JANUARY 22 - 24, 2020

REME

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TOULOUSE, FRANCE

WITH THE PARTICIPATION OF EUROPEAN REGIONAL NETWORKS

ORAL AND POSTER ABSTRACTS



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)





	Wednesday 22nd 20	20
	Auditorium Marthe Condat	
8:00 am - 9:00 am	Registration open	
9:00 am - 9:30 am	Opening Ceremony	
	Methodological & Technological de	evelopments
	Chairs: Justine Leenders & Marta	
	Plenary 1: From analytical chemistry to clinical	
9:30 am - 10:15 am	workflow using adrenal cancer and hypervitamin	nosis A case studies
	Rick Dunn, UK	oulse sequences: the perfect match for the online
10:15 am - 10:35 am	and real-time monitoring of bioprocesses	buse sequences. the perfect match for the online
10.15 am - 10.55 am	Jonathan Farjon, France	
10:35 am - 11:00 am		e break
	Microbiology & Biotechnol	ogies
	Chiars: Alison Woodward & Kar	
11:00 am - 11:20 am	O2: ScalaFlux: a scalable approach to quantify fluxes in metabolic subnetworks	
	Pierre Millard, France	
	O3: Rational optimization of a novel synthetic p	athway for methanol utilization in E. coli
11:20 am - 11:40 am	Camille Peiro, France	
	F1: Characterising the bidirectional biomolecular interactions between the intestinal microbiota	
	and host drug metabolism	
	Marine Letertre, UK	
11:40 am - 11:55 am	F2: Rapid kinetics of lipid second messengers controls secretion in Toxoplasma parasites	
	Nicholas Katris, France F3: Searching for differential metabolites between Mycobacterium tuberculosis and the MTBVAC	
	-	
	vaccine using non-targeted approach metabolomics	
	Caridad Díaz Navarro, Spain	Acquisition Analysis for Global Profiling and
11:55 am - 12:10 pm	S1: Sciex : A New Tool in Metabolomics: SWATH® Acquisition Analysis for Global Profiling and Quantitation	
	Joerg Schlotterbec, Sciex	
12:10 pm - 1:00 pm		& 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	
	-	leumann
	Chairs: Loic Mervant & Steffen N	
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Chair:	Chairs: Loic Mervant & Steffen N Plenary 2: Physical inactivity and preservation o Etienne Lefai, France	of muscle mass: Lessons from hibernation
Chair: 3:15 pm - 3:35 pm	Chairs: Loic Mervant & Steffen N Plenary 2: Physical inactivity and preservation of	of muscle mass: Lessons from hibernation d LC-MS/MS reveal spatial distribution of
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	Thursday 23rd 202		
	Auditorium Marthe Condat Methodological & Technological de		
	Chairs: Jordi Capellades & Pietro	•	
9:00 am - 9:45 am	Plenary 3: Spatial metabolomics in untargeted a Ingela Lanekoff, Sweden	and quantitative studies	
9:45 am - 10:05 am	07: Coupling metabolomic information coming from both LC-MS and Imaging-MS to characterize experimental induction of coral larvae metamorphosis Alain Paris, France		
10:05 am - 10:25 am	O8 : NMR metabolomics: a new tool in forensic s Emanuela Locci, Italy	ciences	
10:25 am - 10:40 am	EC2: Machine learning-based classification to improve Gas Chromatography-Mass Spectrometry data processing Yoann Gloaguen, Germany		
10:40 am - 11:05 am		e break	
	Human health		
11:05 am - 11:35 am	Chairs: Corentine Goossens & Ma Keynote 2: Unveiling the metabolic phenotypes drug resistance Marta Cascante, Spain		
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 Joris Meurs, UK		
11:50 am - 12:05 pm	EC4: Computational modeling of p53 metabolic Carlo De Blasio, France	EC4: Computational modeling of p53 metabolic functions	
12:05 pm - 12:20 pm	 F7: Towards precision diagnostics: Untargeted metabolomics for the diagnosis of inborn errors of metabolism in individual patients <i>Kulkarni Purva, NL</i> 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 		
12.20 mm 1.20 mm	Lieven Van Meulebroek, Belgium	2 Desteur	
12:20 pm - 1:30 pm 1:30 pm - 2:00 pm	Lunch & Posters	& Posters S4: Thermo lunch seminar Escape the Identity Crisis with Intelligence Driven Mass Spectrometry Amanda Souza, Marketing Manager, Life Sciences Mass Spectrometry & Anas Kamleh, Sales Support Expert - Thermo Fisher Scientific	
	Environmental science & P		
	Chairs: Sylvain Dechaumet & Anne-En Keynote 3: Environmental Cheminformatics: Ca		
2:00 pm - 2:30 pm	Emma Schymanski, Luxembourg		
2:30 pm - 2:50 pm	O9 : Relating metabolomics and yield in a netwo <i>Sylvain Prigent</i> , France	rk of experiments	
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 Younes Dellèro, France		
3:10 pm - 3:25 pm	S5, Waters : Multi-dimensional Metabolomics u Sarah Lennon, Waters	sing Ion Mobility Workflows – Future Advances	
3:25 pm - 4:00 pm		e break	
	Methodological & Technological de Chairs: Youzhong Liu & Patrick G		
4:00 pm - 4:45 pm	Plenary 4: Micro-NMR for Metabolomic Observa Marcel Utz, UK		
4:45 pm - 5:05 pm	O11 : Coupling UPLC-MS with Microdialysis for N <i>Elizabeth Want, UK</i>	Aetabotyping Burn Injury	
5:05 pm - 5:20 pm	EC5: Proton detected 31P NMR methods for metabolomics Neil Cox, France		
5:20 pm - 5:40 pm	012 : The power of LC-MS based multiomics to explore human adipogenesis <i>Evelyn Rampler, Austria</i>		
5:40 pm - 7:15 pm 8:00 pm - 12:00 am	Posters Session Gala Dinner		



Friday 24th 2020		
	Auditorium Marthe Condat	
	Environmental science	
	Chairs: Natasa Giallourou & Serge Rudaz	
	Keynote 4: Prenatal chemical exposure modulates neonatal serum phospholipids, increasing	
9:00 am - 9:30 am	later risk of type 1 diabetes	
	Tuulia Hyötyläinen, Sweden	
	O13: TheWormJam 2019 vintage - New developments in the international research community	
9:30 am - 9:50 am	for <i>C. elegans</i> systems biology and metabolic modelling	
	Horst Joachim Schirra, Australia	
0.50 am 10.05 am	EC6: Child multi-omics signatures of the early life exposome	
9:50 am - 10:05 am	Léa Maitre, Spain	
10:05 am - 10:35 am	Coffee break	
Human health		
	inuman nearth	
	Chairs: Kate Gallagher & Justine Bertrand Michel	
10:35 am - 11:20 am		
10:35 am - 11:20 am	Chairs: Kate Gallagher & Justine Bertrand Michel	
10:35 am - 11:20 am	Chairs: Kate Gallagher & Justine Bertrand Michel Plenary 5: Lipidomics signatures of metabolic diseases	
10:35 am - 11:20 am 11:20 am - 11:40 am	Chairs: Kate Gallagher & Justine Bertrand Michel Plenary 5 : Lipidomics signatures of metabolic diseases Maria Fedorova, Germany	
	Chairs: Kate Gallagher & Justine Bertrand Michel Plenary 5: Lipidomics signatures of metabolic diseases Maria Fedorova, Germany O14: Optimisation of Biofluid and Tissue Metabolite and Lipid Extraction for Clinical Metabolic Phenotyping Andrew Southam, UK	
11:20 am - 11:40 am	Chairs: Kate Gallagher & Justine Bertrand Michel Plenary 5: Lipidomics signatures of metabolic diseases Maria Fedorova, Germany 014: Optimisation of Biofluid and Tissue Metabolite and Lipid Extraction for Clinical Metabolic Phenotyping Andrew Southam, UK 015: Integrated metabolomics and transcriptomics analysis of intra-tumour heterogeneity in	
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