

FINAL PROGRAM

VIRTUAL XVIII NIBIT MEETING

COVID-19 at the intersection
between cancer, immunity and immunotherapy



www.nibit.org

October 15-16, 2020

UNDER THE AUSPICES OF



FONDAZIONE AIRC
PER LA RICERCA SUL CANCRO



Fondazione
Grazia **F**ocacci



Fondazione
Pezcoller



SOCIETÀ ITALIANA DI CANCEROLOGIA



ACKNOWLEDGMENTS



NIBIT SCIENTIFIC COMMITTEE AND FACULTY

NIBIT SCIENTIFIC COMMITTEE

Paolo Ascierto (Napoli, Italy)
Matteo Bellone (Milano, Italy)
Marco Bregni (Milano, Italy)
Vincenzo Bronte (Verona, Italy)
Mario Paolo Colombo (Milano, Italy)
Massimo Di Nicola (Milano, Italy)

Pier Francesco Ferrucci (Milano, Italy)
Marina Garassino (Milano, Italy)
Paola Nisticò (Roma, Italy)
Antonio Rosato (Padova, Italy)
Vincenzo Russo (Milano, Italy)
Antonio Sica (Milano, Italy)

FACULTY

Raza Ali - University of Cambridge (Cambridge, UK)
Andrea Alimonti - ETH Zurich Institute of Oncology Research (Zurich, Switzerland)
Paola Allavena - Humanitas Research Hospital (Rozzano - MI, Italy)
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Vincenzo Barnaba - Università La Sapienza (Roma, Italy)
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Giulio Cavalli - Università Vita-Salute San Raffaele (Milano, Italy)
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Karin de Visser - Netherlands Cancer Institute (Amsterdam, The Netherlands)
Paolo Dellabona - IRCCS Ospedale San Raffaele (Milano, Italy)
Giuseppe Di Lucca - IRCCS Ospedale San Raffaele (Milano, Italy)
Massimo Di Nicola - IRCCS Istituto Nazionale dei Tumori (Milano, Italy)
Claudio Doglioni - Università Vita-Salute San Raffaele (Milano, Italy)
Pier Francesco Ferrucci - Istituto Europeo di Oncologia IEO (Milano, Italy)
Wolf-Herman Fridman - Université Paris Descartes (Paris, France)
Enzo Galligioni - Fondazione Pezcoller (Trento, Italy)
Alessandra Gennari - Università del Piemonte Orientale (Novara, Italy)
Antonio Lanzavecchia - Institute for Research in Biomedicine (Bellinzona, Switzerland)
Ann Leen - Baylor College of Medicine (Houston, USA)
Paola Nisticò - IFO Istituto Regina Elena (Roma, Italy)
Drew Pardoll - John Hopkins Bloomberg - Kimmel Institute for Cancer Immunotherapy (Baltimore, USA)
Concetta Quintarelli - Ospedale Pediatrico Bambino Gesù (Roma, Italy)
Maria Rescigno - Humanitas University (Milano, Italy)
Cliona Rooney - Texas Children's Hospital (Houston, USA)
Antonio Rosato - Università degli Studi di Padova (Padova, Italy)
Vincenzo Russo - IRCCS Ospedale San Raffaele (Milano, Italy)
Catherine Sautes-Fridman - UPMC Sorbonne Université (Paris, France)
Antonio Sica - Humanitas Research Hospital (Rozzano - MI, Italy)
Suzanne Topalian - John Hopkins Bloomberg - Kimmel Institute for Cancer Immunotherapy (Baltimore, USA)
Valter Torri - Istituto di Ricerche Farmacologiche Mario Negri - IRCCS (Milano, Italy)
Giorgio Trinchieri - National Cancer Institute (Bethesda, USA)
Claudio Tripodo - Università degli Studi di Palermo (Palermo, Italy)

13:00 Connection to the virtual meeting

13:45 Welcome addresses

SESSION 1. COVID-19 AND CANCER (NIBIT-AIOM JOINT SESSION)

Discussants: Matteo Bellone, Giuseppe Di Lucca, Alessandra Gennari, Claudio Tripodo

14:00 **Claudio Doglioni** (Milano, Italy)
COVID-19 seen by a pathologist

14:20 **Valter Torri** (Milano, Italy)
COVID-19 in lung cancer

14:40 **Maria Rescigno** (Milano, Italy)
Microbiota, COVID susceptibility and cancer

15:00 **Andrea Alimonti** (Bellinzona, Switzerland)
TMPRSS2 in prostate cancer and COVID-19

15:20 Discussion

15:40 End of Session 1

SESSION 2. B CELLS IN COVID-19 AND CANCER

Discussants: Vincenzo Barnaba, Mario Paolo Colombo, Paolo Dellabona

15:50 **Silent Poster Trailer A**

16:00 **Antonio Lanzavecchia** (Bellinzona, Switzerland)
Antibody response in COVID-19

16:20 **Catherine Sautes-Fridman** (Paris, France)
TLS as pillar of cancer immunity

16:40 Discussion

17:00 End of Session 2

SESSION 3. INNATE IMMUNITY IN COVID-19 AND CANCER (NIBIT-SIICA JOINT SESSION)

Discussants: Giulia Casorati, Marco Cassatella, Vincenzo Russo, Antonio Sica

17:10 **Silent Poster Trailer B**

17:20 **Vincenzo Bronte** (Verona, Italy)
Innate immune cells in COVID-19 and cancer

17:40 **Karin de Visser** (Amsterdam, Netherlands)
Dissecting cancer cell-intrinsic mechanisms dictating the immune landscape of metastatic breast cancer

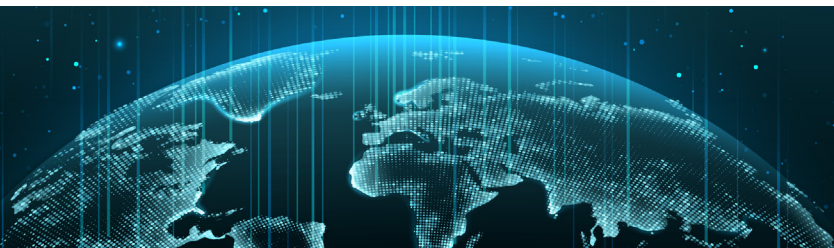
18:00 Discussion

18:20 End of Session 3

NIBIT KEYNOTE LECTURE

Chairman: Mario Paolo Colombo

18:30 **Giorgio Trinchieri** (Bethesda, USA)
Exploiting the microbiome for the benefit of cancer patients



Poster Session 1.*Discussant: Vincenzo Bronte, Mario Paolo Colombo, Antonio Rosato***PART I**

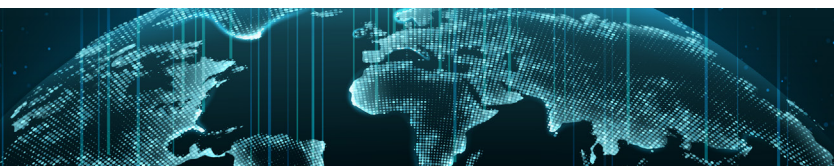
- 09:00 **Abbass Darwich** - Humanitas University (Milano, Italy)
Identification of CH13L1 as a soluble immune checkpoint promoting resistance to HER2 targeted therapy by impairing NK cell cytotoxicity
- 09:10 **Francesca Hofer** - Università degli Studi di Verona (Verona, Italy)
The Disabled homolog 2 controls pro-metastatic activity of tumor-associated macrophages
- 09:20 **Milena Perrone** - IRCCS Istituto Nazionale dei Tumori (Milano, Italy)
Activating Transcription Factor 3 functionally reprograms the bone marrow niche to sustain breast cancer
- 09:30 **Anna Pastò** - Humanitas Research Hospital (Rozzano - MI, Italy)
Host immunity regulates cancer cell stemness

PART II

- 09:55 **Antonella Sistigu** - Università Cattolica del Sacro Cuore (Roma, Italy)
Type I IFN signaling as a driver of cancer stemness
- 10:05 **Paola Trono** - Institute of Biochemistry and Cell Biology, CNR (Roma, Italy)
hMENA^{17a} loss regulates PD-L1 expression by activating the viral sensor RIG-I and inflammatory response
- 10:15 **Arianna Calcinotto** - IRCCS Ospedale San Raffaele (Milano, Italy)
CD4+ T cells sustain aggressive chronic lymphocytic leukemia in Eμ-TCL1 mice through a CD40L-independent mechanism
- 10:25 **Claudia Enriquez** - IRCCS Istituto Nazionale dei Tumori (Milano, Italy)
Castration-induced SPARC down-regulation in stromal cells drives neuroendocrine differentiation of prostate cancer

Poster Session 2.*Discussant: Paola Nisticò, Antonio Sica*

- 10:40 **Francesco Manfredi** - Università Vita-Salute San Raffaele (Milano, Italy)
The T Cell Exhaustion Signature Can Guide the Identification of Patient-Derived, TumorReactive TCRs and Promote TCR Gene Editing for AML
- 10:50 **Chiara Porta** - Università del Piemonte Orientale "A. Avogadro" (Novara, Italy)
Tumor-derived prostaglandin E2 promotes p50 NF-κB-dependent differentiation of monocytic MDSC
- 11:00 **Roberto Ferrara** - IRCCS Istituto Nazionale dei Tumori (Milano, Italy)
Circulating and tumour associated neutrophil subtypes discriminate hyperprogressive disease (HPD) from conventional progression (PD) upon immune checkpoint inhibitors (ICI) in advanced non-small cell lung cancer (NSCLC) patients (pts) and in vivo models
- 11:10 **Anna Tosi** - Università degli Studi di Padova (Padova, Italy)
Multiplex Immunofluorescent analysis of Luminal B breast cancer (BC) immune microenvironment in patients treated with neoadjuvant chemotherapy and immunotherapy: results of the phase II GIADA trial
- 11:20 **Giulia Galli** - IRCCS Istituto Nazionale dei Tumori (Milano, Italy)
Lipid metabolism shapes the efficacy of immunotherapy in non small cell lung cancer patients
- 11:30 **Roberta Zappasodi** - Memorial Sloan Cancer Kettering Centre (New York, USA)
CTLA-4 blockade drives Treg glucose metabolism and loss of functional stability in glycolysis - defective tumors



Poster Session 3.*Discussant: Massimo Di Nicola, Pier Francesco Ferrucci*

- 11:45 **Gloria Delfanti** - IRCCS Ospedale San Raffaele (Milano, Italy)
Combinatorial adoptive immunotherapy with tumor-retargeted iNKT cells and local restimulation by nanotherapeutics for the dual targeting of cancer and tumor-supporting myeloid cells
- 11:55 **Stefano Ugel** - Università degli Studi di Verona (Verona, Italy)
Baricitinib restrains the immune dysregulation in severe COVID-19 patients
- 12:05 **Clément Anfray** - Humanitas Research Hospital (Rozzano - MI, Italy)
Polymeric nanocapsules loaded with Toll-like receptors ligands to reprogram Tumor Associated Macrophages for cancer immunotherapy
- 12:15 **Sara Bulfamante** - Università degli Studi di Torino (Torino, Italy)
Chemotherapy, but not immune checkpoint blockade, rescues effector function of peripheral T cells from pancreatic cancer patients in response to tumor associated antigens
- 12:25 **Beatrice Greco** - IRCCS Ospedale San Raffaele (Milano, Italy)
Overcoming tumor resistance induced by N-glycosylation boosts CAR T cell efficacy against solid malignancies
- 12:35 **Cristina Maccalli** - Sidra Medicine (Doha, Qatar)
Deep characterization of "Off-the-Shelf" CD19-Chimeric Antigen Receptor (CAR) T Cells Using Umbilical Cord Blood as Source of T Lymphocytes

VIRTUAL POSTER WALK

- 12:35 on <https://www.nibit.org/congress/Meeting-Proceedings/index.php>

SESSION 4. CYTOKINES AND COMPLEMENT IN CANCER AND COVID-19 (NIBIT-SIC JOINT SESSION)*Discussants: Paola Allavena, Giulio Cavalli, Claudio Tripodo*

- 14:45 **Wolf-Herman Fridman** (Paris, France)
The double edge B cells
- 15:05 **Paolo Ascierto** (Napoli, Italy)
Analogies between immune related adverse events in patients undergoing immunotherapy and cytokine storm in COVID-19
- 15:25 Discussion
- 15:45 End of Session 4

PEZCOLLER KEYNOTE LECTURE*Chairman: Mario Paolo Colombo*

- 15:50 **Enzo Galligioni** (Trento, Italy)
The Pezcoller Foundation
- 16:00 **Drew Pardoll** (Baltimore, USA)
Applying the MANAFEST platform to analyze neoantigen-specific and coronavirus-specific T cell responses at the clonal level



SESSION 5. UPDATES IN CANCER IMMUNOTHERAPY (NIBIT-ACC JOINT SESSION)*Discussants: Marco Bregni, Pier Francesco Ferrucci, Ann Leen, Concetta Quintarelli*

- 16:45 **Suzanne Topalian** (Baltimore, USA)
A role and rationale for neoadjuvant immune checkpoint blockade in cancer therapy
- 17:05 **Cliona Rooney** (Houston, USA)
Improving the function and persistence of CAR-modified T-cells in patients
- 17:25 Discussion
- 17:45 End of Session 5

SESSION 6. AT THE FOREFRONT OF TECHNOLOGY*Discussants: Vincenzo Bronte, Massimo Di Nicola, Paola Nisticò, Antonio Rosato*

- 17:50 **Raza Ali** (Cambridge, UK)
Imaging mass cytometry to understand how cells organise in the breast tumour microenvironment
- 18:10 **Cristophe Mollet** (Promega Corporation, Madison, USA)
Advanced Microsatellite Instability (MSI) in Immunotherapy
- 18:20 **Dario Armando Leone** (Miltenyi Biotec, Bergisch Gladbach, Germany)
Fully integrated solutions in inflammation and cancer research
- 18:30 **Alexandre Darmoise** (Nanostring, Seattle, USA)
A Revolution in Spatial Biomarker Discovery - Morphology-guided Tissue Profiling at the Whole Transcriptome scale with GeoMx™ DSP
- 18:45 Discussion
- 19:00 End of Session 6
- 19:00 **NIBIT AWARDS**
- 19:15 **Adjourn**



NIBIT USEFUL INFORMATION

If you wish to become a member of NIBIT Association, please visit

https://www.nibit.org/iscrizioni_nibit.php

The rate is € 50,00 / year

COMPETITION AND PRICE

Applicants <40 years of age with an abstract accepted by the Scientific Committee will be considered for the "NIBIT BASIC SCIENCE AWARD" (€ 1.000,00) and for the "NIBIT TRANSLATIONAL SCIENCE AWARD" (€ 1.000,00) and for "NIBIT CLINICAL SCIENCE AWARD" (€ 1.000,00)

ORGANISING SECRETARIAT



Achelois - Professional Congress Organiser

Via Larga 8 - 20122 Milano

Tel. 02 2643 2454

e-mail: elena.delboca@achelois.eu

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