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UNITO-POLITO CONFERENCE SERIES IN CANCER

Nanoscience in Cancer Immunotherapy

March, 9th – 11th 2021

Virtual Event

March, 9th 2021

14.30 – 14.45 – Official greetings

14.45 – 14.55 – Introduction and program presentation (Federico BUSSOLINO – Eugenio BRUSA)

OPENING LECTURE

14.55 - 15.20 - Haifa SHEN - Methodist Hospital Research Institute, Houston (TX, USA)
Therapeutic Cancer NanoVaccine

A ROLE FOR NANOSCIENCE IN CANCER IMMUNOTHERAPY
Chairs: Gloria BERLIER – Valentina CAUDA

15.20 - 15.45 - Jen MORTON - Beatson Institute, CRUK Glasgow Center, Glasgow (UK)
Exploring opportunities for immunotherapy in mouse models of pancreatic cancer

**15.45 - 16.10 - Cornelis MELIEF - Department of Immunohematology and Blood Transfusion Leiden
University Medical Center, Leiden, (NL)**
Combination immunotherapy of Cancer involving Therapeutics vaccination

16.15 - 16.45 - WORKSHOP – MERCK LIFE SCIENCE SRL
Ludivine GROSJEAN
Immunology & Oncology - A Review of Milliplex Multiplex and SMCTTM assays for
Immunology and Oncology Research



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SHORT TALKS SELECTED AMONG THE SUBMITTED ABSTRACTS

- 16.50 – 17.05 - Veronica VIGHETTO** - Zinc Oxide Nanocrystals Combined With Ultrasound For The Controlled Generation Of Reactive Oxygen Species
- 17.05 – 17.20 - Lorenzo PALLANTE** Understanding the Molecular Binding Mechanism of Colchicine Derivatives Targeting β III Human Tubulin Isootype
- 17.20 - 17.35 - Gloria DELFANTI** - Dual targeting of cancer and suppressive myeloid cells by tumor-redirected iNKT cells and antigen-carrying microparticles
- 17.35 – 17.50 - Annarita D'URSO** - In vitro and in vivo magnetic drug targeting by using biomimetic magnetite nanoparticles
- 17.50 – 18.15 - Luisa DE COLA** – Istituto di Ricerche Farmacologiche Mario Negri, Milan (I)
Nanocarriers for biomolecules delivery

18.20 – 18.40 - VIRTUAL ROOM FOR POSTER PRESENTATION

“JUST THE WOMAN I AM” KEYNOTE LECTURE

- 18.45 - 19.10 - Fiona WATT** – Centre for Stem Cells & Regenerative Medicine King's College London (UK)
Whistleblowing



March, 10th 2021

TUMOR MICROENVIRONMENT AND MODELS

Chairs: Valeria CHIONO – Clara MATTU

14.55 - 15.20 - David TING - Massachusetts General Hospital - Cancer Center, Boston (MA, USA)
Single Cell Technologies to Define Intratumoral Heterogeneity

15.20 - 15.45 - Giulia ADRIANI - Singapore Immunology Network (SIgN) Agency for Science, Technology and Research. Singapore
3D microfluidic model of tumor microenvironment for pre-clinical screening of immunotherapies

SHORT TALKS SELECTED AMONG THE SUBMITTED ABSTRACTS

15.45 - 16.00 – Chiara AMBROGIO - Novel approaches to target oncogenic KRAS complex assembly at the cell membrane

16.00 – 16.15 - Gianluca MUCCIOLO - Interleukin 17A depletion: a promising adjuvant strategy to increase DNA-vaccination efficacy in Pancreatic Ductal Adenocarcinoma treatment

16.15 - 16.45 - Kairbaan HODIVALA-DILKE - Barts Cancer Institute London, London (UK)
New routes for vascular modulation

16.45 - 17.10 - Joao MANO – Department of Chemistry - University of Aveiro, Aveiro (Portugal)
Soft biomaterials for engineering 3D cancer models

SHORT TALKS SELECTED AMONG THE SUBMITTED ABSTRACTS

17.15 - 17.30 - Martina GODEL - P-glycoprotein inhibitors as inducers of immunogenic cell death

17.30 - 17.45 - Antonino DI LORENZO - Toll-Like Receptor 2 targeting impairs breast cancer progression and overcomes resistance to chemotherapy

17.45 - 18.00 - Claudia VOENA - The perivascular niche protects ALK+ lymphoma cells from ALK inhibition through the CCL19/21-CCR7 axis

18.00 – 18.15 - Marco CAMPISI - In vitro model of ALK+ Anaplastic Large cells lymphoma and vascular interactions and prediction of drug efficacy in a 3D microfluidic chip

18.20 – 18.40 – VIRTUAL ROOM FOR POSTER PRESENTATION



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CELL-BASED IMMUNOTHERAPY

Chairs: Paola CAPPELLO – Marco Agostino DERIU

18.45 – 19.10 - Mariolina SALIO - MRC Human Immunology Unit, WIMM, University of Oxford, Oxford (UK)

Harnessing innate-like T cells in cancer immunotherapy

19.10 – 19.35 - Samuel MOK - University of Texas-MD Anderson Cancer Center, Houston (TX, USA)

Anticancer immunotherapy by MFAP5 blockade suppresses ovarian cancer progression



March, 11th 2021

MYELOID CELLS ORCHESTRATE TUMOR RESPONSE

Chair: Federico BUSSOLINO

14.30 - 14.55 - **Paola ALLAVENA** - Humanitas University, Rozzano (I)
Macrophage Reprogramming using TLR-agonist-loaded Polymeric Nanocapsules for the treatment of Cancer

14.55 - 15.20 - **Dmitry GABRILOVICH** - AstraZeneca I Oncology R&D (USA)
Regulation of tumor microenvironment by myeloid-derived suppressor cells

15.20 – 15.30 – AWARDS ASSIGNMENT

15.35 – 16.05 – WORKSHOP - FLUIDIGM

Roberto SPADA

Advancing Breakthroughs in Immuno-Oncology Research

From cell types to tissue: analyse >40 functional and phenotypic markers simultaneously on the Helios and Hyperion™ Imaging System, powered by CyTOF® technology

KEYNOTE LECTURE

16.10 – 16.35 - **Melody SWARTZ** - Pritzker School of Molecular Engineering - University of Chicago (MI, USA)

EMERGING TECHNOLOGIES IN CANCER IMMUNOLOGY

Chairs: Luca PRIMO – Alberto PULIAFITO

16.35 - 17.10 - **Massimiliano PAGANI** – IFOM (The FIRC Institute for Molecular Oncology) and UNIMI, Milan (I)
Organoid models to decipher the interplay between tumor and the immune system

17.10 - 17.35 - **Giovanni CIRIELLO** - Université de Lausanne, Lausanne, (CH)
Cancer Evolutionary Dependencies

17.35 - 18.00 - **Jérôme GALON** - Laboratory of Integrative Cancer Immunology, Sorbonne Université, Sorbonne Paris (F)
The immune contexture in the era of cancer immunotherapy

18.00 - 18.25 - **Henner FARIN** - Georg-Speyer-Haus - Institute Tumor Biology and Experimental Therapy, Frankfurt (D)
Patient-derived tumor organoids to model stromal interactions and cell-based immunotherapies

18.25 – 18.40 - Concluding Remarks - (Federico BUSSOLINO – Eugenio BRUSA)



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AIMS OF THE WORKSHOP

The Nanoscience in Cancer Immunotherapy Workshop (NCIW), to be held in Turin from March 9-11 2021, is an international meeting jointly organized by the Università and Politecnico of Turin with the aim to provide a platform for discussion on the most recent advances in tumor immunology with a focus on nano bio-technology as a strategy to foster the impact of immunotherapy on cancer treatment.

The main goal of the NCIW is to provide a challenging transdisciplinary environment where life and nano scientists can exchange their knowledge and latest findings to accelerate and improve the coordinated progress of oncology, drug development and delivery. The program covers topics from basic research in tumor immunology to the latest advancements in the design of complex tissue models and of nanotechnology based delivery systems in cancer immunotherapy.

CHAIRMEN

Eugenio BRUSA (PoliTo), Federico BUSSOLINO (UniTo)

ORGANISING COMMITTEE

Gloria BERLIER (UniTo)

Paola CAPPELLO (UniTo)

Irene CARMAGNOLA (PoliTo)

Valentina CAUDA (PoliTo)

Valeria CHIONO (PoliTo)

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FACULTY

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Paola ALLAVENA
Gabriele BERGERS
Giovanni CIRIELLO
Luisa DE COLA
Henner FARIN
Dmitry GABRILOVICH
Jérôme GALON
Kairbaan HODIVALA-DILKE
Joao MANO
Samuel MOK
Cornelis MELIEF
Jen MORTON
Massimiliano PAGANI
Mariolina SALIO
Haifa SHEN
Melody SWARTZ
David TING
Fiona WATT

SUBSCRIPTION FEE - Until 7/03/2021

€ 70,00 Standard
€ 50,00 Students or PHD Students
FREE first 100 - PHD Students - Students

ABSTRACTS

<https://www.cancerto.it/abstracts-2020/> - Deadline 7/02/2021

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