



UNIVERSITÀ  
DEGLI STUDI  
DI TORINO



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## UNITO-POLITO CONFERENCE SERIES IN CANCER

# Nanoscience in Cancer Immunotherapy

March, 9<sup>th</sup> – 11<sup>th</sup> 2021

**Virtual Event**

<https://www.cancerto.it/>

<b>March, 9<sup>th</sup> 2021</b>
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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**

**16.50 - 17.20 – SHORT TALKS SELECTED AMONG THE SUBMITTED ABSTRACTS**

17.25 - 17.50

**Anna SCHWENDEMAN** - University of Michigan Ann Arbor, USA

HDL Nanodiscs Discovery and Application for Cancer Immunotherapy



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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)



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**March, 10<sup>th</sup> 2021**

**TUMOR MICROENVIRONMENT AND MODELS**

**Chairs: Valeria CHIONO – Clara MATTU**

14.30– 14,55

**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

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

**Gabriele BERGERS - VIB-KU Leuven Center for Cancer Biology, Leuven (B)**

Creating an Immune-stimulating Tumor Microenvironment: a Vascular Perspective

**15.45 – 16.15 – SHORT TALKS SELECTED AMONG THE SUBMITTED ABSTRACTS**

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

**17.10 – 17.40 – SHORT TALKS SELECTED AMONG THE SUBMITTED ABSTRACTS**

**17.45 – 18.15 – WORKSHOP SPONSOR**

**18.20 – 18.40 – VIRTUAL ROOM FOR POSTER PRESENTATION**

**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



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**March, 11<sup>th</sup> 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**

**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



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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)**

### **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)

Valentina COMUNANZA (UniTo)

Marco DERIU (PoliTo)

Tania LIMONGI (PoliTo)

Clara MATTU (PoliTo)

Luca PRIMO (UniTo)

Alberto PULIAFITO (UniTo)

Giorgio SCAGLIOTTI (UniTo)



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## **FACULTY**

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

## **CREDITI ECM**

**N. 15 Crediti per le Professioni Sanitarie**

### **QUOTE DI ISCRIZIONE - Fino al 7/03/2021**

€ 70,00 iscrizione standard  
€ 50,00 per dottorandi  
Gratuito per tutti i dottorandi UNITO e POLITO

## **ABSTRACTS**

Le candidature dovranno essere inviate, tramite il sito [www.cancerto.it](http://www.cancerto.it), sezione Abstracts, entro il 7/02/2021

## **PROVIDER ECM**

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