

Tuesday January 21st 2020

Workshop day
University of Toulouse

9:00 am - 12:00 pm	W1: Interactive tutorial - How to process LC-MS data with workflow4metabolomics.org	
12:00 pm - 1:00 pm	LUNCH BREAK - ON YOUR OWN	
	Parallel Workshop A (room TBA)	Parallel Workshop B (room TBA)
1:00 pm - 3:45 pm	W2: metaRbolomics hackathon plus	
4:00 pm - 6:00 pm	W4: Advanced approaches for the analysis of metabolomics data	2:45 pm - 4:00 pm W5: How to chair sessions
6:00 pm - 6:30 pm	BREAK	
6:30 pm - 8:00 pm	Social event : Toulouse walking tour	
8:30 pm - 10 pm	W6: Meet the editor	

Wednesday 22nd 2020

Auditorium Marthe Condat

9:00 am - 9:30 am	Opening Ceremony	
	Methodological & Technological developments Chairs: Justine Leenders & Marta Cascante	
9:30 am - 10:15 am	Plenary 1: From analytical chemistry to clinical metabolomics: reflections on the experimental workflow using adrenal cancer and hypervitaminosis A case studies <i>Rick Dunn, UK</i>	
10:15 am - 10:35 am	O1: Compact NMR spectroscopy and advanced pulse sequences: the perfect match for the online and real-time monitoring of bioprocesses <i>Jonathan Farjon, France</i>	
10:35 am - 11:00 am	Coffee break	
	Microbiology & Biotechnologies Chairs: Alison Woodward & Karl Burgess	
11:00 am - 11:20 am	O2: ScalaFlux: a scalable approach to quantify fluxes in metabolic subnetworks <i>Pierre Millard, France</i>	
11:20 am - 11:40 am	O3: Rational optimization of a novel synthetic pathway for methanol utilization in <i>E. coli</i> <i>Camille Peiro, France</i>	
11:40 am - 11:55 am	F1: Characterising the bidirectional biomolecular interactions between the intestinal microbiota and host drug metabolism <i>Marine Letertre, UK</i>	
	F2: Rapid kinetics of lipid second messengers controls secretion in <i>Toxoplasma</i> parasites <i>Nicholas Katris, France</i>	
	F3: Searching for differential metabolites between <i>Mycobacterium tuberculosis</i> and the MTBVAC vaccine using non-targeted approach metabolomics <i>Caridad Díaz Navarro, Spain</i>	
11:55 am - 12:10 pm	S1: Sciex : A New Tool in Metabolomics: SWATH® Acquisition Analysis for Global Profiling and Quantitation <i>Joerg Schlotterbec, Sciex</i>	
12:10 pm - 1:00 pm	Lunch & Posters	
1:00 pm - 1:45 pm	Lunch & Posters	Career information
1:50 pm - 2:20 pm	Lunch & Posters	S2: Bruker lunch seminar. TBA
	Agriculture & Food Chairs: Loic Mervant & Steffen Neumann	
Chair:	Plenary 2: Physical inactivity and preservation of muscle mass: Lessons from hibernation <i>Etienne Lefai, France</i>	
3:15 pm - 3:35 pm	O4: Mass Spectrometry Imaging (MALDI-MSI) and LC-MS/MS reveal spatial distribution of metabolic responses to <i>Leptosphaeria maculans</i> infection in stems of <i>Brassica napus</i> <i>Anani Amegan Missinou, France</i>	

3:35 pm - 4:05 pm	Keynote 1: Insights from integration of metabolomics data in large-scale plant metabolic models <i>Zoran Nikoloski, Germany</i>
4:05 pm - 4:20 pm	F4: Elicitor-specific reprogramming of potato's metabolome <i>Rafaela Martin, France</i>
	F5: Biosource-guided network annotation and visualization for untargeted metabolomics <i>Santiago Codesido, Switzerland</i>
	F6: Recommending substructures for unknown tandem mass spectra <i>Youzhong Liu, Belgium</i>
4:20 pm - 5:00 pm	Coffee break

Statistical & Computational developments

Chairs: Sara Tortorella & Lorraine Brennan

5:00 pm - 5:20 pm	O5: Mix it up! How to combine multiple LC-MS modes and design of experiments to understand multifactorial biological phenomena <i>Victor Gonzalez Ruiz, Switzerland</i>
5:20 pm - 5:35 pm	EC1: ASICS: identification and quantification of metabolites in complex 1H NMR spectra <i>Gaëlle Lefort, France</i>
5:35 pm - 5:55 pm	O6: Modelling intrahepatic metabolic rewiring during the onset of obesity using arterio-venous blood metabolomics profiles <i>Nathalie Poupin, France</i>
5:55 pm - 6:10 pm	S3: Shimadzu . Profiling experiments with DIA on the Ultra-Fast Q-TOF LCMS-9030 <i>Thierry Legoupil</i>
6:10 pm - 8:00 pm	Welcome drinks & Posters

Thursday 23rd 2020

Auditorium Marthe Condat

Methodological & Technological developments

Chairs: Jordi Capellades & Pietro Franceschi

9:00 am - 9:45 am	Plenary 3: Spatial metabolomics in untargeted and quantitative studies <i>Ingela Lanekoff, Sweden</i>
9:45 am - 10:05 am	O7: Coupling metabolomic information coming from both LC-MS and Imaging-MS to characterize experimental induction of coral larvae metamorphosis <i>Alain Paris, France</i>
10:05 am - 10:25 am	O8: NMR metabolomics: a new tool in forensic sciences <i>Emanuela Locci, Italy</i>
10:25 am - 10:40 am	EC2: Machine learning-based classification to improve Gas Chromatography-Mass Spectrometry data processing <i>Yoann Gloaguen, Germany</i>
10:40 am - 11:05 am	Coffee break

Human health

Chairs: Corentine Goossens & Matej Oresic

11:05 am - 11:35 am	Keynote 2: Unveiling the metabolic phenotypes and vulnerabilities underlying metastasis and drug resistance <i>Marta Cascante, Spain</i>
11:35 am - 11:50 am	EC3: High throughput untargeted surface metabolite profiling of formalin-fixed paraffin embedded (FFPE) brain tumour tissue microarrays (TMA) using LESA-MS/MS and OrbiSIMS <i>Joris Meurs, UK</i>
11:50 am - 12:05 pm	EC4: Computational modeling of p53 metabolic functions <i>Carlo De Blasio, France</i>
	F7: Towards precision diagnostics: Untargeted metabolomics for the diagnosis of inborn errors of metabolism in individual patients <i>Kulkarni Purva, NL</i>

12:05 pm - 12:20 pm	F8: Metabolic maturation in the first two years of life in resource-constrained settings and its association with postnatal growth <i>Natasa Giallourou, UK</i>
	F9: Rapid LA-REIMS and comprehensive UHPLC-HRMS for metabolomics of biofluids in metabolic disorders <i>Lieven Van Meulebroek, Belgium</i>
12:20 pm - 1:30 pm	Lunch & Posters
1:30 pm - 2:00 pm	Lunch & Posters S4: Thermo lunch seminar Escape the Identity Crisis with Intelligence Driven Mass Spectrometry <i>Amanda Souza, Marketing Manager, Life Sciences Mass Spectrometry & Anas Kamleh, Sales Support Expert - Thermo Fisher Scientific</i>

Environmental science & Plants

Chairs: Sylvain Dechaumet & Anne-Emmanuelle Hay

2:00 pm - 2:30 pm	Keynote 3: Environmental Cheminformatics: Case Study of Thirdhand Smoke in House Dust <i>Emma Schymanski, Luxembourg</i>
2:30 pm - 2:50 pm	O9: Relating metabolomics and yield in a network of experiments <i>Sylvain Prigent, France</i>
2:50 pm - 3:10 pm	O10: Understanding the regulation of proline content in source leaves of winter oilseed rape by using transcriptomic and 15N-isotope tracing approaches <i>Younes Dellèro, France</i>
3:10 pm - 3:25 pm	S5, Waters: Multi-dimensional Metabolomics using Ion Mobility Workflows – Future Advances <i>Sarah Lennon, Waters</i>
3:25 pm - 4:00 pm	Coffee break

Methodological & Technological developments

Chairs: Youzhong Liu & Patrick Giraudeau

4:00 pm - 4:45 pm	Plenary 4: TBA <i>Marcel Utz, UK</i>
4:45 pm - 5:05 pm	O11: Coupling UPLC-MS with Microdialysis for Metabotyping Burn Injury <i>Elizabeth Want, UK</i>
5:05 pm - 5:20 pm	EC5: Proton detected 31P NMR methods for metabolomics <i>Neil Cox, France</i>
5:20 pm - 5:40 pm	O12: The power of LC-MS based multiomics to explore human adipogenesis <i>Evelyn Rampler, Austria</i>
5:40 pm - 7:15 pm	Posters Session
8:00 pm - 12:00 am	Gala Dinner

Friday 24th 2020

Auditorium Marthe Condat

Environmental science

Chairs: Natasa Giallourou & Serge Rudaz

9:00 am - 9:30 am	Keynote 4: Prenatal chemical exposure modulates neonatal serum phospholipids, increasing later risk of type 1 diabetes <i>Tuulia Hyötyläinen, Sweden</i>
9:30 am - 9:50 am	O13: TheWormJam 2019 vintage - New developments in the international research community for <i>C. elegans</i> systems biology and metabolic modelling <i>Horst Joachim Schirra, Australia</i>
9:50 am - 10:05 am	EC6: Child multi-omics signatures of the early life exposome <i>Léa Maitre, Spain</i>
10:05 am - 10:35 am	Coffee break

Human health

Chairs: Kate Gallagher & Justine Bertrand Michel

10:35 am - 11:20 am	Plenary 5: Lipidomics signatures of metabolic diseases <i>Maria Fedorova, Germany</i>
11:20 am - 11:40 am	O14: Optimisation of Biofluid and Tissue Metabolite and Lipid Extraction for Clinical Metabolic Phenotyping <i>Andrew Southam, UK</i>
11:40 am - 12:00 pm	O15: Integrated metabolomics and transcriptomics analysis of intra-tumour heterogeneity in paediatric brain tumours <i>Alison Woodward, UK</i>
12:00 pm - 12:20 pm	O16: Identifying novel activators of regulatory T-cell metabolism <i>Celia Berkers, The Netherlands</i>
12:20 pm - 12:35 pm	Closing Ceremony & Awards

O: Oral Presentation - **EC:** Early Career oral presentation - **F:** Flash presentation (180 seconds) - **S:** Sponsor presentation