Poster #	Poster Title	First Name	Last Name	Organization	Theme	Sub Theme
40	Utilizing Pine Needles and Multidimensional Measurements to Monitor Per- and Polyfluoroalkyl Substances (PFAS)	**Kaylie**	**Kirkwood**	North Carolina State University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Contaminant Metabolomics
47	Suspect, and Non-Target Screening of Emerging Contaminants in Wastewater using Data-Independent Acquisition: Application of Multivariate Analysis for Assessment of Treatment Efficiency	**Asmaa**	**Kamal El-Deen**	Kyushu University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Contaminant Metabolomics
77	Identification of Biomarkers for Characterising Smoke-taint in Grapes	**Priyanka**	**Reddy**	Agriculture Victoria Research	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Contaminant Metabolomics
448	Molecular mechanisms associated with microbial biostimulant-mediated growth enhancement and drought stress tolerance in maize plants	**Motseoa**	**Lephatsi**	University Of Johannesburg	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Crop Quality Improvement
50	Metabolic effects of naturally produced brominated compounds on zebrafish embryos	**Johan**	**Gustafsson**	Stockholm University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
79	Perfluorohexane sulfonate (PFHxS) regulates lipid metabolism and affects the defense mechanism of zebrafish embryos	**Mengmeng**	**Xu**	Vrije Universiteit Amsterdam	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
112	Evaluating Per- and Polyfluoroalkyl Substances (PFAS) in Alligators and Assessing the Corresponding Lipid Alterations	**MaKayla**	**Foster**	North Carolina State University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
177	Development of Methods for Extracting and Analyzing Surface Metabolites found on Workplace Buildings	**Mitchelle**	**Katemauswa**	University Of Oklahoma	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
228	Chemical Communication in Methanic Sediments	**Zohar**	**Tik**	Ben-Gurion University of the Negev	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
251	Studying indoor dust trial samples from the NORMAN Network using non-targeted LC-HRMS and open-source data processing platforms	**Begoña**	**Talavera Andújar**	LCSB (University Of Luxembourg)	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
383	Exposure to persistent organic pollutants alters metabolome in non-obese diabetic mice.	**Tim**	**Sinioja**	Örebro University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
414	Profiling of livestock dung volatiles in search of dung beetle attractants	**Nisansala**	**Perera**	Charles Sturt University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
422	Leveraging metabolomics to investigate physiological alterations of the freshwater microalgae Chlorella Vulgaris exposed to Trichlorfon	**Hiranya**	**Dayal**	National University Of Singapore	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
428	Temporal changes in the metabolite profile of a Great Lakes invasive freshwater mussel related to environmental and biological factors	**Amanda**	**Bayless**	National Institute of Standards and Technology	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
443	Metabolomics responses of Eucalyptus hybrid species to herbivory and water deficit and their incidence on the biosynthesis of secondary metabolites	**Jasna**	**Campos-Rivera**	University Of Concepcion	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Environmental Metabolomics
182	DISSECTING TRADITIONAL FERMENTATION OF FINE FLAVOUR COCOA THROUGH MULTIPLATFORM METABOLOMIC ANALYSIS	**Fabio**	**Herrera-Rocha**	Universidad de los Andes	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety
214	Metabolomic Markers of Microbial Growth During Milk Storage	**Matthias**	**Klein**	The Ohio State University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety
242	Application of spectroscopy-based technologies as means for evaluating the microbiological spoilage of ready-to-eat baby spinach stored under modified atmosphere conditions	**Evanthia**	**Manthou**	Agricultural University of Athens	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety
259	Rapid authentication of Chinese oolong teas using Atmospheric Solids Analysis Probe - Mass Spectrometry (ASAP-MS)	**Hui Ru**	**Tan**	National University of Singapore	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety
313	Assessing Microbiological Quality of Chicken Burgers Using Spectroscopy-based Sensors	**Lemonia-Christina**	**Fengou**	Agricultural University of Athens	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety
328	Characterization of a New Series of Seafood Safety Reference Materials for use in Metabolomics and Lipidomics Research	**Clay**	**Davis**	National Institute of Standards and Technology	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety

Poster #	Poster Title	First Name	Last Name	Organization	Theme	Sub Theme
404	Real-time data acquisition and species prediction using REIMS and supervised machine learning to combat fish fraud in an industrial setting	**Marilyn**	**De Graeve**	Ghent University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Quality & Food Safety
191	Towards sustainable aquaculture: impact of plant-based diets on the plasma metabolome of Atlantic salmon as studied by standardized 1H NMR.	**Violetta**	**Aru**	University Of Copenhagen	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Food Sustainability
168	Quantitative assessment of postprandial metabolic fluxes in human by metabolic modelling	**Doris**	**Jacobs**	Unilever R&D	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
231	What's in your beverage? Exploring the Metabolomics of Beer using the Orbitrap Exploris 240	**Eric**	**Tague**	Thermofisher Scientific	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
247	Quality evaluation of chicken eggs based on metabolomics	**Mami**	**Fukuoka**	Kewpie Corporation	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
286	NMR metabolic profiling in the quality control of food commodities – Exploitation of the STOCSY statistical tool for markers' identification	**Stavros**	**Beteinakis**	National and Kapodistrian University of Athens	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
288	From foods and foodstuffs to human biological fluids. The example of hydroxytyrosol one of the most potent natural scavenger	**Theodora**	**Nikou**	Division of Pharmocognosy and Natural Products Chemistry, Department of Pharmacy, NKUOA	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
303	Aroma Profiling of Blueberries using Comprehensive Gas Chromatography – Mass Spectrometry with Headspace Solid Phase Microextraction and Dynamic Headspace Extraction	**Trevor A.**	**Johnson**	University Of Alberta	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
314	Investigation of nutrition related biomarkers and metabolization pathways in human stool samples employing LC-MS-based metabolomics	**Eleni V.**	**Mikropoulou**	University Of Athens, Department of Pharmacy	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
380	Comparative analysis of calendula seed oils by 1H NMR spectroscopy	**Natalia**	**Tyszkiewicz**	Wrocław University of Science and Technology	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Foodomics, Metabolomics in Nutrition
24	Metabolic Profiling Provides Unique Insights to Accumulation and Biosynthesis of Key Secondary Metabolites in Annual Pasture Legumes of Mediterranean Origin	**Sajid**	**Latif**	Graham Centre	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Livestock Metabolomics
49	3-O-methyldopa as an indicator of dopaminergic manipulation in the equine athlete	**Bethany**	**Keen**	UTS	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Livestock Metabolomics
342	An NMR-based metabolomic study of feed restriction on dairy cattle	**Andres**	**Lopez Radcenco**	Universidad De La Republica	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Livestock Metabolomics
350	Comprehensive (Metabolomics and metals) analysis of sow feed, feces and urine: associations with health and welfare indicators.	**Petros**	**Pousinis**	BIOMIC AUTh, Aristotle University of Thessaloniki	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Livestock Metabolomics
405	Rapid Evaporative Ionization Mass Spectrometry (REIMS) as a Real-Time Tool for Breed identification of Pork Meat	**Vasiliki**	**Gkarane**	Queen's University Belfast	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Livestock Metabolomics
415	Steered by heat: characterising metabolic pathways affected by heat stress in cattle with NMR-based metabolomics	**Alexandra**	**Gloria**	The University of Queensland	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Livestock Metabolomics
132	Deciphering microbiome impacts on fungal-microalgal chemical interaction in a marine environment using LC-HRMS and dedicated datamining strategies	**Samuel**	**Bertrand**	Université De Nantes	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Marine Metabolomics
273	Quantification of Dissolved Metabolites in Seawater through a Cation-Exchange Solid Phase Extraction Approach	**Joshua**	**Sacks**	University Of Washington	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Marine Metabolomics
330	Oleaginous yeast biomass (Rhodotorula toruloides) as a novel source of oil and other nutrients in the diet of Arctic char (Salvelinus alpinus), effects on fish performance.	**Mathilde**	**Brunel**	Swedish University of Agricultural Sciences	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Marine Metabolomics
45	Discovery of novel antifungal compounds produced by Lolium-associated Epichloë endophytes	**Krishni**	**Fernando**	Agriculture Victoria Research/ La Trobe University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
48	Untargeted metabolomic analysis of Aureobasidium pullulans volatilome and its mechanistic investigation for the inhibition of plant pathogenic Botrytis cinerea and Alternaria alternata	**Sashika**	**Yalage Don**	Charles Sturt University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics

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70	Identification of the anti-inflammatory compounds in the metabolome of Saccharomyces boulardii	**Cynthia**	**Vesterager**	Ruhr Uni Bochum	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
74	Metabolomic changes in naturally MAP infected Holstein-Friesian heifers indicate infection related biochemical pathways	**Emma**	**Taylor**	Aberystwyth University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
189	Correlation between cAMP and actinorhodin production in Streptomyces coelicolor: a multi-omics approach	**Sastia Prama**	**Putri**	Osaka University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
241	Indications for protein phosphorylation as regulator of triacylglycerol accumulation in Nannochloropsis oceanica	**Ansgar**	**Poetsch**	Ruhr University Bochum	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
388	Investigating the implications of an electron-bifurcating hydrogenase in the global metabolism of an anaerobic, sulfate-reducing bacterium via NMR-based metabolomics techniques	**Natalie**	**Payne**	Institut de Microbiologie de la Méditerranée, CNRS	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
392	NMR-based metabolomics analysis of Escherichia coli cells exposed to water extract of Turkish propolis	**Emine Sonay**	**Elgin**	Muğla Sıtkı Koçman Üniversitesi	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
410	Investigating the Exometabolome of the mycoparasitic fungus Trichoderma atroviride under different light conditions using stable isotopic labeling	**Kristina**	**Missbach**	Institute for Bioanalytics and Agro-Metabolomics	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Microbial Metabolomics
341	C. elegans expressing human amyloidogenic proteins: hints from NMR and LC-MS metabolomics	**Maria Chiara**	**Mimmi**	University of Pavia	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Model Organisms
403	CE-MS in Caenorhabditis elegans Metabolomics – A Complementary Platform to HILIC-MS?	**Liesa**	**Salzer**	Helmholtz Zentrum Muenchen	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Model Organisms
417	Bringing together what belongs together – Metabolomics of model organisms and the WormJam international research community for C. elegans systems biology and metabolic modelling in 2021.	**Horst Joachim**	**Schirra**	The University Of Queensland	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Model Organisms
420	MS-based lipidomics and mitochondrial function of skeletal muscle mitochondria - An explorative study in aging mice	**Jorien**	**Van Der Weerd**	Laboratory of Metabolic Diseases, University Medical Center Groningen	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Model Organisms
42	Natural Product Discovery from Ginseng Root Rot Directed by GNPS Molecular Networking	**Jacob**	**Walsh**	University Of Western Ontario	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Natural Products
80	Untargeted metabolomics study reveals the potential biomarkers to distinguish pileus, stipe, and spore of Ganoderma lingzhi	**Renandini**	**Danistha**	Kyushu University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Natural Products
125	Comparison of Untargeted UPLC-MS/MS Workflows for Improved Identification of Natural Products	**Jake**	**Haeckl**	Helmholtz Institute For Pharmaceutical Research Saarland	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Natural Products
201	High Performance Thin-Layer Chromatography (HPTLC) of Ecdysteroids Present in Plant Extracts Coupled with in situ Analysis and Imaging DESI/IMS/MS	**Emmanuelle**	**Claude**	Waters Corporation	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Natural Products
425	UHPLC-IM-HRMS characterization of secondary metabolites in Leontopodium alpinum Cass. (edelweiss) callus cultures	**Ioana**	**Pralea**	Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Natural Products
449	Metabolomics and computational tools to characterize the chemical space of Momordica plant species in South Africa	**Anza-tshilidzi**	**Ramabulana**	University of Johannesburg	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Natural Products
280	The metabolomic analysis of Zucker fatty rat fed brown rice	**Aizawa**	**Yumi**	Tokyo Medical University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Other
312	Metabolite Profiling and Anti-aging Activity of Rice Koji Fermented with Aspergillus oryzae and Aspergillus cristatus: A Comparative Study	**Hyunji**	**Lee**	Konkuk University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Other
349	Single bee and bee brain NMR metabolomics	**Jayne**	**McDevitt**	Bucknell University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Other
413	Evaluation of urease treatment and solvent extraction method in rat urine metabolomics	**Hinako**	**Endo**	Kyoto University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Other

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444	NMR Based Metabolic Profiling Distinguishes the Differential Impact of Capture Techniques on Wild Bighorn Sheep	**Galen**	**O'Shea-Stone**	Montana State University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Other
35	Metabolomic analysis reveals the valuable bioactive compounds of Ardisia elliptica	**Faridah**	**Abas**	Universiti Putra Malaysia	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
53	Exploration of Metabolites in Medicinal Plants using Third-Dimensional Ion-Mobility Mass Spectrometry	**ROBIN**	**Joshi**	Csir-ihbt	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
64	Cultivar-specific metabolic profiling of olive leaves by LCMS-based untargeted metabolomics for the determination of AChE inhibitor specific metabolites	**Rogers**	**Mwakalukwa**	Muhimbili University Of Health And Allied Sciences	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
73	A Comprehensive Targeted Metabolomics Assay for Plant Sample Analysis	**Jiamin**	**Zheng**	University Of Alberta	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
81	Metabolome profiling of different Capsicum species under abiotic stresses	**Basel**	**Shaaban**	Rwth Aachen University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
104	Temperature/radiation and cultivar identity are major determinants of carotenoid and polyphenol metabolism during fruit ripening in wine grapevine	**Kelem**	**Gashu**	Ben-gurion University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
105	Tomato tolerance to salinity as affected by rootstocks	**Chao**	**Song**	Ben Gurion University of the Negev	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
169	Untargeted metabolomics in waterhemp (Amaranthus tuberculatus) reveals an atypical detoxification mechanism for an HPPD-inhibiting herbicide	**Crystal**	**Concepcion**	University of Illinois at Urbana-Champaign	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
292	Ultraviolet light modulates the chronometabolic dynamics of greenhouse basil	**Victor**	**Castro-Alves**	Örebro University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
304	Metabolomic Profiling of Two Oak Species by GC×GC-TOFMS for Forensic Identification	**Ryan**	**Dias**	University Of Alberta	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
323	An untargeted metabolomic study of recalcitrant Quercus robur seeds stored at sub-zero temperatures	**Agnieszka**	**Szuba**	Institute Of Dendrology PAS	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
337	To dissect or not to dissect for fruit spatial metabolomics: tissue profiling or MRI?	**Annick**	**Moing**	INRAE	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
357	Metabolomic study of the volatile fraction of some Araceae of the Selva de Florencia National Natural Park (Samaná) and the university campus of the University of Caldas (Manizales, Caldas, Colombia)	**Eliana**	**Alvarez Valdez**	Universidad De Caldas	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
382	A Snapshot in Time: Metabolomic comparison of the living fossil Wollemia nobilis and Araucaria heterophylla	**Ryland**	**Giebelhaus**	The University of British Columbia	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
394	Interaction of physiological and metabolic responses to combined chilling and salinity stresses in grafted tomato plants	**Lingling**	**Wen**	Ben-Gurion University of The Negev	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Plant Metabolomics
194	Study of haze-komi and metabolite distribution correlation in rice koji by the combination of metabolomics and imaging techniques	**Adinda Putri**	**Wisman**	Osaka University	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Traditional Foods
402	Metabolite differences in the green plum (Buchanania obovata) fruit occur through maturation and ripening and between geographical locations.	**Selina**	**Fyfe**	The University Of Queensland	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Traditional Foods
407	Application of Batch Correction in Human Urine Samples Global Metabolomic Analysis for Andrographis paniculata 1000mg Capsules	**Khim Boon**	**Tee**	Universiti Malaya	Environmental, Plant, Animal, Agriculture, Food and Model Organisms	Traditional Medicine
25	Discovery of a sex-specific metabolic phenotype in KRAS mutant colorectal cancer	**Hong**	**Yan**	Yale University	Metabolomics in Health and Disease	Cancer
67	Unveiling the Role of RSUME in Renal Cell Carcinoma Cell Metabolism by means of a Mass Spectrometry-Based Metabolic Fingerprinting Strategy	**María**	**Monge**	Centro de Investigaciones en Bionanociencias (CIBION) - CONICET	Metabolomics in Health and Disease	Cancer
72	Metabolic impact of mutant isocitrate dehydrogenase inhibitors in glioma	**Ingvild**	**Hvinden**	University Of Oxford	Metabolomics in Health and Disease	Cancer

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82	Serum metabolic profiling for assessment of breast cancer risk in women participating in the HUNT2 study	**Julia**	**Debik**	Norwegian University of Science and Technology	Metabolomics in Health and Disease	Cancer
84	Evaluation of tumor heterogeneity in the early-stage non-small cell lung cancer by use of LC-MS-based metabolomics	**Tomasz**	**Pieńkowski**	Medical University Of Bialystok	Metabolomics in Health and Disease	Cancer
89	The ability of metabolomics to discriminate non-small cell lung cancer subtypes depends on the stage of the disease and the type of material studied.	**Michal**	**Ciborowski**	Medical University of Bialystok, Clinical Research Centre, Metabolomics Laboratory	Metabolomics in Health and Disease	Cancer
91	Lifestyle, dietary, and anthropometric correlates of eight circulating metabolites prospectively associated with breast cancer risk in EPIC	**Mathilde**	**His**	International Agency for Research on Cancer	Metabolomics in Health and Disease	Cancer
114	The performance of urinary volatile profile for bladder cancer detection	**Joana**	**Pinto**	REQUIMTE VAT PT505722232	Metabolomics in Health and Disease	Cancer
120	Exosomes ceramide composition for the characterization of glioblastoma stem-like cell phenotypes	**Raquel María**	**Melero Fernández de Me**	Universidad San Pablo CEU	Metabolomics in Health and Disease	Cancer
127	Integration of metabolomics and lipidomics for prostate cancer tissue fingerprinting	**Ana Rita**	**Lima**	REQUIMTE VAT PT505722232	Metabolomics in Health and Disease	Cancer
133	Time-resolved metabolomics of an ovarian cancer mouse model	**Samyukta**	**Sah**	Georgia Tech	Metabolomics in Health and Disease	Cancer
240	Comparing spatial heterogeneity and composition of lipids in glioblastoma vs. control brain by spatially resolved and untargeted lipidomics	**Melanie**	**Föll**	Institute for surgical Pathology, University Medical Center Freiburg	Metabolomics in Health and Disease	Cancer
279	Correlation-centered feature selection of a gene expression signature for metabolic pathway analysis to predict breast cancer metastasis	**Shiori**	**Hikichi**	Japan Society For The Promotion Of Science	Metabolomics in Health and Disease	Cancer
335	Metabolic profiling of MCF-7 breast cancer cells in 2D and 3D culture conditions: effects of serum deprivation	**Flavia**	**Biamonte**	Magna Greacia University Of Catanzaro	Metabolomics in Health and Disease	Cancer
366	Applying NLP and Deep Learning on Cancer Biomarkers	**Thomas**	**O'Connell**	Indiana University School Of Medicine	Metabolomics in Health and Disease	Cancer
386	Lipidomic profiling of Fanconi Anemia deficient HNSCC cells with stable isotope tracers	**Khyati**	**Mehta**	University of Cincinnati/Cincinnati Children's Hospital	Metabolomics in Health and Disease	Cancer
409	A comprehensive computational framework, exploiting machine learning and metabolic networks solutions, to analyse and interpret large scale cancer epidemiological studies	**Adam**	**Amara**	IARC / WHO	Metabolomics in Health and Disease	Cancer
411	A Systematic Review and Meta-Analysis of Colorectal Cancer in Urine for the Metabolome and Volatilome	**Maria**	**Llambrich**	Universitat Rovira I Virgili	Metabolomics in Health and Disease	Cancer
421	Metabolic profiling in ovo identifies cancer anti-oxidative potential as survival pathway under doxorubicin treatment	**Iman Wassime**	**Achkar**	Weill Cornell Medical College in Qatar	Metabolomics in Health and Disease	Cancer
427	Metabolic Effects of Metformin treatment in Breast Cancer Survivors with Metabolic Imbalance	**Federica**	**Bellerba**	European Institute Of Oncology	Metabolomics in Health and Disease	Cancer
65	The use of laser-assisted rapid evaporative ionisation mass spectrometry (REIMS) for the management of women with cervical abnormalities at screening.	**Maria**	**Paraskevaidi**	Imperial College London	Metabolomics in Health and Disease	Disease Diagnosis
68	Signature of salivary metabolites associated to gingival host-microbial interactions	**Eleonora**	**Quartieri**	University of Parma	Metabolomics in Health and Disease	Disease Diagnosis
117	Exploring prognostic biomarkers of early prodromal Parkinson's disease in the Spanish EPIC cohort through a multiplatform metabolomics approach	**Carolina**	**Gonzalez-Riano**	CEMBIO, University San Pablo CEU	Metabolomics in Health and Disease	Disease Diagnosis
119	Lipid Alterations Following Acute Mild Traumatic Brain Injury	**Eric**	**Gier**	Georgia tech graduate student	Metabolomics in Health and Disease	Disease Diagnosis

Poster #	Poster Title	First Name	Last Name	Organization	Theme	Sub Theme
145	Identification and validation of candidate biomarkers of chronic kidney disease in hyperglycemic individuals and their organ-specific exploration in leptin receptor-deficient db/db mouse	**Rui**	**Wang-Sattler**	Helmholtz Zentrum München, German Research Center for Environmental Health	Metabolomics in Health and Disease	Disease Diagnosis
172	Can serum metabolomics discriminate the Crohn's disease fibrostenotic phenotype?	**Simon**	**Bos**	Ghent University	Metabolomics in Health and Disease	Disease Diagnosis
232	Metabolomics and machine learning for ophthalmic diseases	**Masahiro**	**Sugimoto**	Tokyo Medical University	Metabolomics in Health and Disease	Disease Diagnosis
239	Fast Profiling of 39 Bile Acids in Plasma, Urine and Feces, by Automated Extraction and LC/MS/MS	**Aurore**	**Jaffuel**	Shimadzu Corporation	Metabolomics in Health and Disease	Disease Diagnosis
264	The potential of untargeted metabolomics for Pompe disease diagnosis	**Rafael**	**Garrett**	Federal University of Rio de Janeiro	Metabolomics in Health and Disease	Disease Diagnosis
290	Assessment of season of measurement impact on disease biomarker discovery by exhaled volatilome analysis	**Rosa Alba**	**Sola Martínez**	University of Murcia and Biomedical Research Institute of Murcia (IMIB-Arrixaca)	Metabolomics in Health and Disease	Disease Diagnosis
299	Determination of the binding affinity between novel cysteine-containing peptides and urinary arsenic metabolites using the LC-ESI-MS	**Refilwe**	**Moepya**	University Of The Witwatersrand	Metabolomics in Health and Disease	Disease Diagnosis
315	CASE PREDICTIVE and PROGNOSTIC BIOMARKERS FOR SCHIZOPHRENIA	**javascript:;peter**	**Clements**	University of Adelaide	Metabolomics in Health and Disease	Disease Diagnosis
318	The determination of early potential biomarkers for Diabetic Nephropathy in human urine samples using ultra high-performance liquid chromatography coupled to quadrupole time of flight high resolution mass spectrometer (UHPLC–QTOF HRMS)	**Thapelo**	**Mbhele**	Molecular Sciences Institute, School of Chemistry, University of the Witwatersrand, Johannesburg, South Africa	Metabolomics in Health and Disease	Disease Diagnosis
452	Infra-Red Spectroscopy as a sensitive technique to discriminate from sweat analysis kidney patients	**Paulo**	**Zoio**	Isel	Metabolomics in Health and Disease	Disease Diagnosis
83	NMR metabolite profiles in male meat-eaters, fish-eaters, vegetarians and vegans, and comparison with MS metabolite profiles	**Julie**	**Schmidt**	University Of Oxford	Metabolomics in Health and Disease	Epidemiology
144	Assessing the variations of 188 endogenous metabolites in plasma samples of 1391 subjects affected by overweight and obesity	**Gianfranco**	**Frigerio**	University of Milan and Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico	Metabolomics in Health and Disease	Epidemiology
193	COMETS Analytics: supporting large research consortia-level meta-analysis of metabolomics data	**Ewy**	**Mathe**	National Center For Advancing Translational Sciences	Metabolomics in Health and Disease	Epidemiology
270	Identification of age, sex and body mass index-related metabolites in an alpine population.	**Vinicius**	**Verri Hernandes**	Eurac Research	Metabolomics in Health and Disease	Epidemiology
395	Plasma Metabolomics and the Incidence of Ischemic Stroke in the REGARDS Cohort	**Zsuzsanna**	**Ament**	MGH, HMS	Metabolomics in Health and Disease	Epidemiology
418	Metabolic network based classification using metabolic features associated with non-alcoholic fatty liver disease in a case-control cohort	**Ana Lucia**	**Mayen Chacon**	IARC	Metabolomics in Health and Disease	Epidemiology
432	Pre-diagnostic lipid metabolites are enriched in men who develop advanced prostate cancer	**Rebecca**	**Graff**	University Of California, San Francisco	Metabolomics in Health and Disease	Epidemiology
88	Assessing sample preparation methods for HRMS-based human chemical exposomics: the case of plasma and serum	**Jade**	**Chaker**	French School Of Public Health - Ehesp	Metabolomics in Health and Disease	Exposome & Toxicology
92	Exploring the contribution of dietary phytochemicals to the human exposome – research synthesis, library and database development	**Colin**	**Kay**	North Carolina State University	Metabolomics in Health and Disease	Exposome & Toxicology
149	A High-Throughput Ion Mobility Spectrometry-Mass Spectrometry Screening Method to Evaluate Drugs of Abuse in Urine	**Karen**	**Butler**	North Carolina State University	Metabolomics in Health and Disease	Exposome & Toxicology
152	A translational in vitro and in vivo metabolomics study reveals altered hepatic metabolic pathways after acute exposure to 3,4-methylenedioxypyrovalerone	**Ana Margarida**	**Araújo**	UCIBIO/requimte	Metabolomics in Health and Disease	Exposome & Toxicology

Poster #	Poster Title	First Name	Last Name	Organization	Theme	Sub Theme
245	Phenotypic and lipidomic characterization of the effects induced by atmospheric particulate matter on physiologically relevant human lung cell cultures	**Carmen**	**Bedia**	Institute of Environmental Assessment and Water Research (IDAEA-CSIC)	Metabolomics in Health and Disease	Exposome & Toxicology
263	The effect of paraben exposure on the periconceptional urinary metabolome	**Ana**	**Rosen Vollmar**	Yale University School Of Public Health	Metabolomics in Health and Disease	Exposome & Toxicology
269	Lipidomic biomarkers of ethanol induced hepatotoxicity in human HepaRG liver cells	**Elias**	**Iturrospe**	University Of Antwerp	Metabolomics in Health and Disease	Exposome & Toxicology
282	Non-targeted exposome of children	**Žiga**	**Tkalec**	Jožef Stefan Institute	Metabolomics in Health and Disease	Exposome & Toxicology
287	Study of the effects of acetaminophen on bile acid profiles in rat and human by LC-MS/MS	**Myriam**	**Mireault**	University of Quebec in Montreal (UQAM)	Metabolomics in Health and Disease	Exposome & Toxicology
291	Exposure to Organophosphates in Firemaster 550 Causes Greater Lipidomic Brain Disruption than the Brominated Components	**Michael**	**Doyle**	North Carolina State University	Metabolomics in Health and Disease	Exposome & Toxicology
333	Developing Modular Galaxy Workflows for High-Resolution Mass Spectrometry Exposomics Data Processing	**Helge**	**Hecht**	Masaryk University	Metabolomics in Health and Disease	Exposome & Toxicology
340	Characterization of House Dust and Domestic Sludge Standard Reference Materials (SRMs) for Metabolomics and Non-targeted Studies in the Built Environment	**Kehau**	**Hagiwara**	National Institute Of Standards And Technology	Metabolomics in Health and Disease	Exposome & Toxicology
374	Absolute Quantitation of Organ-Specific Drug Localization and Metabolism in Adult Zebrafish	**Casey**	**Chamberlain**	Washington University in St. Louis	Metabolomics in Health and Disease	Exposome & Toxicology
437	Exploring the “dark side” of the exposome. Practical considerations	**Chrysovalantou**	**Chatziioannou**	International Agency for Research on Cancer	Metabolomics in Health and Disease	Exposome & Toxicology
6	Discovery of an anti-obesogenic agent from the microbiome of a genetically modified mouse and other important genome to metabolic phenotype correlations	**Jeremy**	**Everett**	University Of Greenwich	Metabolomics in Health and Disease	Gut Microbiota & Disease
56	Investigation of Roux-en-Y gastric bypass (RYGB) and high-sucrose diet influence on the rat brain-gut axis communication	**Laimdota**	**Zizmare**	Eberhard Karls University of Tuebingen	Metabolomics in Health and Disease	Gut Microbiota & Disease
135	The Internal Exposome Reveals Mechanisms of Increased Intestinal Permeability in Osteoarthritis	**Blake**	**Rushing**	Unc-chapel Hill	Metabolomics in Health and Disease	Gut Microbiota & Disease
175	Multidimensional LC-IMS-MS/MS Profiling Confirms Enzymatic Modifications by Gut Bacteria Result in an Expanded Bile Acid Pool	**Allison**	**Stewart**	NCSU	Metabolomics in Health and Disease	Gut Microbiota & Disease
190	Fecal and urinary metabolomes after live biotherapeutics product administration in healthy subjects	**Ye-Ji**	**Kang**	Kyungpook National University College Of Pharmacy	Metabolomics in Health and Disease	Gut Microbiota & Disease
216	Impact of non-digestible kiwifruit components on human gut microbial metabolism	**Junchao**	**Chen**	Plant And Food Research	Metabolomics in Health and Disease	Gut Microbiota & Disease
250	Towards standards for human fecal sample preparation in targeted and untargeted LC-HRMS studies	**Farideh**	**Hosseinkhani**	Leiden University	Metabolomics in Health and Disease	Gut Microbiota & Disease
268	Monitoring gut microbiota activity by secondary electrospray ionization-high resolution mass spectrometry	**Jiayi**	**Lan**	ETH Zurich	Metabolomics in Health and Disease	Gut Microbiota & Disease
305	Metformin affects branched-chain amino acid and energy metabolism through changes in microbiome and metabolic profiles.	**Yujin**	**Lee**	Seoul National University College Of Medicine	Metabolomics in Health and Disease	Gut Microbiota & Disease
317	Metabolomics of feces reveal differences between infants, their mothers, and their grandmothers in metabolites from microbiota-host co-metabolism	**Tomás Clive**	**Barker Tejeda**	CEMBIO, Universidad CEU San Pablo	Metabolomics in Health and Disease	Gut Microbiota & Disease
367	Untargeted Metabolomics of Human Fecal Samples Using Ultra-High-Pressure Liquid Chromatography Coupled to High-Resolution Mass Spectrometry	**Alexandre**	**Bergounioux**	Philip Morris International	Metabolomics in Health and Disease	Gut Microbiota & Disease

Poster #	Poster Title	First Name	Last Name	Organization	Theme	Sub Theme
373	Evaluation of Short Chain Fatty Acids Analysis in Feces by Comprehensive Two-Dimensional Gas Chromatography Coupled to Time-of-Flight Mass Spectrometry	Kieran	Tarazona Carrillo	University Of Alberta	Metabolomics in Health and Disease	Gut Microbiota & Disease
406	Development of a fast and accurate method for the quantification of short-chain fatty acids in a diverse biological matrix using gas chromatography-mass spectrometry (GC/MS)	Kyeongseog	Kim	Seoul National University Hospital, Department Of Clinical Pharmacology And Therapeutics	Metabolomics in Health and Disease	Gut Microbiota & Disease
439	Fecal microbial transplantation (FMT) as a potential therapeutic strategy to mitigate the debilitating effects of the neurodegenerative disease, Familial dysautonomia	Alexandra	Cheney	Montana State University	Metabolomics in Health and Disease	Gut Microbiota & Disease
332	Rapid disease phenotyping using a UHPLC-QToF-MS hybrid exploratory and quantitative assay reveals a COVID-19 disease phenotype	Luke	Whiley	Murdoch University	Metabolomics in Health and Disease	Human Phenomics
37	Discovering an immunometabolic mechanism of antiviral response by the interferon-stimulate gene RSAD2 (viperin)	Kourosh	Honarmand Ebrahimi	Department Of Chemistry, University Of Oxford	Metabolomics in Health and Disease	Immunometabolomics
109	Metabolomics analysis of serum from patients with anaphylactic reactions from different mechanisms	David	Obeso Montero	San Pablo Ceu University	Metabolomics in Health and Disease	Immunometabolomics
118	A predictive diagnostic model of IgA vasculitis based on a metabolomic approach	Alexandre	Boissais	University Hospital of Tours	Metabolomics in Health and Disease	Immunometabolomics
139	Metabolomics investigation of the Lipopolysaccharide-induced metabolic maturation of dendritic cells	Jessica	Michieletto	Université Paris Saclay, Cea, Inrae, Département Médicaments Et Technologies Pour La Santé (dmts), Spi	Metabolomics in Health and Disease	Immunometabolomics
208	Control of host immune response by serum metabolites during blood stage Plasmodium falciparum malaria	Wael	Abdrabou	New York University Abu Dhabi	Metabolomics in Health and Disease	Immunometabolomics
255	Untargeted Metabolomic Profiling of Primary Monocytes Reveals Alterations in Amino Acid and Lipid Metabolism following LPS and ANCA Stimulation	Emma	Leacy	Trinity College Dublin	Metabolomics in Health and Disease	Immunometabolomics
283	Metabolic Dynamics of in vitro CD8+ T-cell Activation	Joerg	Buescher	Max Planck Institute Of Immunobiology And Epigenetics	Metabolomics in Health and Disease	Immunometabolomics
13	The specific metabolome profiling of patients infected by SARS-COV-2 supports the key role of tryptophan-nicotinamide pathway and cytosine metabolism	Patrick	Emond	Inserm U1253 iBrain	Metabolomics in Health and Disease	Infectious Disease
26	Local vs conserved impact of visceral leishmaniasis on organ metabolism	mahbobeh	Iesani	University Of Oklahoma	Metabolomics in Health and Disease	Infectious Disease
54	Metabolomics comparison of drug-resistant and drug-sensitive Pseudomonas aeruginosa strains (intra- and extracellular analysis)	Karolina	Mielko	Wroclaw University Of Science And Technology	Metabolomics in Health and Disease	Infectious Disease
63	Unique metabolite and pathway differences between planktonic and biofilm states in Pseudomonas aeruginosa by NMR-based metabolomics	Abigail	Leggett	The Ohio State University	Metabolomics in Health and Disease	Infectious Disease
126	Role characterization of an essential P5-ATPase for lipid trafficking in the human parasite Toxoplasma gondii.	Christophe-Sébast	Arnold	Université Grenoble-alpes	Metabolomics in Health and Disease	Infectious Disease
163	Spatial Metabolomics: Unraveling new methods to understand disease pathogenesis in Influenza Virus (IAV) infection	Danya	Dean	University Of Oklahoma	Metabolomics in Health and Disease	Infectious Disease
199	COVID-19: Metabolome of patients and hemodialysis patients	Christoph	Magnes	Joanneum Research	Metabolomics in Health and Disease	Infectious Disease
206	Targeted Metabolomics Identifies High Performing Diagnostic and Prognostic Biomarkers for COVID-19	Rupasri	Mandal	University Of Alberta	Metabolomics in Health and Disease	Infectious Disease
215	Involvement of Metabolo-lipidics in COVID-19 infection: from cell models to infected patients	Eric	Piver	Inserm1259	Metabolomics in Health and Disease	Infectious Disease
227	Phase I and II analysis of vitamin D metabolism: its regulation as relevant as activation	Laura De Los Santo	Castillo Peinado	University Of Córdoba	Metabolomics in Health and Disease	Infectious Disease

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302	Metabolomic reprogramming of C57BL/6-macrophages during early infection with L. amazonensis	**Maricruz**	**Mamani**	CEU-San pablo	Metabolomics in Health and Disease	Infectious Disease
325	COVID-19 plasma samples analysis by CE-MS as a snapshot for metabolic alterations	**Oihane Elena**	**Albóniga**	CEMBIO - San Pablo CEU University	Metabolomics in Health and Disease	Infectious Disease
348	A Comparative NMR-based Metabolomics Study of Lung Parenchyma of Patients Suffering from COVID 19, Tuberculosis, and other Pneumonias	**Guillermo**	**Moyna**	Departamento De Química Del Litoral, Cenur Litoral Norte, Universidad De La República	Metabolomics in Health and Disease	Infectious Disease
435	Growth inhibition of M. tuberculosis clinical strains by Gallium citrate is combined with distinct metabolite profile – insights in activity mechanism	**Oleksandr**	**Ilchenko**	Odessa National University / Umeå University	Metabolomics in Health and Disease	Infectious Disease
154	Bioactive lipid mediators, functional physical mobility, and risk of future cardiovascular events: Results from the VITamin D and OmegA-3 TriaL (VITAL) and JUPITER studies	**Rosangela Akemi**	**Hoshi**	Brigham and Women's Hospital	Metabolomics in Health and Disease	Metabolic Disease/CVD
207	Discovery and validation of a saliva metabolomic signature of insulin resistance and diabetes progression among Puerto Rican adults	**Danielle**	**Haslam**	Brigham And Women's Hospital/Harvard Medical School	Metabolomics in Health and Disease	Metabolic Disease/CVD
235	Non-Alcoholic Fatty Liver Disease (NAFLD): Identifying Metabolic Networks and Signatures Delineating Disease Processes with Biomarkers for Fibrosis Stratification by Machine Learning.	**Aidan**	**McGlinchey**	Örebro University	Metabolomics in Health and Disease	Metabolic Disease/CVD
274	Modifications on plasmatic lipidome associated with metabolic syndrome in Colombian adult population	**Maria Fernanda**	**Serna Orozco**	Universidad Del Valle	Metabolomics in Health and Disease	Metabolic Disease/CVD
398	Metabolic Profiling of Non-Alcoholic Steatohepatitis (NASH) Patients and Healthy Controls to Investigate the Transferability of a Healthy Metabolome Using Faecal Microbiota Transplantation	**Nadeen**	**Habboub**	Imperial College London	Metabolomics in Health and Disease	Metabolic Disease/CVD
424	Potential biomarkers in plasma indicating neurocognitive and psychosocial impairment in phenylketonuria: towards optimal treatment monitoring	**Rebecca**	**Heiner-fokkema**	University Medical Center Groningen	Metabolomics in Health and Disease	Metabolic Disease/CVD
451	Glucagon-like peptide 1 receptor agonist, dulaglutide, ameliorate kidney function in diet-induced obese mice by regulating lipids and metabolites	**Ho Yin Martin**	**Yeung**	The Hong Kong Polytechnic University	Metabolomics in Health and Disease	Metabolic Disease/CVD
454	Aqueous metabolite trends for the progression of non-alcoholic fatty liver disease in morbidly obese female patients	**David**	**Rovnyak**	Bucknell University	Metabolomics in Health and Disease	Metabolic Disease/CVD
69	Integrative Omics Approach to Characterize Sex-Specific Metabolic Alterations in Triple-transgenic Alzheimer's Mouse Brain	**Abigail**	**Strefeler**	Unil - Université De Lausanne	Metabolomics in Health and Disease	Neurology & Psychiatry
85	A metabolome-wide association study in the general population reveals decreased levels of serum laurylcarnitine in people with depression	**Helena U.**	**Zacharias**	Christian-Albrechts-University Kiel	Metabolomics in Health and Disease	Neurology & Psychiatry
97	Association of circulating metabolite profiles with traumatic brain injury severity, head computer tomography findings, and prognosis of patients outcomes	**Ilias**	**Thomas**	Örebro University	Metabolomics in Health and Disease	Neurology & Psychiatry
128	Towards an early detection of 22q11.2 deletion syndrome: a targeted metabolomics study on neonatal dried blood spots	**Julie**	**Courraud**	Ssi	Metabolomics in Health and Disease	Neurology & Psychiatry
134	The metabolic changes behind the improvement of cognitive functions induced through probiotic supplementation in patients with major depressive disorder.	**Joanna**	**Godzien**	Medical University of Bialystok	Metabolomics in Health and Disease	Neurology & Psychiatry
155	Using A Multi-omics Approach to Investigate the Mechanism of Acetyl Transfer and Key Metabolites for Histone Acetylation	**yuqin**	**dai**	Stanford University	Metabolomics in Health and Disease	Neurology & Psychiatry
184	Integrated transcriptomics-metabolomics analysis implicates dysfunction in lysine metabolism in tuberous sclerosis complex	**Felix**	**Chan**	Brown University	Metabolomics in Health and Disease	Neurology & Psychiatry
212	Effects of Cannabis and CBD on brain and plasma neurotransmitters in mice	**Nichole**	**Reisdorph**	University Of Colorado	Metabolomics in Health and Disease	Neurology & Psychiatry
221	Characterizing the metabolomic landscape of the developmental origins of ADHD: a longitudinal investigation from pregnancy through early childhood	**Su**	**Chu**	Brigham and Women's Hospital and Harvard Medical School	Metabolomics in Health and Disease	Neurology & Psychiatry

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252	Plasma lipid alterations in young adults with psychotic experiences: a study from the Avon Longitudinal Study of Parents and Children cohort	**Xiaofei**	**Yin**	University College Dublin	Metabolomics in Health and Disease	Neurology & Psychiatry
285	ADHD patients can be discriminated from control group based on their blood and urine metabolomes	**Camille**	**Dupuy**	Inserm U1253	Metabolomics in Health and Disease	Neurology & Psychiatry
359	Metabolomic analysis in cerebrospinal fluid discriminate primary progressive aphasia from Alzheimer disease using HPLC-MS platform.	**Rayhanatou**	**Altine Samey**	Umr Inserm U 1253 - Imagerie Et Cerveau (ibrain)	Metabolomics in Health and Disease	Neurology & Psychiatry
180	A comprehensive untargeted metabolomic analysis in adipose tissue, plasma, urine, and stool of the effect of exercise on NAFLD	**Ambrin Farizah**	**Babu**	University Of Eastern Finland	Metabolomics in Health and Disease	Nutrition and Physical Activity
205	The metabolic signature of varying intake of whole-grain wheat and rye	**Ville**	**Koistinen**	University of Turku	Metabolomics in Health and Disease	Nutrition and Physical Activity
246	Relationship between brown adipose tissue density and plasma amino acids	**Atsumi**	**Tomita**	Tokyo Medical University	Metabolomics in Health and Disease	Nutrition and Physical Activity
275	Metabolomics in high performance sports: differences in the resting metabolic profile between endurance-trained and strength-trained athletes compared to sedentary subjects	**Mario**	**Parstorfer**	Department Of Sports Medicine (Internal Medicine VII), Medical Clinic, Heidelberg University Hospital	Metabolomics in Health and Disease	Nutrition and Physical Activity
329	Sex-specific relationship between the cardiorespiratory fitness and plasma metabolite patterns in healthy humans – Results of the KarMeN study.	**Sina**	**Kistner**	Max Rubner-Institut, Department Of Physiology And Biochemistry Of Nutrition	Metabolomics in Health and Disease	Nutrition and Physical Activity
15	Exposome Research Informs the Development of a Nutrient Cocktail to Mitigate Against Addiction	**Susan**	**Sumner**	Nutrition Research Institute, University of North Carolina at Chapel Hill	Metabolomics in Health and Disease	Other
16	LC/MS-Based Polar Metabolite Profiling Identified Unique Biomarker Signatures for Cervical Cancer and Cervical Intraepithelial Neoplasia Using Global and Targeted Metabolomics	**Trong Dat**	**Le**	Cancer Epidemiology Branch, Division Of Cancer Epidemiology And Prevention, National Cancer Center, Korea	Metabolomics in Health and Disease	Other
17	Chemical and biological inflammations impact the volatile metabolites production of lung epithelial cells	**Delphine**	**Zanella**	University of Liege	Metabolomics in Health and Disease	Other
30	Serum Metabolite Profiles Predict Outcomes in Critically Ill Patients Receiving Renal Replacement Therapy	**Jinchun**	**Sun**	NCTR	Metabolomics in Health and Disease	Other
33	The Dietary Exposome and Nutritional Intervention	**Yuanyuan**	**Li**	Unc At Chapel Hill	Metabolomics in Health and Disease	Other
36	Histone acetyltransferase NAA40 affects insulin signalling by modulating acetyl-CoA levels and lipid synthesis	**Evelina**	**Charidemou**	University Of Cyprus	Metabolomics in Health and Disease	Other
43	Smelling Human Skin Odor for Metabolomic Applications: Case of study-Discrimination between Smokers and non-smokers. Preliminary Results.	**Lorena**	**Díaz de León-Martínez**	Coordinación para la Innovación y Aplicación de la Ciencia y la Tecnología	Metabolomics in Health and Disease	Other
55	Metabolomics profiles associated with an organic diet intervention in school children in Limassol, Cyprus: A cluster-randomized cross-over trial	**Corina**	**Konstantinou**	Cyprus International Institute For Environmental And Public Health	Metabolomics in Health and Disease	Other
60	Profiling blood-based markers in multiple sclerosis to predict disease progression using a combination of highly sensitive single molecule array technology (SIMOA) and untargeted metabolomics	**Insha**	**Zahoor**	Henry Ford Hospital	Metabolomics in Health and Disease	Other
61	Quantitative LC-MS/MS metabolomics workflow for targeted analysis of cell culture media in biotherapeutic processes	**Jared**	**Kress**	Merck & Co., Inc	Metabolomics in Health and Disease	Other
90	Monitoring the lipid profile of acute burn wound healing in adults: Implications for improved burn wound management	**Monique**	**Ryan**	Murdoch University	Metabolomics in Health and Disease	Other
103	Eicosanoid measurements in Intercept treated platelet concentrates for evaluation of platelet function in vitro	**Gerhard**	**Hagn**	University Of Vienna, Austria	Metabolomics in Health and Disease	Other
107	Factors that influence the quality of metabolomics data in in vitro cell toxicity studies: A systematic survey	**Marta**	**Moreno-Torres**	Health Research Institute La Fe	Metabolomics in Health and Disease	Other

Poster #	Poster Title	First Name	Last Name	Organization	Theme	Sub Theme
164	Assessment of metabolism and microbiome of infants at 6 weeks of age and the relationship to delivery mode and feeding type	**Wimal**	**Pathmasiri**	Nutrition Research Institute, University Of North Carolina At Chapel Hill	Metabolomics in Health and Disease	Other
210	LONGITUDINAL METABOLOMICS INVESTIGATIONS OF BLOOD, URINE AND FECAL MATRICES FOR THE STRATIFICATION OF CIRRHOTIC PATIENTS WITH ACUTE-ON-CHRONIC LIVER FAILURE	**Sebastian**	**Burz**	CEA, INRAE, DMTS	Metabolomics in Health and Disease	Other
229	Genome Gut Microbiome and Metabolome Inform about Neuropsychiatric Diseases	**Rima**	**Kaddurah-Daouk**	Duke University Medical Center	Metabolomics in Health and Disease	Other
234	Mouse Age Matters: How Age Affects the Murine Plasma Metabolome	**Jerzy**	**Adamski**	Helmholtz Zentrum Muenchen	Metabolomics in Health and Disease	Other
254	Evaluation of the acylcarnitine profile in human serum by an automated method based on SPE–LC–MS/MS	**Diego**	**Luque Córdoba**	University Of Córdoba	Metabolomics in Health and Disease	Other
256	SAMPLING AND EXTRACTION OF METABOLITES FROM OSTEOARCHAEOLOGICAL REMAINS: THE NEED TO ACHIEVE REPRODUCIBLE DATA BY REDUCING INNATE COVARIANCE	**Diego Armando**	**Badillo-sanchez**	University Of Leicester	Metabolomics in Health and Disease	Other
267	Metabolic features of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome （ME/CFS） with depressive symptom	**Emi**	**Yamano**	Riken Center for Biosystems Dynamics Research	Metabolomics in Health and Disease	Other
278	A MYC-Driven Plasma Polyamine Signature for Early Detection of Ovarian Cancer	**Ranran**	**Wu**	MD Anderson	Metabolomics in Health and Disease	Other
296	Utilizing Lipidomic Changes in Plasma and Bronchoalveolar Lavage Fluid to Predict Burn Patient Mortality and Treatment Options	**Michael**	**Christopher**	North Carolina State University	Metabolomics in Health and Disease	Other
301	Metabolomic analyses of Serum and Soleus of KLF10 knockout mice	**Nathan**	**Canteleux**	Umr 1253 Ibrain	Metabolomics in Health and Disease	Other
307	Human urinary metabolomic profile changes after administration of dipeptidyl-peptidase IV inhibitor and thiazolidinedione in Korean population	**Jihyun**	**Kang**	Seoul National University	Metabolomics in Health and Disease	Other
326	An in vitro metabonomic approach to evaluate metabolic inhibitors either in monotherapy or coupled with Doxorubicin.	**Anaïs**	**Draguet**	University of Mons	Metabolomics in Health and Disease	Other
327	Sensitive and Quantitative Determination of Short-Chain Fatty Acids in Human Serum Using Liquid Chromatography Mass Spectrometry Methods	**Armaghan**	**Shafaei Darestani**	Edith Cowan University	Metabolomics in Health and Disease	Other
331	Development of a simultaneous analysis method for primary metabolites using a triple quadrupole mass spectrometer	**Yuki**	**Ito**	Shimadzu Corporation	Metabolomics in Health and Disease	Other
344	A HILIC-MS/MS method development and validation for the quantitation of 13 acylcarnitines in human serum. Application in Corlipid biomarker discovery study.	**Thomas**	**Meikopoulos**	Aristotitle University of Thessaloniki	Metabolomics in Health and Disease	Other
355	p-Cresol sulfate as a Candidate Biomarker of Ischemic Heart Failure	**Ivan**	**Vuckovic**	Mayo Clinic	Metabolomics in Health and Disease	Other
368	Targeted Metabolomics Approach for Carbonyl Measurement in Exhaled Breath	**Tanja**	**Zivkovic Semren**	Philip Morris International	Metabolomics in Health and Disease	Other
370	Sex differences in the associations between tumor tissue metabolome and colorectal cancer prognosis	**Xinyi**	**Shen**	Yale School Of Public Health	Metabolomics in Health and Disease	Other
384	The relationships between body mass index and metabolite response to a standardized meal challenge.	**David**	**Hughes**	University Of Bristol	Metabolomics in Health and Disease	Other
385	Development of a quantitative and qualitative assay for mercapturic acids in urine	**Maria**	**Fatarova**	Philip Morris International	Metabolomics in Health and Disease	Other
423	Exposome Research Informs Precision Medicine and Precision Nutrition	**Susan**	**Mcritchie**	UNC - CH	Metabolomics in Health and Disease	Other

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442	Metabolomics-guided insights on Bariatric Surgery: a multivariate data analysis over 1H NMR spectra from serum samples	**Paula**	**Burdisso**	IBR-CONICET	Metabolomics in Health and Disease	Other
130	A Comprehensive Targeted Metabolomic Assay for Uremic Toxin Quantification	**Lun**	**Zhang**	University of Alberta	Metabolomics in Health and Disease	Other Chronic Diseases
166	Alterations of modified amino acids patterns in chronic kidney disease (CKD)	**Paula**	**Cuevas-delgado**	Cembio - San Pablo Ceu University	Metabolomics in Health and Disease	Other Chronic Diseases
174	Evaluation of 9,10-DiHOME and 12,13-DiHOME as Plasma Biomarkers of Lung Function in Asthma	**Nicole**	**Prince**	Brigham And Women's Hospital	Metabolomics in Health and Disease	Other Chronic Diseases
186	Metabolic fingerprinting uncovers the distinction between the phenotypes of tuberculosis-associated COPD and smoking-induced COPD	**Da Jung**	**Kim**	Seoul National University Hospital	Metabolomics in Health and Disease	Other Chronic Diseases
38	The systematic use of metabolomic epidemiology, biobanks, and electronic medical records for precision medicine initiatives in asthma: findings suggest new guidelines to optimize treatment	**Priyadarshini**	**Kachroo**	Brigham And Women's Hospital and Harvard Medical School	Metabolomics in Health and Disease	Precision Medicine / Translational Metabolomics
160	Prediction Models for Future Complications in Type 1 Diabetes	**Naba**	**Al-sari**	Steno Diabetes Center Copenhagen	Metabolomics in Health and Disease	Precision Medicine / Translational Metabolomics
311	Enhanced access to the health-related skin metabolome by fast, reproducible and non-invasive WET PREP sampling	**Jamie**	**Afghani**	Technical University Of Munich	Metabolomics in Health and Disease	Precision Medicine / Translational Metabolomics
316	Metabolic and genetic alterations in pediatric patients of nonalcoholic fatty liver disease suggest underlying mechanisms and improve its diagnosis	**Woori**	**Chae**	Seoul National Univeristy	Metabolomics in Health and Disease	Precision Medicine / Translational Metabolomics
393	How to establish metabolite reference ranges for healthy adults? – assessment of the Biocrates MxP500 kit results	**Boglarka**	**Barna**	University Of Szeged	Metabolomics in Health and Disease	Precision Medicine / Translational Metabolomics
1	Improving the Speed and Selectivity of Newborn Screening using Ion Mobility Spectrometry-Mass Spectrometry	**James**	**Dodds**	North Carolina State University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
21	Study of the gut metabolome in postoperative Hirschsprung's disease patients hints at increased glycosaminoglycan breakdown and dysbiosis	**Vera**	**Plekhova**	Ghent University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
44	Metabolite profiles and the risk of metabolic syndrome in early childhood	**Sandi**	**Azab**	Mcmaster University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
86	Human milk oligosaccharide (HMO) screening in term and preterm human milk (HM)	**Julia**	**Kuligowski**	Health Research Institute La Fe	Metabolomics in Health and Disease	Pregnancy, Infants and Children
136	Exposure to per- and polyfluoroalkyl substances associates with altered lipid profile of breast milk	**Santosh**	**Lamichhane**	University Of Turku	Metabolomics in Health and Disease	Pregnancy, Infants and Children
137	Longitudinal Urine Metabolic Profiling and Gestational Age Prediction in Pregnancy	**XIAOTAO**	**Shen**	Stanford University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
181	Pregnancy and early-life exposures determine the neonatal blood metabolome	**Madeleine**	**Ernst**	Section for Clinical Mass Spectrometry, Danish Center For Neonatal Screening, Statens Serum Institut	Metabolomics in Health and Disease	Pregnancy, Infants and Children
188	The effects of a 2-year physical activity and diet intervention on plasma metabolites in children: the PANIC Study	**Iman**	**Zarei**	University Of Eastern Finland	Metabolomics in Health and Disease	Pregnancy, Infants and Children
204	Differential Diagnosis and Therapeutic Monitoring of Pediatric Inflammatory Bowel Disease	**Philip**	**Britz-McKibbin**	McMaster University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
224	Revealing Metabolic Signatures of Galactosemia in Neonatal Dried Blood Spots: Robust Biomarkers for Newborn Screening as Alternative to Enzyme Bioassays	**Ritchie**	**Ly**	Mcmaster University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
243	Cerebrospinal fluid metabolomics reveals alterations of tryptophan-kynurenine and nitric oxide pathways in acute neuroinflammation	**Jingya Jinni**	**Yan**	Kids Neuroscience Centre, The Children's Hospital at Westmead, Faculty of Medicine and Health, University of Sydney	Metabolomics in Health and Disease	Pregnancy, Infants and Children
295	Characterization of gestational metabolism in rat: amniotic fluid, placenta, and maternal plasma at embryonic and fetal time points.	**Alexandra**	**Bourdin-Pintueles**	Inserm U1253	Metabolomics in Health and Disease	Pregnancy, Infants and Children

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320	Impact of prenatal exposure to poly-/per-fluoroalkyl substances on lipid profiles in cord-blood of two Chinese cross-sectional cohorts	**Lisanna**	**Sinisalu**	Örebro University	Metabolomics in Health and Disease	Pregnancy, Infants and Children
28	Metabolomics analysis highlight the involvement of muscle energetic metabolism in ALS pathophysiology	**Débora**	**Lanznaster**	Umr1253 Ibrain	Metabolomics in Health and Disease	Rare Diseases
116	Region-specific metabolomics of the Leigh syndrome brain: Insight into regional vulnerability to complex I deficiency	**Karin**	**Terburgh**	North-West University (Potchefstroom Campus)	Metabolomics in Health and Disease	Rare Diseases
262	Amadori rearrangement products identified as a novel class of biomarkers for inborn errors of amino-acid metabolism through untargeted metabolomics and infrared ion spectroscopy	**Karlien**	**Coene**	Radboudumc Nijmegen	Metabolomics in Health and Disease	Rare Diseases
99	MetaboAnalyst 5.0: narrowing the gap between raw spectra and functional insights	**Jeff**	**Xia**	McGill University	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
100	Repeated measures ASCA+ for analysis of longitudinal intervention studies with multivariate outcome data	**Torfinn Støve**	**Madssen**	Norwegian University Of Science And Technology	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
106	Bucket fuser: statistical signal extraction for 1D 1H NMR metabolomics data	**Helena U.**	**Zacharias**	Christian-Albrechts-University Kiel	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
196	Principal Covariates - A chemometrical method for modeling of complex high-dimensional data	**Kristina**	**Lundquist**	Chemistry Department, Umeå University	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
211	ALIGNING PEAKS BY MATCHING MULTIPLET PROFILES IN NMR METABOLOMICS	**Andres**	**Charris-molina**	Centro De Investigaciones En Bionanociencias (cibion-conicet)	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
281	PeakBot: A high-performance machine-learning model for chromatographic peak picking in profile mode LC-HRMS datasets	**Christoph**	**Bueschl**	University Of Vienna	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
369	Speeding up HRMS data pre-processing and compound identification pipelines in an industrial setting	**Sandra**	**Pous Torres**	DSM Biotechnology	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
379	Challenges in untargeted metabolomics data analysis – An exploratory study on current practices	**Maryam**	**Goudarzi**	Cleveland Clinic Lerner Research Institute	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
381	Common phenotypes and interoperability in metabolomics	**ELFRIED B. M.**	**SALANON**	INRAE	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
401	Parametrising Single-class Metabolite Behaviour from Pooled Cross-sectional Data	**Luke**	**Husdell**	The University of Queensland	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
412	MetInclude: An Efficient, User-Configurable Method to Selectively Generate Optimized Inclusion Lists for LC-HRMS/MS	**Jonathan**	**Samson**	Agrobiotechnology Department, University of Natural Resources and Life Sciences, Vienna	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
441	Investigation of methods for quality assessment of non-targeted data pre-processing and their importance	**Yasin**	**El Abiead**	University Of Vienna	Technology, Systems Biology & Advancing the Field	Advances in Statistics and Data Analysis, including pre-processing
148	OptiLCMS: Efficient parameters optimization for metabolomics data processing and enhancing metabolite identification	**Zhiqiang**	**Pang**	Institute of Parasitology, Mcgill University	Technology, Systems Biology & Advancing the Field	Computational MS
376	ADAP-BIG: a platform-independent and scalable software tool for preprocessing large-scale mass spectrometry-based metabolomics and exposomics data	**Aleksandr**	**Smirnov**	University of North Carolina at Charlotte	Technology, Systems Biology & Advancing the Field	Computational MS
113	FORUM: Knowledge Graph to connect chemicals and biomedical concepts.	**Maxime**	**Delmas**	INRAE UMR 1331 ToxAlim	Technology, Systems Biology & Advancing the Field	Data Bases
122	The Cannabis Compound Database and Novel Cannabis Metabolite Assays	**Mickel**	**Hiebert**	University of Alberta	Technology, Systems Biology & Advancing the Field	Data Bases
141	Aspergillus Metabolome Database for Mass Spectrometry Metabolomics	**Alberto**	**Gil-de-la-fuente**	Ceu-san Pablo University	Technology, Systems Biology & Advancing the Field	Data Bases

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158	MarkerDB: a web database of molecular biomarkers	**Mark**	**Berjanskii**	University Of Alberta	Technology, Systems Biology & Advancing the Field	Data Bases
248	Complementary large-scale spectral libraries provide deeper and higher confident annotation of complex metabolomics data	**Ulrike**	**Schweiger-Hufnagel**	Bruker Daltonics GmbH & Co. KG	Technology, Systems Biology & Advancing the Field	Data Bases
322	SwissLipids, a knowledge resource to link lipids to proteins	**Lucila**	**Aimo**	Swiss Institute of Bioinformatics	Technology, Systems Biology & Advancing the Field	Data Bases
352	RaMP 2.0: An updated, public interface for exploring and analyzing chemical and biological pathway annotations for metabolites, proteins, and genes.	**Jorge**	**Neyra**	National Center for Advancing Translational Sciences	Technology, Systems Biology & Advancing the Field	Data Bases
430	Linking small molecules and proteins through Rhea and UniProtKB	**Anne**	**Morgat**	Sib Swiss Institute Of Bioinformatics	Technology, Systems Biology & Advancing the Field	Data Bases
433	MetaboFood-KDB: a cloud knowledgebase for searching metabolomics and exposomics data for nutritionally relevant compounds	**Xiuxia**	**Du**	University of North Carolina at Charlotte	Technology, Systems Biology & Advancing the Field	Data Bases
436	A web-based lightweight metabolite data management system for academic labs	**Sumita**	**Garai**	University of Pennsylvania	Technology, Systems Biology & Advancing the Field	Data Bases
265	Quality assessment of untargeted analytical data in a large-scale metabolomic study	**Rintaro**	**Saito**	Institute for Advanced Biosciences, Keio University	Technology, Systems Biology & Advancing the Field	Data Quality, QA/QC
371	Standardized QC Analysis of FBS in Targeted/Untargeted HILIC-MS	**Andrew**	**Percy**	Cambridge Isotope Laboratories, Inc.	Technology, Systems Biology & Advancing the Field	Data Quality, QA/QC
389	A pipeline for pre-processing and assessing data quality in a clear cell renal cell carcinoma case study	**Nicolás**	**Zabalegui**	CIBION-CONICET	Technology, Systems Biology & Advancing the Field	Data Quality, QA/QC
96	Quantitative analysis and genome-scale metabolic modeling of human gut microbiota in development of pancreatic islet autoimmunity and progression to Type 1 Diabetes	**Partho**	**Sen**	Turku Bioscience, University Of Turku	Technology, Systems Biology & Advancing the Field	Genome-scale Modelling
19	Bovine milk triacylglycerol regioisomer ratio shows remarkable inter-breed and inter-cow variation	**Zhiqian**	**Liu**	Agriculture Victoria Research	Technology, Systems Biology & Advancing the Field	Lipidomics
34	Lipidomics for enhanced equine anti-doping using LC-HRMS	**Kathy**	**Tou**	University Of Technology Sydney	Technology, Systems Biology & Advancing the Field	Lipidomics
46	Development of a widely-targeted quantitative lipidomics methodology by supercritical fluid chromatography coupled with triple quadrupole mass spectrometry	**Takeshi**	**Bamba**	Kyushu University	Technology, Systems Biology & Advancing the Field	Lipidomics
142	Separation of diacyl lipids containing branched- and straight-chain fatty acids in Staphylococcus aureus by RPLC-IM-MS	**Kelly**	**Hines**	University Of Georgia	Technology, Systems Biology & Advancing the Field	Lipidomics
156	Sphingolipid Control of Fibroblast Heterogeneity Revealed by Single-Cell Lipidomics	**Laura**	**Capolupo**	Epfl	Technology, Systems Biology & Advancing the Field	Lipidomics
179	Lipid Separation and Structural Characterization Using Hybrid Surface Technology and Travelling Wave Cyclic Ion Mobility	**Giorgis**	**Isaac**	Waters Corporation	Technology, Systems Biology & Advancing the Field	Lipidomics
200	Waters Lipid CCS Database: Mobilising a New Discovery Lipidomics Method	**Nyasha**	**Munjoma**	Waters Corp	Technology, Systems Biology & Advancing the Field	Lipidomics
258	Liquid chromatography - mass spectrometry (LC-MS) based lipidomics platform to investigate ferroptosis in cell extracts	**Katyeny Manuela**	**Da Silva**	University of Antwerp	Technology, Systems Biology & Advancing the Field	Lipidomics
277	Utilizing KNIME to Prioritize Lipid Molecular Descriptors Associated with Different Liquid Chromatography Methods	**Nancy**	**Abdelrahman**	NC State	Technology, Systems Biology & Advancing the Field	Lipidomics
293	Placental and Lipidomic Studies Highlight Effects of Prenatal Exposure to Organophosphate Flame Retardants	**Rebecca**	**Beres**	North Carolina State University	Technology, Systems Biology & Advancing the Field	Lipidomics

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306	From Discovery to Targeted Analysis of Lipids	**Sheher**	**Mohsin**	Agilent Technologies	Technology, Systems Biology & Advancing the Field	Lipidomics
338	Quality control tools to increase the confidence in lipid annotations	**Sven**	**Meyer**	Bruker Daltonik GmbH	Technology, Systems Biology & Advancing the Field	Lipidomics
377	'Omic-scale quantitative HILIC-MS/MS approach for circulatory lipid phenotyping in clinical studies	**Jessica**	**Medina**	University of Lausanne	Technology, Systems Biology & Advancing the Field	Lipidomics
391	One step closer to deciphering the enigma of the sphinx	**Lisa**	**Panzenboeck**	University Of Vienna	Technology, Systems Biology & Advancing the Field	Lipidomics
3	Experimental approaches for confident annotation of ammonium adducts in LCMS metabolomics data	**Wenyun**	**Lu**	Princeton University	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
75	HERMES: a molecular formula-oriented method to target the metabolome	**Oscar**	**Yanes**	Universitat Rovira i Virgili & IISPV & CIBERDEM	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
101	Development of a pathway focused library comprised of CCS, retention time and MS/MS for metabolite identification in metabolomic studies	**Adam**	**King**	Murdoch University	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
110	A workflow for automated annotation of 1D 1H-NMR spectra in global metabolomics repositories	**Gonçalo**	**Graça**	Imperial College London	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
111	Probabilistic framework for integration of mass spectrum and retention time information in small molecule identification	**Eric**	**Bach**	Aalto University	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
161	Metabolite discovery through global annotation of untargeted metabolomics data	**Li**	**Chen**	Institute of Metabolism & Integrative Biology, Fudan University	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
202	A new R/Shiny application for metabolite identification and dark-matter annotation using expert-chemical knowledge and in-source adducts in LC-HRMS: a study case on Acute-on-Chronic Liver Failure biomarkers identification.	**Sylvain**	**Dechaumet**	Cea Spi/lemm	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
203	Chemical biology meets Metabolomics: New Tools for the discovery of unknown microbiome metabolites	**Daniel**	**Globisch**	Uppsala University	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
244	Non-targeted metabolomics CCS-enabled annotation workflows for ID and detailed annotation confidence reporting	**Aiko**	**Barsch**	Bruker Daltonics, Bremen	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
375	Unknown Metabolite Identification Aided by Genetic Pathway Modeling and Quantum Chemistry	**Carter**	**Asef**	Georgia Institute Of Technology	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
399	The metabolism of amitriptyline and verapamil: a comprehensive study using a KNIME workflow	**Nouf**	**Alourfi**	University Of Bristol	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
440	Development of a workflow for unknown feature analysis with open-source software for LC-MS based untargeted metabolomics	**Yongseok**	**Kim**	The Ohio State University	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
446	CCSP 2.0: An Open Source Jupyter Tool for the Prediction of Ion Mobility Collision Cross Sections in Metabolomics	**Markace**	**Rainey**	Georgia Institute of Technology	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
450	Non-targeted Metabolomic profiling and characterization of drug metabolites with MetaboScape® by LC- timsTOF Pro PASEF	**Xuejun**	**Peng**	Bruker	Technology, Systems Biology & Advancing the Field	Metabolite Identification / Metabolic Dark Matter
146	MicrobiomeNet: Enabling interactive and exploratory investigation of microbiome metabolic function	**Jasmine**	**Chong**	McGill University	Technology, Systems Biology & Advancing the Field	Microbiomics
431	Reference Data Driven Microbiome Based Metabolomics Analysis	**Anelize**	**Bauermeister**	University Of California, San Diego	Technology, Systems Biology & Advancing the Field	Microbiomics
23	A Multi-Omic Investigation into the Role of the APOE Genotype in Alzheimer's Disease	**Melanie**	**Odenkirk**	North Carolina State University	Technology, Systems Biology & Advancing the Field	Multi-omics

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58	An Evaluation of the National Institutes of Health Grants Portfolio: Identifying Opportunities and Challenges for Multi-Omics Research that Leverage Metabolomics Data	**Catherine**	**Yu**	National Cancer Institute	Technology, Systems Biology & Advancing the Field	Multi-omics
108	OmicsAnalyst: a comprehensive web-based platform for multi-omics integration	**Guangyan**	**Zhou**	Mcgill University	Technology, Systems Biology & Advancing the Field	Multi-omics
153	iModMix, a network-based tool for multi-omics analysis	**Paul**	**Stewart**	Moffitt Cancer Center	Technology, Systems Biology & Advancing the Field	Multi-omics
219	RaMP - Relational Database of Metabolic Pathways: New directions integrating metabolomics data with other omics to gain supported insights into biological mechanisms.	**John**	**Braisted**	NCATS/NIH	Technology, Systems Biology & Advancing the Field	Multi-omics
308	Alteration of energy metabolism in pig heart tissue after whole grain feeding as revealed by metabolomics and transcriptomics analysis	**Retu**	**Haikonen**	University Of Eastern Finland	Technology, Systems Biology & Advancing the Field	Multi-omics
309	Comparison of Solid-state and Submerged fermentation of Aspergillus oryzae KCCM 12698 by integrating Multi-Omics data with in Silico model	**Su Young**	**Son**	Konkuk University	Technology, Systems Biology & Advancing the Field	Multi-omics
419	Temporally-resolved multi-omic analysis of Pseudomonas putida to unveil metabolism dynamics.	**Nicolás**	**Gurdo**	DTU Biosustain	Technology, Systems Biology & Advancing the Field	Multi-omics
31	Pathway analysis in metabolomics: Pitfalls and best practice for the use of Over-representation Analysis	**Cecilia**	**Wieder**	Imperial College London	Technology, Systems Biology & Advancing the Field	Network and Pathway Analysis for Metabolomics
233	FluxAtlas - inter-organ metabolic pathways during oral 13C-glucose tolerance test in mice	**Ondrej**	**Kuda**	Institute Of Physiology, Czech Academy Of Sciences	Technology, Systems Biology & Advancing the Field	Network and Pathway Analysis for Metabolomics
284	Revealing a hidden methanol and CO2 assimilation pathway in the methylotrophic yeast Pichia pastoris with 13C-tracer based metabolomics	**Bernd**	**Mitic**	University Of Natural Resources And Life Sciences (boku), Vienna, Austria	Technology, Systems Biology & Advancing the Field	Network and Pathway Analysis for Metabolomics
356	Data-to-Diagnosis: Proof of Concept of strain diagnosis tool to accelerate Design-Build-Test-Learn cycle	**Ju Eun**	**Jeon**	Amyris	Technology, Systems Biology & Advancing the Field	Network and Pathway Analysis for Metabolomics
390	CPExtract, a Software for the Automated Tracer-Based Pathway Specific Screening of Secondary Metabolites	**Bernhard**	**Seidl**	University Of Natural Resources And Life Sciences, Vienna (boku), Ifa-tulln	Technology, Systems Biology & Advancing the Field	Network and Pathway Analysis for Metabolomics
57	Characterization of human milk exosomes by Infrared Spectroscopy and LC-HRMS	**Victoria**	**Ramos-Garcia**	Health Research Institute La Fe	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
123	Profiling acidic metabolites by capillary electrophoresis-mass spectrometry in low numbers of mammalian cells using a novel chemical derivatization approach	**Marlien**	**van Mever**	Leiden Universiteit	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
143	On-site gas chromatography - mass spectrometry (GC-MS) for multi-component analysis of volatile organic compounds (VOCs)	**Andrea**	**Marcillo**	University of Leipzig	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
159	Fumaric acid and Maleic acid as Internal Standards for NMR Analysis of Protein Precipitated Plasma, Serum and Whole Blood	**G. A.**	**NAGANA GOWDA**	Univesity Of Washington	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
261	Improving sensitivity for the quantification of TCA cycle analytes in human plasma by the ACQUITY Premier system solution	**Kerri**	**Smith**	Waters Corporation	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
353	Exploring improvements in metabolomics results using a novel QTOF instrument with improved sensitivity	**Kranthi**	**Chebrolu**	SCIEX	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
408	Retention behavior of a panel of metabolites on a mixed mode column compared to HILIC and RP columns	**Felina**	**Hildebrand**	University Of Vienna	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
438	Head-to-head comparison of split vs. direct-flow nano LC systems for the RP and HILIC-MS characterizations of bacterial metabolomes	**Matthew**	**Keller**	University Of Tennessee, Knoxville	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques
445	Evaluation of reproducibility and sensitivity of a new hardware workflow for LC/MS analysis of plasma samples	**Karen**	**Yannell**	Agilent Technologies	Technology, Systems Biology & Advancing the Field	New Development in Instruments and Techniques

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266	IMPROVED DRIED BLOOD SPOT-BASED METABOLOMICS USING A NOVEL MICROSAMPLING DEVICE	**Konstantinos**	**Kouremenos**	Trajan Scientific And Medical	Technology, Systems Biology & Advancing the Field	New Matrices for Metabolomics
98	Integration and visualization of multiple metabolomics datasets using UMAP	**Rui**	**Climaco Pinto**	Imperial College London	Technology, Systems Biology & Advancing the Field	Other
236	Ensemble modeling of regulatory networks for phenotype prediction in metabolic pathways	**Yue**	**Han**	Georgia Institute of Technology	Technology, Systems Biology & Advancing the Field	Other
297	Analytical methodology for metabolomics study of blood, milk and feces in goats using 1H-NMR and UHPLC-HRMS	**Cecile**	**Martias**	Inserm	Technology, Systems Biology & Advancing the Field	Other
298	RaMS: R-based access to mass spectrometry data	**William**	**Kumler**	University Of Washington	Technology, Systems Biology & Advancing the Field	Other
310	MetaboHUB (French national infrastructure in metabolomics and fluxomics for life sciences), towards next generation metabolomics and fluxomics, from population to single cells	**Fabien**	**Jourdan**	Inrae-MetaboHUB	Technology, Systems Biology & Advancing the Field	Other
321	Horses for courses: maximizing endogenous metabolite identification using RP and HILIC ultra high-performance liquid chromatography-mass spectrometry time-of-flight mass spectrometry analysis (UHPLC-TOF-MS)	**Dimitra**	**Diamantidou**	Aristotle University Of Thessaloniki	Technology, Systems Biology & Advancing the Field	Other
339	UPLC-TOF-MS/MS urinary organic acid profiling on a CSH Phenyl-Hexyl Acquity Premier column for metabolomics studies applications	**Georgios**	**Theodoridis**	Aristotle University Thessaloniki	Technology, Systems Biology & Advancing the Field	Other
387	mGWAS-Explorer: A visual analytics platform connecting metabolomics with genomics through curated knowledge base and advanced statistics	**Le**	**Chang**	McGill University	Technology, Systems Biology & Advancing the Field	Other
396	Improved sensitivity for low abundant lipids using a vacuum insulated heated ESI source (VIP-HESI)	**Lucy**	**Woods**	Bruker	Technology, Systems Biology & Advancing the Field	Other
429	An Improved Reverse Phase LC/MS-MS Method for The Measurement of Bile Acids in Biological Samples	**Pietro**	**Morlacchi**	Agilent	Technology, Systems Biology & Advancing the Field	Other
170	Molecular Imaging of isobaric lipids using high-resolution ion mobility mass spectrometry with DESI XS	**Bindesh**	**Shrestha**	Waters Corporation	Technology, Systems Biology & Advancing the Field	Spatial Imaging
173	Nanostructured gold-coated silicon surfaces for multimodal SALDI-MS and SERS imaging of fingermarks	**Stefania Alexandra**	**Iakab**	Universitat Rovira I Virgili (ESQ9350003A)	Technology, Systems Biology & Advancing the Field	Spatial Imaging
198	Increased molecular information for spatial imaging using DESI MS	**Mark**	**Towers**	Waters Corporation	Technology, Systems Biology & Advancing the Field	Spatial Imaging