



# AIRC-IFOM Joint Meeting 2024 From Biological Mechanisms to New Therapies

Milano, June 26-27, 2024



## DAY 1 - JUNE 26

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**08:00** Registration

**08:45** Introduction and greetings

**09:00 - 13.40**

### SESSION 1: UNDERSTANDING CANCER MECHANISMS

**09:00 Keynote Speaker**

**John Dick**, Princess Margaret Cancer Center, University Health Network, Toronto  
What makes a stem cell a stem cell and how does it go bad?

09:35 **Chiara Ambrogio**, Università degli Studi di Torino

Novel RAS(ON) inhibitors overcome clinical resistance to KRAS G12C covalent blockade

09:55 **Francesco Cecconi**, Fondazione Policlinico Universitario Agostino Gemelli IRCCS

The integrated role of selective autophagy in controlling cell division and metabolism

10:15 **Giorgia Foggetti**, Università Vita-Salute San Raffaele

Unveiling Novel Therapeutic Targets in Lung Adenocarcinoma

**10:35 Coffee Break**

**11:05 Keynote speaker**

**Alessandra Boletta**, Università Vita-Salute San Raffaele

Metabolic Reprogramming During Epithelial Transformation in the Kidney

11:40 **Federico Gulluni**, Università degli Studi di Torino

A phosphoinositide diffusion barrier prevents aneuploidy and tumorigenesis

12:00 **Marina Mapelli**, Istituto Europeo di Oncologia I.R.C.C.S. S.r.l.

Molecular cross-talk between epithelial polarity and fate determination maintains intestinal crypt integrity

12:20 **Giorgio Scita**, IFOM - Istituto Fondazione di Oncologia Molecolare, ETS

Tissue fluidification in breast cancer progression

**12:40 Selected short talks**

**Marta Massari**, Università degli Studi di Pavia

Discovery of the first-in-class inhibitor of NADPH oxidases and their activities against cancer cell models

**Carmen Miano**, Istituto Nazionale di Biostrutture e Biosistemi  
ERBB2 overexpression bypasses negative feedback mechanisms triggered by EGFR overactivation in basal-like/triple-negative breast cells

**Giorgia Miloro**, Istituto Europeo di Oncologia I.R.C.C.S. S.r.l.  
Molecular tethers involved in inter-organelle communication controlling EGFR signaling

**Teresa Noviello**, Università degli Studi di Napoli "Federico II"  
The clonal landscape of melanoma brain metastases

**Rosa Pennisi**, Istituto di Candiolo - Fondazione del Piemonte per l'Oncologia (FPO) - I.R.C.C.S.

Exploiting alterations of membrane trafficking proteins to tackle metabolic reprogramming in cancer

**Martina Sarchi**, Università degli Studi di Pavia

Mis-splicing of mitotic genes sensitizes malignant stem cells to CHK1 inhibition in SF3B1-mutant myeloid neoplasms

### 13:40 Lunch

15:00 - 17:35

## SESSION 2: TRANSLATING DISCOVERIES INTO THE CLINICS

### 15:00 Keynote Speaker

**Nicholas Papadopoulos**, Johns Hopkins University, Baltimore  
Liquid Biopsy for the early detection of cancer

15:35 **Pier Paolo Di Fiore**, Istituto Europeo di Oncologia I.R.C.C.S. S.r.l.  
Endocytosis and cancer

15:55 **Francesca Fornari**, Alma Mater Studiorum Università di Bologna  
MicroRNA-494 induces metabolic reprogramming through G6pc targeting and represents a promising circulating biomarker for treatment stratification in hepatocellular carcinoma

16:15 **Gianluca Mauri**, IFOM - Istituto Fondazione di Oncologia Molecolare, ETS  
Blood based molecular profiles to monitor therapy response and MRD in CRC

### 16:35 Selected short talks

**Amandine Billaud**, IFOM - Istituto Fondazione di Oncologia Molecolare, ETS  
Large meta-analysis and precision functional assays identify two FANCM regions where PTVs confer different risks for ER-negative and triple-negative breast cancer

**Giorgia Iegiani**, Università degli Studi di Torino  
Targeting citron kinase catalytic activity for high grade brain tumors treatment

**Mirco Masi**, Fondazione Istituto Italiano di Tecnologia  
Intrinsic synergism of RAD51-BRCA2 disruptor RS-35d enantiomers as proof of concept for the novel within-pathway synthetic lethality paradigm in pancreatic cancer

**Tiziana Ottone**, Università degli Studi di Roma "Tor Vergata"  
Leukemic stem cells in FLT3-ITD-positive acute myeloid leukemia: disease reservoir and recurrence promoter

**Angelica Persia**, Ospedale Policlinico San Martino - IRCCS per l'Oncologia  
Metabolic and immunological effects of a "short-term modified fasting" (STMF) regimen in patients with a cancer diagnosis and receiving active treatment.

**Alice Romagnoli**, Università Politecnica delle Marche  
Tackling translational control in cancer: structural and functional characterization of novel EIF4E-binding inhibitor

**17:35 Get together with drinks**

## DAY 2 – JUNE 27

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**08:30** Welcome

**08:50** Introduction and greetings

**09:00 - 10:00**

### SESSION 2: TRANSLATING DISCOVERIES INTO THE CLINICS

09:00 **Lara Paracchini**, Humanitas Mirasole S.p.A.

Genomic instability analysis of DNA derived from Papanicolaou test for the early detection of ovarian cancer

09:20 **Antonella Sistigu**, Università Cattolica del Sacro Cuore

Epigenetics behind tumor immunology: IFN-I-KDM1B axis at the forefront of tumor progression and immune evasion

09:40 **Martina Sollini**, Università Vita-Salute San Raffaele

Radiopharmaceuticals targeting the tumor microenvironment

**10:00 Coffee Break**

**10:30 - 16:10**

### SESSION 3: IMMUNOLOGY AND IMMUNOTHERAPY

**10:30 Keynote Speaker**

**Alexander Rudensky**, Ludwig center Memorial Sloan-Kettering Cancer Center, NYC  
Regulatory T cells in Cancer

11:05 **Beatrice Bodega**, Università degli Studi di Milano

Transposable elements dynamics regulate T cell function within tumor microenvironment

11:25 **Maria Chiara Bonini**, Università Vita-Salute San Raffaele

Genome editing of T cells to target solid tumors

11:45 **Stefano Casola**, IFOM - Istituto Fondazione di Oncologia Molecolare, ETS

B cell receptor and lymphomas: too good is bad, too weak is worse

**12:05 Selected short talks**

**Silvia Carnevale**, Università Humanitas

Neutrophils mediate protection against colitis and carcinogenesis by controlling bacterial invasion and IL-22 production by  $\gamma\delta$  T cells

**Verena Damiani**, Ospedale Pediatrico Bambino Gesù

High-throughput phenotypic screening platform reveals new anti-cancer immunomodulators to make high-risk neuroblastoma patients responsive to immunotherapy approaches

**Marco Notaro**, Università Vita-Salute San Raffaele

Genetically armed macrophages eliminate liver metastases by expanding and reprogramming tumor-reactive T cells

## **12:35 Lunch**

14:05 **Maria Rosaria Galdiero**, Università degli Studi di Napoli "Federico II"

Neutrophils and Neutrophil Extracellular Traps: at the crossroads between inflammation and cancer

14:25 **Silvia Piconese**, Università degli Studi di Roma "La Sapienza"

Treg immunometabolism in cancer: T cell-intrinsic roles of BRCA1 in tumor immunity

14:45 **Antonio Sica**, Humanitas Mirasole S.p.A.

Metabolic Diversion of Immune Response in Cancer Patients

## **15:05 Selected short talks**

**Domenico Supino**, Humanitas Mirasole S.p.A.

IL-1R8 acts as an immune checkpoint in CD8+ T cells, limiting cytokine-induced anti-tumor immune responses

**Mattia Toninelli**, IFOM - Istituto Fondazione di Oncologia Molecolare ETS

Charting the immune landscape and communication axes in metastatic colorectal cancer with spatial transcriptomics

## **15:35 Keynote Speaker**

**Franco Locatelli**, Ospedale Pediatrico Bambino Gesù, Rome

Immunotherapy of Cancer with Gene-Modified Cells: Challenges and Opportunities

## **16:10 - 17:00 CONCLUSIONS**



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**From Biological Mechanisms to New Therapies**

Milano, June 26-27, 2024



**IFOM**  
**Via Adamello, 16**  
**20139, MILAN**

## **HOW TO GET THERE**

### **TRAM 24**

direction "Vigentino"

from Duomo P.zza Fontana (9 stops)

from Crocetta Corso di Porta Vigentina (5 stops) STOP: Via Ripamonti - Via Lorenzini

Walk along Via Serio until you cross Via Adamello

### **UNDERGROUND**

Stop Lodi (MM3)

## **NEARBY HOTELS**

Grand Visconti Palace <https://www.grandviscontipalace.com/>

Best Western Hotel Major <https://www.bwhotelmajor-mi.it/>

Hotel Palladio <https://www.hotelpalladio.net/>

Hotel Piacenza <https://www.hotelpiacenza.com/>

Please note that the organizing secretariat will not provide assistance for travel bookings.

## **CONTACT US**

### **Secretariat**

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