

8:30 am - 8:40 am

Welcome**Lewis C. Cantley, PhD**

Weill Cornell Medical College, New York, NY, USA

Introduction**Silvia C. Formenti, MD**

Weill Cornell Medical College, New York, NY, USA

CME-CERTIFIED PRIMER ON IMMUNOTHERAPY AND RADIATION

Sessions I and II are jointly provided by Postgraduate Institute for Medicine and the Society for Immunotherapy of Cancer (SITC).

8:40 am - 10:30 am

Session I – Tumor immunology (Chair: Sandra Demaria)

8:40 am – 9:10 am

Innate immunity**Niroshana Anandasabapathy, MD, PhD**

Weill Cornell Medical College, New York, NY, USA

9:10 am – 9:40 am

Adaptive immunity**Gary A. Koretzky, MD, PhD**

Weill Cornell Medical College, New York, NY, USA

9:40 am – 10:30 am

Keynote Lecture – Checkpoint blockade immunotherapy: Understanding activity, toxicity management and investigating mechanisms**Jedd D. Wolchok, MD, PhD**

Memorial Sloan Kettering Cancer Center, New York, NY, USA

10:30 am - 10:45 am

Coffee break

10:45 am - 12:30 pm

Session II – Basic principles of radiation therapy for the immunoncologist (Chair: Karsten Pilonis)

10:45 am - 11:15 am

Radiation biology for immunologists**William McBride, PhD**

UCLA, Los Angeles, CA, USA

11:15 am - 11:45 am

Mechanisms of response and resistance to radiation and immunotherapy**David Kirsch, MD, PhD**

Duke University, Durham, NC, USA

11:45 am - 12:15 pm

Radiation effects on tumor microenvironment**Mary-Helen Barcellos-Hoff, PhD**

UCSF, San Francisco, CA, USA.

12:15 pm - 12:30 pm

Questions to the panel (Chair: Sandra Demaria, Karsten Pilonis)

12:30 pm - 1:30 pm

Lunch break

MAIN PROGRAM

- 1:30 pm – 3:45 pm **Session III – Progress in radiotherapy, immunotherapy and their combination (Chair: Lorenzo Galluzzi, Claire Lhuillier)**
Sponsored by EMD Serono
- 1:30 pm – 2:00 pm **The fundamental equation of oncoimmunology: Immunogenicity = antigenicity + adjuvanticity**
Guido Kroemer, MD, PhD
Centre de Recherche des Cordeliers, Paris, France
- 2:00 pm – 2:30 pm **Regulatory T Cells and radiation therapy**
Charles G. Drake, MD, PhD
Columbia University, New York, NY, USA
- 2:30 pm – 2:45 pm **Coffee break**
- 2:45 pm – 3:15 pm **CAR T cells and low-dose radiation**
Michel Sadelain, MD, PhD
Memorial Sloan Kettering Cancer Center, New York, NY, USA
- 3:15 pm – 3:45 pm **Overcoming the resistance in the tumor microenvironment to improve tumor control with radiotherapy**
Timothy Illidge, PhD
University of Manchester, Manchester, UK
- 3:45 pm - 5:45 pm **Session IV – Imaging of the tumor and its microenvironment (Chair: Fatima Mehta-Grigoriou, Josephine Kang)**
Sponsored by Nanobiotics
- 3:45 pm - 4:15 pm **Radiomics**
Eric Deutsch, MD, PhD
Gustave Roussy Comprehensive Cancer Campus, Villejuif, France
- 4:15 pm - 4:45 pm **Immune profiling of primary and metastatic tumors**
Jérôme Galon, MD, PhD
Centre de Recherche des Cordeliers, Paris, France
- 4:45 pm - 5:15 pm **Is tumor hypoxia a cause of immunoresistance?**
Philippe Lambin, MD, PhD
Maastricht University, Maastricht, The Netherlands
- 5:15 pm - 5:45 pm **Theranostic Tools and Targeted Treatments**
John W. Babich, PhD
Weill Cornell Medical College, New York, NY, USA
- 5:45 pm **End of Day 1 Content**
- 6:00 pm – 9:00 pm **Poster Session**

- 8:30 am - 10:30 am **Session V – Radiation immunotherapy combinations in the clinic**
(Chair: Eric Deutsch, Encouse Golden)
Sponsored by AstraZeneca
- 8:30 am - 9:00 am **Radiotherapy to enhance breast cancer response to immunotherapy**
Silvia C. Formenti, MD
Weill Cornell Medical College, New York, NY, USA
- 9:00 am - 9:30 am **Hot tumors are not enough: using *in situ* vaccination to make cold tumors hot, and cross-priming**
Joshua Brody, MD
Icahn School of Medicine at Mount Sinai, New York, NY, USA
- 9:30 am - 10:00 am **Combinations of Immunotherapy and Targeted Drugs with Radiation: Excitement but with Caution**
David Raben, MD
University of Colorado, Aurora, CO, USA
- 10:00 am - 10:30 am **Clinical and molecular correlates of SBRT and immune-checkpoint blockade in patients with advanced solid tumors**
Jason Luke, MD
University of Pittsburgh Medical Center and Hillman Cancer Center, Pittsburgh, PA
- 10:30 am –10:45 am **Coffee break**
- 10:45 am - 12:45 am **Session VI – Tumor and host factors impacting tumor immunity**
(Chair: Silvia Formenti, Nils Rudqvist)
Sponsored by EMD Serono
- 10:45 am - 11:15 am **Microbiota in the efficacy of cancer immunotherapy**
Laurence Zitvogel, MD, PhD
Gustave Roussy Comprehensive Cancer Campus, Villejuif, France
- 11:15 am - 11:45 am **Microbiota and radiotherapy in cervical cancer**
Ann H. Klopp, MD, PhD
MD Anderson Cancer Center, Houston, TX, USA
- 11:45 am - 12:15 pm **Detrimental effects of high sucrose diets**
Lewis C. Cantley, PhD
Weill Cornell Medical College, New York, NY, USA
- 12:15 pm - 12:45 pm **Myeloid-derived suppressor cells**
Dmitry Gabilovich, MD, PhD
The Wistar Institute, Philadelphia, PA, USA
- 12:45 pm - 1:45 pm **Lunch break**

- 1:45 pm - 3:45 pm **Session VII – Nucleic acid sensing in immunity and autoimmunity**
(Chair: Tim Illidge, Claire Vanpouille-Box)
- Sponsored by Roche**
- 1:45 pm - 2:15 pm **Is the radiation immunology interaction predominantly local?**
- Ralph Weichselbaum, MD**
University of Chicago, Chicago, IL, USA
- 2:15 pm - 2:45 pm **Mitochondrial DNA and interferon**
- Virginia Pascual, MD**
Weill Cornell Medical College, New York, NY, USA
- 2:45 pm - 3:15 pm **ATR inhibitors and tumor immunogenicity**
- Kevin Harrington, MD, PhD**
Institute of Cancer Research, London, UK
- 3:15 pm - 3:45 pm **Improving radiotherapy efficacy with AsidDNA DNA repair inhibitors and safety with FLASH**
- Marie Dutreix, PhD**
Curie Institute, Paris, France
- 3:45 am - 4:00 pm **Coffee break**
- 4:00 pm - 6:00 pm **Session VIII – Local and systemic tumor microenvironment**
(Chair: Mary- Helen Barcellos-Hoff, Erik Wennerberg)
- Sponsored by Nanobiotics**
- 4:00 pm – 4:30 pm **Role of stromal heterogeneity in immunosuppression and resistance to immunotherapy**
- Fatima Mehta-Grigoriou, PhD**
Curie Institute, Paris, France
- 4:30 pm - 5:00 pm **Tryptophan catabolism in tumoral immune suppression: IDO2 and DNA damaging modalities**
- George Prendergast, PhD**
Lankenau Institute for Medical Research (LIMR), Philadelphia PA, USA
- 5:00 pm - 5:30 pm **Activation of NK cells for cancer immunotherapy**
- Kai Wucherpfennig, MD, PhD**
Harvard Medical School, Boston, MA, USA
- 5:30 pm - 6:00 pm **Opposing Roles of Interferon Signaling Regulate Innate and Adaptive Response to Cancer Immunotherapy**
- Andy Minn, MD, PhD**
University of Pennsylvania, Philadelphia, PA, USA
- 6:00 pm **End of Day 2 Content**
- 6:30 pm – 10:30 pm Dinner Cruise

DAY 3

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- 8:30 am - 10:30 am **Session IX – Alternative ways to convert tumor into a vaccine**
(Chair: Kevin Harrington, Aitziber Buqué)
- Sponsored by EMD Serono**
- 8:30 am - 9:00 am **Targeted immunotherapy and radiotherapy combinations**
- Sandra Demaria, MD**
Weill Cornell Medical College, New York, NY, USA
- 9:00 am - 9:30 am **GRID radiation**
- Mansoor Ahmed, MD, PhD**
NCI, Bethesda, MD, USA
- 9:30 am - 10:00 am **FLASH radiation**
- Marie-Catherine Vozenin, PhD**
University of Lausanne, Lausanne, Switzerland
- 10:00 am - 10:30 am **Energy-based immune priming for *in situ* tumor vaccines**
- Chandan Guha, MBBS, PhD**
Albert Einstein College of Medicine, Bronx, NY, USA
- 10:30 am - 10:45 am **Coffee break**
- 10:45 am - 11:45 am **Session X – Omics in the future of radiation immunotherapy combinations**
(Chair: Silvia Formenti)
- Sponsored by Roche**
- 10:45 am - 11:30 am **Keynote Lecture – Computational cancer dynamics**
- Professor Simon Tavaré PhD, FRS**
Columbia University, New York, NY, USA
- 11:30 am - 11:45 am **Concluding remarks**
- Silvia C. Formenti, MD**
Weill Cornell Medical College, New York, NY, USA
- 11:45 am **End of Day 3**