We are very pleased to welcome you to the 2020 European RFMF-Metabomeeting conference in Toulouse. This conference gathers together two metabolomics and fluxomics networks, the RFMF (French-speaking Metabolomics and Fluxomics Network) and the MPF (Metabolic Profiling Forum) with more than 10 years of existence. MPF and RFMF share the same objectives which are to catalyze metabolomics and fluxomics research, organize conferences and promote early career scientists. Both networks also put forward networking and social aspects as strong leverage to achieve cutting edge science. For all these reasons we decided to organize this joint event.

With the growing interest in metabolomics, several regional and national networks have been created across Europe (and affiliated islands) within the last years. That is the reason why we decided to also include them in the organization of this event. They were particularly instrumental in creating a high-level scientific program and providing travel grants (a staggering 21 travel grants!).

We expect this conference to demonstrate the recent breakthroughs in metabolomics and fluxomics in a wide range of application fields. We made the choice to keep the scope of the conference as broad as possible (in terms of techniques and applications) since we think that interactions between communities is key in creating new paradigms, collaborations and scientific hypothesis.

One of our aims in this conference is to promote early career scientist participation. That is the reason why we did our best to keep registration prices as low as possible. As mentioned, networks made a strong effort to offer travel grants. Early careers were also strongly involved in the scientific organization of the conference. In fact, an early career committee was set up, led by Alison Woodward, and selected the early career presentations that you will see during the conference. They also proposed and organized workshops and social events. Finally, they will co-chair sessions with the (less early career) scientists.

Good science is generally the outcome of hard work within a friendly and supportive environment. All organisers agreed on the fact that this friendly atmosphere is of upmost importance for the organization of the conference. That is the reason why we did our best to have exciting social and networking events before and during the conference. We also aim at following RFMF mantra of “Good food Good science” with a very local and original gala dinner.

Finally, we would like to acknowledge all the academic and industrial sponsors for supporting this event and previous ones. We also thank all the people involved in the scientific and practical organization of this conference. MetaboHub-Metatoul metabolomics and fluxomics facility contribution was outstanding and our warmest thoughts go to Justine Bertrand Michel and Floriant Bellvert for their hard work and unbreakable optimism.

We wish you a fruitful scientific, human and enjoyable conference!

Jules Griffin (MPF)
Fabien Jourdan (RFMF)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 am - 12:00 pm</td>
<td>W1: Interactive tutorial - How to process LC-MS data with workflow4metabolomics.org</td>
</tr>
<tr>
<td>12:00 pm - 1:00 pm</td>
<td>LUNCH BREAK - ON YOUR OWN</td>
</tr>
</tbody>
</table>
| 1:00 pm - 3:45 pm | Parallel Workshop A (room TBA) - W2: metaRbolomics hackathon plus  
| 4:00 pm - 6:00 pm | Parallel Workshop B (room TBA) - W4: Advanced approaches for the analysis of metabolomics data  
| 6:00 pm - 6:30 pm | BREAK  
| 6:30 pm - 8:00 pm | Social event: Toulouse walking tour  
<p>| 8:30 pm - 10 pm   | W6: Meet the editor |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>8:00 am - 9:00 am</td>
<td>Registration open</td>
</tr>
<tr>
<td>9:00 am - 9:30 am</td>
<td>Opening Ceremony</td>
</tr>
<tr>
<td>9:30 am - 10:15 am</td>
<td>Methodological &amp; Technological developments</td>
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<tr>
<td></td>
<td>Chairs: Justine Leenders &amp; Marta Cascante</td>
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<tr>
<td>10:15 am - 10:35 am</td>
<td>Coffee break</td>
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<tr>
<td>10:35 am - 11:00 am</td>
<td>Microbiology &amp; Biotechnologies</td>
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<tr>
<td></td>
<td>Chairs: Alison Woodward &amp; Karl Burgess</td>
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<tr>
<td>11:00 am - 11:20 am</td>
<td>O2: ScalAFlex: a scalable approach to quantify fluxes in metabolic subnetworks Pierre Millard, France</td>
</tr>
<tr>
<td>11:20 am - 11:40 am</td>
<td>O3: Rational optimization of a novel synthetic pathway for methanol utilization in E. coli Camille Peiro, France</td>
</tr>
<tr>
<td>11:40 am - 11:55 am</td>
<td>F1: Characterising the bidirectional biomolecular interactions between the intestinal microbiota and host drug metabolism Marine Letterre, UK</td>
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<td></td>
<td>F2: Rapid kinetics of lipid second messengers controls secretion in Toxoplasma parasites Nicholas Katsiris, France</td>
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<td>F3: Searching for differential metabolites between Mycobacterium tuberculosis and the MTBVAC vaccine using non-targeted approach metabolomics Caridad Díaz Navarro, Spain</td>
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<tr>
<td>11:55 am - 12:10 pm</td>
<td>Plenary 1: Insights from integration of metabolomics data in large-scale plant metabolic models Zoran Nikoloski, Germany</td>
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<tr>
<td>12:10 pm - 1:00 pm</td>
<td>Lunch &amp; Posters</td>
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<tr>
<td>1:00 pm - 1:45 pm</td>
<td>Lunch &amp; Posters</td>
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<tr>
<td>1:50 pm - 2:20 pm</td>
<td>Career information</td>
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<td>S1: Sciex: A New Tool in Metabolomics: SWATH® Acquisition Analysis for Global Profiling and Quantitation Joerg Schlotterbeck, Sciex</td>
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<tr>
<td>2:20 pm - 3:45 pm</td>
<td>Agriculture &amp; Food</td>
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<td>Chairs: Loic Mervant &amp; Steffen Neumann</td>
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<tr>
<td>3:15 pm - 3:35 pm</td>
<td>O4: Mass Spectrometry Imaging (MALDI-MSI) and LC-MS/MS reveal spatial distribution of metabolic responses to Leptosphaeria maculans infection in stems of Brassica napus Anani Amegan Missinou, France</td>
</tr>
<tr>
<td>3:35 pm - 4:05 pm</td>
<td>Keynote 1: Insights from integration of metabolomics data in large-scale plant metabolic models Zoran Nikoloski, Germany</td>
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<td>4:05 pm - 4:20 pm</td>
<td>F4: Elicitor-specific reprogramming of potato’s metabolome Rafaela Martin, France</td>
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<td>F5: Biosource-guided network annotation and visualization for untargeted metabolomics Santiago Codesido, Switzerland</td>
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<td>F6: Recommending substructures for unknown tandem mass spectra Youzhi Liu, Belgium</td>
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<tr>
<td>4:20 pm - 5:00 pm</td>
<td>Coffee break</td>
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<tr>
<td>5:00 pm - 5:20 pm</td>
<td>Statistical &amp; Computational developments</td>
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<td></td>
<td>Chairs: Sara Tortorella &amp; Lorraine Brennan</td>
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<tr>
<td>5:20 pm - 5:35 pm</td>
<td>O5: Mix it up! How to combine multiple LC-MS modes and design of experiments to understand multifactorial biological phenomena Victor Gonzalez Ruiz, Switzerland</td>
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<tr>
<td>5:35 pm - 5:55 pm</td>
<td>O6: Modelling intrahepatic metabolic rewiring during the onset of obesity using arterio-venous blood metabolomics profiles Nathalie Poupin, France</td>
</tr>
<tr>
<td>5:55 pm - 6:10 pm</td>
<td>S3: Shimadzu : Profiling experiments with DIA on the Ultra-Fast Q-TOF LCMS-9030 Thierry Legoupil</td>
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<tr>
<td>6:10 pm - 8:00 pm</td>
<td>Welcome drinks &amp; Posters</td>
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</tbody>
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Wednesday 22nd 2020
Auditorium Marthe Condat

Plenary 1: From analytical chemistry to clinical metabolomics: reflections on the experimental workflow using adrenal cancer and hypervitaminosis A case studies Rick Dunn, UK

O1: Compact NMR spectroscopy and advanced pulse sequences: the perfect match for the online and real-time monitoring of bioprocesses Jonathan Farjon, France
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00 am</td>
<td>Plenary 3: Spatial metabolomics in untargeted and quantitative studies</td>
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<tr>
<td>9:45 am</td>
<td>07: Coupling metabolomic information coming from both LC-MS and Imaging-M5 to characterize</td>
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<td>experimental induction of coral larvae metamorphosis</td>
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<td>10:05 am</td>
<td>08: NMR metabolomics: a new tool in forensic sciences</td>
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<tr>
<td>10:25 am</td>
<td>EC2: Machine learning-based classification to improve Gas Chromatography-Mass Spectrometry</td>
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<td>10:40 am</td>
<td>data processing</td>
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<td>11:05 am</td>
<td>Coffee break</td>
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<tr>
<td>11:05 am</td>
<td>Human health</td>
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<td>11:35 am</td>
<td>Keynote 2: Unveiling the metabolic phenotypes and vulnerabilities underlying metastasis and</td>
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<td>drug resistance</td>
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<td>11:50 am</td>
<td>EC3: High throughput untargeted surface metabolite profiling of formalin-fixed paraffin</td>
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<td>embedded (FFPE) brain tumour tissue microarrays (TMA) using LESA-MS/MS and OrbiSIMS</td>
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<tr>
<td>12:05 pm</td>
<td>EC4: Computational modeling of p53 metabolic functions</td>
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<td>12:20 pm</td>
<td>F7: Towards precision diagnostics: Untargeted metabolomics for the diagnosis of inborn errors</td>
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<td>of metabolism in individual patients</td>
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<tr>
<td>12:20 pm</td>
<td>Lunch &amp; Posters</td>
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<tr>
<td>1:30 pm</td>
<td>Environmental science &amp; Plants</td>
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<tr>
<td>2:00 pm</td>
<td>Keynote 3: Environmental Cheminformatics: Case Study of Thirdhand Smoke in House Dust</td>
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<tr>
<td>2:30 pm</td>
<td>09: Relating metabolomics and yield in a network of experiments</td>
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<tr>
<td>2:50 pm</td>
<td>010: Understanding the regulation of proline content in source leaves of winter oilseed rape</td>
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<tr>
<td>3:10 pm</td>
<td>55, Waters: Multi-dimensional Metabolomics using Ion Mobility Workflows – Future Advances</td>
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<tr>
<td>3:25 pm</td>
<td>Coffee break</td>
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<tr>
<td>4:00 pm</td>
<td>Methodological &amp; Technological developments</td>
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<tr>
<td>4:45 pm</td>
<td>Plenary 4: Micro-NMR for Metabolomic Observation of Microfluidic Culture Systems</td>
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<td>5:05 pm</td>
<td>EC5: Proton detected 31P NMR methods for metabolomics</td>
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<td>5:20 pm</td>
<td>O12: The power of LC-MS based multimetics to explore human adipogenesis</td>
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<td>5:40 pm</td>
<td>Posters Session</td>
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<tr>
<td>8:00 pm</td>
<td>Gala Dinner</td>
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<td>Time</td>
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<tr>
<td>9:00 am</td>
<td>Keynote 4: Prenatal chemical exposure modulates neonatal serum phospholipids, increasing later risk of type 1 diabetes</td>
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<td>9:30 am</td>
<td>O13: TheWormJam 2019 vintage - New developments in the international research community for C. elegans systems biology and metabolic modelling</td>
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<td>9:50 am</td>
<td>EC6: Child multi-omics signatures of the early life exposome</td>
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<td>10:05 am</td>
<td>Coffee break</td>
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<tr>
<td>10:35 am</td>
<td>Plenary 5: Lipidomics signatures of metabolic diseases</td>
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<tr>
<td>11:20 am</td>
<td>O14: Optimisation of Biofluid and Tissue Metabolite and Lipid Extraction for Clinical Metabolic Phenotyping</td>
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<tr>
<td>11:40 am</td>
<td>O15: Integrated metabolomics and transcriptomics analysis of intra-tumour heterogeneity in paediatric brain tumours</td>
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<tr>
<td>12:00 pm</td>
<td>O16: Identifying novel activators of regulatory T-cell metabolism</td>
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<tr>
<td>12:20 pm</td>
<td>Closing Ceremony &amp; Awards</td>
</tr>
</tbody>
</table>

O: Oral Presentation  EC: Early Career oral presentation  F: Flash presentation (180 seconds)  S: Sponsor presentation
Poster 001: P001
Revealing age-related sex differences in human lipidome: Metabolic phenotyping of Lausanne population

Poster 002: P002
Untargeted metabolomic analysis for the discovery of treatment response biomarkers in breast cancer patients through Hotelling T2 multivariate profiling

Poster 003: P003
Metabolomic investigation of immune cell activation by Liquid Chromatography coupled with High Resolution Mass Spectrometry (LC-HRMS)

Poster 004: P004
GH-OMICs: applying metabolomics to the fight against hormonal doping

Poster 005: P005
NMR metabolomics for understanding the role of alkaline phosphatase in neurotransmission and inflammation processes

Poster 006: P006
A multiplatform approach: HPLC, GC and NMR for urinary metabolomic analysis of muscle-invasive bladder cancer

Poster 007: P007
NMR metabolic profiling can help discriminate between normal primary hepatocytes and diverging hepatic cancer cell lines

Poster 008: P008
Quantitative metabolomics analysis reveals altered lipid profile in women with endometriosis: a pilot case-control study

Poster 009: P009
Steroid profile in human seminal fluid: is it linked to sperm quality?

Poster 010: P010
Combination of two semi-targeted approaches to detect toxicological biomarkers as a tool to understand the relation between red meat consumption and colorectal cancer promotion

Poster 011: P011
Mre11 nuclease activity removes the replication blocking nucleoside analogue Gemcitabine from the nascent strand during DNA replication

Poster 012: P012
Metabolic characterization of Leishmania mexicana-infected macrophages

Poster 013: P013
A comprehensive analysis of metabolome and lipidome in different sleep deprivation models using a multiplatform technique of chromatography-mass spectrometry

Poster 014: P014
Study on Alterations of Metabolome by Blood Transfusion using LC-Q-TOF and GC-MS

Poster 015: P015
Dried Blood Spots for the Determination of Reduced to Oxidized Glutathione Status

Poster 016: P016
Preliminary investigations of alkaloid composition from Thalictrum isopyroides plant of Azerbaijan Flora
Poster 017: P017
Serum targeted and untargeted metabolomics-based analyses in infants with Ureteropelvic Junction Obstruction

Poster 018: P018
Investigating urinary and faecal metabolic differences among native Africans, African Americans and Alaskans using mass spectrometry

Poster 019: P019
Alterations in plasmatic levels of metabolites involved in purine, urea cycle and tryptophan metabolic pathways during right ventricular remodeling in chronic thromboembolic pulmonary hypertension

Poster 020: P020
Molecular networking-based mass spectrometry to decipher tumor cells metabolism

Poster 021: P021
“-Omnics- sciences and therapeutic”

Poster 022: P022
Metabolomic study of commercial mistletoe extracts used in alternative anticancer therapy

Poster 023: P023
Optimization of the untargeted metabolomics workflow for studying the impact of dysbiosis on the host

Poster 024: P024
Rapid extraction and High-Resolution Tandem Mass Spectrometry analysis of the acylCoA metabolome

Poster 025: P025
Serum metabolic profiling following traumatic brain injury in rats using 1H Nuclear Magnetic Resonance spectroscopy

Poster 026: P026
Surface analysis of lipids in rat mesenteric fat tissue sections by MALDI-MS imaging to understand the impact of obesity

Poster 027: P027
Combined transcriptomics–metabolomics profiling of the heat shock response in the hyperthermophilic archaeon Pyrococcus furiosus

Poster 028: P028
Alternative carbon sources for the central metabolism of Trypanosoma brucei procyclic form

Poster 029: P029
Characterization of bioherbicidal compounds stemming from micro-algae diversity by differential metabolomic and spectral similarity network assisted dereplication (ALL DREAM)

Poster 030: P030
Threonine metabolism in Leishmania

Poster 031: P031
Fluorinating Putida: Annotating Novel and Undesired Metabolites

Poster 032: P032
Analysis of metabolome time-variations of an endophytic fungal strain of Botryosphaeria mamane through untargeted LC-MS profiling

Poster 033: P033
Study of the production of (phyto)hormones by mycorrhizal fungi

Poster 034: P034
Metabolites characterization of nine cyanobacteria isolated from thermal mud.

Poster 035: P035
Metabolomics in plant-microbe interactions: “MetaboHUB-MetaToul-plant metabolites” platform facilities

Poster 036: P036
Investigating the effects of future climate scenarios in soft fruit: application of HPLC-PDA-MS metabolite profiling in blackcurrant cultivated under increased temperature and altered light regimes

Poster 037: P037
The role of food polyphenols in energy metabolism

Poster 038: P038
Study of dietary polyphenols metabolites by a top-down metabolomics approach

Poster 039: P039
NSP19 an original eco-extract from Dioscorea villosa with neuroprotective effects in in vitro Alzheimer’s disease models

Poster 040: P040
Digging out the terroir influence on bioactive polyphenols from grape stems: A correlation-driven approach to spatialize metabolomics data.

Poster 041: P041
Development of a UHPLC-MS/MS targeted method in various matrices for the quantification of toxicologically relevant aldehydes produced from lipid peroxidation

Poster 042: P042
LC-MS based untargeted metabolite profiling of whole grain spelt (Triticum spelta) cultivated in Switzerland

Poster 043: P043
Isotope Labelling and Molecular Networking to Identify New Fungal Secondary Metabolites

Poster 044: P044
Specific derivatization with isotopic labeling introduction and mass spectrometry to monitor lipid peroxidation carbonyl compounds in the intestinal lumen by both targeted and non-targeted approaches.

Poster 045: P045
Characterization of A. thaliana responses to plant defence elicitors using untargeted metabolomics

Poster 046: P046
Metabolomics implemented to the Equine Biologic Passport (EBP) for doping control.

Poster 047: P047
Unravelling the impact of the antidepressant venlafaxine on the metabolome of meagre fish

Poster 048: P048
Comparison of effects produced by the exposure of bisphenol A and estradiol in zebrafish embryos (Danio rerio) using an untargeted metabolomics approach

Poster 049: P049
Let’s talk about POÆEMS ! Photosynthetic Organisms from Atmospheric Ecosystem in a Multiscale Study

Poster 050: P050
Developing a multi-omics approach for chemical grouping

Poster 051: P051
Microbiome and metabolome analyses of the medaka fish gut during a chronic exposure to toxic cyanobacterial blooms

Poster 052: P052
High-Throughput Targeted Lipidomics Analysis of Dihydroceramide Desaturase-1 (DES1) Knockout Mice

Poster 053: P053
In Vivo Microdialysis of Endogenous and 13C-labeled TCA Metabolites in Rat Brain: Reversible and Persistent Effects of Mitochondrial Inhibition and Transient Cerebral Ischemia

Poster 054: P054
Ion source optimization in liquid chromatography time-of-flight mass spectrometry for metabolomics studies using the design of experiments

Poster 055: P055
A novel multi-targeted quantitative approach for nutrimetabolomics research

Poster 056: P056
FOBI: An ontology to represent food intake data and associate it with metabolomic data

Poster 057: P057
Comparison of different methods for lipidic extraction

Poster 058: P058
Development of an untargeted metabolomics workflow for investigating drug-induced cardiotoxicity using cardiac microtissues.

Poster 059: P059
A metabolomics-like approach for chemical forensic: preliminary study and perspectives

Poster 060: P060
Simultaneous measurement of absolute metabolite concentration and isotope incorporation by mass spectrometry

Poster 061: P061
Evaluation of pure shift NMR method in metabolomics

Poster 062: P062
A high throughput fluxomic workflow for exploration of metabolic phenotypes

Poster 063: P063
Metabolomic fingerprint of aging on red blood cells

Poster 064: P064
Intelligent Acquisition for Comprehensive Metabolome Coverage in Plants, Mammals, and Bacteria

Poster 065: P065
Novel MALDI imaging solution empowered by a dual-source Q-TOF and a dedicated bioinformatics pipeline for identification of peaks from tissue

Poster 066: P066
Establishing a Spectral Library and Accurate Mass Retention Time (AMRT) Database for Pediatric Metabolomics Analysis

Poster 067: P067
Investigation of mevalonate pathway by quantitative metabolomics and isotopologue profiling

Poster 068: P068
High-throughput metabolite profiling of cell media for improved antibody production utilizing a dual separation/mass spectrometry system

Poster 069: P069
The development of selective sorbent for isolation of catecholamines and their metabolites from biological fluids

Poster 070: P070
Data processing workflow to study the exposome by suspect screening

Poster 071: P071
Development of an untargeted approach based on isotope profiling of metabolic networks by high resolution mass spectrometry

Poster 072: P072
Improving lipid annotation coverage using intelligent precursor selection software on an Orbitrap-based mass spectrometer

Poster 073: P073
Comparison of normalization techniques for untargeted metabolomics of urine samples.

Poster 074: P074
Comparison of two sampling and extraction protocols to perform metabolomic studies on human adherent cells

Poster 075: P075
Development of a System Suitability QC Sample for Nano-Electrospray Direct Infusion Mass Spectrometry Metabolomics

Poster 076: P076
Evaluation of U-13C Spirulina (Arthrospira platensis) for stable isotope assisted untargeted metabolomics and liquid chromatography-isotope dilution mass spectrometry (LC-IDMS)

Poster 077: P077
Increased throughput and coverage for the annotation of Saponins using a structure-based MSn approach on a Tribrid Orbitrap mass spectrometer

Poster 078: P078
Application of 13C flux analysis in diagnosis of metabolic disorders

Poster 079: P079
Study on Intracellular Tracking of 13C isotope - labeled Volatile Cancer Markers

Poster 080: P080
Metabolomics profiling urine by Benchtop NMR

Poster 081: P081
Multi-platform and multi-matrix analytical development

Poster 082: P082
A comparison between a targeted and an untargeted approach in the frame of a pilot biomonitoring study

Poster 083: P083
Development and validation of a RPLC-MS/MS method for the quantification of ceramides in human serum of patients with CAD

Poster 084: P084
AlpsNMR: an R package for fully untargeted NMR-based metabolomics workflow

Poster 085: P085
Costs and benefits of switching from vendor-based to open source pipelines for untargeted LC-MS metabolomics

Poster 086: P086
Volatile Biomarker discovery in flatus by GC-MS and GC-IMS to diagnose digestive disorders and diseases.

Poster 087: P087
MetExplore: Omics data analysis in the context of metabolic networks

Poster 088: P088
BARSA: BidimensionAl nmR Spectra Annotation

Poster 089: P089
Assessing the impact of physicochemical parameters on the predictive capabilities of thermodynamics-based stoichiometric approaches under mesophilic and thermophilic conditions

Poster 090: P090
Uniting metabolomics data processing and highly confident annotation across six MS instrumental set ups: MetaboScape 5.0

Poster 091: P091
Integrated workflow with quality control for large cohort and clinical metabolomics research using robust hardware and signal correction

Poster 092: P092
Automatic annotation in untargeted metabolomics: a proof of concept protocol based on recurrent experiments
Poster 093: P093
Metabolomics results interpretation using recommender system embedded in metabolic network visualization

Poster 094: P094
Technological developments and opportunities with Workflow4Metabolomics

Poster 095: P095
Taxonomically informed metabolite annotation enhances confidence in specialized metabolomes annotation

Poster 096: P096
Improving prediction of essential genes using context-specific metabolic network ensembles

Poster 097: P097
Showcasing Longitudinal Metabolomic Datasets: Accessible, Fast and Simple

Poster 098: P098
Developing methods for targeted metabolomics by LC-MS

Poster 099: P099
The SMRT dataset for machine learning-based metabolite retention time prediction.

Poster 100: P100
LC-MS/MS data analysis with xcms

Poster 101: P101
Targeting MDM2-dependent serine metabolism as a new therapeutic strategy for liposarcoma

Poster 102: P102
Biofluid Applications in Benchtop Low-frequency 60 MHz NMR: A Metabolomics Investigation

Poster 103: P103
Analysis of Penillium sclerotiorum metabolome by molecular networking

Poster 104: P104
FoodomicsGR National research infrastructure for the comprehensive characterisation of Foods

Poster 105: P105
Bioavailability of dietary long chain-PUFAs in the rat retina: mapping by MALDI imaging mass spectrometry

Poster 106: P106
Colorectal Cancer: Biomarkers and Effect Size

Poster 107: P107
Inflammation signaling by cardiac stromal exosomes

Poster 108: P108
Assessment of Preterm Infant’s Nutrition by Untargeted Human Milk Lipidomics

Poster 109: P109
Exploring the use of GC-CI-MS for stable isotope labeling in metabolomics

Poster 110: P110
Development of a targeted urinary metabolic profiling technique for inflammatory bowel disease using Liquid Chromatography Mass Spectrometry with Electrospray Ionization Quantification.

Poster 111: P111 CEU MASS MEDIATOR: THE TOOL TO ANNOTATE COMPOUNDS IN CE-MS FOR METABOLOMICS

Poster 112: P112
Improved Metabolite Identification in a Single Injection with SWATH® Acquisition for Untargeted Metabolomics Workflow

Poster 113: P113
High-throughput single-step sample preparation coupled to targeted LC-MS/MS approach for extended coverage of human plasma metabolome and lipidome

Poster 114: P114
In vivo isotopic tracing experiments reveal lactate as an oxidative substrate for brown/beige adipose tissues

Poster 115: P115
LipostarMSI: Comprehensive and Vendor-Neutral Data Analysis Platform for Mass Spectrometry Imaging

Poster 116: P116
SWATH® Acquisition Allows a Deeper Level of Comprehensive Metabolite Quantitation

Poster 117: P117
Community-based urine sampling methodology and biomarker technology for assessment of dietary exposure

Poster 118: P118
Simultaneous quantification of urine metabolites to allow comprehensive assessment of dietary exposure

Poster 119: P119
Utilizing the semantic web for kinetic modeling of metabolic disease pathways

Poster 120: P120
Untargeted Lipidomic analysis of bioactive lipids in epicardial adipose tissue and the effect of coronary artery disease status

Poster 121: P121
Using metabolomics to investigate the role of the gut microbiota in mediating the effects of diet on appetite in humans

Poster 122: P122
Seeking new biomarkers of atherogenesis in an atherogenic-prone down-sized pig model and their relevance in a cardiometabolic risk human cohort using LC-MS/MS lipidomics

Poster 123: P123
MS-based targeted metabolomics of eicosanoids and other oxylipins: analytical variability and interlaboratory comparison

Poster 124: P124
Migrating from PLS to Artificial Neural Networks – Adapting Interpretation Strategies

Poster 125: P125
Identification of biomarkers in Attention Deficit with Hyperactivity Disorder (ADHD)

Poster 126: P126
Metabolic signatures of urinary schistosomiasis and pharmacometabolomics of praziquantel treatment efficacy in children from rural Côte d'Ivoire

Poster 127: P127
Metabolomics at the top: Characterizing hypoxic responses and chronic mountain sickness in the highest city of the world

Poster 128: P128
Input of deep phenotyping in the metabolic syndrome stratification

Poster 129: P129
The circulating metabolites in the progression to islet autoimmunity and type 1 diabetes

Poster 130: P130
Milk molecular species of triacylglycerols characterized by lipidomic approach in cows and goats fed diets supplemented with various lipid sources

Poster 131: P131
Genome-scale metabolic modeling of human CD4+ T cells reveals ceramides as metabolic signature of Th17 and regulatory T-cell differentiation
Poster 132: P132
How metabolomic data support an innovative read across approach for safety assessment in cosmetics

Poster 133: P133
LC-MS-based semi-targeted lipidomics method: Application to the discovery of lipid biomarkers in diabetes

Poster 134: P134
Optimization of fecal NMR-based metabolomics to study the developing infant gut

Poster 135: P135
Biomarkers involved in glioma development in Drosophila melanogaster model

Poster 136: P136
Differential Mobility Separation Enhances the Quantification of Lysoosphatidic Acid in Plasma

Poster 137: P137
The Ichem’Algae ANR project: Untargeted chemotyping of algae bank by GC-MS and non invasive vibrational spectroscopy

Poster 138: P138
Prolonged Exposure to Milk Casein Results in Depressive Behaviour, Impaired Brain Development and Altered Metabolism in Wistar Rats

Poster 139: P139
Assessment of the Substrate Biodegradability in Anaerobic Co-digestion using a Metabolomic Approach

Poster 140: P40
Comparative metabolomics in Mamiellales

Poster 141: P41
Deciphering B. methanolicus metabolism for a one carbon-based production platform

Poster 142: P142
A Community-led Initiative to Develop and Promote Quality Assurance and Quality Control in Untargeted Metabolomics Research: the metabolomics Quality Assurance and quality Control Consortium (mQACC)

Poster 143: P43
Analysis of Endophytic Colletotrichum sp. strains by MALDI-TOF mass spectrometry and t-SNE Molecular Networking

Poster 144: P44
Fungal endophyte exo-metabolites alter the morphology and metabolome of the plant pathogen Fusarium graminearum: an LC-MS based metabolomics approach to unravel the biocontrol effect

Poster 145: P145
Evaluation of micro Pillar Array Columns (µPAC™) Combined with High Resolution Mass Spectrometry for Lipidomics

Poster 146: P146
Chemical mappings for the flowers of Abeliophyllum distichum using metabolomics tools

Poster 147: P147
METABOLOMIC INSIGHT IN THE RESPONSES OF STREAM BIOFILMS TO THE HERBICIDE DIURON AND ITS MODULATION BY ENVIRONMENTAL FACTORS

Poster 148: P148
The Power of MS/MSALL Acquisition for High-Throughput Metabolomics Studies

Poster 149: P149
Exploring a volatonomic-based strategy to study Lavendula semiochemicals

Poster 150: P150
Plasma metabolomics to identify biomarkers of foie gras quality in mule duck

Poster 151: P151
Effect of organic fertiliser on metabolic profile of hydroponically cultivated tomato
Poster 152: P152
Tackling the antioxidant metabolomics of white wine

Poster 153: P153
Metabolomics approach reveals disruption of metabolic pathways in the marine bivalve Mytilus galloprovincialis exposed to WWTP effluent

Poster 154: P154
Molecular networking as a novel approach to unravel chemical diversity of Dinophysis spp. from French coastal waters

Poster 155: P155
Fast quantitative 2D NMR for targeted and untargeted lipidomics and metabolomics.

Poster 156: P156
4D-Lipidomics investigation of in C. elegans daf-2 mutants related to ageing and longevity

Poster 157: P157
Lipid profiling to identify changes in lipid metabolism in Caenorhabditis elegans upon starvation

Poster 158: P158
High speed untargeted 4D-Lipidomics LC-MS/MS workflows with Parallel Accumulation Serial Fragmentation (PASEF)

Poster 159: P159
Electrospray Ionization and samples complexity in Meta-metabolomics: a biomarker or a suppressed ion?

Poster 160: P160
Experimental strategy to discover new bioactive lipopeptides produced by gut microbiota: unknownknown approach by LC-HRMS.

Poster 161: P161
Novel UHPLC-MS method for detailed analysis of lipid species using a scheduled MS/MS acquisition approach for improved metabolite annotation

Poster 162: P162
Ammonium fluoride as suitable additive for HILIC-based LC-HRMS metabolomics

Poster 163: P163 Metabolomics profiles of Annona species cultivated in Egypt by using bioassay-guided fractionation process as antiproliferative agent.

Poster 164: P164
Targeting Esterified Oxylipins – Optimized Sample Preparation for LC-MS Analysis

Poster 165: P165
Stability of total oxylipins – influence of plasma generation and long-term storage

Poster 166: P166
Understand the metabolic crosstalk in photosymbiosis

Poster 167: P167
Molecular networks as a metabolomic tool to link traditional uses to biological activities and potential valuation of Polynesian plants

Poster 168: P168
A New Tool in Metabolomics: SWATH® Acquisition Analysis for Global Profiling and Quantitation

Poster 169: P169
How to automate boring lipidomic extraction?

Poster 170: P170
Development of lipidomic profiling by SFC-HRMS

Poster 171: P171
Parsimonious 13C Metabolic Flux Analysis
Poster 172: P172
The development of microbore UHPLC-MS assays to enhance sensitivity of untargeted metabolomic analysis of mammalian biofluids.

Poster 173: P173
MeTaQuaC: Quality Control Measures for Targeted Metabolomics Studies

Flash Poster 1: F1
Characterising the bidirectional biomolecular interactions between the intestinal microbiota and host drug metabolism

Flash Poster 2: F2
Rapid kinetics of lipid second messengers controls secretion in Toxoplasma parasites

Flash Poster 3: F3
Searching for differential metabolites between Mycobacterium tuberculosis and the MTBVAC vaccine using non-targeted approach metabolomics

Flash Poster 4: F4
Elicitor-specific reprogramming of potato's metabolome

Flash Poster 5: F5
Biosource-guided network annotation and visualization for untargeted metabolomics

Flash Poster 6: F6
Recommending substructures for unknown tandem mass spectra

Flash Poster 7: F7
Towards precision diagnostics: Untargeted metabolomics for the diagnosis of inborn errors of metabolism in individual patients

Flash Poster 8: F8
Metabolic maturation in the first two years of life in resource-constrained settings and its association with postnatal growth

Flash Poster 9: F9
Rapid LA-REIMS and comprehensive UHPLC-HRMS for metabolomics of biofluids in metabolic disorders
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