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Istituto di Ricovero e Cura a Carattere Scientifico

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1ST IMMUNOREPERTOIRE AND BIOLOGICS DEVELOPMENT CONFERENCE HYBRID EVENT

JUNE 18th-19th 2026

IRST IRCCS

"Dino Amadori", Meldola

Scientific Coordinator

Massimiliano Mazza

Scientific Committee

Patricia Borges de Souza

Miriana Ghirelli

Massimiliano Mazza

Lucia Mazzotti

Fabio Nicolini

**Organizing
Secretariat**



FACULTY

- Adejumo Thomas** - Diatech Pharmacogenetics
- Amoriello Roberta** - Università di Firenze, Florence, Italy
- Benati Daniela** - Università di Modena e Reggio Emilia, Modena, Italy
- Bonini Chiara** - Ospedale San Raffaele, Milan, Italy
- Borges de Souza Patricia** - IRST IRCCS "DINO AMADORI", Meldola, Italy
- Bourquard Thomas** - MabSILICO, Tours, France
- Cattaneo Chiara Maria** - IRCCS Istituto Clinico Humanitas, Milan, Italy
- Chenchik Alex** - President and chief scientific officer of Cellecta
- Criscuoli Mattia** - Field Application Specialist - Genomics, Bio-Rad Laboratories
- Croce Giancarlo** - Ludwig Institute University of Lausanne, Lausanne, Swiss
- Facciotti Federica** - Università di Milano Bicocca, Milan, Italy
- Flumens Donovan** - University of Antwerp, Antwerp, Belgium
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- Robins Harlan** - Adaptive Biotechnologies, Seattle, Washington, Stati Uniti
- Rosati Scalchi Elisa** - GSK, Rixensart, Belgium
- Roscilli Giuseppe** - Takis Biotech, Rome, Italy
- Terragna Carolina** - Policlinico Sant'Orsola-Malpighi, Istituto di Ematologia "L.A.Seràgnoli", Bologna, Italy
- Tradori Andrea** - Regional Sales Specialist, Cell Biology, Bio-Rad Laboratories
- Zara Chiara** - Product Manager, Miltenyi Biotec

SCIENTIFIC PROGRAM

DAY 1

13:15 Opening remarks from the organising committee and institutions

Session I: TCR Repertoire and TCR-Based Therapeutics

Chairs:

Federica Facciotti

Lucia Mazzotti

13:30 Opening Session Lecture

Chiara Bonini

Genome editing of T cells for cancer immunotherapy

14:00 **Federica Facciotti**

Off-the-Shelf Therapeutic Potential of Unconventional T Cell Subsets

14:30 **Anna Pasetto**

Finding Needles in the Haystack: Discovery of Neoantigen-Specific TCRs

15:00 **Donovan Flumens**

Specific TCRs to Target Acute Myeloid Leukemia

15:30 **Coffee Break**

16:00 **Samuele Notarbartolo**

Single-Cell and Clonal Insights into the Molecular Circuits Governing Human Memory CD8⁺ T-Cell Differentiation

16:30 **Alex Chenchik**

Next-Generation Immune Receptor Profiling: Discovering and Tracking Antigen-Driven Clonotypes

17:00 **Daniela Benati**

Advancing TCR Engineering with CRISPR: Non-Viral Approaches for MAGE-A1⁺ Melanoma

17:30 **Chiara Maria Cattaneo**

Paving the way to precision immunoncology: advancing cell therapies for solid tumors

18:15 **Meldola Castle Guided Tour**

20:00 **Conference Dinner**

Participants will gather at the historic Meldola Fortress, offering a unique cultural setting for dinner, informal discussion, and networking.

SCIENTIFIC PROGRAM

DAY 2

08:00 Welcome Coffee

Session II: Bioinformatics and Computational Immunology Chairs

Pieter Meysman
Tommaso Mazza

08:30 Opening Session Lecture

Pieter Meysman

Using artificial intelligence to identify health and disease-specific patterns in T-cell receptor repertoires

09:00 Harlan Robins

Large scale training data for antigen receptor binding and advancement of ML models

09:30 Elisa Rosati Scalchi

From Immune Repertoires to Real-World Applications: TCR-Driven Innovation in Discovery and Clinical Translation

10:00 Roberta Amoriello

Approaching TCR repertoire diversity in autoimmunity: from experiment to computation

10:30 Giancarlo Croce

Phage Display Enables Machine Learning Discovery of Cancer Antigen-Specific TCRs

11:00 Coffee Break

11.30 Thomas Bourquard

Leveraging AI to decode BCR Repertoires for Disease-Agnostic Theranostic Discovery

12:00 Stanislav Poslavsky

Beyond clonal dominance: signatures of selection in In Vivo and In Vitro antibody repertoires

12:30 Tommaso Mazza

Computational Approaches to Optimize Immune Receptor Interactions in Cancer Therapy

13:00 Duccio Medini

A Universal AI Design Framework and Brokerage Platform for Democratized Manufacturing of mRNA Therapeutics

13:30 Light Lunch

Sponsor Break Talk session

Chairs

Massimiliano Mazza
Fabio Nicolini

14:30 Sponsor Break Talk BioRad -

Mattia Criscuoli, Andrea Tradori
Methodological Strategies for T-Cell Analysis in Cancer

14:50 Sponsor Break Talk Diatech -

Thomas Adejumo

Decoding Cellular Function: Next-Gen Antibody and Immunotherapy through Real-time Profiling on the Beacon Discovery

15:10 Sponsor Break Talk Miltenyi Biotec -

Chiara Zara

Sensitive detection and isolation of HCMV-specific T cells in the context of stem cell transplantation using MHC multimers

15.30 Sponsor Break Talk Biotechne -

Fabrizio Rinaldi

Analytical instruments to accelerate your CGT discoveries

SCIENTIFIC PROGRAM

Session III: BCR Repertoire and Antibody-Based Therapeutics

Chairs

Duccio Medini

Massimiliano Mazza

15:50 Opening Session Lecture

Carolina Terragna

ClonoSEQ: Clinical Applications and Perspectives

16.20 Stefano Gullà

Tumor derived B cells as source of therapeutic antibodies and tumor associated targets

16.50 Giuseppe Roscilli

From Antibody Discovery to Engineered Biologics: Translating Immune Recognition into Cancer Therapeutics

17.20 Concluding remarks & conference in numbers

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**IN-PERSON PARTICIPATION FEE FOR BOTH
EVENT DAYS (JUNE 18/19): € 35.00**

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CALL FOR ABSTRACTS

The best abstracts will be selected by the scientific committee and will receive a special discount for publication in the Research Topic "[New avenues for the development of advanced immunotherapies: capitalizing on studies of the B and T cell receptor repertoire - Volume II,](#)" published by Frontiers in Immunology.

Submit to: <https://forms.gle/65RDuP1T83JPcea7>

DEADLINE: June 4th

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