



**30<sup>th</sup>**

Annual Conference of  
Italian Association of Cell Cultures (AICC)

**NOVEMBER 27-28, 2017 - MILAN, ITALY**



# TUMOR-IMMUNE CELL INTERFACE IN SOLID AND HEMATOLOGICAL MALIGNANCIES

Reprogramming the immune  
microenvironment toward better  
outcome and response to therapy



Fondazione IRCCS  
Istituto Nazionale dei Tumori  
*Via Venezian 1, Milan*

Aula Magna  
"Gianni Bonadonna"



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## PRESENTATION OF THE CONFERENCE

The 30<sup>th</sup> Conference of Italian Association of Cell Culture (AICC) will take place in Milan on November 27-28, 2017 at the Fondazione IRCCS Istituto Nazionale dei Tumori, the Cancer Centre cradle of Italian oncology.

Tumors comprise not only cancerous but also normal cells that, as stromal components, actively participate to tumor progression and metastatization. Among them, tumor-driven immune cells are potent allies in sustaining tumor growth.

The conference will focus on the role of immune cells in tumor development and progression and on the possible strategies to re-educate tumor-promoting leukocytes toward anti-tumor functions.

The meeting is organized in two days with 5 thematic sessions, national and international speakers, leaders in their scientific fields, an opening and a closing lecture and selected abstract oral presentations. Sessions will cover different topics: immunosuppression, immunotherapy, tumor microenvironment in hematological tumors, tumor metabolism and new tools for modeling tumor-stroma interaction.

New insights into basic, translational and clinical research will be discussed, to provide an opportunity of interaction and collaboration among participants.

We hope the Conference will be of your interest and look forward to meeting you in Milan.

Claudia Chiodoni

Mario P. Colombo



## AICC SCIENTIFIC BOARD

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**Katia Scotlandi**, IRCCS Rizzoli Orthopaedic Institute, Bologna

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### Scientific Coordinators

Fondazione IRCCS Istituto Nazionale dei Tumori

**Claudia Chiodoni** and **Mario Paolo Colombo**

### Local Scientific Committee

Fondazione IRCCS Istituto Nazionale dei Tumori

**Maria Chiara Anania**, **Alessandra Cataldo**,

**Orazio Fortunato**, **Veronica Huber**, **Elena Jachetti**,

**Alessandro Satta**, **Michele Sommariva**, **Elena Tassi**

## AICC SECRETARIAT

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### Istituto Superiore di Sanità

**Stefania Meschini** - stefania.meschini@iss.it

**Evelin Pellegrini** - evelin.pellegrini@guest.iss.it

## ORGANIZING SECRETARIAT

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### Fondazione IRCCS Istituto Nazionale dei Tumori

Phone: +39 02 23902212

**Ester Grande** - ester.grande@istitutotumori.mi.it

**Claudia Chiodoni** - claudia.chiodoni@istitutotumori.mi.it

## **SPEAKERS**

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**Andrea Anichini**, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan

**Chiara Arrigoni**, Istituto Ortopedico Galeazzi, Milan

**Alessandra Carè**, Istituto Superiore di Sanità, Rome

**Serena Danti**, Università di Pisa

**Silvia Deaglio**, Università di Torino

**Michele De Palma**, EPFL, ISREC, Lausanne, Switzerland

**Marina Garassino**, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan

**Stefano Indraccolo**, Istituto Oncologico Veneto, Padua

**Anna Mondino**, San Raffaele Scientific Institute, Milan

**Alessio Nencioni**, Università degli Studi di Genova, San Martino IST, Genoa

**Silvia Piconese**, Università La Sapienza, Rome

**Licia Rivoltini**, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan

**Davide Rossi**, Institute of Oncology Research and Oncology Institute of Southern Switzerland, Bellinzona, Switzerland

**Sabina Sangaletti**, Fondazione IRCCS Istituto Nazionale dei Tumori, Milan

**Jürg Schwaller**, University of Basel, Switzerland

**Antonio Sica**, Università del Piemonte Orientale, Novara

**Claudio Tripodo**, Università di Palermo, School of Medicine

## GENERAL INFORMATION

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### CONFERENCE VENUE

**Aula Magna Gianni Bonadonna**

**Fondazione IRCCS Istituto Nazionale dei Tumori**

Via Venezian 1, 20133, Milan

[www.istitutotumori.mi.it](http://www.istitutotumori.mi.it)

### REGISTRATION FEES (VAT included)

AICC Members	€ 200,00
GISM Members	€ 200,00
Non-Members	€ 250,00 (€ 200,00+50,00 membership fee)
Ph.D. Students, Students	€ 50,00 (membership fee)
One-day registration	€ 150,00 (€ 100,00+50,00 membership fee)
On site	€ 280,00 (€ 230,00+50,00 membership fee)

*The registration fee includes:*

- Attendance at the 30<sup>th</sup> Annual Conference of Italian Association of Cell Cultures (AICC)
- Attendance Certificate
- Conference Kit, Coffee Breaks, Lunches

### SOCIAL EVENT

Monday, November 27<sup>th</sup> 2017, Social dinner.

Social dinner contribution fee € 35,00

Reservation for social dinner will be accepted until November 8<sup>th</sup> 2017.

### BEST POSTER and ORAL PRESENTATION AWARDS

During the conference AICC will award poster prizes for researchers under 35 years of age.

Two “Guido Berlucci Foundation Best Poster Prize” will be available for researchers under 35 of any nationality, for oncology research implemented in an Italian laboratory. Each prize is of 500 euros.

One prize (500 euros) for the best poster on tumor immunotherapy will be awarded, for researchers under 35, from the *Journal of Experimental & Clinical Cancer Research*.

One “Guido Berlucci Foundation Best Oral Presentation Prize” will be available for researchers under 40 of any nationality, for oncology research implemented in an Italian laboratory. The prize is of 500 euros, plus a bonus to be used by the winner for the attendance to the 2018 event of any Scientific Society in the oncology.

### LANGUAGE

The official language of the Conference is English.



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## SCIENTIFIC PROGRAMME

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### **TUMOR-IMMUNE CELL INTERFACE IN SOLID AND HEMATOLOGICAL MALIGNANCIES**

November 27-28, 2017 - Milan, Italy

# SCIENTIFIC PROGRAMME

## Monday, November 27<sup>th</sup> 2017

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**09.30** Registration and poster set-up

**10.30** OPENING CEREMONY  
Greetings from the Authorities  
Greetings from AICC President

**11.30** OPENING LECTURE  
Reprogramming the tumor immune microenvironment.  
**Michele De Palma** (EPFL, ISREC, Lausanne, Switzerland)

**12.30** Lunch and poster viewing

### SESSION 1

3D CULTURES AND MICROFLUIDICS:  
NEW TOOLS FOR MODELING TUMOR-STROMA INTERACTIONS  
Chairs: **Francesca Zazzeroni** and **Orazio Fortunato**

**13.40** Microfluidic and mesoscale vascularized 3D human models to study cancer metastases: dissection of the combined effects of neutrophils and platelets.  
**Chiara Arrigoni** (IRCCS Istituto Ortopedico Galeazzi, Milan)

**14.10** Effect of scaffold chemistry and porosity on 3D organization of different carcinoma cells.  
**Serena Danti** (Università di Pisa)

**14.40** Selected talks  
A 3D stoma-based microenvironment to assess drug efficacy in chronic lymphocytic leukaemia. **39**  
**Edoardo Visentin** (San Raffaele Scientific Institute, Milan)

Impact of cancer stem cell-associated macrophages on cholangiocarcinoma onset and progression. **11**  
**Margherita Correnti** (Humanitas Clinical and Research Center, Milan)

Microfluidic chip technology as an innovative tool to investigate cancer and immune cells crosstalk for chemo- and immunotherapy. **22**  
**Fabrizio Mattei** (Istituto Superiore di Sanità, Rome)

**15.10** "Materials & Methods" talks  
Standardization and reproducibility in flow cytometry.  
**Giulio Bassi** (*Miltenyi Biotec*)

How HTG Molecular Diagnostics Gene Expression Based  
Molecular Profiling Could Help Improve Cancer Diagnostics.  
**Jean Claude Gerard** (*HTG*)

**15.50** *Coffee break*

## **SESSION 2**

### TUMOR METABOLISM

Chairs: **Massimo Donadelli** and **Michele Sommariva**

**16.20** Anti-angiogenic therapy triggers metabolic rewiring in tumors.  
**Stefano Indraccolo** (*Istituto Oncologico Veneto, Padua*)

**16.50** Fasting and fasting-mimicking diets as a means to increase  
efficacy and tolerability of anticancer treatments.  
**Alessio Nencioni** (*Università degli Studi di Genova,  
San Martino IST, Genoa*)

**17.20** SCD5-based oleic acid induction or its direct supplementation  
triggers antitumor activities.  
**Alessandra Carè** (*Istituto Superiore di Sanità, Rome*)

**17.50** *Selected talks*  
pH regulatory inhibitors as therapeutic strategy in hepatocellular  
carcinoma. **38**  
**Alessandra Tuccitto** (*Fondazione IRCCS Ist. Nazionale dei Tumori, Milan*)

PD1+ Tumor infiltrating T lymphocytes accumulate in highly metabolic  
tumors in pancreatic adenocarcinoma. **8**  
**Giovanni Castino** (*Humanitas Clinical and Research Center, Milan*)

Label-free visualization of the metabolic switch induced by iron  
depletion in breast cancer cells. **13**  
**Francesco Crisafi** (*Politecnico di Milano, Milan*)

**18.30** AICC Member Meeting

**20.30** *Social Dinner*

# SCIENTIFIC PROGRAMME

## Tuesday, November 28<sup>th</sup> 2017

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### SESSION 3

TUMOR MICROENVIRONMENT IN  
HEMATOLOGICAL MALIGNANCIES

Chairs: **Maria Teresa Di Martino** and **Elena Jachetti**

- 08.30** Chronic Lymphocytic Leukemia niche: a place of dangerous liasons.  
**Silvia Deaglio** (*Universita di Torino*)
- 09.00** Lymphoma phenotype specification by matricellular protein proficiency.  
**Claudio Tripodo** (*Universita di Palermo, School of Medicine*)
- 09.30** Lymphoma genotyping on the liquid biopsy.  
**Davide Rossi** (*Institute of Oncology Research and Oncology Institute of Southern Switzerland, Bellinzona, Switzerland*)
- 10.00** *Selected talks*
- NKG2A as a therapeutic target to improve NK cells alloreactivity to cure haploidentical hematopoietic stem cell transplanted patients. **40**  
**Elisa Zaghi** (*Humanitas Clinical and Research Center, Milan*)
- P2X7 receptor splice variants as potential biomarkers and therapeutic targets in AML. **30**  
**Anna Pegoraro** (*University of Ferrara*)
- 10.30** *Coffee break*

### SESSION 4

IMMUNOTHERAPY AND TREATMENT RESISTANCE

Chairs: **Stefania Meschini** and **Veronica Huber**

- 11.00** Adoptive T cell therapy for solid tumors: dual Tumor/Tumor-stroma targeting approaches.  
**Anna Mondino** (*San Raffaele Scientific Institute, Milan*)
- 11.30** Resistance to immune checkpoint blockade in melanoma: analysis at tumor site.  
**Andrea Anichini** (*Fondazione IRCCS Ist. Nazionale dei Tumori, Milan*)
- 12.00** Overcoming resistances in immunotherapy.  
**Marina Garassino** (*Fondazione IRCCS Ist. Nazionale dei Tumori, Milan*)

**12.30** *Selected talks*

Novel Therapies in Non-Small Cell Lung Cancer harbouring ALK-rearrangements. **27**

**Ines Mota** (*Centro di Ricerca Medica Sperimentale, Turin*)

ABCA1 bridges lipid metabolism and anti-tumor immune system activity. **21**

**Chiara Riganti** (*Università degli Studi di Torino*)

IL-33 exerts antitumoral activities against melanoma through activation of eosinophils. **23**

**Giovanna Schiavoni** (*Istituto Superiore di Sanità, Rome*)

**13.00** *Lunch and Poster Viewing*

**SESSION 5**

TUMOR-ASSOCIATED IMMUNOSUPPRESSION

Chairs: **Michele Caraglia** and **Elena Tassi**

**14.00** Exploiting myeloid cells as prognostic biomarker and therapeutic target in cancer patients.

**Licia Rivoltini** (*Fondazione IRCCS Istituto Nazionale dei Tumori, Milan*)

**14.30** Reprogramming of myeloid cell functions in cancer development.

**Antonio Sica** (*Università del Piemonte Orientale, Novara*)

**15.00** Extracellular Matrix Regulation of Myeloid Cell Activity in the Tumor Microenvironment.

**Sabina Sangaletti** (*Fondazione IRCCS Ist. Nazionale dei Tumori, Milan*)

**15.30** Immunometabolic checkpoints of regulatory T cell dynamics in cancer.

**Silvia Piconese** (*Università La Sapienza, Rome*)

**16.00** *Selected talks*

Therapeutic potential of BoxA in malignant mesothelioma. **26**

**Rosanna Mezzapelle** (*San Raffaele Hospital, Milan*)

The VEGFC/VEGFR3 pathway drives immune tolerance in Colorectal Cancer. **35**

**Federica Rubbino** (*Humanitas Clinical and Research Center, Milan*)

Bimodal crosstalk between iNKT cells and Tumor-Associated Macrophages locally controls prostate cancer progression. **12**  
**Filippo Cortesi** (*San Raffaele Scientific Institute, Milan*)

**16.30**    **AWARDS CEREMONY**

Best poster and oral presentation awards from  
Fondazione Guido Berlucci and AICC  
Chairs: **Katia Scotlandi** and **Carlo Leonetti**

**16.45**    **CLOSING LECTURE**

Modeling the cellular origin of acute myeloid leukemia  
in transgenic mice.  
**Jürg Schwaller** (*University of Basel, Switzerland*)

**17.30**    *Closing Remarks*