

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 Mechta-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 **Improving radiotherapy efficacy with AsiDNA DNA repair inhibitors and safety with FLASH**
- Marie Dutreix, PhD**  
Curie Institute, Paris, France
- 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 **Is the radiation immunology interaction predominantly local?**
- Ralph Weichselbaum, MD**  
University of Chicago, Chicago, IL, USA
- 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 Wucherpennig, 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 – 10:00 pm **Dinner Cruise**

# DAY 3

**SATURDAY • SEPTEMBER 14, 2019**

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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**