## THURSDAY, NOVEMBER 9<sup>TH</sup>, 2023

10:00 - 11:00	Registration	
11:00 – 11:20	Welcome & Introduction (GIDRM, IMaSS, IMN)	
SESSION 1 Ch	airpersons: Turano Paola and Andrea Armirotti	
11:20 – 12:00	<u>Plenary I:</u> <b>Roy Goodacre</b> , President of the Metabolomics Society Lessons from large-scale metabolic phenotyping	
12:00 – 12:20	Angela Bachi BACE2 regulates lipid metabolism in cancer	
12:20 – 12:40	Andrea Bernini Metabolomics of an iconic disease: alternative biotransformations in alkaptonuria	
12:40 – 13:00	Laura Brunelli The plasma nutrimetabolomics fingerprints in frail elderly: assessing the dietary habits by mass spectrometry	
13:00 – 13:20	Nicola Cavallini Tracing the identity of Parmigiano Reggiano "Prodotto di Montagna – Progetto Territorio" cheese using NMR spectroscopy and multivariate data analysis	
13:20: 14:20	LUNCH AND NETWORKING	
SESSION 2 Chairpersons: Sara Tortorella and Antonio Randazzo		
14:20 – 14:40	<b>Giorgia Ciufolini</b> Exo and endometabolomics unveil metabolic differences in 2D vs. 3D cell culture models for cholangiocarcinoma cell lines	
14:40 – 15:00	Giulia De Simone Shedding Light on Riboflavin: Investigating its Impact on Tumor-Associated Macrophages Polarization in Colorectal Liver Metastasis	
15:00 – 15:20	Elena Ferrari Metabolomes of breast cancer cell lines highlight the differences in the metabolic reprogramming of diverse tumour subtypes	
15:20 – 15:40	Mar Garcia-Aloy Boosting annotation confidence in untargeted lipidomics experiments by the use of complementary chemical properties	
15:40 – 16:00	Veronica Ghini COVID-19: a complex disease with a unique metabolic signature	

## 16:00- 17:00 COFFEE BREAK AND POSTER SESSION I

SESSION 3 Chairpersons: Federica Dal Bello and Michele Remo Chierotti

17:00 – 17:40	Plenary II: Adele Mucci, University of Modena and Reggio Emilia  Tissue metabolomics and HR-MAS NMR
17.40 40.00	
17:40 – 18:00	Nunzia laccarino

Multi-organ and plasma metabolomics for evaluating the effects of different gadolinium-based contrast agents in mice

18:00 – 18:20 Nara Liessi

The exploration of the cystic fibrosis bronchial epithelium lipidome

## FRIDAY, NOVEMBER 10<sup>TH</sup>, 2023

SESSION 4 Chairpersons: Roberta Pastorelli and Daniel Cicero

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9:30 – 10:10	<u>Plenary III:</u> <b>Pedro Mena</b> , University of Parma  An Italian metabolomics journey: from phytochemical fingerprinting to precision nutrition	
10:10 – 10:30	<b>Emanuela Locci</b> <i>PMI estimation through an NMR metabolomic approach on animal ocular Biofluids</i>	
10:30 – 10:50	Carmen Marino Could serum metabolite concentration predict connectomes' brain parameters?	
10:50 – 11:10	<b>Giuseppe Martano</b> Unlocking Molecular Insights: The Evolution of Untargeted Metabolomics Analysis with Mass Spectrometry Imaging	
11:10 – 11:40	COFFEE BREAK AND POSTER SESSION II	
SESSION 5 Chairpersons: Adele Mucci and Giuseppe Pieraccini		
11:40 – 12:00	Vittoria Matafora Opti-nQL: An Optimized Nano-LC Method for LC/MS Lipidomics Analysis	
12:00 – 12:20	Gianfranco Picone	

The MABEL project: Metabolomics Approach for the assessment of Baby-Mother Enteric microbiota Legacy. A Preliminary Pilot Study

12:20 – 12:40 *Mattia Sozzi* 

Italian Hazelnut Authentication and Traceability: Fusing Nuclear Magnetic Resonance and Chromatography Data for Robust Analysis

12:40 – 13:00	Martina Spada Glutaminase-1 inhibitor CB-839 affects proliferation, cell cycle, and energetic metabolism in colorectal cancer cells
13:00 – 14:00	LUNCH AND NETWORKING
14:00 – 16:00	Meeting IMN