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 Rachelle 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
CONFERENCE PROGRAM

10:15 a.m.–10:30 a.m.  
**BREAK**

10:30 a.m.–1:00 p.m.  
**PLENARY SESSION 2: PRO-DORMANCY NICHES**

**Session Chairs:** 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.  
The perivascular niche protects dormant disseminated tumor cells from chemotherapy  
Cyrus M. Ghajar

11:00 a.m.–11:30 a.m.  
Elucidating the bone marrow niches of dormant, treatment-resistant leukemic cells and disseminated breast cancer cells  
Dorothy A. Sipkins, Duke University, Durham, NC

11:30 a.m.–12:00 p.m.  
Stem cell pathways in dormancy and reactivation  
Filippo Giancotti, The University of Texas MD Anderson Cancer Center, Houston, TX

12:00 p.m.–12:30 p.m.  
Regulation of tumor dormancy by hypoxia  
Rachelle W. Johnson, Vanderbilt University Medical Center, Nashville, TN

12:30 p.m.–12:45 p.m.  
Melanoma dormancy and the aged tumor microenvironment: WNT5A drives disseminated melanoma cell dormancy*  
Mitchell E. Fane, Wistar Institute, Philadelphia, PA

12:45 p.m.–1:00 p.m.  
Inhibiting metastatic outgrowth of dormant tumor cells using soluble mediators of resolution-promoting macrophages*  
Dalit Barkan, University of Haifa, Haifa, Israel

1:00 p.m.–3:00 p.m.  
**LUNCH ON OWN**

3:00 p.m.–5:30 p.m.  
**PLENARY SESSION 3: METASTATIC NICHES**

**Session Chairs:** Rosandra Kaplan, National Cancer Institute, Bethesda, MD, and Dalit Barkan, University of Haifa, Haifa, Israel

3:00 p.m.–3:30 p.m.  
New protagonists of the tumor microenvironment  
Ilaria Malanchi, The Francis Crick Institute, London, United Kingdom

3:30 p.m.–4:00 p.m.  
Microenvironmental control of bone metastasis in breast cancer  
Alana Welm, Huntsman Cancer Institute, Salt Lake City, UT

4:00 p.m.–4:30 p.m.  
Claudin-2 is a mediator of breast and colorectal cancer liver metastasis  
Peter Siegel, McGill University, Montreal, QC, Canada

4:30 p.m.–5:00 p.m.  
The role of stromal cell plasticity in the dormant to proliferative switch of disseminated cancer cells  
Rosandra Kaplan

*Short talks from proffered abstracts*
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

*Short talks from proffered abstracts
CONFERENCE PROGRAM

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**

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 Milette, 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

10:15 a.m.–10:30 a.m.  **BREAK**

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 Milette, 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

*Short talks from proffered abstracts*
CONFERENCE PROGRAM

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

*Short talks from proffered abstracts