

# CONFERENCE PROGRAM

## Tuesday, June 19, 2018

- 5:00 p.m.–7:00 p.m.**      **WELCOME AND OPENING KEYNOTE LECTURES**
- 5:00 p.m.–6:00 p.m.      **The cancer dormancy paradigm and how it transformed metastasis research**  
Julio A. Aguirre-Ghiso, Icahn School of Medicine at Mount Sinai, New York, NY
- 6:00 p.m.–7:00 p.m.      **The grand challenge: How to distinguish normal from dormant breast cancer cells?**  
Mina J. Bissell, Lawrence Berkeley National Laboratory, Berkeley, CA
- 7:00 p.m.–9:00 p.m.**      **WELCOME RECEPTION**

## Wednesday, June 20, 2018

- 7:00 a.m.–8:00 a.m.**      **BREAKFAST**
- 8:00 a.m.–10:15 a.m.**      **PLENARY SESSION 1: THE ROLE OF DTC HETEROGENEITY IN EARLY SYSTEMIC CANCER, DISTANT SITE ADAPTATION, AND SELECTION**
- Session Chairs:** Julio A. Aguirre-Ghiso, Icahn School of Medicine at Mount Sinai, New York, NY, and Rachele Johnson, Vanderbilt University Medical Center, Nashville, TN
- 8:00 a.m.–8:30 a.m.      **From early dissemination to metastatic colonization: What happens during dormancy?**  
Christoph A. Klein, University of Regensburg, Regensburg, Germany
- 8:30 a.m.–9:00 a.m.      **Genomic profiling of minimal residual cancer cells**  
Nikolas Stoecklein, University of Düsseldorf, Düsseldorf, Germany
- 9:00 a.m.–9:30 a.m.      **Evolution of lethal metastatic cancer at primary and metastatic sites: Can we identify what is important?**  
G. Steven Bova, University of Tampere, Tampere, Finland
- 9:30 a.m.–9:45 a.m.      **Clonal dynamics during tumor regression, residual disease, and recurrence\***  
James Alvarez, Duke University School of Medicine, Durham, NC
- 9:45 a.m.–10:00 a.m.      **The earliest precursor cell of melanoma metastasis: Identification and molecular characterization of candidate metastasis founders\***  
Courtney König, University of Regensburg, Regensburg, Germany
- 10:00 a.m.–10:15 a.m.      **NR2F1 limits dissemination and stem-like features of early cancer mammary epithelial cells\***  
M. Soledad Sosa, Icahn School of Medicine at Mount Sinai, New York, NY

*\*Short talks from proffered abstracts*

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<b>10:15 a.m.–10:30 a.m.</b>	<b>BREAK</b>
<b>10:30 a.m.–1:00 p.m.</b>	<b>PLENARY SESSION 2: PRO-DORMANCY NICHES</b>  <b>Session Chairs:</b> Cyrus M. Ghajar, Fred Hutchinson Cancer Research Center, Seattle, WA, and M. Soledad Sosa, Icahn School of Medicine at Mount Sinai, New York, NY
10:30 a.m.–11:00 a.m.	<b>The perivascular niche protects dormant disseminated tumor cells from chemotherapy</b> Cyrus M. Ghajar
11:00 a.m.–11:30 a.m.	<b>Elucidating the bone marrow niches of dormant, treatment-resistant leukemic cells and disseminated breast cancer cells</b> Dorothy A. Sipkins, Duke University, Durham, NC
11:30 a.m.–12:00 p.m.	<b>Stem cell pathways in dormancy and reactivation</b> Filippo Giaccotti, The University of Texas MD Anderson Cancer Center, Houston, TX
12:00 p.m.–12:30 p.m.	<b>Regulation of tumor dormancy by hypoxia</b> Rachelle W. Johnson, Vanderbilt University Medical Center, Nashville, TN
12:30 p.m.–12:45 p.m.	<b>Melanoma dormancy and the aged tumor microenvironment: WNT5A drives disseminated melanoma cell dormancy*</b> Mitchell E. Fane, Wistar Institute, Philadelphia, PA
12:45 p.m.–1:00 p.m.	<b>Inhibiting metastatic outgrowth of dormant tumor cells using soluble mediators of resolution-promoting macrophages*</b> Dalit Barkan, University of Haifa, Haifa, Israel
<b>1:00 p.m.–3:00 p.m.</b>	<b>LUNCH ON OWN</b>
<b>3:00 p.m.–5:30 p.m.</b>	<b>PLENARY SESSION 3: METASTATIC NICHES</b>  <b>Session Chairs:</b> Rosandra Kaplan, National Cancer Institute, Bethesda, MD, and Dalit Barkan, University of Haifa, Haifa, Israel
3:00 p.m.–3:30 p.m.	<b>New protagonists of the tumor microenvironment</b> Ilaria Malanchi, The Francis Crick Institute, London, United Kingdom
3:30 p.m.–4:00 p.m.	<b>Microenvironmental control of bone metastasis in breast cancer</b> Alana Welm, Huntsman Cancer Institute, Salt Lake City, UT
4:00 p.m.–4:30 p.m.	<b>Claudin-2 is a mediator of breast and colorectal cancer liver metastasis</b> Peter Siegel, McGill University, Montreal, QC, Canada
4:30 p.m.–5:00 p.m.	<b>The role of stromal cell plasticity in the dormant to proliferative switch of disseminated cancer cells</b> Rosandra Kaplan

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5:00 p.m.–5:15 p.m. **NRP2-SEMA3s-PLXNs axis regulates the dormancy state of disseminated tumor cells and metastasis progression in breast and head and neck cancer\***  
Leire Recalde-Percaz, University of Barcelona, Barcelona, Catalonia, Spain

5:15 p.m.–5:30 p.m. **Glioma cells with downregulated IGF-IR expression can persist in the brain in a dormant state\***  
Pnina Brodt, Research Institute of the McGill University Health Center, Montreal, QC, Canada

**5:30 p.m.–7:30 p.m. RECEPTION AND POSTER SESSION A**

## Thursday, June 21, 2018

**7:00 a.m.–8:00 a.m. BREAKFAST**

**8:00 a.m.–9:00 a.m. KEYNOTE LECTURE**

**Mechanisms of HIV reservoir maintenance**

Daniel Douek, National Institute of Allergy and Infectious Diseases, Bethesda, MD

**9:00 a.m.–10:30 a.m. PLENARY SESSION 4: RESERVOIRS OF DISEASE: PARALLELS BETWEEN CANCER, HIV, AND TUBERCULOSIS**

**Session Chairs:** Daniel Douek, National Institute of Allergy and Infectious Diseases, Bethesda, MD, and Darren Carpizo, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ

9:00 a.m.–9:30 a.m. **Title to be announced**  
Rafick-Pierre Sékaly, Case Western Reserve University, Cleveland, OH

9:30 a.m.–10:00 a.m. **Targeting the one in a million: Detection and elimination of the HIV latent reservoir**  
Ya-Chi Ho, Yale University, New Haven, CT

10:00 a.m.–10:30 a.m. **In vivo gene editing of latent herpes simplex virus and HIV: Lessons from direct attacks on viral reservoirs**  
Keith Jerome, Fred Hutchinson Cancer Research Center, Seattle, WA

**10:30 a.m.–11:00 a.m. BREAK**

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- 11:00 a.m.–12:45 p.m.**      **PLENARY SESSION 5: PROTECTIVE NICHEs FOR STEM CELLS IN ADULT TISSUES**
- Session Chairs:** Dorothy A. Sipkins, Duke University, Durham, NC, and Paloma Bragado, Institut d'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS), Barcelona, Spain
- 11:00 a.m.–11:30 a.m.      **Dormancy in normal and malignant stem cells**  
Andreas Trumpp, Heidelberg Institute for Stem Cell Technology and Regenerative Medicine, Heidelberg, Germany
- 11:30 a.m.–12:00 p.m.      **Pathways regulating tumor dormancy by the hematopoietic stem cell niche**  
Russell Taichman, University of Michigan, Ann Arbor, MI
- 12:00 p.m.–12:30 p.m.      **scRNAseq approaches to define gene signatures that control dormancy in myeloma**  
Peter Croucher, Garvan Institute of Medical Research, Sydney, NSW, Australia
- 12:30 p.m.–12:45 p.m.      **Visualizing tumor dormancy in mouse models of cancer\***  
Joshua C. Snyder, Duke University School of Medicine, Durham, NC
- 12:45 p.m.–3:30 p.m.**      **LUNCH AND POSTER SESSION B**
- 3:30 p.m.–5:30 p.m.**      **PLENARY SESSION 6: TECHNOLOGIES TO IMAGE AND PROFILE DISSEMINATED TUMOR CELLS**
- Session Chairs:** Jason Bielas, Fred Hutchinson Cancer Research Center, Seattle, WA, and Courtney König, University of Regensburg, Regensburg, Germany
- 3:30 p.m.–4:00 p.m.      **High-resolution multiphoton imaging of the mechanism of how breast and pancreatic adenocarcinoma initiate and sustain systemic dissemination**  
John Condeelis, Albert Einstein College of Medicine, Bronx, NY
- 4:00 p.m.–4:30 p.m.      **Intravital microscopy revealed cancer cell plasticity to be important for metastasis**  
Arianna Fumagalli, Oncode Institute-NKI, Amsterdam, Netherlands
- 4:30 p.m.–5:00 p.m.      **Next-generation sequencing to detect and quantify rare cell populations at the single-cell level**  
Jason Bielas
- 5:00 p.m.–5:15 p.m.      **Isolation and analysis of bone marrow disseminated tumor cells from patients with localized prostate cancer\***  
Frank Cackowski, University of Michigan, Ann Arbor, MI
- 5:15 p.m.–5:30 p.m.      **Single-cell transcriptomic profiling identifies a dormancy signature in a novel mouse model of pancreatic cancer dormancy\***  
Crissy Dudgeon, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
- 5:30 p.m.**      **EVENING OFF**

*\*Short talks from proffered abstracts*

## Friday, June 22, 2018

- 7:00 a.m.–8:00 a.m.      BREAKFAST**
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- 8:00 a.m.–10:15 a.m.      PLENARY SESSION 7: DORMANCY AND IMMUNE EVASION**
- Session Chairs:** Daniela F. Quail, McGill University Goodman Cancer Center, Montreal, QC, Canada, and Frank Cackowski, University of Michigan, Ann Arbor, MI
- 8:00 a.m.–8:30 a.m.      **Neutrophil extracellular traps produced during inflammation awaken dormant cancer cells**  
Mikala Egeblad, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
- 8:30 a.m.–9:00 a.m.      **The MYC oncogene regulates the immune response influencing tumor initiation, progression, and dormancy**  
Dean W. Felsher, Stanford University, Stanford, CA
- 9:00 a.m.–9:30 a.m.      **Targeting macrophages in the brain tumor microenvironment**  
Daniela F. Quail
- 9:30 a.m.–9:45 a.m.      **NK cells govern breast cancer latency in the liver\***  
Ana Luisa Correia, University of Basel/University Hospital Basel, Basel, Switzerland
- 9:45 a.m.–10:00 a.m.      **Estrogen promotes immune evasion in the liver to enhance metastatic expansion\***  
Simon Milete, McGill University, Montreal, QC, Canada
- 10:00 a.m.–10:15 a.m.      **The role of the tumor microenvironment in breast cancer dormancy\***  
Andrea Walens, Duke University, Durham, NC
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- 10:15 a.m.–10:30 a.m.      BREAK**
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- 10:30 a.m.–12:30 p.m.      PLENARY SESSION 8: TRANSLATING DORMANCY TO THE CLINIC**
- Session Chairs:** Christoph A. Klein, University of Regensburg, Regensburg, Germany, and Simon Milete, McGill University, Montreal, QC, Canada
- 10:30 a.m.–11:00 a.m.      **Tumor dormancy in the clinic: The curious case of late relapse**  
Kathy D. Miller, Indiana University School of Medicine, Indianapolis, IN
- 11:00 a.m.–11:30 a.m.      **Clinical potential of targeting leukemic stem cells to reduce the burden of minimal residual disease**  
Ravi Bhatia, University of Alabama, Birmingham, AL
- 11:30 a.m.–12:00 p.m.      **Development of a clinical trial to induce therapeutic dormancy in prostate cancer**  
William Oh, Icahn School of Medicine at Mount Sinai, New York, NY

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- 12:00 p.m.-12:15 p.m.      **Investigating Dec2 as a biomarker of human dormant metastatic tumor cells in colorectal cancer\***  
Darren Carpizo, Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
- 12:15 p.m.-12:30 p.m.      **Selective inhibition of the stress kinase PERK blocks HER2-driven tumorigenesis and suppresses metastasis by targeting quiescent disseminated tumor cells\***  
Veronica Calvo, Icahn School of Medicine at Mount Sinai, New York, NY
- 12:30 p.m.                      CLOSING REMARKS**

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