1st MILAN ME[E]T IMMUNE CONFERENCE

How Metabolism Meets the Immune System in Human Malignancies

Milan, April 27-28 2023

Course Director
Filippo de Braud

6.3 CME credits

www.accmed.org
Objectives

Preclinical and clinical studies demonstrate how the modulation of systemic and tumor metabolism influences crucial properties of human neoplasms, namely cancer cell growth, invasion, immunoregulation, metastasis and response to standard treatments, including chemotherapy, immunotherapy and targeted therapies. The objective of this Conference, the first of a series of annual conferences on this topic, is to bring together national and international experts in the field of pre-clinical and clinical research on cancer metabolism and immunology, with the aim of sharing and discussing the most recent advances in this field of research. In particular, the Speakers will discuss experimental therapeutic strategies which, through the modulation of host and tumor metabolism, are able to impact on the activation status of specific populations of the immune system involved in antitumor immune response. Particular attention will be paid to the clinical implications of these experimental strategies, and in particular to metabolic treatments, both nutritional or pharmacological ones, which have demonstrated antitumor and immunomodulatory effects, especially when used in combination with standard anticancer therapies in preclinical studies, and that are currently being tested in clinical trials.

Addressed to

Medical oncologists, clinical nutritionists, pathologists, radiologists, radiation oncologists. Biologists.

CME

Based on the in force regulations approved by the CNFC, Accademia Nazionale di Medicina (provider n. 31) will assign to the activity CME (31-375809): 6,3 CME credits.

Training objective: professional and technical content (knowledge and skills) specific to each profession, specialization and highly specialized activity. Rare disease.

The credit certification is subject to:
- professions/specializations should correspond to those which have been accredited for CME;
- attendance at the 90% of the meeting;
- the completion of the Meeting evaluation online form;
- completion of the final test (at least 75% of correct answers). 1 attempt admitted. The test and the meeting evaluation form must be completed within 3 days from the end of the event.

Registration

Participation in the course is free, places available are limited. It is possible to register online at the address [https://fad.accmed.org/course/info.php?id=1162](https://fad.accmed.org/course/info.php?id=1162) by 18 april 2023. Registration will be accepted in the chronological order of arrival and will be confirmed by e-mail.

With the Endorsement of:
Program
Thursday, April 27th

12.00  Registration and welcome coffee

13.00  Meeting introduction
      Giovanni Apolone

      SESSION 1
      Open debates on calorie restriction in cancer patients
      Chairman: Riccardo Caccialanza

      13.30  Impact of severe calorie restriction on systemic metabolism
             and intratumor immunity in cancer patients
             Filippo de Braud

      13.55  Severe calorie restriction in breast and lung cancer treatment: past, present and future
             Claudio Vernieri

      14.20  Nutrient supplementation versus restriction in cancer therapy: the endless debate
             Emanuele Cereda

      14.45  Discussion

      15.05  Coffee break

      SESSION 2
      Crosstalk between metabolism, immune system and biomechanics: from preclinical models to patients
      Chairman: Massimo Di Nicola

      15.30  The interplay between metabolism and bio-mechanics in cancer cells
             Marco Foiani

      15.50  Impact of metabolic modifications on tumor microenvironment
             Massimiliano Pagani

      16.10  Fatty acid metabolism and immunomodulation in breast cancer
             Mario Colombo

      16.30  Impact of severe calorie restriction on immunosuppressive myeloid cells in cancer patients
             Licia Rivoltini

      16.50  Discussion

      17.15  Adjourn
Friday, April 28th

LECTURE

9.30 Metabolic dependencies and targetable vulnerabilities in human malignancies
   Jason Locasale

10.10 Discussion

SESSION 3

Role of diet, physical exercise and body composition in immunomodulation and cancer treatment
Chairman: Gabriella Sozzi

10.30 Current approaches and future perspectives of immunotherapies in breast and lung cancer
   Michele Maio

11.00 Impact of weight loss on clinical outcomes in cancer patients
   Jennifer Ligibel

11.30 Role of adiposity and body composition on breast cancer response to treatments
   Christine Desmedt

12.00 Cyclic fasting in hormone receptor-positive breast cancer: from preclinical to clinical research
   Alessio Nencioni

12.30 Discussion

13.00 Lunch

SESSION 4

Fasting-mimicking diet in cancer treatment: different experiences from different countries
   Chairman: Giovanni Fucà

14.15 Fasting-mimicking diet in addition to neoadjuvant chemotherapy in breast cancer patients: the Dutch experience
   Judith R. Kroep

14.45 Fasting-like approaches in cancer treatment: the German experience
   Andreas Michalsen

15.15 Discussion

LECTURES

15.45 The role of gut and tumor microbiota in tumor immunomodulation and response to therapies
   Giorgio Trinchieri

16.15 Fasting and fasting-mimicking diets in cancer therapy: from preclinical studies to clinical trials
   Valter Longo

16.45 Take home messages
   Filippo de Braud

17.00 Adjourn
Course Director
Filippo de Braud
Dipartimento di Oncologia
S.C. Oncologia Medica 1
Fondazione IRCCS Istituto Nazionale Tumori
Milano

Scientific Committee
Claudio Vernieri
U.O. Breast Unit, S.C. Oncologia Medica 1
IRCCS Istituto Nazionale Tumori
Milano

Metabolic Reprogramming in Solid Tumors Unit
IFOM, Istituto Fondazione di Oncologia
Molecolare ETS
Milano

Faculty
Giovanni Apolone, Milano
Riccardo Caccialanza, Pavia
Emanuele Cereda, Pavia
Mario Colombo, Milano
Christine Desmedt, Leuven (B)
Massimo Di Nicola, Milano
Marco Foiani, Milano
Giovanni Fucà, Milano
Judith R. Kroep, Leiden (NL)
Jennifer Ligibel, Boston (USA)
Jason Locasale, Durham (North Carolina, USA)
Valter Longo, Los Angeles (USA)
Michele Maio, Siena
Andreas Michalsen, Berlin (D)
Alessio Nencioni, Genova
Massimiliano Pagani, Milano
Licia Rivoltini, Milano
Gabriella Sozzi, Milano
Giorgio Trinchieri, Bethesda (USA)
Meeting venue

Aula Magna
Fondazione IRCCS Istituto Nazionale dei Tumori
Milano
Address: Via Giacomo Venezian, 1 – 20133 Milan

Organizer

ACCADEMIA NAZIONALE DI MEDICINA
Direttore Generale: Stefania Ledda
Via Martin Piaggio, 17/6
16122 Genova

Information

www.fad.accmed.org
Ph: 010 83794239
Mob: 3357112604
E-mail: segreteriacorsi@accmed.org

Logistics and technological services

Forum Service
Via Martin Piaggio 17/8
16122 Genova

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