

Session #	Abstract Number : Title	Presenter	Organization	Theme
1 Keynote	360: Genome-wide association study of the human lipidome provides new insight to lipid metabolism and metabolic disease	Peter Meikle	Baker Heart And Diabetes Institute	Technology, Systems Biology & Advancing the Field
1.1	78: Single cell analysis of lipids using chip-based nanoelectrospray ionisation mass spectrometry	Sarah Hancock	UNSW Sydney	Technology, Systems Biology & Advancing the Field
1.2	165: Multi-omic signatures of chronic metal tolerance	Katie Hillyer	CSIRO	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
1.3	121: A reference map of sphingolipids in murine tissues	Federico Torta	National University Of Singapore	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
2 Keynote		Yulan Wang	Singapore Phenome Center, Lee Kong Chian School of Medicine	
2.1	52: Discovery and validation of serum metabolites associated with wholegrain consumption using nontargeted metabolic profiling	Stefania Noerman	University of Eastern Finland	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
2.2	51: Processing of Proton Transfer Reaction Time-of Flight Mass Spectrometry (PTR-TOF-MS) data for untargeted biomarker discovery in exhaled breath: application to COVID-19 intubated ventilated patient	Camille Roquencourt	CEA	Technology, Systems Biology & Advancing the Field
3 Keynote	362: Metabolomics in the Early Detection of Cardiovascular Disease: Taking the road less traveled	Carina Mels	Hypertension In Africa Research Team	Metabolomics in Health and Disease
3.1	192: FlyMet.org: an online metabolomics tissue atlas and multi-omics resource using Drosophila as a model organism	Karen McLuskey	University of Glasgow, UK	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
3.2	18: Finger Sweat Analysis Enables Metabolic Biomonitoring in Humans	Julia Brunmair	Department Of Analytical Chemistry, Faculty Of Chemistry, University Of Vienna	Metabolomics in Health and Disease
3.3 Sponsor	272: Trends and technology in metabolomics-based microbiomics for gut-liver-brain research in oncology and neurology	Therese Koal	Biocrates Life Sciences	Metabolomics in Health and Disease
4 Keynote		Theodore Alexandrov	European Molecular Biology Laboratory (EMBL)	
4.1	62: MetaboAtlas21: A metabolome atlas of 21 mouse tissues and biofluids in response to the metabolic challenge	Tomas Cajka	Institute of Physiology of the Czech Academy of Sciences	Metabolomics in Health and Disease
4.2 Sponsor	253: New research perspectives using accurate mass technology for the advancement for metabolomics in systems biology.	Jose Castro-Perez	Sciex	Metabolomics in Health and Disease
5 Keynote	363: Exploring the Potential of Metabo-Endotypes and MultiOmic-Endotypes in the Improvement of Disease Classification	Rachel Kelly	Harvard Medical School	Technology, Systems Biology & Advancing the Field

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5.1	93: Metabolite Profiling of Fourteen By-Products from the Coffee Production Chain	Mariana da Silva	São Paulo State University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
5.2	41: Application of chemoresistive gas sensors and chemometric analysis to differentiate the fingerprints of global volatile organic compounds from diseases. Preliminary results of COPD, lung cancer and breast cancer.	Rogelio Flores Ramírez	Coordinación para la Innovación y Aplicación de la Ciencia y la Tecnología	Metabolomics in Health and Disease
5.3 Sponsor	453: Metabolomics Sample Collection in the Wild	Annie Evans	Metabolon	Technology, Systems Biology & Advancing the Field
6 Keynote	372: Untargeted Metabolomics Approach to Investigate Systematically the Mechanistic Action of Prospective Drugs for Neglected Diseases	Marina F.M. Tavares	University Of Sao Paulo	Metabolomics in Health and Disease
6.1	225: In vivo estimation of ketogenesis using metabolic flux analysis framework and double tracer method - technical challenges and model interpretation	Stanislaw Deja	UT Southwestern Medical Center	Metabolomics in Health and Disease
6.2	222: Detecting dynamic shifts in time-series metabolic data using machine learning	BJ Stubbs	Tufts University	Technology, Systems Biology & Advancing the Field
7 Keynote	361: Targeted and untargeted metabolomics in grape and wine research	Farhana Pinu	New Zealand Institute For Plant And Food Research Ltd	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
7.1	187: NP-MRD: The World’s Largest NMR Database for Natural Products	Zinat Sayeeda	University of Alberta	Technology, Systems Biology & Advancing the Field
7.2	76: Metabolomics of Switchgrass-Diazotroph Interactions	Darian Smercina	Pacific Northwest National Laboratory	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
8 Keynote	365: Metabolic dysregulation in women with dormant genital tuberculosis	Koel Chaudhury	Indian Institute Of Technology Kharagpur	Metabolomics in Health and Disease
8.1	22: NMR metabolic profiling of bronchoalveolar lavage fluid to understand the pathogenesis of hypersensitivity pneumonitis	Sanjukta Dasgupta	IIT Kharagpur	Metabolomics in Health and Disease
8.2	59: Disease or medication? Delineating the metabolic effects of asthma vs. treatment – a case study for challenges in clinical metabolomics.	Stacey Reinke	Edith Cowan University	Metabolomics in Health and Disease
8.3	94: Rapid Development of Improved Data-Dependent Acquisition Strategies	Joe Wandy	Glasgow Polyomics, University of Glasgow	Technology, Systems Biology & Advancing the Field
9 Keynote	249: TB or not TB: New metabolomics biomarkers better characterizing and diagnosing tuberculosis.	Du Toit Loots	North-West University, Human Metabolomics	Metabolomics in Health and Disease

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9.1	27: Novel Machine Learning based Mass Spectral Similarity Scores substantially improve Metabolite Annotation Accuracy	Justin JJ van der Hooft	Wageningen University	Technology, Systems Biology & Advancing the Field
9.2	162: Diet and other determinants of blood acylcarnitine concentrations in healthy individuals of the European Prospective Investigation into Cancer and nutrition study	Roland Wedekind	International Agency For Research On Cancer	Metabolomics in Health and Disease
10 Keynote	294: Discovering Pesticides, Pharmaceuticals and their Transformation Products in Luxembourg Waters using Open Cheminformatics Approaches	Emma Schymanski	LCSB, University Of Luxembourg	Technology, Systems Biology & Advancing the Field
10.1	115: Exposure to environmental contaminants is associated with sex-specific alterations of hepatic metabolism in non-alcoholic fatty liver disease	Tuulia Hyötyläinen	Örebro University	Metabolomics in Health and Disease
10.2	32: Flipping the metabolomics workflow: Assigning confidence to structural annotations from mass spectra with COSMIC	Martin Hoffmann	Friedrich Schiller Universität Jena	Technology, Systems Biology & Advancing the Field
11 Keynote	364: Unravelling the biochemistry of bipolar disorder: a multi-omics approach	Alessandra Sussulini	University Of Campinas	Metabolomics in Health and Disease
11.1	183: Systemic and Lung Tissue Specific Metabolic Effects of Allergic Sensitization in Mice	Kedir Turi	Vanderbilt University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms
11.2 Sponsor	343: Robust metabolic profiling for routine quantitation and confident unknown identification	Amanda Souza	Thermo Fisher Scientific	Technology, Systems Biology & Advancing the Field
12 Keynote		Bing Yu	University of Texas Health Science Center at Houston	
12.1	95: Plasma Metabolomic Profiles of Age-related Macular Degeneration Progression	Ines Lains	Massachusetts Eye And Ear, Harvard Medical School	Metabolomics in Health and Disease
12.2	220: Metabolomics on a Chip: Development of an Impedance-Based Metabolite Biosensor for Early Diagnosis of Colon Cancer	Ya-Chun Chan	University Of Alberta	Metabolomics in Health and Disease