

## RATIONALE

Oncology is the leading clinical field in terms of innovation when it comes to clinical trial activity, number of companies investing in the field, amount of new therapies and diagnostic tests under development, new product launches, and level of overall expenditure.

Technology plays a key role in advancing cancer patient management in all three aspects of medicine: prevention, diagnosis and treatment. Thanks to technological innovations, physicians can make more accurate and timely diagnoses, monitor patients more thoroughly and on a more personalized basis, and employ individualized, more targeted, and less invasive new therapies. In addition, technology enables the collection of large amounts of data on patients and the effectiveness of treatments, which can be analyzed using algorithms and artificial intelligence techniques to improve clinical decision-making.

The implication is that expenditure on research and development for cancer prevention, diagnosis and treatment is a significant investment worldwide. The American Cancer Society estimates that in 2021, worldwide spending on cancer research and development was \$21.5 billion. This includes expenditure by governments, academic institutions and private corporations. Through the contributions of physicians and scientists, about 23,000 active cancer clinical trials have been registered as of March 2023, according to ClinicalTrials.gov.

At an academic level, hospitals, universities and research institutes are investing substantial resources into understanding the basic biology of cancer and in pioneering new approaches to patient care management. Service companies, the pharmaceutical industry, and biotech corporations focus their attention on developing new approaches and products to prevent, diagnose, and treat cancer.

Within both of these worlds, technological advances as well as the rise of new computational capabilities enabled by artificial intelligence, machine learning, and big data will play a significant role in the future of cancer patient care management. In 2021, a record-breaking year, more new cancer drugs became available for the first time than in any other year ever (30 new cancer active ingredients launched globally), and many of these employ new technologies to improve the way patients are treated. During this meeting we will be providing the latest updates within the field of oncology with a focus on the use of new technologies for the prevention, diagnosis, treatment, and monitoring of cancer patients. This congress will host physicians, biologists, scientists, researchers, engineers, physicists, mathematicians and other experts from relevant fields.

This panel of key national and international opinion leaders will be instrumental in representing the incredible level of innovation, discussing the latest advances in the field, exploring new possibilities for the future, and discussing the issues of equal and widespread accessibility to treatment, as well as the ethical implications related to the cost of such treatments.

## SCIENTIFIC COORDINATORS

GIUSEPPE CURIGLIANO  
MICHELINO DE LAURENTIIS

## CME CREDITS

Certificate awarding 11 CME credits will be emailed within 90 days after the end of the congress. The following medical sciences have been accredited for this congress: Oncology, Radiotherapy, Pharmacists, Biology, Nurses, Pneumology, Gastroenterology, Hematology, Pathological Anatomy

## EDUCATIONAL GOALS

Technical-professional contents (knowledge and skills) specific to each profession, each specialization and each ultra-specialised activity, including rare diseases and gender medicine

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## PROJECT COORDINATION AND CME PROVIDER



OVER SRL  
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THROUGHOUT THE EVENT, PHOTOS WILL BE TAKEN AND VIDEO RECORDINGS WILL BE MADE. THE CONTENT WILL BE SHARED ONLINE, INCLUDING SOCIAL NETWORKS.

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# NEX ONCOLOGY

Supporting Oncology through Innovation.

OCTOBER 9<sup>TH</sup> - 10<sup>TH</sup> 2023

MILAN

Hotel Enterprise - Corso Sempione, 91

WWW.NEXTONCOLOGY.IT

## FACULTY

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### ZAMBELLI ALBERTO

Associate Professor of Oncology and Head of the Breast Cancer Section, Humanitas University - IRCCS Research Hospital - Rozzano (MI)

**7** OCTOBER 9th, 2023

**11:00**  
Opening activities  
**G. Curigliano, M. De Laurentiis**

I SESSION:  
**RADIOMIC PREVENTION AND  
BIOSENSORS**

**11:15**  
Introductory Talk  
**A. Albini**

**11:35**  
Keynote lecture:  
Updates on early detection  
methods  
**C. Rolfo**

**12:05**  
Technical Presentation:  
Radiomics and imaging of next  
generation  
**S. Volpe**

**12:20**  
Technical Presentation:  
Digital and AI for biosensors  
and clinical research  
**A. Traverso**

**12:35**  
Round Table  
**A. Albini, G. Curigliano,  
M. De Laurentiis, A. Gennari,  
V. Guarneri, C. Rolfo, A. Traverso,  
S. Volpe**

**13:15**  
Lunch

II SESSION:  
**MINIMALLY INVASIVE  
DIAGNOSTIC PROCEDURES  
AND MULTIOMICS  
TECHNOLOGIES**

**14:30**  
Introductory Talk  
**A. Bardelli**

**14:50**  
Keynote lecture:  
How liquid biopsies will change  
clinical practice in oncology  
**G. Mauri**

**15:20**  
Technical Presentation:  
Computational Oncology: Omics  
analyses in circulating tumor  
DNA  
**G. Crisafulli**

**15:35**  
Technical Presentation:  
Monitoring response to cancer  
immunomodulation in the blood  
**S. Valpione**

**15:50**  
Round Table  
**A. Bardelli, S. Cinieri, G. Crisafulli,  
G. Curigliano, M. De Laurentiis,  
L. Del Mastro, M. Giuliano,  
G. Mauri, S. Valpione**

**16:30**  
Coffee break

III SESSION:  
**ADVANCED TREATMENT AND  
CANCER-SPECIFIC VACCINES**

**16:45**  
Introductory Talk  
**P. Ascierto**

**17:05**  
Keynote lecture:  
What we learned from  
immunotherapy in the past years  
**P. Ascierto**

**17:35**  
Technical Presentation:  
The role of metabolism in  
immunotherapy  
**G. Delgoffe**

**17:50**  
Technical Presentation:  
The development of personalized  
cancer-specific vaccines  
**C. Melief**

**18:05**  
Round Table  
**P. Ascierto, G. Bianchini,  
G. Curigliano, M. De Laurentiis,  
G. Delgoffe, I. Melero\*, C. Melief,  
M. Lambertini**

**18:45**  
Wrap up and take home  
messages  
**G. Curigliano, M. De Laurentiis**

**18:55**  
Closing activities

**NEX**  
**O N C O L O G Y**

**7** OCTOBER 10th, 2023

**9:00**  
Opening activities  
**G. Curigliano, M. De Laurentiis**

**9:15 - 11:05\***  
IV SESSION:  
**ANTIBODY DRUG CONJUGATE**

**9:15**  
Introductory Talk  
**S. Siena**

**9:35**  
Keynote lecture:  
ADCs Design  
**T. Kagari**

**10:05**  
Technical Presentation:  
Next Generation ADCs  
**B. Pistilli**

**10:20**  
Technical Presentation:  
Biomarkers predicting activity  
of ADCs  
**E. Giovannetti**

**10:35**  
Round Table  
**G. Curigliano, M. De Laurentiis,  
E. Giovannetti, T. Kagari,  
F. Perrone, B. Pistilli, S. Siena**

V SESSION:  
**NANOMEDICINE AND  
PRECISION MEDICINE**

**11:05**  
Introductory Talk  
**E. Tasciotti**

**11:25**  
Keynote lecture:  
Hybrid nanomaterials for  
targeting and killing tumors  
**L. De Cola**

**11:55**  
Technical Presentation:  
Early detection and therapeutic  
management of cancer through  
the interrogation of  
nanoparticles' protein corona  
**G. Caracciolo**

**12:10**  
Technical Presentation:  
Internal radiotherapy based on  
inorganic nanoparticles  
**T. Pellegrino**

**12:25**  
Round Table  
**G. Caracciolo, C. Criscitiello,  
G. Curigliano, C. De Angelis,  
L. De Cola, M. De Laurentiis,  
S. Novello, T. Pellegrino,  
E. Tasciotti**

**12:55**  
Light Lunch

VI SESSION:  
**COMPUTATIONAL ONCOLOGY,  
AI AND VR**

**13:25**  
Introductory Talk  
**A. Giordano**

**13:45**  
Keynote lecture:  
Artificial Intelligence and  
Virtual Reality Advances and  
Applications in Research  
Oncology and Clinical Oncology  
**L. Gallo**

**14:15**  
Technical Presentation:  
Artificial Intelligence: A Modern  
Approach  
**T. Tuccinardi**

**14:30**  
Technical Presentation:  
The benefits of virtual reality  
interventions for cancer  
patients  
**A. Chirico**

**14:45**  
Focus On:  
The impact of new  
technologies on the care  
process  
**G. Pravettoni**

**15:00**  
Round Table  
**A. Chirico, G. Curigliano,  
M. De Laurentiis, L. Gallo,  
A. Giordano, G. Pravettoni,  
F. Puglisi, T. Tuccinardi,  
A. Zambelli**

**15:30**  
Take home messages  
**G. Curigliano, M. De Laurentiis**

**15:45**  
Closing Activities

\*Non - CME accredited

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