

Metabolomics and Integrative omics: from data production to analysis

Bari, 28-29 April 2022

<i>Organizers</i>	Sergio Giannattasio (IBIOM-CNR) Duccio Cavalieri (UNIFI) Clara Musicco (IBIOM-CNR) Allegra Via (IBPM-CNR, ELIXIR-IT) Francesca De Leo (IBIOM-CNR, ELIXIR-IT) Loredana Lepera (ISS, ELIXIR-IT)
Program	
12:00 – 12:30 (Thursday)	Intro: Sergio Giannattasio, Duccio Cavalieri and Graziano Pesole (UNIBA, HoN ELIXIR Italy)
12:30 – 13:00	<i>LC-MS Metabolomics and Biomarkers Exposure</i> Lars Ove Dragsted (ELIXIR Denmark)
13:00 – 14:00	Lunch
14:00 – 14:30	<i>Untargeted NMR metabolomics for disease fingerprinting and biomarker discovery</i> Leonardo Tenori (UNIFI)
14:30 – 15:00	<i>LC-MS metabolomics: from data extraction to system level integration</i> Pietro Franceschi (FEM), Duccio Cavalieri (UNIFI)
15:00 – 15:30	<i>Metabolomics: The essential tool of omics in “one health” studies</i> Danilo Porro (IBFM-CNR, UNIMIB), Daniela Gaglio (IBFM-CNR)
15:30 – 15:45	<i>The myriad applications of metabolomics from Antarctic rock to microplastics from urine to Covid</i> Anna Maria Timperio (UNITUS)
15:45 – 16:00	<i>Metabolomic approach to identify antiviral defense mechanisms in leukocytes showing in vitro IgG memory from SARS-CoV-2-infected patients</i> Giuseppina Fanelli (UNITUS)
16:00 - 16:30	Coffee Break
16:30 - 18:00	<i>Roundtable: Sample collection and preparation: impact on the quality of the data</i> Veronica Ghini (CIRMMP, CERM - UNIFI)
20:30	Social dinner

9:00 – 09:30 (Friday)	<i>HRMS Data Elaboration: From Features to Compounds</i> Igor Fochi (Thermo Fisher Scientific)
9:30 – 10:00	<i>Databases of Metabolomics data</i> Christoph Steinbeck (ELIXIR Germany)
10:00 – 10:30	<i>FAIR Data and Metadata Management</i> Stefania Savoi (UNITO)
10:30 – 11:00	Coffee Break
11:00 – 13:00	<i>Example of a metabolomics workflow and data analysis</i> Igor Fochi (Thermo Fisher Scientific), Bruno Fosso (UNIBA), Fabrizio Mastrorocco (IBIOM-CNR)
13:00 – 14:00	Lunch
14:00 – 16:00	<i>Roundtable on selected case studies</i>