day) -01:00	01:00-04:00	07:00-10:00	11:30-14:30	17:00-20:00	14:00-17:00	EXHIBITIONS / POSTERS		
04:00-05:00	23:00 (-1day)-00:00	02:00-03:00	08:00-09:00	12:30-13:30	18:00-19:00	15:00-16:00	Roundtable "Exercise Metabolomics" with Jerzy Adamski and Anne Bendt		
06:00-06:30	01:00-01:30	04:00-04:30	10:00-10:30	14:30-15:00	20:00-20:20	17:00-17:30	Award Ceremony for the Darlene Solomon Award co-sponsored by FeMS and Agilent		
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							Day 3 - Session 4	Day 3 - Session 5	Day 3 - Session 6
							08:00-10:00	03:00-05:00	06:00-08:00
10:00-10:30	05:00-05:30	08:00-08:30	14:30-15:00	18:30-19:00	00:00-00:30 (+1day)	21:00-21:30	Awards and closing remarks		

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