

XXI NIBIT MEETING

PALERMO

October 17-19, 2024

Teatro Politeama



NIBIT BOARD

Paola Allavena, Milano - IT
Paolo Ascierto, Napoli - IT
Vincenzo Bronte, Padova - IT
Giulia Casorati, Milano - IT
Pier Francesco Ferrucci, Milano - IT
Marina Garassino, Chicago - USA
Anna Mondino, Milano - IT
Paola Nisticò, Roma - IT
Antonio Sica, Milano - IT
Claudio Tripodo, Palermo - IT

LOCAL SCIENTIFIC COMMITTEE

Beatrice Belmonte, Palermo - IT
Antonio Russo, Palermo - IT
Claudio Tripodo, Palermo - IT

FACULTY

Sergio Abrignani	Istituto Nazionale di Genetica Molecolare INGM (Milano, IT)
Beatrice Belmonte	Università degli Studi di Palermo (Palermo, IT)
Matteo Benelli	Università degli Studi di Firenze (Firenze, IT)
Federica Benvenuti	International Centre for Genetic Engineering and Biotechnology ICGEB (Trieste, IT)
Giampaolo Bianchini	Università Vita-Salute San Raffaele (Milano, IT)
Giovanni Blandino	Istituti Fisioterapici Ospitalieri IFO (Roma, IT)
Christian Blank	The Netherlands Cancer Institute NKI (Amsterdam, NL)
Tullia C. Bruno	University of Pittsburgh, Hillman Cancer Center (Pittsburgh, USA)
Chiara Cattaneo	Istituto Scientifico San Raffaele (Milano, IT)
Ciro Celsa	Università degli Studi di Palermo (Palermo, IT)
Roberto Chiarle	Università di Torino (Torino, IT)
Mario Colombo	Istituto Nazionale dei Tumori (Milano, IT)
Giuseppe Curigliano	Università degli Studi di Milano (Milano, IT)
Lorenzo D'Ambrosio	Università di Torino (Torino, IT)
Edoardo D'Imprima	Humanitas Research Hospital (Milano, IT)
Elvira d'Ippolito	Technical University of Munich (Munich, D)
Francesco Dieli	Università degli Studi di Palermo, (Palermo, IT)
Anna Dimberg	Uppsala University (Uppsala, S)
Mahmood Faisal	Harvard Medical School (Boston , USA)
Roberto Ferrara	Istituto Scientifico San Raffaele (Milano, IT)
W. Hervé Fridman	University of Paris (Paris, FR)
Dmitry Gabrilovich	Astra Zeneca (Gaithersburg, USA)
Massimiliano Pagani	Università degli Studi di Milano (Milano, IT)
Salvatore Piscuoglio	Humanitas University (Milano, IT)
Maria Rescigno	Humanitas University (Milano, IT)
Antonio Rosato	Università degli Studi di Padova (Padova, IT)
Antonio Russo	Università degli Studi di Palermo (Palermo, IT)
Catherine Sautès-Fridman	University of Paris (Paris, FR)
Roberta Sommaggio	Università degli Studi di Padova (Padova, IT)
Sheila Spada	Istituto Nazionale dei Tumori Regina Elena (Roma, IT)
Anna Sureda	Institut Català d'Oncologia (Barcelona, SP)
Inge Marie Svane	Copenhagen University Hospital (Copenhagen, D)
Marcella Tazzari	Istituto Romagnolo per lo Studio dei Tumori (Meldola, IT)

Thursday, October 17

12.00 Registration opens

13.45 Welcome addresses
Introduction of the Junior Faculty

SESSION 1 – Cellular Therapies: present and future

Chairs: G. Casorati, R. Sommaggio

14.15 How Cellular Therapy Strategies Look Like
for Lymphomas in 2024?
Anna Sureda

Prime time for adoptive T-cell therapy
for metastatic melanoma
Inge Marie Svane

Generating engineered T-cell products for therapy
Elvira d'Ippolito

SESSION 2 – Organoids and Tissue Fragments at the forefront of Personalized Oncology

Chairs: A. Sica, M. Tazzari

15.30 Augmenting precision oncology using
tumor-derived 3D models
Salvatore Piscuoglio

Personalized Adoptive Cell for Solid Tumors:
towards a new patient-tailored treatment option
Chiara Cattaneo

Tumor organoid platforms to test cancer
precision medicine
Giovanni Blandino

16.45 Coffee break

Thursday, October 17

17.15 Selected Oral Presentations

Francesco De Sanctis (Università di Verona)

Expression of the membrane tetraspanin claudin 18 on cancer cells promotes T lymphocyte infiltration and antitumor immunity in pancreatic cancer

Elisa Cappuzzello (Istituto Oncologico Veneto, Padova)

A feasible alternative to CD19-CAR T lymphocytes: the potential of cytokine-induced killer (CIK) cells combined with anti-CD19/20 antibodies

Gloria Delfanti (Istituto Scientifico San Raffaele, Milano)

Empowering iNKT cell anti-tumor properties for adoptive immunotherapy of metastatic colon cancer

Teresa Manzo (Università di Torino, Milano)

LSD1 inhibition improves efficacy of adoptive T-cell therapy by enhancing CD8+ T-cell responsiveness

Chiara Porta (Università del Piemonte Orientale, Novara)

EZH2-dependent epigenetic reprogramming modulates the immune infiltrate of human pleural mesothelioma spheroids

Elisa Sangiovanni (Istituto Scientifico San Raffaele, Milano)

Generation and validation of novel mono and bispecific peptide-redirected chimeric antigen receptors for pancreatic ductal adenocarcinoma

18.45 Poster Walk 1

Coordinators: R. Ferrara and the NIBIT Board

Welcome Reception

Making connections:

Spontaneous Gathering for Early Career Researchers

Di Martino Villa - Palermo

Friday, October 18

SESSION 3 – AI and Digital Pathology at the forefront of personalized diagnostics

Chairs: H. Fridman, C. Tripodo

9.00

The potential of correlative light-electron microscopy to study diseases in organoids

Edoardo D'Imprima

Multimodal, Generative and Agentic AI for Pathology

Mahmood Faisal

Integrating phenotypical and genomic approaches to decipher the tumor-immune landscape

Antonio Rosato

10.15 Coffee break

10.45 Selected Oral Presentations

Anna Tosi (Istituto Oncologico Veneto, Padova)

Innovative spatial profiling of early triple-negative breast cancer landscape to shed light on unexpected outcomes

Alessandra Metelli (Istituto Nazionale Tumori Regina Elena, Roma)

Tissue factor augments TGF- β signaling in cancer cells by modulating plasma membrane tension and receptor dynamics

Luigi Nezi (Istituto Europeo di Oncologia, Milano)

Long-term longitudinal analysis of the gut microbiota during anti-PD-1 therapy reveals stable microbial features of response in melanoma patients

11.30 Spatial predictors of immunotherapy response in triple-negative breast cancer
Giampaolo Bianchini

12.00 Poster Walk 2
Coordinators: L. D'Ambrosio and the NIBIT Board

Lunch

Friday, October 18

SESSION 4 - TLS and Microenvironment interactions as Regulators of Anti-Cancer Immunity

Chairs: B. Belmonte, P. Nisticò

14.00

Decoding the Multidimensional Landscape of the CRC Ecosystem by Spatial Transcriptomics
Massimiliano Pagani

Harnessing B cells inside and outside of tertiary lymphoid structures for improved therapeutics
Tullia C. Bruno

Impact of intratumoral heterogeneity on spatial organization of the tumor microenvironment and response to immunotherapy
Catherine Sautès-Fridman

Tailoring tumor vessels to promote tertiary lymphoid structures and anti-tumor immunity in glioblastoma
Anna Dimberg

15.45

Selected Oral Presentations

Valeria Cancila (Università di Palermo, Palermo)
Targeting ATR to overcome T-cell exclusion and enhance immunotherapy in diffuse large B-cell lymphomas through modulation of the dark zone microenvironment

Nicla Porciello (Istituto Nazionale dei Tumori Regina Elena, Roma)
Integrating spatial transcriptomics and organotypic tissue slices to chart the non-small cell lung cancer tumor immune microenvironment

Paola Cappello (Università di Torino, Torino)
HFE polymorphism impacts on pancreatic cancer progression and the antitumor immune response

16.30

Coffee break

17.00

Pezcoller Lecture

Chairman: M. P. Colombo

Myeloid cells in cancer: old challenges and new opportunities
Dmitry Gabrilovich

18.00

NIBIT GENERAL ASSEMBLY

20.30

Social Dinner

Saturday, October 19

SESSION 5 – Vaccines and beyond

Chairs: A. Mondino, S. Spada

8.30

New therapeutic strategies for vaccine development
Maria Rescigno

Type 1 DC regulate local antitumoral responses
in lung cancer
Federica Benvenuti

Novel immunotherapies for ALK+ tumors
Roberto Chiarle

9.45

Selected Oral Presentations

Federica Riccardo (Università di Torino, Torino)

Targeting chondroitin sulfate proteoglycan 4 with DNA vaccination:
unlocking new potential in combination treatments for melanoma

Giuseppina Barutello (Università di Torino, Torino)

Discovery of the teneurin-4 prometastatic role in triple-negative
breast cancer and design of gene-based vaccines to halt lung
metastasis in preclinical models

Mariam Shallak (Università dell'Insubria, Varese)

CIITA-mediated MHC-II expression in glioblastoma unveils MHC-II-bound
tumor-specific peptides for protective anti-tumor vaccination

10.30

Coffee Break

SESSION 6 – Clinical Perspectives: Translational, Platform, Basket and Neoadjuvant Trials

Chairs: P. F. Ferrucci, A. Russo

10.45

Neoadjuvant Immunotherapy in Melanoma:
the next steps
Christian Blank

Immunotherapy for hepatocellular carcinoma:
from bench to bedside
Ciro Celsa

Saturday, October 19

New options in breast cancer: immunotherapy
and drug conjugates

Giuseppe Curigliano

12.00

Selected Oral Presentations

Giuseppe Damiano (Istituto Scientifico San Raffaele, Milano)

Analysis of antitumor immune responses induced by simvastatin plus anti-PD1 in mice and human melanomas

Laura Cogrossi (Istituto Scientifico San Raffaele, Milano)

High fiber dietary intervention in plasma cell dyscrasias improves disease biomarkers and delays progression to myeloma

Anna Maria Corsale (Università di Palermo, Palermo)

Dysfunctional bone marrow and circulating $\gamma\delta$ T-cells were indicators of a higher probability of advancing from pre-malignant plasma cell dyscrasias to symptomatic multiple myeloma

12.45

Keynote Lecture

Chairman: F. Dieli

Functional interrogation of intratumoral
T lymphocytes

Sergio Abrignani

13.45

NIBIT Awards

14.00

Final remarks, snack lunch & adjourn

GENERAL INFORMATION

VENUE

Teatro Politeama Garibaldi
Piazza Ruggiero Settimo 15
Palermo

SOCIAL DINNER

The Social Dinner will be held on **October 18**, at **Le Terrazze del Sole**
The attendance is open to all registered participants to the XXI NIBIT Meeting and the cost is **€ 50,00 VAT included** per person

HOW TO BECOME A NIBIT MEMBER

If you wish to become a member of NIBIT Association, please visit
https://nibit.org/iscrizioni_nibit.php
The rate is € 50,00 / year

C.M.E. ACCREDITATION

Provider: Achelois Srl – ID 7362
The Congress was granted **14 C.M.E. credits** from the Italian Ministry of Health for the following specialties:

Physicians specialized in allergology and clinical immunology, pathological anatomy, clinical biochemistry, general surgery, thoracic surgery, palliative care, dermatology and venerology, hematology, general practice medicine, internal medicine, oncology, radiotherapy.
Biologists.
Biomedical laboratory technician.



Achelois – Professional Congress Organiser

Via Larga 8 – 20122 Milano | Tel. 02 5006 3031 | e-mail: elena.delboca@achelois.eu

AUSPICES



ALLEANZA
CONTRO
IL CANCRO



Fondazione
Grazia **F**ocacci



ASSOCIAZIONE
MeLa Gioco
ONLUS



FONDAZIONE
ITALIANA
LINFOMI



Fondazione
Pezcoller



Società Italiana di Immunologia
Immunologia Clinica e Allergologia

ACKNOWLEDGEMENTS

EuroClone[®]

