



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

Milano, June 26-27, 2024



DAY 1 - JUNE 26

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

Rosaria 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
TBD

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

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
TBD

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

TBD

16:10 - 17:00 CONCLUSIONS