

Spatial OMICs: *between challenges and opportunities*



Torino, 10 March 2025

Molecular Biotechnology Center (MBC)

Room Leonardo

Via Nizza 52, 10126 Torino

Spatial OMICs: *between challenges and opportunities*

10 marzo 2025

Sede:

10.00: Institutional Greetings

Prof. Chiara Riganti (Scientific Organizer)

Prof. Michele Caraglia (AICC President)

Prof. Emilio Hirsch (Director, Molecular Biotechnology Center “Guido Tarone”)

Prof. Enzo Terreno (Director, Department of Molecular Biotechnology and Health Sciences)

Prof. Cristian Fiori (Director, Department of Oncology)

Session 1: Pros and cons of spatial OMICS in biological research

10.15-10.45: **Valentina Proserpio** (University of Torino)

Which are the best spatial OMICS for my scientific research?

10.45-11.15: **Andrew Smith** (University of Milano Bicocca)

Adding a molecular dimension to pathology with spatial omics

11.15-11.45: **Luca Alessandri** (University of Torino)

TBD

Session 2: New technological solutions: how the market meets researchers' demands

Technical talks from companies

11.45-12.00: **Daniela NATALE** (StandardBioTools)

Unlocking new views in spatial biology with Imaging Mass Cytometry

12.00-12.15: **Andres RAMIREZ** (10X Genomics)

Molecular Tri-section of a tumour

12.15-12.45: **Dusan ZANCEK & Ivan MASETTO** (Akoya & Aurogene)

TBD

12.45-13.00: **Beatrice SALVATORI** (Negedia)

Exploring Multi-Omics: Cutting-Edge Solutions to Decode Biology and Unveil Molecular Interactions in Development, Differentiation, and Disease

13.00-14.00: **Lunch break and networking I**

Session 3: Multi-spatial OMICS: a step forward in research and diagnosis

14.00-14.30: **Peter Kreuzaler** (University of Koeln)

One size doesn't fit them all - Mass Spectrometric Imaging in cancer and immunity

14.30-15.00: **Nina Ogrinc** (Leiden University Medical Center)

Single-cell metabolic profiling of the tumor microenvironment by combining mass spectrometry imaging with imaging mass cytometry

15.00-15.30: **Giacomo Donati** (University of Torino)

Deciphering wound memory with single cell and spatial transcriptomics

15.30-16.00: **Katia Grillone** (University "Magna Grecia" of Catanzaro)

CRISPR screening meets spatial omics: innovative approach for cancer research

16.00-16.30: **Towards the future challenges: concluding remarks**

16.30-18.00: **Networking II ***

**If you would like to have a one-to-one meeting in this post-meeting session with the speakers or the sponsors, please book your slot at the registration desk*