

**Spatial OMICs:
*between challenges and opportunities***



Torino, 10 March 2025

Molecular Biotechnology Center (MBC)

Room Leonardo

Via Nizza 52, 10126 Torino

Meeting registration: starting at 9.00

9.45: Institutional Greetings

Prof. Chiara Riganti (Scientific Organizer)

Prof. Michele Caraglia (AICC President)

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

Prof. Enzo Terreno/Prof. Andrea Graziani (Department of Molecular Biotechnology and Health Sciences)

Session 1: Pros and cons of spatial OMICS in biological research (*Chairs: Enrico De Smaele, Emanuele Monteleone*)

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

Spatial information integrated with expression profiles of individual cells

10.45-11.15: **Peter Kreuzaler** (University of Koeln)

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

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

Reproducibility in spatial transcriptomics analysis

Session 2: New technological solutions: how the market meets researchers' demands
(Chairs: Francesca Zazzeroni, Joanna Kopecka)

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 ZENCAK** (Akoya)

Spatial Proteomics at Your Scale, from Discovery to the Clinic

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

13.00-13.15: **Euplio Visco** (Bio-Techne)

Expand your Multiomic Capabilities with RNAscope™

13.15-14.15: **Lunch break and free networking**

Session 3: Spatial multi-OMICS: a step forward in research and diagnosis (Chairs: Maria TERSA DI MARTINO, IRIS CHIARA SALAROGGIO)

14.15-14.45: **Andrew Smith** (University of Milano Bicocca)

Adding a molecular dimension to pathology with spatial omics

14.45-15.15: **Nina Ogrinc** (Leiden University Medical Center)

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

15.15-15.45: **Giacomo Donati** (University of Torino)

Deciphering wound memory with single cell and spatial transcriptomics

15.45-16.15: **Katia Grillone** (University "Magna Grecia" of Catanzaro)

CRISPR screening meets spatial omics: innovative approach for cancer research

16.15-16.30: **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*